

Ultrathin Epitaxial Graphite: A 2D Electron Gas Property Graphene-based Nanoelectronics

Journal of Physical Chemistry B

108, 19912-19916

DOI: 10.1021/jp040650f

Citation Report

#	ARTICLE	IF	CITATIONS
1	The Computational Complexity of Approximation Algorithms for Robust Stability in Rank-Two Matrix Polytopes. , 1993, . .		1
2	Two-dimensional gas of massless Dirac fermions in graphene. Nature, 2005, 438, 197-200.	13.7	18,948
3	Experimental observation of the quantum Hall effect and Berry's phase in graphene. Nature, 2005, 438, 201-204.	13.7	12,153
4	Unconventional Integer Quantum Hall Effect in Graphene. Physical Review Letters, 2005, 95, 146801.	2.9	1,214
5	Two-dimensional atomic crystals. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10451-10453.	3.3	10,229
6	Coulomb interactions and ferromagnetism in pure and doped graphene. Physical Review B, 2005, 72, .	1.1	207
7	Effect of the Tube Diameter Distribution on the High-Temperature Structural Modification of Bundled Single-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2005, 109, 23358-23365.	1.2	51
8	Electric Field Modulation of Galvanomagnetic Properties of Mesoscopic Graphite. Physical Review Letters, 2005, 94, 176803.	2.9	385
9	Effect of Disorder on Transport in Graphene. Physical Review Letters, 2006, 97, 236801.	2.9	352
10	Charge Carriers in Few-Layer Graphene Films. Physical Review Letters, 2006, 97, 036803.	2.9	582
11	Analysis of graphene nanoribbons as a channel material for field-effect transistors. Applied Physics Letters, 2006, 88, 142102.	1.5	331
12	Highly ordered graphene for two dimensional electronics. Applied Physics Letters, 2006, 89, 143106.	1.5	318
13	Landau Level Spectroscopy of Ultrathin Graphite Layers. Physical Review Letters, 2006, 97, 266405.	2.9	527
14	Intrinsic and Rashba spin-orbit interactions in graphene sheets. Physical Review B, 2006, 74, .	1.1	960
15	Electronic states and Landau levels in graphene stacks. Physical Review B, 2006, 73, .	1.1	591
16	Transport in bilayer graphene: Calculations within a self-consistent Born approximation. Physical Review B, 2006, 73, .	1.1	269
17	Landau-Level Degeneracy and Quantum Hall Effect in a Graphite Bilayer. Physical Review Letters, 2006, 96, 086805.	2.9	1,795
18	Electrons in atomically thin carbon sheets behave like massless particles. Physics Today, 2006, 59, 21-23.	0.3	25

#	ARTICLE	IF	CITATIONS
19	Raman Scattering from High-Frequency Phonons in Supportedn-Graphene Layer Films. Nano Letters, 2006, 6, 2667-2673.	4.5	1,358
20	Screening Effect and Impurity Scattering in Monolayer Graphene. Journal of the Physical Society of Japan, 2006, 75, 074716.	0.7	727
21	Coulomb excitations in AA- and AB-stacked bilayer graphites. Physical Review B, 2006, 74, .	1.1	103
22	Collective modes and skyrmion excitations in grapheneSU(4)quantum Hall ferromagnets. Physical Review B, 2006, 74, .	1.1	173
23	Electronic Properties of Graphene Multilayers. Physical Review Letters, 2006, 97, 266801.	2.9	264
24	Unusual Microwave Response of Dirac Quasiparticles in Graphene. Physical Review Letters, 2006, 96, 256802.	2.9	476
25	Dirac fermion confinement in graphene. Physical Review B, 2006, 73, .	1.1	137
26	Quantum Hall effect in graphene: Disorder effect and phase diagram. Physical Review B, 2006, 73, .	1.1	132
27	Transport of Dirac quasiparticles in graphene: Hall and optical conductivities. Physical Review B, 2006, 73, .	1.1	449
28	Magneto-electronic Properties of a Single-Layer Graphite. Journal of the Physical Society of Japan, 2006, 75, 114703.	0.7	10
29	Graphene-based composite materials. Nature, 2006, 442, 282-286.	13.7	11,655
30	Half-metallic graphene nanoribbons. Nature, 2006, 444, 347-349.	13.7	3,878
31	Preparation and characterization of polyoxometalate-modified carbon nanosheets. Carbon, 2006, 44, 1942-1948.	5.4	40
32	Electronic properties of two-dimensional carbon. Annals of Physics, 2006, 321, 1559-1567.	1.0	46
33	Planer nano-graphenes from camphor by CVD. Chemical Physics Letters, 2006, 430, 56-59.	1.2	456
34	Temperature-dependent electronic excitations in a 2D graphite layer. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 32, 573-576.	1.3	4
35	Electronic excitations of the multilayered graphite. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 352, 446-450.	0.9	26
36	Electron decay rates in a zero-gap graphite layer. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 357, 401-406.	0.9	9

#	ARTICLE	IF	CITATIONS
37	Electronic structure of a monolayer graphite layer in a modulated electric field. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 359, 70-75.	0.9	4
38	Synthesis and characterization of atomically thin graphite films on a silicon carbide substrate. Journal of Physics and Chemistry of Solids, 2006, 67, 2172-2177.	1.9	423
39	K/graphite: Uniform energy shifts of graphite valence states. Surface Science, 2006, 600, 1160-1164.	0.8	10
40	Conductance quantization in mesoscopic graphene. Physical Review B, 2006, 73, .	1.1	320
41	Quantum Hall Ferromagnetism in Graphene. Physical Review Letters, 2006, 96, 256602.	2.9	725
42	Energy Gaps in Graphene Nanoribbons. Physical Review Letters, 2006, 97, 216803.	2.9	4,396
43	Raman Spectrum of Graphene and Graphene Layers. Physical Review Letters, 2006, 97, 187401.	2.9	12,689
44	Terahertz Plasma Waves in Gated Graphene Heterostructures. Japanese Journal of Applied Physics, 2006, 45, L923-L925.	0.8	117
45	Electronic Confinement and Coherence in Patterned Epitaxial Graphene. Science, 2006, 312, 1191-1196.	6.0	5,140
46	Electronic properties of disordered two-dimensional carbon. Physical Review B, 2006, 73, .	1.1	1,292
47	Solution Properties of Graphite and Graphene. Journal of the American Chemical Society, 2006, 128, 7720-7721.	6.6	1,215
48	Coulomb-interacting Dirac fermions in disordered graphene. Physical Review B, 2006, 74, .	1.1	51
49	Weak ferromagnetism and spiral spin structures in honeycomb Hubbard planes. Journal of Physics Condensed Matter, 2006, 18, 1769-1779.	0.7	9
50	Quantum Hall Effect in Graphene. International Journal of Modern Physics B, 2007, 21, 1140-1144.	1.0	1
51	MAGNETO-SPECTROSCOPY OF EPITAXIAL GRAPHENE. International Journal of Modern Physics B, 2007, 21, 1145-1154.	1.0	13
52	GRAPHENE IN EXTREMELY HIGH MAGNETIC FIELDS. International Journal of Modern Physics B, 2007, 21, 1123-1130.	1.0	5
53	Large Area Nanocrystalline Graphite Films on SiC for Gas Sensing Applications. , 2007, , .		4
54	Injection and Population Inversion in Electrically Induced p-n Junction in Graphene with Split Gates. Japanese Journal of Applied Physics, 2007, 46, L151-L153.	0.8	104

#	ARTICLE	IF	CITATIONS
55	Transport in multiterminal graphene nanodevices. <i>Nanotechnology</i> , 2007, 18, 424033.	1.3	77
56	The role of defects on the electronic structure of a graphite surface. <i>Journal of Physics: Conference Series</i> , 2007, 61, 190-194.	0.3	15
57	Diamagnetism in disordered graphene. <i>Physical Review B</i> , 2007, 75, .	1.1	93
58	Splitting of the quantum Hall transition in disordered graphenes. <i>Physical Review B</i> , 2007, 75, .	1.1	43
59	Transport regimes in surface disordered graphene sheets. <i>Physical Review B</i> , 2007, 75, .	1.1	46
60	Fermi liquid theory of a Fermi ring. <i>Physical Review B</i> , 2007, 75, .	1.1	69
61	Magnetotransport and thermoelectricity in Landau-quantized disordered graphene. <i>Physical Review B</i> , 2007, 76, .	1.1	44
62	Electron waves in chemically substituted graphene. <i>Europhysics Letters</i> , 2007, 80, 67007.	0.7	71
63	Reentrant Kondo effect in Landau-quantized graphene: Influence of the chemical potential. <i>Physical Review B</i> , 2007, 76, .	1.1	23
64	Persistent mobility edges and anomalous quantum diffusion in order-disorder separated quantum films. <i>Physical Review B</i> , 2007, 75, .	1.1	21
65	Anderson localization of electron states in graphene in different types of disorder. <i>Physical Review B</i> , 2007, 76, .	1.1	66
66	Formation of graphene on Ru(0001) surface. <i>Chinese Physics B</i> , 2007, 16, 3151-3153.	1.3	135
67	Pionics: the Emerging Science and Technology of Graphene-based Nanoelectronics. , 2007, , .		20
68	Electrical properties of back-gated n -layer graphene films. , 2007, , .		0
69	Vibration-induced non-adiabatic geometric phase and energy uncertainty of fermions in graphene. <i>Europhysics Letters</i> , 2007, 80, 60008.	0.7	2
70	The quantum Hall effect in graphene samples and the relativistic Dirac effective action. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, F435-F442.	0.7	17
71	Quasiparticle Energies and Band Gaps in Graphene Nanoribbons. <i>Physical Review Letters</i> , 2007, 99, 186801.	2.9	1,092
72	Symmetry breaking in few layer graphene films. <i>New Journal of Physics</i> , 2007, 9, 385-385.	1.2	174

#	ARTICLE	IF	CITATIONS
73	Weak Antilocalization in Epitaxial Graphene: Evidence for Chiral Electrons. <i>Physical Review Letters</i> , 2007, 98, 136801.	2.9	316
74	Transport Measurements Across a Tunable Potential Barrier in Graphene. <i>Physical Review Letters</i> , 2007, 98, 236803.	2.9	592
75	A Chemical Route to Graphene for Device Applications. <i>Nano Letters</i> , 2007, 7, 3394-3398.	4.5	1,881
76	Magneto spectroscopy of epitaxial few-layer graphene. <i>Solid State Communications</i> , 2007, 143, 123-125.	0.9	72
77	Raman spectroscopy of graphene and graphite: Disorder, electron-phonon coupling, doping and nonadiabatic effects. <i>Solid State Communications</i> , 2007, 143, 47-57.	0.9	6,322
78	A novel graphene channel field effect transistor with Schottky tunneling source and drain. , 2007, , .		3
79	Ballistic thermal conductance of a graphene sheet. <i>Physical Review B</i> , 2007, 76, .	1.1	211
80	Electronic Structure of Epitaxial Graphene Layers on SiC: Effect of the Substrate. <i>Physical Review Letters</i> , 2007, 99, 126805.	2.9	678
81	Scanning tunneling spectroscopy of inhomogeneous electronic structure in monolayer and bilayer graphene on SiC. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	238
82	Graphite Nanoplatelet-Epoxy Composite Thermal Interface Materials. <i>Journal of Physical Chemistry C</i> , 2007, 111, 7565-7569.	1.5	941
83	Orthogonality catastrophe and Kondo effect in graphene. <i>Physical Review B</i> , 2007, 76, .	1.1	148
84	Elastic scattering theory and transport in graphene. <i>Physical Review B</i> , 2007, 76, .	1.1	226
85	Visibility of graphene flakes on a dielectric substrate. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	260
86	Conductance Modeling for Graphene Nanoribbon (GNR) Interconnects. <i>IEEE Electron Device Letters</i> , 2007, 28, 428-431.	2.2	229
87	Electron and Phonon Properties of Graphene: Their Relationship with Carbon Nanotubes. <i>Topics in Applied Physics</i> , 2007, , 673-709.	0.4	131
88	Field effect in epitaxial graphene on a silicon carbide substrate. <i>Applied Physics Letters</i> , 2007, 90, 253507.	1.5	132
89	Massless fermions in multilayer graphitic systems with misoriented layers: Ab initio calculations and experimental fingerprints. <i>Physical Review B</i> , 2007, 76, .	1.1	295
90	Spin transport through multilayer graphene. <i>Applied Physics Letters</i> , 2007, 90, 252505.	1.5	72

#	ARTICLE	IF	CITATIONS
91	Transverse Field Effect in Graphene Ribbons. <i>Physical Review Letters</i> , 2007, 99, 056802.	2.9	86
92	Numbers of donors and acceptors from transport measurements in graphene. <i>Applied Physics Letters</i> , 2007, 91, 102102.	1.5	127
93	Surface Transfer p-Type Doping of Epitaxial Graphene. <i>Journal of the American Chemical Society</i> , 2007, 129, 10418-10422.	6.6	554
94	Lithography-free fabrication of graphene devices. <i>Applied Physics Letters</i> , 2007, 90, 143518.	1.5	54
95	Inelastic carrier lifetime in graphene. <i>Physical Review B</i> , 2007, 76, .	1.1	122
96	Tuning the electronic structure of graphene nanoribbons through chemical edge modification: A theoretical study. <i>Physical Review B</i> , 2007, 75, .	1.1	156
97	Imaging the interface of epitaxial graphene with silicon carbide via scanning tunneling microscopy. <i>Physical Review B</i> , 2007, 76, .	1.1	180
98	Structural properties of the multilayer graphene/4H α -SiC(0001 \AA) system as determined by surface x-ray diffraction. <i>Physical Review B</i> , 2007, 75, .	1.1	163
99	Self-assembly on silicon carbide nanomesh templates. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 6287-6299.	1.3	24
100	Analytical study of electronic structure in armchair graphene nanoribbons. <i>Physical Review B</i> , 2007, 75, .	1.1	278
101	Electrostatic deposition of graphene. <i>Nanotechnology</i> , 2007, 18, 135301.	1.3	122
102	Transmission through a biased graphene bilayer barrier. <i>Physical Review B</i> , 2007, 76, .	1.1	125
103	Graphene Bilayer with a Twist: Electronic Structure. <i>Physical Review Letters</i> , 2007, 99, 256802.	2.9	1,165
104	Charge distribution and screening in layered graphene systems. <i>Physical Review B</i> , 2007, 75, .	1.1	145
105	Electronic structure of heavily doped graphene: The role of foreign atom states. <i>Physical Review B</i> , 2007, 76, .	1.1	57
106	Interlayer Interaction and Electronic Screening in Multilayer Graphene Investigated with Angle-Resolved Photoemission Spectroscopy. <i>Physical Review Letters</i> , 2007, 98, 206802.	2.9	678
107	Ab Initio Calculation of a Graphene-Ribbon-Based Molecular Switch. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14266-14273.	1.5	27
108	Electronic structure of bilayer graphene: A real-space Green's function study. <i>Physical Review B</i> , 2007, 75, .	1.1	35

#	ARTICLE	IF	CITATIONS
109	Excitonic Effects in the Optical Spectra of Graphene Nanoribbons. Nano Letters, 2007, 7, 3112-3115.	4.5	254
110	Rayleigh Imaging of Graphene and Graphene Layers. Nano Letters, 2007, 7, 2711-2717.	4.5	590
111	Altering low-bias transport in zigzag-edge graphene nanostrips with edge chemistry. Applied Physics Letters, 2007, 91, .	1.5	145
112	Hidden One-Electron Interactions in Carbon Nanotubes Revealed in Graphene Nanostrips. Nano Letters, 2007, 7, 825-830.	4.5	193
113	Plasma waves in two-dimensional electron-hole system in gated graphene heterostructures. Journal of Applied Physics, 2007, 101, 024509.	1.1	213
114	Negative dynamic conductivity of graphene with optical pumping. Journal of Applied Physics, 2007, 101, 083114.	1.1	331
115	Existence and topological stability of Fermi points in multilayered graphene. Physical Review B, 2007, 75, .	1.1	226
116	Novel Electric Field Effects on Landau Levels in Graphene. Physical Review Letters, 2007, 98, 116802.	2.9	268
117	Quantum Hall effect in graphene. Solid State Communications, 2007, 143, 14-19.	0.9	157
118	Spontaneous symmetry breaking and quantum Hall effect in graphene. Solid State Communications, 2007, 143, 27-32.	0.9	85
119	Electronic properties of stacks of graphene layers. Solid State Communications, 2007, 143, 116-122.	0.9	59
120	Epitaxial graphene. Solid State Communications, 2007, 143, 92-100.	0.9	857
121	Renormalization of graphene bands by many-body interactions. Solid State Communications, 2007, 143, 63-71.	0.9	67
122	Soluble graphene derived from graphite fluoride. Chemical Physics Letters, 2007, 445, 51-56.	1.2	223
123	Graphene layers from thermal oxidation of exfoliated graphite plates. Carbon, 2007, 45, 3022-3026.	5.4	59
124	Population inversion in electrically and optically pumped graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 40, 317-320.	1.3	4
125	Graphene: carbon in two dimensions. Materials Today, 2007, 10, 20-27.	8.3	1,393
126	Lattice vacancy effects on electron transport in multiterminal graphene nanodevices. International Journal of Quantum Chemistry, 2007, 107, 3071-3076.	1.0	5

#	ARTICLE	IF	CITATIONS
127	Magnetotransport in high mobility epitaxial graphene. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 1746-1750.	0.8	19
128	Electronic properties of graphene. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 4106-4111.	0.7	291
129	Superlattices consisting of lines of adsorbed hydrogen atom pairs on graphene. <i>JETP Letters</i> , 2007, 85, 77-81.	0.4	62
130	The rise of graphene. <i>Nature Materials</i> , 2007, 6, 183-191.	13.3	35,008
131	Substrate-induced bandgap opening in epitaxial graphene. <i>Nature Materials</i> , 2007, 6, 770-775.	13.3	2,115
132	Valley filter and valley valve in graphene. <i>Nature Physics</i> , 2007, 3, 172-175.	6.5	1,452
133	Magneto-optical conductivity in graphene. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 026222.	0.7	768
134	Scattering and Interference in Epitaxial Graphene. <i>Science</i> , 2007, 317, 219-222.	6.0	679
135	Magneto-electronic properties of the AA- and ABC-stacked graphites. <i>European Physical Journal B</i> , 2007, 60, 161-169.	0.6	13
136	Graphene: Emerging matter in two dimensions. <i>European Physical Journal: Special Topics</i> , 2007, 148, 1-4.	1.2	14
137	Band structure and many body effects in graphene. <i>European Physical Journal: Special Topics</i> , 2007, 148, 5-13.	1.2	32
138	QHE and far infra-red properties of bilayer graphene in a strong magnetic field. <i>European Physical Journal: Special Topics</i> , 2007, 148, 105-115.	1.2	4
139	Interaction effects in single layer and multi-layer graphene. <i>European Physical Journal: Special Topics</i> , 2007, 148, 117-125.	1.2	17
140	Models of Electron Transport in Single Layer Graphene. <i>Journal of Low Temperature Physics</i> , 2008, 153, 359-373.	0.6	55
141	Processing of nanographene platelets (NGPs) and NGP nanocomposites: a review. <i>Journal of Materials Science</i> , 2008, 43, 5092-5101.	1.7	436
142	Sawtooth-like graphene nanoribbon. <i>Nano Research</i> , 2008, 1, 40-45.	5.8	41
143	Controlled nanocutting of graphene. <i>Nano Research</i> , 2008, 1, 116-122.	5.8	472
144	Raman spectroscopy and imaging of graphene. <i>Nano Research</i> , 2008, 1, 273-291.	5.8	1,181

#	ARTICLE	IF	CITATIONS
145	Side-Gated Transport in Focused-Ion-Beam-Fabricated Multilayered Graphene Nanoribbons. <i>Small</i> , 2008, 4, 716-720.	5.2	38
146	Thermionic and tunneling transport mechanisms in graphene field-effect transistors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 1527-1533.	0.8	22
147	Thermal oxidation of few-layer graphite plates: an SPM study. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 1419-1423.	0.8	1
148	Nonequilibrium valley polarization in graphene nanoconstrictions. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 1281-1289.	0.8	26
149	Epitaxial graphene: a new material. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 1436-1446.	0.7	173
150	Molecular and electronic structure of PTCDA on bilayer graphene on SiC(0001) studied with scanning tunneling microscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2064-2067.	0.7	54
151	Fullerene Resist Materials for the 32-nm Node and Beyond. <i>Advanced Functional Materials</i> , 2008, 18, 1977-1982.	7.8	26
152	Organic Photovoltaic Devices Based on a Novel Acceptor Material: Graphene. <i>Advanced Materials</i> , 2008, 20, 3924-3930.	11.1	805
153	In-situ surface preparation of nominally on-axis 4H-SiC substrates. <i>Journal of Crystal Growth</i> , 2008, 310, 4430-4437.	0.7	40
154	Magnetic energy bands of a 2D graphite layer in the spatially modulated magnetic field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2022-2024.	1.3	0
155	Landau levels in graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1722-1725.	1.3	30
156	Departure from the conical dispersion in epitaxial graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2642-2647.	1.3	34
157	Landau levels in a simple hexagonal bilayer graphene. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 292-298.	0.9	1
158	Internal lattice relaxation of single-layer graphene under in-plane deformation. <i>Journal of the Mechanics and Physics of Solids</i> , 2008, 56, 1609-1623.	2.3	164
159	Modified π -states in ion-irradiated carbon. <i>Applied Surface Science</i> , 2008, 254, 2790-2796.	3.1	6
160	Multiscale coupling schemes spanning the quantum mechanical, atomistic forcefield, and continuum regimes. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008, 197, 3190-3202.	3.4	22
161	Chemically modified graphene sheets produced by the solvothermal reduction of colloidal dispersions of graphite oxide. <i>Carbon</i> , 2008, 46, 1994-1998.	5.4	1,073
162	Spatial modulation of the Dirac gap in epitaxial graphene. <i>Surface Science</i> , 2008, 602, L127-L130.	0.8	38

#	ARTICLE	IF	CITATIONS
163	Transport properties of AB-stacked bilayer graphene nanoribbons in an electric field. European Physical Journal B, 2008, 64, 73-80.	0.6	16
164	Interaction, growth, and ordering of epitaxial graphene on SiC{0001} surfaces: A comparative photoelectron spectroscopy study. Physical Review B, 2008, 77, .	1.1	836
165	Phonon dispersions and vibrational properties of monolayer, bilayer, and trilayer graphene: Density-functional perturbation theory. Physical Review B, 2008, 77, .	1.1	196
166	Synthesis of few-layer graphene via microwave plasma-enhanced chemical vapour deposition. Nanotechnology, 2008, 19, 305604.	1.3	459
167	Morphology and flexibility of graphene and few-layer graphene on various substrates. Applied Physics Letters, 2008, 93, .	1.5	130
168	High-Energy Limit of Massless Dirac Fermions in Multilayer Graphene using Magneto-Optical Transmission Spectroscopy. Physical Review Letters, 2008, 100, 087401.	2.9	111
169	Approaching the Dirac Point in High-Mobility Multilayer Epitaxial Graphene. Physical Review Letters, 2008, 101, 267601.	2.9	560
170	Effect of the Coulomb scattering on graphene conductivity. JETP Letters, 2008, 88, 322-325.	0.4	21
171	Approaching ballistic transport in suspended graphene. Nature Nanotechnology, 2008, 3, 491-495.	15.6	2,865
172	Highly conducting graphene sheets and Langmuir-Blodgett films. Nature Nanotechnology, 2008, 3, 538-542.	15.6	1,901
173	New solutions to a new problem. Nature Nanotechnology, 2008, 3, 528-529.	15.6	94
174	Monolayers with an IQ. Nature Nanotechnology, 2008, 3, 529-530.	15.6	16
175	Graphene 2.0. Nature Nanotechnology, 2008, 3, 517-517.	15.6	5
176	Large-area ultrathin films of reduced graphene oxide as a transparent and flexible electronic material. Nature Nanotechnology, 2008, 3, 270-274.	15.6	4,057
177	Epitaxial Graphene Transistors on SiC Substrates. IEEE Transactions on Electron Devices, 2008, 55, 2078-2085.	1.6	387
178	Performance Comparison of Graphene Nanoribbon FETs With Schottky Contacts and Doped Reservoirs. IEEE Transactions on Electron Devices, 2008, 55, 2314-2323.	1.6	138
179	Preparation and characterization of graphite nanosheets from detonation technique. Materials Letters, 2008, 62, 703-706.	1.3	129
180	Graphene-substrate interaction on $6H$ -SiC. A scanning tunneling microscopy study. Physical Review B, 2008, 78, .	1.1	96

#	ARTICLE	IF	CITATIONS
181	Periodically Rippled Graphene: Growth and Spatially Resolved Electronic Structure. Physical Review Letters, 2008, 100, 056807.	2.9	566
182	Möbius and twisted graphene nanoribbons: Stability, geometry, and electronic properties. Journal of Chemical Physics, 2008, 128, 164719.	1.2	54
183	Half-Metallicity in Undoped and Boron Doped Graphene Nanoribbons in the Presence of Semilocal Exchange-Correlation Interactions. Journal of Physical Chemistry B, 2008, 112, 1333-1335.	1.2	188
184	Atomic and electronic structure of few-layer graphene on SiC(0001) studied with scanning tunneling microscopy and spectroscopy. Physical Review B, 2008, 77, .	1.1	340
185	Raman and infrared properties and layer dependence of the phonon dispersions in multilayered graphene. Physical Review B, 2008, 77, .	1.1	73
186	Electronic and Magnetic Properties of Quasifreestanding Graphene on Ni. Physical Review Letters, 2008, 101, 157601.	2.9	596
187	Bulk Production of a New Form of sp^2 Carbon: Crystalline Graphene Nanoribbons. Nano Letters, 2008, 8, 2773-2778.	4.5	588
188	Mercury Vapor Release from Broken Compact Fluorescent Lamps and In Situ Capture by New Nanomaterial Sorbents. Environmental Science & Technology, 2008, 42, 5772-5778.	4.6	125
189	Large and flat graphene flakes produced by epoxy bonding and reverse exfoliation of highly oriented pyrolytic graphite. Nanotechnology, 2008, 19, 455601.	1.3	40
190	Depositing graphene films on solid and perforated substrates. Nanotechnology, 2008, 19, 365303.	1.3	21
191	Edge-functionalized and substitutionally doped graphene nanoribbons: Electronic and spin properties. Physical Review B, 2008, 77, .	1.1	503
192	New Method To Prepare Graphite Nanocomposites. Chemistry of Materials, 2008, 20, 2066-2068.	3.2	125
193	Facile Synthesis and Characterization of Graphene Nanosheets. Journal of Physical Chemistry C, 2008, 112, 8192-8195.	1.5	1,894
194	The growth and morphology of epitaxial multilayer graphene. Journal of Physics Condensed Matter, 2008, 20, 323202.	0.7	622
195	Universal conductance fluctuations in graphene. Physical Review B, 2008, 78, .	1.1	61
196	Current-voltage characteristics of a graphene-nanoribbon field-effect transistor. Journal of Applied Physics, 2008, 103, .	1.1	42
197	Density functional calculation of transition metal adatom adsorption on graphene. Journal of Physics Condensed Matter, 2008, 20, 115209.	0.7	210
198			

#	ARTICLE	IF	CITATIONS
199	Structural Coherency of Graphene on Ir(111). Nano Letters, 2008, 8, 565-570.	4.5	904
200	Electronic properties of bilayer and multilayer graphene. Physical Review B, 2008, 78, .	1.1	259
201	Quasi-transverse electromagnetic modes supported by a graphene parallel-plate waveguide. Journal of Applied Physics, 2008, 104, .	1.1	391
202	Physical models for electron transport in graphene nanoribbons and their junctions. , 2008, , .		0
203	Promises of Graphene Nanoelectronics. , 2008, , .		2
204	Device architectures based on graphene channels. , 2008, , .		0
205	Electronic structure of graphene and doping effect on SiO_2 . Physical Review B, 2008, 78, .	1.1	138
206	Structural, electronic and magnetic properties of manganese doping in the upper layer of bilayer graphene. Nanotechnology, 2008, 19, 205708.	1.3	55
207	Dirac Particles in Epitaxial Graphene Films Grown on SiC. Advances in Solid State Physics, 2008, , 145-157.	0.8	25
208	First-order ferromagnetic phase transition in the low electronic density regime of a biased graphene bilayer. Journal of Physics Condensed Matter, 2008, 20, 335207.	0.7	6
209	Epitaxial-Graphene/Graphene-Oxide Junction: An Essential Step towards Epitaxial Graphene Electronics. Physical Review Letters, 2008, 101, 026801.	2.9	288
210	The Assembly of Single-Layer Graphene Oxide and Graphene Using Molecular Templates. Nano Letters, 2008, 8, 3141-3145.	4.5	145
211	Raman spectra of misoriented bilayer graphene. Physical Review B, 2008, 78, .	1.1	188
212	Electrostatic interactions between graphene layers and their environment. Physical Review B, 2008, 77, .	1.1	125
213	Magnetotransport of Dirac fermions in graphene in the presence of spin-orbit interactions. Journal of Physics Condensed Matter, 2008, 20, 345228.	0.7	11
214	Raman spectroscopy of epitaxial graphene on a SiC substrate. Physical Review B, 2008, 77, .	1.1	477
215	Ripples in epitaxial graphene on the Si-terminated SiC(0001) surface. Physical Review B, 2008, 77, .	1.1	166
216	Selective epitaxial growth of graphene on SiC. Applied Physics Letters, 2008, 93, 123503.	1.5	43

#	ARTICLE	IF	CITATIONS
217	Electron Transport Modeling for Junctions of Zigzag and Armchair Graphene Nanoribbons (GNRs). IEEE Electron Device Letters, 2008, 29, 497-499.	2.2	24
218	<i>Ab initio</i> study of polarizability and induced charge densities in multilayer graphene films. Physical Review B, 2008, 77, .	1.1	55
219	Pit formation during graphene synthesis on SiC(0001): <i>In situ</i> electron microscopy. Physical Review B, 2008, 77, .	1.1	143
220	Tunable hybridization between electronic states of graphene and a metal surface. Physical Review B, 2008, 77, .	1.1	191
221	Chapter 7 Low-Energy Electronic Structure of Graphene and its Dirac Theory. Contemporary Concepts of Condensed Matter Science, 2008, 3, 171-197.	0.5	0
222	Device Model for Graphene Nanoribbon Phototransistor. Applied Physics Express, 0, 1, 063002.	1.1	76
223	Graphene Antidot Lattices: Designed Defects and Spin Qubits. Physical Review Letters, 2008, 100, 136804.	2.9	451
224	Raman Studies of Monolayer Graphene: The Substrate Effect. Journal of Physical Chemistry C, 2008, 112, 10637-10640.	1.5	663
225	Tight-binding description of the quasiparticle dispersion of graphite and few-layer graphene. Physical Review B, 2008, 78, .	1.1	243
226	Measurement of the optical absorption spectra of epitaxial graphene from terahertz to visible. Applied Physics Letters, 2008, 93, .	1.5	459
227	Dyadic Green's functions and guided surface waves for a surface conductivity model of graphene. Journal of Applied Physics, 2008, 103, .	1.1	2,310
228	Field emission from vertically aligned few-layer graphene. Journal of Applied Physics, 2008, 104, .	1.1	246
229	Role of Symmetry in the Transport Properties of Graphene Nanoribbons under Bias. Physical Review Letters, 2008, 100, 206802.	2.9	421
230	Reductive Alkylation of Fluorinated Graphite. Chemistry of Materials, 2008, 20, 3134-3136.	3.2	30
231	Chemically Derived, Ultrasoft Graphene Nanoribbon Semiconductors. Science, 2008, 319, 1229-1232.	6.0	4,504
232	Survival of the Dirac Points in Rippled Graphene. Physical Review Letters, 2008, 100, 256405.	2.9	17
233	Bottom-up Growth of Epitaxial Graphene on 6H-SiC(0001). ACS Nano, 2008, 2, 2513-2518.	7.3	232
234	Metal to Insulator Transition in Epitaxial Graphene Induced by Molecular Doping. Physical Review Letters, 2008, 101, 086402.	2.9	245

#	ARTICLE	IF	CITATIONS
235	Strong covalent bonding between two graphene layers. Physical Review B, 2008, 77, .	1.1	147
236	Dyadic Green's Functions for an Anisotropic, Non-Local Model of Biased Graphene. IEEE Transactions on Antennas and Propagation, 2008, 56, 747-757.	3.1	720
237	Universal Landauer conductance in chiral symmetric two-dimensional systems. Physical Review B, 2008, 77, .	1.1	1
238	n-Type Behavior of Graphene Supported on Si/SiO ₂ Substrates. ACS Nano, 2008, 2, 2037-2044.	7.3	241
239	Spectromicroscopy of single and multilayer graphene supported by a weakly interacting substrate. Physical Review B, 2008, 78, .	1.1	105
240	In-plane conductance measurement of graphene nanoislands using an integrated nanogap probe. Nanotechnology, 2008, 19, 495701.	1.3	22
241	Few-layer graphene on SiC, pyrolytic graphite, and graphene: A Raman scattering study. Applied Physics Letters, 2008, 92, .	1.5	276
242	Evidence of Structural Strain in Epitaxial Graphene Layers on 6H-SiC(0001). Physical Review Letters, 2008, 101, 156801.	2.9	274
243	Ultrafast Relaxation of Excited Dirac Fermions in Epitaxial Graphene Using Optical Differential Transmission Spectroscopy. Physical Review Letters, 2008, 101, 157402.	2.9	427
244	Greatly reduced radiation loss in planar waveguides with two-dimensional conducting interfaces. IET Optoelectronics, 2008, 2, 158-164.	1.8	1
245	Rotational disorder in few-layer graphene films on 6H-SiC . A scanning tunneling microscopy study. Physical Review B, 2008, 77, .	1.1	177
246	Structure of water adsorbed on a single graphene sheet. Physical Review B, 2008, 78, .	1.1	74
247	Electronic structure of triangular, hexagonal and round graphene flakes near the Fermi level. New Journal of Physics, 2008, 10, 103015.	1.2	79
248	Microscopic thickness determination of thin graphite films formed on 6H-SiC from quantized oscillation in reflectivity of low-energy electrons. Physical Review B, 2008, 77, .	1.1	330
249	Growth of graphene structure on 6H-SiC(0001): Molecular dynamics simulation. Journal of Applied Physics, 2008, 103, .	1.1	25
250	Low-frequency magneto-optical excitations of a graphene monolayer: Peierls tight-binding model and gradient approximation calculation. Physical Review B, 2008, 78, .	1.1	14
251	Tunneling Current-Voltage Characteristics of Graphene Field-Effect Transistor. Applied Physics Express, 2008, 1, 013001.	1.1	24
252	Nonequilibrium carriers in intrinsic graphene under interband photoexcitation. Physical Review B, 2008, 78, .	1.1	53

#	ARTICLE	IF	CITATIONS
253	Tight-binding description of patterned graphene. <i>Semiconductor Science and Technology</i> , 2008, 23, 075026.	1.0	11
254	Magnetic Edge-State Excitons in Zigzag Graphene Nanoribbons. <i>Physical Review Letters</i> , 2008, 101, 186401.	2.9	139
255	Direct Current Discharge Plasma Chemical Vapor Deposition of Nanocrystalline Graphite Films on Carbon Fibers. <i>Journal of Physical Chemistry C</i> , 2008, 112, 10735-10739.	1.5	8
256	Morphology of graphene thin film growth on SiC(0001). <i>New Journal of Physics</i> , 2008, 10, 023034.	1.2	156
257	TOWARDS BALLISTIC TRANSPORT IN GRAPHENE. <i>International Journal of Modern Physics B</i> , 2008, 22, 4579-4588.	1.0	25
258	Conductance growth in metallic bilayer graphene nanoribbons with disorder and contact scattering. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 485213.	0.7	14
259	Modulation effects on Landau levels in a monolayer graphene. <i>Nanotechnology</i> , 2008, 19, 035712.	1.3	20
260	Temperature dependent structural changes of graphene layers on 6H-SiC(0001) surfaces. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 225017.	0.7	25
261	Electron transport from a one-dimensional lead to a two-dimensional graphene sheet through a single site. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 055207.	0.7	7
262	Violation of the single-parameter scaling hypothesis in disordered graphene nanoribbons. <i>Physical Review B</i> , 2008, 78, .	1.1	12
263	Interface structure of epitaxial graphene grown on 4H-SiC(0001). <i>Physical Review B</i> , 2008, 78, .	1.1	94
264	Electron-electron interactions on the edge states of graphene: A many-body configuration interaction study. <i>Physical Review B</i> , 2008, 77, .	1.1	99
265	Chiral decomposition in the electronic structure of graphene multilayers. <i>Physical Review B</i> , 2008, 77, .	1.1	212
266	Berry phase in graphene: Semiclassical perspective. <i>Physical Review B</i> , 2008, 77, .	1.1	61
267	Graphene-like nano-Sheets/36Å° LiTaO ₃ surface acoustic wave hydrogen gas sensor. , 2008, , .		5
268	Edge state magnetism of single layer graphene nanostructures. <i>Journal of Chemical Physics</i> , 2008, 128, 244717.	1.2	96
269	Atomic-scale investigation of graphene formation on 6H-SiC(0001). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2008, 26, 932-937.	0.9	34
270	Molecular dynamics study of ripples in graphene nanoribbons on 6H-SiC(0001): Temperature and size effects. <i>Journal of Applied Physics</i> , 2008, 104, 113536.	1.1	33

#	ARTICLE	IF	CITATIONS
271	Characterization of nanometer-sized, mechanically exfoliated graphene on the H-passivated Si(100) surface using scanning tunneling microscopy. <i>Nanotechnology</i> , 2008, 19, 015704.	1.3	56
272	Probing epitaxial growth of graphene on silicon carbide by metal decoration. <i>Applied Physics Letters</i> , 2008, 92, 104102.	1.5	60
273	Edge-dependent selection rules in magic triangular graphene flakes. <i>Physical Review B</i> , 2008, 77, .	1.1	95
274	Evolution in surface morphology of epitaxial graphene layers on SiC induced by controlled structural strain. <i>Applied Physics Letters</i> , 2008, 93, 191916.	1.5	20
275	Kohn anomaly and interplay of electron-electron and electron-phonon interactions in epitaxial graphene. <i>Physical Review B</i> , 2008, 78, .	1.1	65
276	Electronic structure of a two-dimensional graphene monolayer in a spatially modulated magnetic field: Peierls tight-binding model. <i>Physical Review B</i> , 2008, 77, .	1.1	25
277	Broken-Symmetry States of Dirac Fermions in Graphene with a Partially Filled High Landau Level. <i>Physical Review Letters</i> , 2008, 100, 116802.	2.9	17
278	Quenching of the Quantum Hall Effect in Multilayered Epitaxial Graphene: The Role of Undoped Planes. <i>Physical Review Letters</i> , 2008, 101, 116806.	2.9	12
279	Structural and electronic properties of bilayer epitaxial graphene. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2008, 26, 938-943.	0.9	28
280	Topology and electron scattering properties of the electronic interfaces in epitaxial graphene probed by resonant tunneling spectroscopy. <i>Physical Review B</i> , 2008, 78, .	1.1	20
281	Dirac Fermions at the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle H \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Point of Graphite: Magnetotransmission Studies. <i>Physical Review Letters</i> , 2008, 100, 136403.	2.9	73
282	Magneto-electronic properties of bilayer Bernal graphene. <i>Physical Review B</i> , 2008, 77, .	1.1	88
283	Nonequilibrium Effective Vector Potential due to Pseudospin Exchange in Graphene. <i>Physical Review Letters</i> , 2008, 101, 226809.	2.9	1
284	Experimental and theoretical study of the morphology of commensurate and incommensurate graphene layers on Ni single-crystal surfaces. <i>Physical Review B</i> , 2008, 78, .	1.1	76
285	Self-Standing Graphene Sheets Prepared with Chemical Vapor Deposition and Chemical Etching. <i>E-Journal of Surface Science and Nanotechnology</i> , 2009, 7, 837-840.	0.1	10
286	Graphene on the C-terminated SiC $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle (\langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 000 \langle \text{mml:mn} \rangle \langle \text{mml:mover} \rangle T_j \text{ ETQq1 1 0 0 78}$ Anisotropic $\langle \text{mml:math} \rangle$ study. <i>Physical Review B</i> , 2009, 79, .	1.1	55
287	Model of impurity segregation in graphene nanoribbons. <i>Physical Review B</i> , 2009, 80, .	1.1	14
288	Atomic and electronic structure of monolayer graphene on $6H\text{-SiC}(0001\text{\AA}) (3\text{\AA}-3)$: A scanning tunneling microscopy study. <i>Physical Review B</i> , 2009, 80, .	1.1	30

#	ARTICLE	IF	CITATIONS
289	Edge states in graphene quantum dots: Fractional quantum Hall effect analogies and differences at zero magnetic field. Physical Review B, 2009, 79, .	1.1	24
290	Gate-controlled nonvolatile graphene-ferroelectric memory. Applied Physics Letters, 2009, 94, .	1.5	234
291	Large-scale graphene production by RF-cCVD method. Chemical Communications, 2009, , 4061.	2.2	111
292	Graphene formation mechanisms on 4H-SiC substrate. Physical Review B, 2009, 80, .	1.1	121
293	Edge versus interior in the chemical bonding of graphene materials. Physical Review B, 2009, 79, .	1.1	11
294	Pseudospin entanglement and Bell test in graphene. Physical Review B, 2009, 79, .	1.1	5
295	Three-fold diffraction symmetry in epitaxial graphene and the SiC substrate. Physical Review B, 2009, 80, .	1.1	15
296	Magnetotransport through graphene spin valves. Physical Review B, 2009, 79, .	1.1	26
297	Growth mechanism for epitaxial graphene on vicinal 6H-SiC . A scanning tunneling microscopy study. Physical Review B, 2009, 80, .	1.1	121
298	Low-energy Landau levels of Bernal zigzag graphene ribbons. Journal of Applied Physics, 2009, 106, .	1.1	2
299	Transmission electron microscopy and scanning tunneling microscopy investigations of graphene on $4\text{H-SiC}(0001)$. Journal of Applied Physics, 2009, 105, .	1.1	57
300	Hall effect mobility of epitaxial graphene grown on silicon carbide. Applied Physics Letters, 2009, 95, .	1.5	175
301	Low-temperature ballistic transport in nanoscale epitaxial graphene cross junctions. Applied Physics Letters, 2009, 95, .	1.5	27
302	Half integer quantum Hall effect in high mobility single layer epitaxial graphene. Applied Physics Letters, 2009, 95, .	1.5	140
303	Electronic transport in monolayer graphene nanoribbons produced by chemical unzipping of carbon nanotubes. Applied Physics Letters, 2009, 95, .	1.5	74
304	Local conductance measurements of double-layer graphene on SiC substrate. Nanotechnology, 2009, 20, 445704.	1.3	38
305	Dielectric thickness dependence of capacitive behavior in graphene deposited on silicon dioxide. Journal of Vacuum Science & Technology B, 2009, 27, 868-873.	1.3	35
306	Templated growth of graphenic materials. Nanotechnology, 2009, 20, 245607.	1.3	15

#	ARTICLE	IF	CITATIONS
307	Modern Nanotemplates Based on Graphene and Single Layer h-BN. Zeitschrift Fur Physikalische Chemie, 2009, 223, 157-168.	1.4	18
308	The computational design of junctions by carbon nanotube insertion into a graphene matrix. New Journal of Physics, 2009, 11, 093002.	1.2	24
309	Direct e-beam writing of 1â€µm thin carbon nanoribbons. Journal of Vacuum Science & Technology B, 2009, 27, 3059.	1.3	19
310	Toward adaptive control of coherent electron transport in semiconductors. Journal of Chemical Physics, 2009, 130, 214702.	1.2	4
311	The effect of spin mixing on the quantum Hall effect in graphene. Journal of Physics Condensed Matter, 2009, 21, 405501.	0.7	0
312	On spectral properties of bilayer graphene: the effect of an SiC substrate and infrared magneto-spectroscopy. Journal of Physics Condensed Matter, 2009, 21, 344206.	0.7	24
313	Compact Physics-Based Circuit Models for Graphene Nanoribbon Interconnects. IEEE Transactions on Electron Devices, 2009, 56, 1822-1833.	1.6	222
314	Preparation, Structure, and Electrochemical Properties of Reduced Graphene Sheet Films. Advanced Functional Materials, 2009, 19, 2782-2789.	7.8	1,132
315	Highly Ordered, Millimeterâ€µScale, Continuous, Singleâ€µCrystalline Graphene Monolayer Formed on Ru (0001). Advanced Materials, 2009, 21, 2777-2780.	11.1	389
316	Soft Transfer Printing of Chemically Converted Graphene. Advanced Materials, 2009, 21, 2098-2102.	11.1	177
317	Oneâ€µStep Exfoliation Synthesis of Easily Soluble Graphite and Transparent Conducting Graphene Sheets. Advanced Materials, 2009, 21, 4383-4387.	11.1	209
318	Soluble Graphene: Generation of Aqueous Graphene Solutions Aided by a Perylenebisimideâ€µBased Bolaamphiphile. Advanced Materials, 2009, 21, 4265-4269.	11.1	196
319	Chemical Vapor Deposition Repair of Graphene Oxide: A Route to Highlyâ€µConductive Graphene Monolayers. Advanced Materials, 2009, 21, 4683-4686.	11.1	223
321	Subliming the Unsublimable: How to Deposit Nanographenes. Angewandte Chemie - International Edition, 2009, 48, 4602-4604.	7.2	33
322	Physics of Silicene Stripes. Journal of Superconductivity and Novel Magnetism, 2009, 22, 259-263.	0.8	142
323	Chemically decorated boron-nitride nanoribbons. Frontiers of Physics in China, 2009, 4, 367-372.	1.0	59
324	Towards graphene nanoribbon-based electronics. Frontiers of Physics in China, 2009, 4, 269-279.	1.0	43
325	Thickness Estimation of Epitaxial Graphene on SiC Using Attenuation of Substrate Raman Intensity. Journal of Electronic Materials, 2009, 38, 725-730.	1.0	119

#	ARTICLE	IF	CITATIONS
326	Growth of large-area single- and Bi-layer graphene by controlled carbon precipitation on polycrystalline Ni surfaces. <i>Nano Research</i> , 2009, 2, 509-516.	5.8	453
327	Electrochemistry of graphene: new horizons for sensing and energy storage. <i>Chemical Record</i> , 2009, 9, 211-223.	2.9	578
328	Ultralong Natural Graphene Nanoribbons and Their Electrical Conductivity. <i>Small</i> , 2009, 5, 924-927.	5.2	33
329	Room-temperature molecular-resolution characterization of self-assembled organic monolayers on epitaxial graphene. <i>Nature Chemistry</i> , 2009, 1, 206-211.	6.6	409
330	Graphene goes undercover. <i>Nature Chemistry</i> , 2009, 1, 175-176.	6.6	47
331	Towards wafer-size graphene layers by atmospheric pressure graphitization of silicon carbide. <i>Nature Materials</i> , 2009, 8, 203-207.	13.3	2,396
332	How silicon leaves the scene. <i>Nature Materials</i> , 2009, 8, 171-172.	13.3	330
333	High-throughput solution processing of large-scale graphene. <i>Nature Nanotechnology</i> , 2009, 4, 25-29.	15.6	1,941
334	Electronic properties of zero-dimensional finite-sized nanographene. <i>Physica B: Condensed Matter</i> , 2009, 404, 305-309.	1.3	4
335	Very high temperature chemical vapor deposition of new carbon thin films using organic semiconductor molecular beam sources. <i>Thin Solid Films</i> , 2009, 518, 778-780.	0.8	4
336	Graphene made easy: High quality, large-area samples. <i>Solid State Communications</i> , 2009, 149, 718-721.	0.9	94
337	Scanning Tunneling Microscopy investigation of the graphene/6H-SiC(000) ($3\text{\AA}-3$) interface. <i>Solid State Communications</i> , 2009, 149, 1157-1160.	0.9	5
338	Magneto-transmission of multi-layer epitaxial graphene and bulk graphite: A comparison. <i>Solid State Communications</i> , 2009, 149, 1128-1131.	0.9	11
339	Scanning tunneling microscopy and spectroscopy of graphene layers on graphite. <i>Solid State Communications</i> , 2009, 149, 1151-1156.	0.9	56
340	The enigma of the quantum Hall effect in graphene. <i>Solid State Communications</i> , 2009, 149, 1502-1506.	0.9	28
341	Graphene on metal surfaces. <i>Surface Science</i> , 2009, 603, 1841-1852.	0.8	938
342	Substrate orientation: A way towards higher quality monolayer graphene growth on 6H-SiC(0 0 0 1). <i>Surface Science</i> , 2009, 603, L87-L90.	0.8	65
343	The electronic properties of graphene and its bilayer. <i>Vacuum</i> , 2009, 83, 1248-1252.	1.6	99

#	ARTICLE	IF	CITATIONS
344	Phonon thermal conductance of disordered graphene strips with armchair edges. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 563-569.	0.9	13
345	Raman spectroscopy in graphene. Physics Reports, 2009, 473, 51-87.	10.3	4,853
346	Surface transfer doping of semiconductors. Progress in Surface Science, 2009, 84, 279-321.	3.8	282
347	Experimental studies of the electronic structure of graphene. Progress in Surface Science, 2009, 84, 380-413.	3.8	75
348	Graphene-like nano-sheets for surface acoustic wave gas sensor applications. Chemical Physics Letters, 2009, 467, 344-347.	1.2	354
349	Effects of total CH ₄ /Ar gas pressure on the structures and field electron emission properties of carbon nanomaterials grown by plasma-enhanced chemical vapor deposition. Applied Surface Science, 2009, 256, 1542-1547.	3.1	11
350	Controlling work function of reduced graphite oxide with Au-ion concentration. Chemical Physics Letters, 2009, 475, 91-95.	1.2	104
351	Transport properties of hot-pressed bulk carbon nanotubes compacted by spark plasma sintering. Carbon, 2009, 47, 1135-1140.	5.4	28
352	G band Raman spectra of single, double and triple layer graphene. Carbon, 2009, 47, 1303-1310.	5.4	96
353	Preparation of graphene sheets by the reduction of carbon monoxide. Carbon, 2009, 47, 1610-1612.	5.4	96
354	Chemical approach to the realization of electronic devices in epitaxial graphene. Physica Status Solidi - Rapid Research Letters, 2009, 3, 184-186.	1.2	39
355	Probing disorder and charged impurities in graphene by Raman spectroscopy. Physica Status Solidi - Rapid Research Letters, 2009, 3, 175-177.	1.2	102
356	How the SiC substrate impacts graphene's atomic and electronic structure. Physica Status Solidi - Rapid Research Letters, 2009, 3, 172-174.	1.2	7
357	Epitaxial graphene: the material for graphene electronics. Physica Status Solidi - Rapid Research Letters, 2009, 3, A91.	1.2	45
358	Disorder and localization of electrons in bilayer graphene. European Physical Journal B, 2009, 67, 63-69.	0.6	5
359	Symmetry of standing waves generated by a point defect in epitaxial graphene. European Physical Journal B, 2009, 69, 351-355.	0.6	47
360	Electron transport in nanotube-ribbon hybrids. European Physical Journal B, 2009, 70, 497-505.	0.6	4
361	Electronic shell and supershell structure in graphene flakes. European Physical Journal D, 2009, 52, 143-146.	0.6	14

#	ARTICLE	IF	CITATIONS
362	The electronic properties of graphene. <i>Reviews of Modern Physics</i> , 2009, 81, 109-162.	16.4	20,779
363	Plasmonics in graphene at infrared frequencies. <i>Physical Review B</i> , 2009, 80, .	1.1	1,819
364	Chemical Modification of Epitaxial Graphene: Spontaneous Grafting of Aryl Groups. <i>Journal of the American Chemical Society</i> , 2009, 131, 1336-1337.	6.6	782
365	Slowing hot-carrier relaxation in graphene using a magnetic field. <i>Physical Review B</i> , 2009, 80, .	1.1	94
366	A Green Approach to the Synthesis of Graphene Nanosheets. <i>ACS Nano</i> , 2009, 3, 2653-2659.	7.3	2,115
367	Graphene magnetoresistance in a parallel magnetic field: Spin polarization effect. <i>Physical Review B</i> , 2009, 80, .	1.1	32
368	Development of a model of silicon carbide thermodestruction for preparation of graphite layers. <i>Physics of the Solid State</i> , 2009, 51, 481-484.	0.2	8
369	Terahertz Laser with Optically Pumped Graphene Layers and Fabry-Pérot Resonator. <i>Applied Physics Express</i> , 2009, 2, 092301.	1.1	77
370	Current Status of Graphene Transistors. <i>Solid State Phenomena</i> , 0, 156-158, 499-509.	0.3	51
371	Quantum chaos in weakly disordered graphene. <i>Physical Review B</i> , 2009, 79, .	1.1	24
372	Anderson transition in disordered graphene. <i>Europhysics Letters</i> , 2009, 87, 37002.	0.7	31
373	Conductance Enhancement in Nanographene-Gold Junctions by Molecular π -Stacking. <i>Journal of the American Chemical Society</i> , 2009, 131, 14857-14867.	6.6	25
374	Anisotropic growth of long isolated graphene ribbons on the C face of graphite-capped 6H-SiC . <i>Physical Review B</i> , 2009, 80, .	1.1	88
375	Growth of graphene on Ir(111). <i>New Journal of Physics</i> , 2009, 11, 023006.	1.2	249
376	First Direct Observation of a Nearly Ideal Graphene Band Structure. <i>Physical Review Letters</i> , 2009, 103, 226803.	2.9	399
377	Comparison of Epitaxial Graphene on Si-face and C-face 4H SiC Formed by Ultrahigh Vacuum and RF Furnace Production. <i>Nano Letters</i> , 2009, 9, 2605-2609.	4.5	140
378	Effect of Stacking Order on the Electric-Field Induced Carrier Modulation in Graphene Bilayers. <i>Nano Letters</i> , 2009, 9, 3124-3128.	4.5	25
379	He on a Single Graphene Sheet. <i>Physical Review Letters</i> , 2009, 102, 085303.	2.9	77

#	ARTICLE	IF	CITATIONS
380	Graphene nanoelectronics. , 2009, , .		2
381	Ultrafast carrier kinetics in exfoliated graphene and thin graphite films. Optics Express, 2009, 17, 2326.	1.7	174
382	Mechanochemical Exfoliation of Graphite and Its Polyvinyl Alcohol Nanocomposites with Enhanced Barrier Properties. Materials and Manufacturing Processes, 2009, 24, 1053-1057.	2.7	38
383	Electrostatic deposition of graphene in a gaseous environment: a deterministic route for synthesizing rolled graphenes?. Nanotechnology, 2009, 20, 055611.	1.3	38
384	Second harmonic generation from graphene and graphitic films. Applied Physics Letters, 2009, 95, .	1.5	154
385	Transfer of graphene layers grown on SiC wafers to other substrates and their integration into field effect transistors. Applied Physics Letters, 2009, 95, .	1.5	71
386	Electrical Conduction Mechanism in Chemically Derived Graphene Monolayers. Nano Letters, 2009, 9, 1787-1792.	4.5	328
387	Graphene bilayer field-effect phototransistor for terahertz and infrared detection. Physical Review B, 2009, 79, .	1.1	86
388	Ultraviolet Raman microscopy of single and multilayer graphene. Journal of Applied Physics, 2009, 106, .	1.1	218
389	Optical response and excitons in gapped graphene. Physical Review B, 2009, 79, .	1.1	72
390	Defects in Graphene-Based Twisted Nanoribbons: Structural, Electronic, and Optical Properties. Langmuir, 2009, 25, 4751-4759.	1.6	26
391	Intrinsic Half-Metallicity in Modified Graphene Nanoribbons. Physical Review Letters, 2009, 102, 096601.	2.9	398
392	Preparation of graphene dispersions and graphene-polymer composites in organic media. Journal of Materials Chemistry, 2009, 19, 3591.	6.7	293
393	Microwave synthesis of graphene sheets supporting metal nanocrystals in aqueous and organic media. Journal of Materials Chemistry, 2009, 19, 3832.	6.7	511
394	Bandgap Engineering of Bilayer Graphene for Field-Effect Transistor Channels. Japanese Journal of Applied Physics, 2009, 48, 091605.	0.8	20
395	Diluted chirality dependence in edge rough graphene nanoribbon field-effect transistors. Applied Physics Letters, 2009, 94, 223112.	1.5	32
396	Performance Prediction of Graphene-Channel Field-Effect Transistors. Japanese Journal of Applied Physics, 2009, 48, 011604.	0.8	9
397	Density functional theory study of graphite oxide for different oxidation levels. Physical Review B, 2009, 79, .	1.1	224

#	ARTICLE	IF	CITATIONS
398	Large Area, Few-Layer Graphene Films on Arbitrary Substrates by Chemical Vapor Deposition. Nano Letters, 2009, 9, 30-35.	4.5	5,220
399	Mild sonochemical exfoliation of bromine-intercalated graphite: a new route towards graphene. Journal Physics D: Applied Physics, 2009, 42, 112003.	1.3	64
400	Patterning Graphene at the Nanometer Scale via Hydrogen Desorption. Nano Letters, 2009, 9, 4343-4347.	4.5	171
401	Adsorption of ammonia on graphene. Nanotechnology, 2009, 20, 245501.	1.3	180
402	Semimetallic graphene in a modulated electric potential. Physical Review B, 2009, 79, .	1.1	49
403	Exposure of Epitaxial Graphene on SiC(0001) to Atomic Hydrogen. Nano Letters, 2009, 9, 1462-1466.	4.5	144
404	$\text{Au}_{1/n}^m$ adsorbed on graphene studied by first-principles calculations. Physical Review B, 2009, 80, .	1.1	67
405	Time-Domain Ab Initio Study of Nonradiative Decay in a Narrow Graphene Ribbon. Journal of Physical Chemistry C, 2009, 113, 14067-14070.	1.5	32
406	Stacking domains of epitaxial few-layer graphene on SiC(0001). Physical Review B, 2009, 80, .	1.1	84
407	NONLINEAR MECHANICS OF SINGLE-ATOMIC-LAYER GRAPHENE SHEETS. International Journal of Applied Mechanics, 2009, 01, 443-467.	1.3	222
408	Surface intercalation of gold underneath a graphene monolayer on SiC(0001) studied by scanning tunneling microscopy and spectroscopy. Applied Physics Letters, 2009, 94, .	1.5	107
409	The electronic properties of graphene and carbon nanotubes. NPG Asia Materials, 2009, 1, 17-21.	3.8	212
410	Structural and Electronic Properties of PTCDA Thin Films on Epitaxial Graphene. ACS Nano, 2009, 3, 3431-3436.	7.3	167
411	Feasibility of terahertz lasing in optically pumped epitaxial multiple graphene layer structures. Journal of Applied Physics, 2009, 106, .	1.1	125
412	Graphite based Schottky diodes formed on Si, GaAs, and 4H-SiC substrates. Applied Physics Letters, 2009, 95, .	1.5	140
413	Electron-phonon interactions for optical-phonon modes in few-layer graphene: First-principles calculations. Physical Review B, 2009, 79, .	1.1	44
414	Observing the Quantization of Zero Mass Carriers in Graphene. Science, 2009, 324, 924-927.	6.0	431
415	Graphene Tunneling Transit-Time Terahertz Oscillator Based on Electrically Induced π - π^* Junction. Applied Physics Express, 0, 2, 034503.	1.1	45

#	ARTICLE	IF	CITATIONS
416	Chemically induced folding of single and bilayer graphene. Chemical Communications, 2009, , 6285.	2.2	27
417	Graphene Nanoribbon Phototransistor: Proposal and Analysis. Japanese Journal of Applied Physics, 2009, 48, 04C144.	0.8	34
418	Graphitization at interface between amorphous carbon and liquid gallium for fabricating large area graphene sheets. Journal of Vacuum Science & Technology B, 2009, 27, 3063-3066.	1.3	49
419	Photocatalytic Reduction of Graphene Oxide Nanosheets on TiO ₂ Thin Film for Photoinactivation of Bacteria in Solar Light Irradiation. Journal of Physical Chemistry C, 2009, 113, 20214-20220.	1.5	887
420	Graphene sheets from worm-like exfoliated graphite. Journal of Materials Chemistry, 2009, 19, 3367.	6.7	189
421	Tuning of graphene nanoribbon Landau levels by a nanotube. Journal of Physics Condensed Matter, 2009, 21, 435302.	0.7	0
422	In situ synthesis of graphene oxide and its composites with iron oxide. New Carbon Materials, 2009, 24, 147-152.	2.9	124
423	Device model for graphene bilayer field-effect transistor. Journal of Applied Physics, 2009, 105, 104510.	1.1	40
424	Tuning the Electron-Phonon Coupling in Multilayer Graphene with Magnetic Fields. Physical Review Letters, 2009, 103, 186803.	2.9	85
425	Landau level spectrum of bilayer Bernal graphene. Diamond and Related Materials, 2009, 18, 374-379.	1.8	2
426	The rise of graphene. , 2009, , 11-19.		530
427	Geodesic carbon nanodomes. Physics Magazine, 2009, 2, .	0.1	1
428	Observation of diode-like characteristics in planar-type structures of graphite flakes. Journal of Physics: Conference Series, 2009, 150, 022039.	0.3	2
429	Epitaxial graphene: dry transfer and materials characterization. Proceedings of SPIE, 2010, , .	0.8	0
430	Nobel physics prize honors achievements in graphene. Physics Today, 2010, 63, 14-17.	0.3	7
431	Electronic properties of epitaxial graphene. International Journal of Nanotechnology, 2010, 7, 383.	0.1	12
432	Formation of integrated nanosized graphene structures by focused ion-beam etching. Nanotechnologies in Russia, 2010, 5, 313-319.	0.7	1
433	Edge states of epitaxially grown graphene on 4H-SiC(0001) studied by scanning tunneling microscopy. European Physical Journal B, 2010, 75, 31-35.	0.6	15

#	ARTICLE	IF	CITATIONS
434	Ripples of AA and AB stacking bilayer graphenes. <i>European Physical Journal B</i> , 2010, 78, 103-109.	0.6	8
435	Conductance of bilayer graphene nanoribbons with different widths. <i>Philosophical Magazine</i> , 2010, 90, 3177-3187.	0.7	2
436	Properties of graphene: a theoretical perspective. <i>Advances in Physics</i> , 2010, 59, 261-482.	35.9	970
437	Graphene: Materially Better Carbon. <i>MRS Bulletin</i> , 2010, 35, 289-295.	1.7	191
438	Toward Ubiquitous Environmental Gas Sensors—Capitalizing on the Promise of Graphene. <i>Environmental Science & Technology</i> , 2010, 44, 1167-1176.	4.6	266
439	Graphene: Electronic and Photonic Properties and Devices. <i>Nano Letters</i> , 2010, 10, 4285-4294.	4.5	1,312
440	Spatially Resolved Spontaneous Reactivity of Diazonium Salt on Edge and Basal Plane of Graphene without Surfactant and Its Doping Effect. <i>Langmuir</i> , 2010, 26, 12278-12284.	1.6	92
441	Synthesis of Graphene and Its Applications: A Review. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2010, 35, 52-71.	6.8	1,443
442	Graphene Oxide-Facilitated Electron Transfer of Metalloproteins at Electrode Surfaces. <i>Langmuir</i> , 2010, 26, 1936-1939.	1.6	215
443	Interface Landau levels in graphene monolayer-bilayer junctions. <i>Physical Review B</i> , 2010, 82, .	1.1	38
444	Carbon Nanotube Thin Films: Fabrication, Properties, and Applications. <i>Chemical Reviews</i> , 2010, 110, 5790-5844.	23.0	889
445	Graphene-based nanomaterials and their electrochemistry. <i>Chemical Society Reviews</i> , 2010, 39, 4146.	18.7	1,008
446	Novel properties of graphene nanoribbons: a review. <i>Journal of Materials Chemistry</i> , 2010, 20, 8207.	6.7	369
447	Direct determination of the crystallographic orientation of graphene edges by atomic resolution imaging. <i>Applied Physics Letters</i> , 2010, 97, 053110.	1.5	70
448	Reduced Graphene Oxide and Porphyrin. An Interactive Affair in 2-D. <i>ACS Nano</i> , 2010, 4, 6697-6706.	7.3	196
449	Spectroscopic Measurement of Interlayer Screening in Multilayer Epitaxial Graphene. <i>Physical Review Letters</i> , 2010, 104, 136802.	2.9	100
450	Anchoring Semiconductor and Metal Nanoparticles on a Two-Dimensional Catalyst Mat. Storing and Shuttling Electrons with Reduced Graphene Oxide. <i>Nano Letters</i> , 2010, 10, 577-583.	4.5	996
451	Localization of Dirac Electrons in Rotated Graphene Bilayers. <i>Nano Letters</i> , 2010, 10, 804-808.	4.5	616

#	ARTICLE	IF	CITATIONS
452	Strong phonon-plasmon coupled modes in the graphene/silicon carbide heterosystem. Physical Review B, 2010, 82, .	1.1	103
453	pH-Sensitive Highly Dispersed Reduced Graphene Oxide Solution Using Lysozyme via an in Situ Reduction Method. Journal of Physical Chemistry C, 2010, 114, 22085-22091.	1.5	86
454	Disorder and electronic transport in graphene. Journal of Physics Condensed Matter, 2010, 22, 273201.	0.7	143
455	Electron localizability and polarizability in tight-binding graphene nanostructures. Theoretical Chemistry Accounts, 2010, 126, 257-263.	0.5	19
456	Structural and electronic properties of the fully hydrogenated boron nitride sheets and nanoribbons: Insight from first-principles calculations. Chemical Physics Letters, 2010, 488, 67-72.	1.2	60
457	Infrared absorption spectra of few-layer graphenes studied by first principles calculations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 796-800.	0.9	3
458	Two-terminal quantized conductance in inhomogeneous graphene. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 3332-3334.	0.9	3
459	Properties, synthesis, and characterization of graphene. Frontiers of Materials Science in China, 2010, 4, 45-51.	0.5	57
460	Probing mechanical properties of graphene with Raman spectroscopy. Journal of Materials Science, 2010, 45, 5135-5149.	1.7	208
461	Electron Transport in Graphene From a Diffusion-Drift Perspective. IEEE Transactions on Electron Devices, 2010, 57, 681-689.	1.6	60
462	Graphene for CMOS and Beyond CMOS Applications. Proceedings of the IEEE, 2010, 98, 2032-2046.	16.4	73
463	Preparation and characterization of nylon 6/graphite composite. Materials Chemistry and Physics, 2010, 120, 167-171.	2.0	35
464	Kinetics of atomic ordering in metal-doped graphene. Solid State Sciences, 2010, 12, 204-209.	1.5	27
465	Good electrical and mechanical properties induced by the multilayer graphene oxide sheets incorporated to amorphous carbon films. Solid State Sciences, 2010, 12, 1183-1187.	1.5	20
466	Thinnest Twoâ€Dimensional Nanomaterialâ€Graphene for Solar Energy. ChemSusChem, 2010, 3, 782-796.	3.6	205
467	A Waveguideâ€Like Effect Observed in Multiwalled Carbon Nanotube Bundles. Advanced Functional Materials, 2010, 20, 2263-2268.	7.8	5
468	FeCl ₃ -Based Fewâ€Layer Graphene Intercalation Compounds: Single Linear Dispersion Electronic Band Structure and Strong Charge Transfer Doping. Advanced Functional Materials, 2010, 20, 3504-3509.	7.8	154
469	Graphene Solutionâ€Gated Fieldâ€Effect Transistor Array for Sensing Applications. Advanced Functional Materials, 2010, 20, 3117-3124.	7.8	137

#	ARTICLE	IF	CITATIONS
470	Versatile Carbon Hybrid Films Composed of Vertical Carbon Nanotubes Grown on Mechanically Compliant Graphene Films. <i>Advanced Materials</i> , 2010, 22, 1247-1252.	11.1	307
471	Freestanding Graphene by Thermal Splitting of Silicon Carbide Granules. <i>Advanced Materials</i> , 2010, 22, 2168-2171.	11.1	95
472	Chemically Derived Graphene Oxide: Towards Large Area Thin Film Electronics and Optoelectronics. <i>Advanced Materials</i> , 2010, 22, 2392-2415.	11.1	2,018
473	Conjugated Carbon Monolayer Membranes: Methods for Synthesis and Integration. <i>Advanced Materials</i> , 2010, 22, 1072-1077.	11.1	50
474	High Performance Top Gated Graphene Nanoribbon Transistors Using Zirconium Oxide Nanowires as High Dielectric Constant Gate Dielectrics. <i>Advanced Materials</i> , 2010, 22, 1941-1945.	11.1	132
475	Imaging Buried Molecules: Fullerenes Under Graphene. <i>Advanced Materials</i> , 2010, 22, 3307-3310.	11.1	18
476	A Three Dimensional Carbon Nanotube/Graphene Sandwich and Its Application as Electrode in Supercapacitors. <i>Advanced Materials</i> , 2010, 22, 3723-3728.	11.1	1,182
477	Graphene and Graphene Oxide: Synthesis, Properties, and Applications. <i>Advanced Materials</i> , 2010, 22, 3906-3924.	11.1	8,959
478	Electric Current Induced Reduction of Graphene Oxide and Its Application as Gap Electrodes in Organic Photoswitching Devices. <i>Advanced Materials</i> , 2010, 22, 5008-5012.	11.1	88
479	Rapid and Direct Conversion of Graphite Crystals into High Yielding, Good Quality Graphene by Supercritical Fluid Exfoliation. <i>Chemistry - A European Journal</i> , 2010, 16, 6488-6494.	1.7	167
483	Carbon Nanomaterials in Biosensors: Should You Use Nanotubes or Graphene?. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2114-2138.	7.2	1,301
484	Supramolecular Assemblies Formed on an Epitaxial Graphene Superstructure. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1794-1799.	7.2	108
485	From Conception to Realization: An Historical Account of Graphene and Some Perspectives for Its Future. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 9336-9344.	7.2	693
486	Graphene Nanocomposites Prepared From Blends of Polymer Latex with Chemically Reduced Graphite Oxide Dispersions. <i>Macromolecular Materials and Engineering</i> , 2010, 295, 1107-1115.	1.7	46
487	Recent advances in graphene based polymer composites. <i>Progress in Polymer Science</i> , 2010, 35, 1350-1375.	11.8	2,949
488	Epitaxial growth of graphitic carbon on C-face SiC and sapphire by chemical vapor deposition (CVD). <i>Journal of Crystal Growth</i> , 2010, 312, 3219-3224.	0.7	69
489	Graphene dielectric integration for graphene transistors. <i>Materials Science and Engineering Reports</i> , 2010, 70, 354-370.	14.8	97
490	Density functional calculation of transition metal adatom adsorption on graphene. <i>Physica B: Condensed Matter</i> , 2010, 405, 3337-3341.	1.3	170

#	ARTICLE	IF	CITATIONS
491	Influence of the growth conditions of epitaxial graphene on the film topography and the electron transport properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 687-690.	1.3	15
492	Negative terahertz dynamic conductivity in electrically induced lateral p-n junction in graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 719-721.	1.3	9
493	Deformation effects on electronic structures of bilayer graphenes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 732-735.	1.3	3
494	A statistical-thermodynamic analysis of stably ordered substitutional structures in graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 2047-2054.	1.3	28
495	Transport characteristics of a single-layer graphene field-effect transistor grown on 4H-silicon carbide. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 2792-2795.	1.3	8
496	Tight-binding model for the electronic structures of SiC and BN nanoribbons. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 43, 440-445.	1.3	59
497	Electronic transport for armchair graphene nanoribbons with a potential barrier. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 761-764.	0.9	17
498	Crossover of the conductivity of zigzag graphene nanoribbon connected by normal metal contacts. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 4140-4143.	0.9	17
499	Electrically conductive polyethylene terephthalate/graphene nanocomposites prepared by melt compounding. <i>Polymer</i> , 2010, 51, 1191-1196.	1.8	717
500	In-situ synthesis and characterization of electrically conductive polypyrrole/graphene nanocomposites. <i>Polymer</i> , 2010, 51, 5921-5928.	1.8	464
501	Nucleation effect of Si on SiC-(0 0 0 1) $\sqrt{3}\sqrt{3}\sqrt{3}R30^\circ$ surface: First-principles study. <i>Physica B: Condensed Matter</i> , 2010, 405, 3576-3580.	1.3	5
502	Scalable production of graphene sheets by mechanical delamination. <i>Carbon</i> , 2010, 48, 3196-3204.	5.4	207
503	Graphene for electrochemical sensing and biosensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2010, 29, 954-965.	5.8	1,041
504	Highly sensitive and selective detection of NO ₂ using epitaxial graphene on 6H-SiC. <i>Sensors and Actuators B: Chemical</i> , 2010, 150, 301-307.	4.0	141
505	First-principles studies of HF molecule adsorption on intrinsic graphene and Al-doped graphene. <i>Solid State Communications</i> , 2010, 150, 1906-1910.	0.9	92
506	Signatures of epitaxial graphene grown on Si-terminated 6H-SiC (0001). <i>Surface Science</i> , 2010, 604, 84-88.	0.8	19
507	Large scale synthesis of N-doped multi-layered graphene sheets by simple arc-discharge method. <i>Carbon</i> , 2010, 48, 255-259.	5.4	416
508	Optical reflectance measurement of large-scale graphene layers synthesized on nickel thin film by carbon segregation. <i>Carbon</i> , 2010, 48, 447-451.	5.4	13

#	ARTICLE	IF	CITATIONS
509	The effect of heat treatment on formation of graphene thin films from graphene oxide nanosheets. Carbon, 2010, 48, 509-519.	5.4	507
510	Classifying nanostructured carbons using graphitic indices derived from Raman spectra. Carbon, 2010, 48, 620-629.	5.4	219
511	Growth and properties of few-layer graphene prepared by chemical vapor deposition. Carbon, 2010, 48, 1088-1094.	5.4	333
512	Studies of interfacial layers between 4H-SiC (0001) and graphene. Carbon, 2010, 48, 1670-1673.	5.4	113
513	Synthesis of polyynes from hexane by irradiation of intense femtosecond laser pulses. Carbon, 2010, 48, 1673-1676.	5.4	39
514	Production, properties and potential of graphene. Carbon, 2010, 48, 2127-2150.	5.4	1,502
515	Surface chemistry of Ni induced graphite formation on the 6H-SiC (0 0 0 1) surface and its implications for graphene synthesis. Carbon, 2010, 48, 1999-2003.	5.4	23
516	Nanopatterning of graphene with crystallographic orientation control. Carbon, 2010, 48, 2677-2689.	5.4	62
517	Bulk growth of mono- to few-layer graphene on nickel particles by chemical vapor deposition from methane. Carbon, 2010, 48, 3543-3550.	5.4	96
518	Edge reconstructions induce magnetic and metallic behavior in zigzag graphene nanoribbons. Carbon, 2010, 48, 4409-4413.	5.4	44
519	Direct reduction of graphene oxide films into highly conductive and flexible graphene films by hydrohalic acids. Carbon, 2010, 48, 4466-4474.	5.4	1,459
520	Biological modification of carbon nanowalls with DNA strands and hybridization experiments with complementary and mismatched DNA. Chemical Physics Letters, 2010, 485, 196-201.	1.2	13
521	Graphene growth by molecular beam epitaxy using a solid carbon source. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 300-303.	0.8	86
522	Top- and side-gated epitaxial graphene field effect transistors. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 286-290.	0.8	30
523	Effect of local doping on the electronic properties of epitaxial graphene on SiC. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 595-598.	0.8	5
524	Crystallographically oriented high resolution lithography of graphene nanoribbons by STM lithography. Physica Status Solidi (B): Basic Research, 2010, 247, 896-902.	0.7	27
525	Local enhancement of inelastic tunnelling in epitaxial graphene on SiC(0001). Physica Status Solidi (B): Basic Research, 2010, 247, 2992-2996.	0.7	7
526	Automated preparation of high-quality epitaxial graphene on 6H-SiC(0001). Physica Status Solidi (B): Basic Research, 2010, 247, 2924-2926.	0.7	62

#	ARTICLE	IF	CITATIONS
527	Water-Soluble Magnetic-Functionalized Reduced Graphene Oxide Sheets: In situ Synthesis and Magnetic Resonance Imaging Applications. <i>Small</i> , 2010, 6, 169-173.	5.2	342
528	The Superior Dispersion of Easily Soluble Graphite. <i>Small</i> , 2010, 6, 58-62.	5.2	54
529	High-resolution tunnelling spectroscopy of a graphene quartet. <i>Nature</i> , 2010, 467, 185-189.	13.7	171
530	Scalable templated growth of graphene nanoribbons on SiC. <i>Nature Nanotechnology</i> , 2010, 5, 727-731.	15.6	423
531	Nanoribbons on the edge. <i>Nature Nanotechnology</i> , 2010, 5, 698-699.	15.6	8
532	Graphene rests easy. <i>Nature Nanotechnology</i> , 2010, 5, 699-700.	15.6	46
533	Can graphene set new standards?. <i>Nature Nanotechnology</i> , 2010, 5, 171-172.	15.6	29
534	Graphene photonics and optoelectronics. <i>Nature Photonics</i> , 2010, 4, 611-622.	15.6	6,719
535	Real-space mapping of magnetically quantized graphene states. <i>Nature Physics</i> , 2010, 6, 811-817.	6.5	79
536	Graphene Nanoribbon Conductance Model in Parabolic Band Structure. <i>Journal of Nanomaterials</i> , 2010, 2010, 1-4.	1.5	50
537	Modelling of Graphene Nanoribbon Fermi Energy. <i>Journal of Nanomaterials</i> , 2010, 2010, 1-6.	1.5	20
538	Integration of Carbon Nanotubes in Microelectronics. , 0, , .		1
539	Epitaxial Graphene Growth Studied by Low-Energy Electron Microscopy and First-Principles. <i>Materials Science Forum</i> , 0, 645-648, 597-602.	0.3	12
540	Epitaxial Graphene Elaborated on 3C-SiC(111)/Si Epilayers. <i>Materials Science Forum</i> , 2010, 645-648, 585-588.	0.3	4
541	Optical Transmission of Epitaxial Graphene Layers on SiC in the Visible Spectral Range. <i>Materials Science Forum</i> , 0, 645-648, 615-618.	0.3	3
542	Tuning the electronic properties of armchair carbon nanoribbons by a selective boron doping. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 505302.	0.7	11
543	Chemical vapor deposition of graphene films. <i>Nanotechnology</i> , 2010, 21, 145604.	1.3	110
544	Differences between Graphene Grown on Si-Face and C-Face. <i>Materials Science Forum</i> , 0, 645-648, 581-584.	0.3	2

#	ARTICLE	IF	CITATIONS
545	Growth of Few Layers Graphene on Silicon Carbide from Nickel Silicide Supersaturated with Carbon. Materials Science Forum, 0, 645-648, 589-592.	0.3	11
546	Techniques for the Dry Transfer of Epitaxial Graphene onto Arbitrary Substrates. Materials Science Forum, 2010, 645-648, 633-636.	0.3	2
547	Graphene Growth on C and Si-Face of $4H$ -SiC – TEM and AFM Studies. Materials Science Forum, 2010, 645-648, 577-580.	0.3	5
548	Large homogeneous mono-/bi-layer graphene on $6H$ -SiC(0001) and buffer layer elimination. Journal of Applied Physics, 2010, 43, 374010.	1.3	66
549	Dry Techniques for Epitaxial Graphene Transfer. Materials Research Society Symposia Proceedings, 2010, 1259, 1.	0.1	1
550	Uniformity of Epitaxial Graphene on On-Axis and Off-Axis SiC Probed by Raman Spectroscopy and Nanoscale Current Mapping. Materials Science Forum, 0, 645-648, 607-610.	0.3	5
551	Direct transformation of a resist pattern into a graphene field effect transistor through interfacial graphitization of liquid gallium. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2010, 28, C6D1-C6D4.	0.6	9
552	Density functional theory study of BN-doped graphene superlattice: Role of geometrical shape and size. Journal of Applied Physics, 2010, 108, .	1.1	93
553	Growth kinetics of epitaxial graphene on SiC substrates. Physical Review B, 2010, 81, .	1.1	26
554	Giant inelastic tunneling in epitaxial graphene mediated by localized states. Physical Review B, 2010, 81, .	1.1	24
555	Room-temperature giant magnetoresistance over one billion percent in a bare graphene nanoribbon device. Physical Review B, 2010, 81, .	1.1	44
556	Phase diagram of H_2 on graphene. Physical Review B, 2010, 81, .		
557	Partial-epitaxial morphology of graphene nanoribbon on the Si-terminated SiC(0001) surfaces. Physical Review B, 2010, 81, .	1.1	12
558	Peierls-Type Instability and Tunable Band Gap in Functionalized Graphene. Physical Review Letters, 2010, 105, 086802.	2.9	53
559	Quantum conductance in nanotube-ribbon hybrids. Journal of Applied Physics, 2010, 107, 063714.	1.1	4
560	Graphene buffer layer on Si-terminated SiC studied with an empirical interatomic potential. Journal of Applied Physics, 2010, 107, 103514.	1.1	24
561	Marker-free on-the-fly fabrication of graphene devices based on fluorescence quenching. Nanotechnology, 2010, 21, 015303.	1.3	18
562	Scaling and Interaction-Assisted Transport in Graphene with One-Dimensional Defects. Physical Review Letters, 2010, 105, 216602.	2.9	1

#	ARTICLE	IF	CITATIONS
563	Electronic structures and transverse electrical field effects in folded zigzag-edged graphene nanoribbons. Applied Physics Letters, 2010, 97, 153129.	1.5	23
564	A new route towards uniformly functionalized single-layer graphene. Journal Physics D: Applied Physics, 2010, 43, 175302.	1.3	25
565	Formation of epitaxial graphene on SiC(0001) using vacuum or argon environments. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2010, 28, C5C1-C5C7.	0.6	26
566	A route to strong p-doping of epitaxial graphene on SiC. Applied Physics Letters, 2010, 97, 193304.	1.5	22
567	Elastic and nonlinear stiffness of graphene: A simple approach. Physical Review B, 2010, 81, .	1.1	34
568	Edge structure of epitaxial graphene islands. Physical Review B, 2010, 81, .	1.1	42
569	Effect of Proton Irradiation on Graphene Layers. Fullerenes Nanotubes and Carbon Nanostructures, 2010, 18, 1-13.	1.0	3
570	Effects of Metallic Contacts on Electron Transport through Graphene. Physical Review Letters, 2010, 104, 076807.	2.9	138
571	Trapping of electrons near chemisorbed hydrogen on graphene. Physical Review B, 2010, 81, .	1.1	18
572	Effect of electron localization on the edge-state spins in a disordered network of nanographene sheets. Physical Review B, 2010, 81, .	1.1	46
573	Effect of a magnetic field on the two-phonon Raman scattering in graphene. Physical Review B, 2010, 81, .	1.1	22
574	Rotation-dependent epitaxial relations between graphene and the Si-terminated SiC substrate. Physical Review B, 2010, 82, .	1.1	8
575	Resonance Transmission in Graphene-Nanoribbon-Based Quantum Dot and Superlattice. Chinese Physics Letters, 2010, 27, 107303.	1.3	1
576	60 GHz current gain cut-off frequency graphene nanoribbon FET. International Journal of Microwave and Wireless Technologies, 2010, 2, 441-444.	1.5	3
577	Mechanisms of nanochannel formation processes: Thermal oxidation of Si nanostructures and graphene formation on SiC. , 2010, , .		0
578	Mechanism of carbon nanostructure synthesis in arc plasma. Physics of Plasmas, 2010, 17, 057101.	0.7	45
579	Edge States and Flat Bands of Graphene Nanoribbons with Edge Modification. Journal of the Physical Society of Japan, 2010, 79, 034706.	0.7	49
580	Multicarrier transport in epitaxial multilayer graphene. Applied Physics Letters, 2010, 97, 112107.	1.5	50

#	ARTICLE	IF	CITATIONS
581	Extraction of Drain Current and Effective Mobility in Epitaxial Graphene Channel Field-Effect Transistors on SiC Layer Grown on Silicon Substrates. Japanese Journal of Applied Physics, 2010, 49, 04DF17.	0.8	20
582	Energy spectra of a single-electron magnetic dot using the massless Dirac-Weyl equation. Journal of Physics Condensed Matter, 2010, 22, 355501.	0.7	4
583	Disordered electrical potential observed on the surface of SiO ₂ by electric field microscopy. Journal of Physics Condensed Matter, 2010, 22, 045002.	0.7	2
584	Interface structure of graphene on SiC: an ab initio and STM approach. Journal Physics D: Applied Physics, 2010, 43, 374008.	1.3	22
585	Hysteresis reversion in graphene field-effect transistors. Journal of Chemical Physics, 2010, 133, 044703.	1.2	78
586	Molecular Adsorption Behavior of Epitaxial Graphene Grown on 6H-SiC Faces. Applied Physics Express, 2010, 3, 075101.	1.1	13
587	Nobel document triggers debate. Nature, 2010, 468, 486-486.	13.7	9
588	Superlattice of resonators on monolayer graphene created by intercalated gold nanoclusters. Europhysics Letters, 2010, 91, 66004.	0.7	22
589	Current status of self-organized epitaxial graphene ribbons on the C face of 6H-SiC substrates. Journal Physics D: Applied Physics, 2010, 43, 374011.	1.3	29
590	Electro-oxidized Epitaxial Graphene Channel Field-Effect Transistors with Single-Walled Carbon Nanotube Thin Film Gate Electrode. Journal of the American Chemical Society, 2010, 132, 14429-14436.	6.6	38
591	Transmission through a boundary between monolayer and bilayer graphene. Physical Review B, 2010, 82, .	1.1	82
592	Transport between twisted graphene layers. Physical Review B, 2010, 81, .	1.1	164
593	Robust Ballistic Transport in Narrow Armchair-Edge Graphene Nanoribbons with Chemical Edge Disorder. Journal of Physical Chemistry Letters, 2010, 1, 1082-1085.	2.1	9
594	Invited Review Article: A 10 mK scanning probe microscopy facility. Review of Scientific Instruments, 2010, 81, 121101.	0.6	106
595	Carbon based graphene nanoelectronics technologies. , 2010, , .		0
596	Landau levels of multilayer graphene ribbons. Diamond and Related Materials, 2010, 19, 614-617.	1.8	0
597	Structural and electronic properties of epitaxial graphene on SiC(0001): a review of growth, characterization, transfer doping and hydrogen intercalation. Journal Physics D: Applied Physics, 2010, 43, 374009.	1.3	437
598	Reducing Sugar: New Functional Molecules for the Green Synthesis of Graphene Nanosheets. ACS Nano, 2010, 4, 2429-2437.	7.3	1,297

#	ARTICLE	IF	CITATIONS
599	Electrochemical Approach for Detection of Extracellular Oxygen Released from Erythrocytes Based on Graphene Film Integrated with Laccase and 2,2-Azino-bis(3-ethylbenzothiazoline-6-sulfonic acid). Analytical Chemistry, 2010, 82, 3588-3596.	3.2	106
600	Fabrication of graphene devices, issues and prospects. , 2010, , .		0
601	Periodically modulated geometric and electronic structure of graphene on Ru(0 0 0 1). Semiconductor Science and Technology, 2010, 25, 034001.	1.0	21
602	Excitonic condensation in a double-layer graphene system. Semiconductor Science and Technology, 2010, 25, 034004.	1.0	47
603	Tunable electronic transport and unidirectional quantum wires in graphene subjected to electric and magnetic fields. Physical Review B, 2010, 81, .	1.1	45
604	Graphene-based ultra-sensitive gas sensors. , 2010, , .		11
605	Honeycomb Carbon: A Review of Graphene. Chemical Reviews, 2010, 110, 132-145.	23.0	6,210
606	Growth of large-area graphene films from metal-carbon melts. Journal of Applied Physics, 2010, 108, .	1.1	123
607	Applications of Carbon Nanomaterials as Electrical Interconnects and Thermal Interface Materials. , 2010, , 87-138.		6
608	Transferable Graphene Oxide Films with Tunable Microstructures. ACS Nano, 2010, 4, 7367-7372.	7.3	135
609	Exfoliation of Graphite via Edge-Functionalization with Carboxylic Acid-Terminated Hyperbranched Poly(ether-ketone)s. Advanced Materials Research, 2010, 123-125, 671-674.	0.3	3
610	Role of Kinetic Factors in Chemical Vapor Deposition Synthesis of Uniform Large Area Graphene Using Copper Catalyst. Nano Letters, 2010, 10, 4128-4133.	4.5	733
611	Coherent Control of Ballistic Photocurrents in Multilayer Epitaxial Graphene Using Quantum Interference. Nano Letters, 2010, 10, 1293-1296.	4.5	122
612	Epitaxial Graphene on Cu(111). Nano Letters, 2010, 10, 3512-3516.	4.5	685
613	Auger Electron Spectroscopy: A Rational Method for Determining Thickness of Graphene Films. ACS Nano, 2010, 4, 2937-2945.	7.3	115
614	Direct grafting of linear macromolecular wedges to the edge of pristine graphite to prepare edge-functionalized graphene-based polymer composites. Journal of Materials Chemistry, 2010, 20, 10936.	6.7	44
615	A study of the synthetic methods and properties of graphenes. Science and Technology of Advanced Materials, 2010, 11, 054502.	2.8	164
616	A roadmap to high quality chemically prepared graphene. Journal Physics D: Applied Physics, 2010, 43, 374015.	1.3	57

#	ARTICLE	IF	CITATIONS
617	Epitaxial graphene electronic structure and transport. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 374007.	1.3	119
618	Spectroscopy of Covalently Functionalized Graphene. <i>Nano Letters</i> , 2010, 10, 4061-4066.	4.5	507
619	Multilayer epitaxial graphene grown on the surface; structure and electronic properties. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 374006.	1.3	66
620	Perspectives on the 2010 Nobel Prize in Physics for Graphene. <i>ACS Nano</i> , 2010, 4, 6297-6302.	7.3	94
621	First-principles study of the optical absorption spectra of electrically gated bilayer graphene. <i>Physical Review B</i> , 2010, 81, .	1.1	28
622	Electronic structure of a graphene/hexagonal-BN heterostructure grown on Ru(0001) by chemical vapor deposition and atomic layer deposition: extrinsically doped graphene. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 302002.	0.7	50
623	Graphene/Substrate Charge Transfer Characterized by Inverse Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2010, 114, 21618-21624.	1.5	61
624	Graphene-DNA hybrids: self-assembly and electrochemical detection performance. <i>Journal of Materials Chemistry</i> , 2010, 20, 6668.	6.7	112
625	Engineering graphene by oxidation: a first-principles study. <i>Nanotechnology</i> , 2010, 21, 045704.	1.3	92
626	Dirac electronic states in graphene systems: optical spectroscopy studies. <i>Semiconductor Science and Technology</i> , 2010, 25, 063001.	1.0	158
627	Excitons of Edge and Surface Functionalized Graphene Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17257-17262.	1.5	38
628	Graphene Nanoribbon Thin Films Using Layer-by-Layer Assembly. <i>Nano Letters</i> , 2010, 10, 4356-4362.	4.5	64
629	Mass Production of Graphene via an in Situ Self-Generating Template Route and Its Promoted Activity as Electrocatalytic Support for Methanol Electrooxidation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8727-8733.	1.5	127
630	Fabrication of Large-Area Graphene Using Liquid Gallium and Its Electrical Properties. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 06GC01.	0.8	24
631	Scanning Tunneling Microscopy, Spectroscopy, and Nanolithography of Epitaxial Graphene Chemically Modified with Aryl Moieties. <i>Journal of the American Chemical Society</i> , 2010, 132, 15399-15403.	6.6	144
632	Comparison of graphene formation on C-face and Si-face SiC {0001} surfaces. <i>Physical Review B</i> , 2010, 82, .	1.1	76
633	Highly sensitive and selective NO ₂ . , 2010, , .		4
634	Graphene on Metallic Substrates: Suppression of the Kohn Anomalies in the Phonon Dispersion. <i>Nano Letters</i> , 2010, 10, 4335-4340.	4.5	108

#	ARTICLE	IF	CITATIONS
635	Layer-by-Layer Transfer of Multiple, Large Area Sheets of Graphene Grown in Multilayer Stacks on a Single SiC Wafer. ACS Nano, 2010, 4, 5591-5598.	7.3	65
636	Magneto-optical Selection Rules in Bilayer Bernal Graphene. ACS Nano, 2010, 4, 1465-1472.	7.3	85
637	Anodic bonded graphene. Journal Physics D: Applied Physics, 2010, 43, 374013.	1.3	32
638	Mimicking nanoribbon behavior using a graphene layer on SiC. Physical Review B, 2010, 82, .	1.1	8
639	Anderson transition in disordered bilayer graphene. Journal of Physics Condensed Matter, 2010, 22, 255503.	0.7	1
640	Optical properties of deformed few-layer graphenes with AB stacking. Journal of Applied Physics, 2010, 108, 043509.	1.1	5
641	Building Half-Metallicity in Graphene Nanoribbons by Direct Control over Edge States Occupation. Journal of Physical Chemistry C, 2010, 114, 4190-4193.	1.5	100
642	Dielectric thickness dependence of carrier mobility in graphene with HfO ₂ top dielectric. Applied Physics Letters, 2010, 97, .	1.5	97
643	Atomic Structure of Reduced Graphene Oxide. Nano Letters, 2010, 10, 1144-1148.	4.5	1,076
644	Stacking-Dependent Optical Conductivity of Bilayer Graphene. ACS Nano, 2010, 4, 4074-4080.	7.3	145
645	Behaviors of NIH-3T3 Fibroblasts on Graphene/Carbon Nanotubes: Proliferation, Focal Adhesion, and Gene Transfection Studies. ACS Nano, 2010, 4, 6587-6598.	7.3	395
646	Technique for the Dry Transfer of Epitaxial Graphene onto Arbitrary Substrates. ACS Nano, 2010, 4, 1108-1114.	7.3	190
647	Evolution of the Raman spectra from single-, few-, and many-layer graphene with increasing disorder. Physical Review B, 2010, 82, .	1.1	606
648	Uniaxial-stress effects on electronic structures of monolayer and bilayer graphenes. Synthetic Metals, 2010, 160, 2435-2441.	2.1	11
649	Rapid Sequencing of Individual DNA Molecules in Graphene Nanogaps. Nano Letters, 2010, 10, 420-425.	4.5	351
650	Reduction of graphene oxide via ascorbic acid. Chemical Communications, 2010, 46, 1112-1114.	2.2	2,098
651	Two-Dimensional Phonon Transport in Supported Graphene. Science, 2010, 328, 213-216.	6.0	1,692
652	A Simple Approach for Preparing Transparent Conductive Graphene Films Using the Controlled Chemical Reduction of Exfoliated Graphene Oxide in an Aqueous Suspension. Journal of Physical Chemistry C, 2010, 114, 14433-14440.	1.5	109

#	ARTICLE	IF	CITATIONS
653	<i>In situ</i> x-ray diffraction study of graphitic carbon formed during heating and cooling of amorphous-C/Ni bilayers. Applied Physics Letters, 2010, 96, .	1.5	85
654	Structural analysis of multilayer graphene via atomic moiré interferometry. Physical Review B, 2010, 81, .	1.1	146
655	Nanocarbonic transparent conductive films. Chemical Society Reviews, 2010, 39, 2477.	18.7	43
656	Two-dimensional carbon nanostructures: Fundamental properties, synthesis, characterization, and potential applications. Journal of Applied Physics, 2010, 108, .	1.1	258
657	Graphene Nanoribbon Devices Produced by Oxidative Unzipping of Carbon Nanotubes. ACS Nano, 2010, 4, 5405-5413.	7.3	130
658	Raman Spectroscopic Characterization of Graphene. Applied Spectroscopy Reviews, 2010, 45, 369-407.	3.4	213
659	Selective adsorption and electronic interaction of F16CuP on epitaxial graphene. Physical Review B, 2010, 82, .	1.1	37
660	Fabrication of Free-Standing Multilayered Graphene and Poly(3,4-ethylenedioxythiophene) Composite Films with Enhanced Conductive and Mechanical Properties. Langmuir, 2010, 26, 12902-12908.	1.6	108
661	Characterizing Graphene, Graphite, and Carbon Nanotubes by Raman Spectroscopy. Annual Review of Condensed Matter Physics, 2010, 1, 89-108.	5.2	533
662	Can Graphene be used as a Substrate for Raman Enhancement?. Nano Letters, 2010, 10, 553-561.	4.5	914
663	Laser-Synthesized Epitaxial Graphene. ACS Nano, 2010, 4, 7524-7530.	7.3	79
664	Electronic properties of monolayer graphene in the presence of the uniform magnetic and modulated electric fields. Diamond and Related Materials, 2010, 19, 604-607.	1.8	5
665	Structured epitaxial graphene growth on SiC by selective graphitization using a patterned AlN cap. Applied Physics Letters, 2010, 96, 082112.	1.5	14
666	A direct transfer of layer-area graphene. Applied Physics Letters, 2010, 96, .	1.5	335
667	Graphene and its one-dimensional patterns: from basic properties towards applications. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2010, 1, 033001.	0.7	6
668	Nano-Bio- Electronic, Photonic and MEMS Packaging. , 2010, , .		38
669	Carbon based graphene nanoelectronics technologies. , 2010, , .		1
670	Very high temperature annealing effect on amorphous carbon films grown on refractory oxide substrates by pulsed laser deposition. Diamond and Related Materials, 2010, 19, 107-109.	1.8	2

#	ARTICLE	IF	CITATIONS
671	Generation of conductive PEDOT and graphene composite thin films by a layer-by-layer assembly technique. , 2010, , .		0
672	Terahertz and infrared photodetection using p-i-n multiple-graphene-layer structures. Journal of Applied Physics, 2010, 107, .	1.1	73
673	The evolution of graphene-based electronic devices. International Journal of Smart and Nano Materials, 2010, 1, 201-223.	2.0	40
674	Epitaxial graphene monolayer and bilayers on Ru(0001):Ab initio calculations. Physical Review B, 2010, 82, .	1.1	17
675	Fast graphene-based electronics and optoelectronics. , 2010, , .		2
676	Thermal Transport in Suspended and Supported Monolayer Graphene Grown by Chemical Vapor Deposition. Nano Letters, 2010, 10, 1645-1651.	4.5	1,103
677	High yield fabrication of chemically reduced graphene oxide field effect transistors by dielectrophoresis. Nanotechnology, 2010, 21, 165202.	1.3	112
678	Bound states in the continuum in graphene quantum dot structures. Europhysics Letters, 2010, 91, 66001.	0.7	46
679	Quasi-Freestanding Graphene on SiC(0001). Materials Science Forum, 0, 645-648, 629-632.	0.3	46
680	Fifth-Nearest-Neighbor Tight-Binding Description of Electronic Structure of Graphene. Communications in Theoretical Physics, 2010, 53, 1172-1176.	1.1	13
681	Absorption spectra of AA-stacked graphite. New Journal of Physics, 2010, 12, 083060.	1.2	36
682	Infrared and Raman spectra of AA-stacking bilayer graphene. Nanotechnology, 2010, 21, 065711.	1.3	76
683	Complex evolution of the electronic structure from polycrystalline to monocrystalline graphene: Generation of a new Dirac point. Physical Review B, 2010, 81, .	1.1	27
684	Single- or multi-flavor Kondo effect in graphene. Europhysics Letters, 2010, 90, 67001.	0.7	34
685	Graphene and few-layer graphite probed by second-harmonic generation: Theory and experiment. Physical Review B, 2010, 82, .	1.1	144
686	Epitaxial Graphenes on Silicon Carbide. MRS Bulletin, 2010, 35, 296-305.	1.7	180
687	Conductance Anisotropy in Epitaxial Graphene Sheets Generated by Substrate Interactions. Nano Letters, 2010, 10, 1559-1562.	4.5	97
689	A critical review of growth of low-dimensional carbon nanostructures on SiC (0001): impact of growth environment. Journal Physics D: Applied Physics, 2010, 43, 374004.	1.3	19

#	ARTICLE	IF	CITATIONS
690	Transport study of the Berry phase, resistivity rule, and quantum Hall effect in graphite. <i>Physical Review B</i> , 2010, 82, .	1.1	12
691	Quasiclassical cyclotron resonance of Dirac fermions in highly doped graphene. <i>Physical Review B</i> , 2010, 82, .	1.1	86
692	Anisotropic transport in graphene on SiC substrate with periodic nanofacets. <i>Applied Physics Letters</i> , 2010, 96, 062111.	1.5	29
693	Wafer-scale epitaxial graphene growth on the Si-face of hexagonal SiC (0001) for high frequency transistors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2010, 28, 985-992.	0.6	95
694	Effect of contact barrier on electron transport in graphene. <i>Journal of Chemical Physics</i> , 2010, 132, 024706.	1.2	14
695	The electronic properties of graphene nanoribbons with boron/nitrogen codoping. <i>Applied Physics Letters</i> , 2010, 96, 243110.	1.5	47
696	Molecular nanosensors based on the inter-sheet tunneling effect of a bilayer graphene. , 2010, , .		2
697	Fabrication of ultrasensitive graphene nanobiosensors. , 2010, , .		2
698	Tight binding description on the band gap opening of pyrene-dispersed graphene. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 1515-1520.	1.3	44
699	Analytical Study of Low-Field Diffusive Transport in Highly Asymmetric Bilayer Graphene Nanoribbon. <i>IEEE Nanotechnology Magazine</i> , 2011, 10, 409-416.	1.1	1
700	Structural and electronic properties of graphene nanotubeâ€“nanoribbon hybrids. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 3925.	1.3	7
701	Influence of annealing temperature on the performance of graphene / SiC transistors with high- k / metal gate. , 2011, , .		2
702	Control of epitaxy of graphene by crystallographic orientation of a Si substrate toward device applications. <i>Journal of Materials Chemistry</i> , 2011, 21, 17242.	6.7	37
703	Casimir interactions in graphene systems. <i>Europhysics Letters</i> , 2011, 95, 57003.	0.7	73
704	Large area and structured epitaxial graphene produced by confinement controlled sublimation of silicon carbide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 16900-16905.	3.3	395
705	Epitaxial Graphene Growth on 3Câ€“SiC(111)/AlN(0001)/Si(100). <i>Electrochemical and Solid-State Letters</i> , 2011, 14, K13.	2.2	20
706	Thermoelectric effect in high mobility single layer epitaxial graphene. <i>Applied Physics Letters</i> , 2011, 99, 133102.	1.5	30
707	Layer Number Determination and Thickness-Dependent Properties of Graphene Grown on SiC. <i>IEEE Nanotechnology Magazine</i> , 2011, 10, 1196-1201.	1.1	12

#	ARTICLE	IF	CITATIONS
708	Graphene-on-SiC and graphene-on-Si transistors and RF applications. , 2011, , .		1
709	Characterization and nanopatterning of organically functionalized graphene with ultrahigh vacuum scanning tunneling microscopy. MRS Bulletin, 2011, 36, 532-542.	1.7	12
710	A Facile Route for the Large Scale Fabrication of Graphene Oxide Papers and Their Mechanical Enhancement by Cross-linking with Glutaraldehyde. Nano-Micro Letters, 2011, 3, 215-222.	14.4	59
711	Mode-locked Yb-doped fiber laser with epitaxial graphene grown on 6H-SiC substrates. , 2011, , .		0
712	Monte Carlo Simulation of Ultrafast Electron Relaxation in Graphene. Applied Physics Express, 2011, 4, 085101.	1.1	18
713	Exact solution of the spectrum and magneto-optics of multilayer hexagonal graphene. Journal of Applied Physics, 2011, 110, 013725.	1.1	12
714	Multicomponent magneto-optical conductivity of multilayer graphene on SiC. Physical Review B, 2011, 84, .	1.1	44
715	Facile one-step transfer process of graphene. Nanotechnology, 2011, 22, 225606.	1.3	14
716	Large-area homogeneous quasifree standing epitaxial graphene on SiC(0001): Electronic and structural characterization. Physical Review B, 2011, 84, .	1.1	103
717	Transport Properties of Zigzag Graphene Nanoribbons Decorated by Carboxyl Group Chains. Journal of Physical Chemistry C, 2011, 115, 21893-21898.	1.5	8
718	Ethylene Irradiation: A New Route to Grow Graphene on Low Reactivity Metals. Nano Letters, 2011, 11, 3576-3580.	4.5	58
719	Magnetism and bonding in graphene nanodots with H modified interior, edge, and apex. Journal of Chemical Physics, 2011, 135, 084707.	1.2	4
720	High-Throughput Large-Area Automated Identification and Quality Control of Graphene and Few-Layer Graphene Films. ACS Nano, 2011, 5, 914-922.	7.3	69
721	Low-energy band structures of armchair ribbon-graphene hybrid systems. Diamond and Related Materials, 2011, 20, 1026-1029.	1.8	1
722	The 2010 Nobel Prize in physics“ground-breaking experiments on graphene. Journal Physics D: Applied Physics, 2011, 44, 473001.	1.3	50
723	Boron Nitride Nanoribbons Become Metallic. Nano Letters, 2011, 11, 3267-3273.	4.5	120
724	Effects of Transverse Electric Fields on Quasi-Landau Levels in Zigzag Graphene Nanoribbons. Journal of the Physical Society of Japan, 2011, 80, 044602.	0.7	13
725	Preparation of Novel Carbon-based Nanomaterial of Graphene and Its Applications Electrochemistry. Chinese Journal of Analytical Chemistry, 2011, 39, 963-971.	0.9	21

#	ARTICLE	IF	CITATIONS
726	Physics of Carbon Nanostructures. , 2011, , 155-194.		6
727	Graphene: Its Fundamentals to Future Applications. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 2702-2708.	2.9	81
728	Facile Synthesis of Graphene Nanosheets <i>via</i> Fe Reduction of Exfoliated Graphite Oxide. ACS Nano, 2011, 5, 191-198.	7.3	818
729	Nonlinear transmission dynamics in graphene close to the Dirac point. , 2011, , .		0
730	Analytical device model for graphene bilayer field-effect transistors using weak nonlocality approximation. Journal of Applied Physics, 2011, 109, 064508.	1.1	11
732	Ellipsometry as a Real-Time Optical Tool for Monitoring and Understanding Graphene Growth on Metals. Journal of Physical Chemistry C, 2011, 115, 21804-21812.	1.5	36
733	Arc plasma synthesis of carbon nanostructures: where is the frontier?. Journal Physics D: Applied Physics, 2011, 44, 174006.	1.3	65
734	Functionalized Graphene for High-Performance Two-Dimensional Spintronics Devices. ACS Nano, 2011, 5, 2601-2610.	7.3	116
735	Carbon-Based Materials: Growth, Properties, MEMS/NEMS Technologies, and MEM/NEM Switches. Critical Reviews in Solid State and Materials Sciences, 2011, 36, 66-101.	6.8	55
736	Covalent Chemistry for Graphene Electronics. Journal of Physical Chemistry Letters, 2011, 2, 2487-2498.	2.1	131
737	Organometallic chemistry of extended periodic π -electron systems: hexahapto-chromium complexes of graphene and single-walled carbon nanotubes. Chemical Science, 2011, 2, 1326.	3.7	96
738	Comprehension of Nanocomposites. Interface Science and Technology, 2011, , 777-819.	1.6	3
740	Graphene: preparation and structural perfection. Journal of Materials Chemistry, 2011, 21, 3280-3294.	6.7	123
741	Large-Area Industrial-Scale Identification and Quality Control of Graphene. Materials Research Society Symposia Proceedings, 2011, 1344, 1.	0.1	0
742	Laser Patterning of Epitaxial Graphene for Schottky Junction Photodetectors. ACS Nano, 2011, 5, 5969-5975.	7.3	63
743	Graphene-encapsulated iron microspheres on the graphene nanosheets. Physical Chemistry Chemical Physics, 2011, 13, 17818.	1.3	15
744	Nonperturbative Chemical Modification of Graphene for Protein Micropatterning. Langmuir, 2011, 27, 863-865.	1.6	85
745	Thermal transport across Twin Grain Boundaries in Polycrystalline Graphene from Nonequilibrium Molecular Dynamics Simulations. Nano Letters, 2011, 11, 3917-3921.	4.5	307

#	ARTICLE	IF	CITATIONS
746	Multicolor graphene nanoribbon/semiconductor nanowire heterojunction light-emitting diodes. <i>Journal of Materials Chemistry</i> , 2011, 21, 11760.	6.7	58
747	Fabrication of Uniform Graphene Discs <i>via</i> Transversal Cutting of Carbon Nanofibers. <i>ACS Nano</i> , 2011, 5, 6254-6261.	7.3	24
748	A review on carbon-based materials as on-chip interconnects. <i>Proceedings of SPIE</i> , 2011, , .	0.8	2
749	Atmospheric stability and doping protection of noble-metal intercalated graphene on Ni(111). <i>Applied Physics Letters</i> , 2011, 98, 122111.	1.5	24
750	Synthesis of ethanol-soluble few-layer graphene nanosheets for flexible and transparent conducting composite films. <i>Nanotechnology</i> , 2011, 22, 295606.	1.3	51
751	Atomic-Scale Investigation of Graphene Grown on Cu Foil and the Effects of Thermal Annealing. <i>ACS Nano</i> , 2011, 5, 3607-3613.	7.3	134
752	Continuous roll-to-roll growth of graphene films by chemical vapor deposition. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	95
753	Electron transport through the p-n junction of zigzag graphene nanoribbon with external transverse electric fields. <i>Journal of Applied Physics</i> , 2011, 110, 113710.	1.1	5
754	Graphene based new energy materials. <i>Energy and Environmental Science</i> , 2011, 4, 1113.	15.6	1,789
755	High On/Off Ratios in Bilayer Graphene Field Effect Transistors Realized by Surface Dopants. <i>Nano Letters</i> , 2011, 11, 2640-2643.	4.5	102
757	ELECTRONIC TRANSPORT IN GRAPHENE: QUANTUM EFFECTS AND ROLE OF LOCAL DEFECTS. <i>Modern Physics Letters B</i> , 2011, 25, 1019-1028.	1.0	22
758	Virtual Issue: Graphene and Functionalized Graphene. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3195-3197.	1.5	50
759	Toward Clean and Crackless Transfer of Graphene. <i>ACS Nano</i> , 2011, 5, 9144-9153.	7.3	701
760	High-Yield Production and Transfer of Graphene Flakes Obtained by Anodic Bonding. <i>ACS Nano</i> , 2011, 5, 7700-7706.	7.3	43
763	Highly uniform step and terrace structures on SiC(0001) surfaces. <i>IBM Journal of Research and Development</i> , 2011, 55, 7:1-7:6.	3.2	2
764	Quantifying pulsed laser induced damage to graphene. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	133
765	Excitonic Effects on Optical Absorption Spectra of Doped Graphene. <i>Nano Letters</i> , 2011, 11, 3844-3847.	4.5	73
766	Excitons in intrinsic and bilayer graphene. <i>Physical Review B</i> , 2011, 83, .	1.1	75

#	ARTICLE	IF	CITATIONS
767	Grain Boundary Mapping in Polycrystalline Graphene. ACS Nano, 2011, 5, 2142-2146.	7.3	566
768	A Three-Dimensional Vertically Aligned Functionalized Multilayer Graphene Architecture: An Approach for Graphene-Based Thermal Interfacial Materials. ACS Nano, 2011, 5, 2392-2401.	7.3	283
769	Graphene-Wrapped Hybrid Spheres of Electrical Conductivity. ACS Applied Materials & Interfaces, 2011, 3, 2904-2911.	4.0	67
770	Protein-directed reduction of graphene oxide and intracellular imaging. Chemical Communications, 2011, 47, 12658.	2.2	60
771	Infrared and Raman spectra of ABC-stacked few-layer graphene studied by first-principles calculations. Physical Review B, 2011, 84, .	1.1	0
772	Transport properties of graphene quantum dots. Physical Review B, 2011, 83, .	1.1	37
773	The Role of Chemistry in Graphene Doping for Carbon-Based Electronics. ACS Nano, 2011, 5, 3096-3103.	7.3	79
774	Fourier-transform scanning tunnelling spectroscopy: the possibility to obtain constant-energy maps and band dispersion using a local measurement. Journal Physics D: Applied Physics, 2011, 44, 464010.	1.3	74
775	Graphene: fabrication methods and thermophysical properties. Physics-Uspexhi, 2011, 54, 227-258.	0.8	135
776	Nanotechnology Research Directions for Societal Needs in 2020. , 2011, , .		202
777	Graphene sheets decorated with SnO ₂ nanoparticles: in situ synthesis and highly efficient materials for cataluminescence gas sensors. Journal of Materials Chemistry, 2011, 21, 5972.	6.7	290
778	Raman spectroscopy of the internal strain of a graphene layer grown on copper tuned by chemical vapor deposition. Physical Review B, 2011, 84, .	1.1	49
779	Production of Extended Single-Layer Graphene. ACS Nano, 2011, 5, 1522-1528.	7.3	93
780	CMOS-Compatible Synthesis of Large-Area, High-Mobility Graphene by Chemical Vapor Deposition of Acetylene on Cobalt Thin Films. ACS Nano, 2011, 5, 7198-7204.	7.3	109
781	Berry-curvature-mediated valley-Hall and charge-Hall effects in graphene via strain engineering. Physical Review B, 2011, 84, .	1.1	10
782	Negative differential conductivity in bilayer graphene controlled by an external voltage and in the presence of a magnetic field. Physica Scripta, 2011, 83, 015603.	1.2	3
783	Unique nature of the lowest Landau level in finite graphene samples with zigzag edges: Dirac electrons with mixed bulk-edge character. Physical Review B, 2011, 83, .	1.1	22
784	Conductance of bilayer graphene in the presence of a magnetic field: Effect of disorder. Physical Review B, 2011, 83, .	1.1	19

#	ARTICLE	IF	CITATIONS
785	The destruction of Landau levels in graphene nanoribbons by magnetic modulation. <i>Journal of Applied Physics</i> , 2011, 110, 063718.	1.1	0
786	Graphene/GaN Schottky diodes: Stability at elevated temperatures. <i>Applied Physics Letters</i> , 2011, 99, 102102.	1.5	111
787	Electronic structure and transport of a carbon chain between graphene nanoribbon leads. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 025302.	0.7	30
788	Novel Growth Mechanism of Epitaxial Graphene on Metals. <i>Nano Letters</i> , 2011, 11, 2092-2095.	4.5	76
789	Preparation of Quasi-Free-Standing Graphene with a Super Large Interlayer Distance by Methane Intercalation. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20538-20545.	1.5	9
790	Growth of Bilayer Graphene on Insulating Substrates. <i>ACS Nano</i> , 2011, 5, 8187-8192.	7.3	269
792	Top down method for synthesis of highly conducting graphene by exfoliation of graphite oxide using focused solar radiation. <i>Journal of Materials Chemistry</i> , 2011, 21, 6800.	6.7	158
793	Optical excitations in carbon nanoscrolls. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 6138.	1.3	15
794	Post Si CMOS graphene nanoelectronics. , 2011, , .		2
795	Sign-changeable spin-filter efficiency and giant magnetoresistance in seamless graphene nanoribbon junctions. <i>Computational Materials Science</i> , 2011, 50, 2886-2890.	1.4	6
796	2D materials: to graphene and beyond. <i>Nanoscale</i> , 2011, 3, 20-30.	2.8	1,395
797	Nobel Lecture: Graphene: Materials in the Flatland. <i>Reviews of Modern Physics</i> , 2011, 83, 837-849.	16.4	708
798	Long-Range Ordered Single-Crystal Graphene on High-Quality Heteroepitaxial Ni Thin Films Grown on MgO(111). <i>Nano Letters</i> , 2011, 11, 79-84.	4.5	141
799	Zero-mode anomalies of massless Dirac electron in graphene. <i>Journal of Applied Physics</i> , 2011, 109, 102401.	1.1	20
800	Water-dispersible magnetite-graphene-LDH composites for efficient arsenate removal. <i>Journal of Materials Chemistry</i> , 2011, 21, 17353.	6.7	240
801	Electronic properties of graphene in a strong magnetic field. <i>Reviews of Modern Physics</i> , 2011, 83, 1193-1243.	16.4	759
802	Graphene and graphene-based nanomaterials: the promising materials for bright future of electroanalytical chemistry. <i>Analyst, The</i> , 2011, 136, 4631.	1.7	140
803	Transfer of CVD-Grown Monolayer Graphene onto Arbitrary Substrates. <i>ACS Nano</i> , 2011, 5, 6916-6924.	7.3	1,258

#	ARTICLE	IF	CITATIONS
804	Graphene-based electrochemical energy conversion and storage: fuel cells, supercapacitors and lithium ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 15384.	1.3	488
805	Graphene on Ir(111) characterized by angle-resolved photoemission. <i>Physical Review B</i> , 2011, 84, .	1.1	97
806	Rb and Cs deposition on epitaxial graphene grown on 6H-SiC(0001). <i>Surface Science</i> , 2011, 605, 1918-1922.	0.8	52
807	Tuning the electronic properties of monolayer graphene by the periodic aligned graphene nanoribbons. <i>Synthetic Metals</i> , 2011, 161, 489-495.	2.1	3
808	Growth of Single Crystal Graphene Arrays by Locally Controlling Nucleation on Polycrystalline Cu Using Chemical Vapor Deposition. <i>Advanced Materials</i> , 2011, 23, 4898-4903.	11.1	172
809	Growth of Graphene from Food, Insects, and Waste. <i>ACS Nano</i> , 2011, 5, 7601-7607.	7.3	454
810	Evaluation Criteria for Reduced Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11327-11335.	1.5	451
812	Electronic Properties of Multilayer Graphene. <i>Nanoscience and Technology</i> , 2011, , 325-356.	1.5	1
813	Epitaxial Graphene on SiC(0001). <i>Nanoscience and Technology</i> , 2011, , 135-159.	1.5	1
814	GRAPHENE: SYNTHESIS, FUNCTIONALIZATION AND PROPERTIES. <i>International Journal of Modern Physics B</i> , 2011, 25, 4107-4143.	1.0	25
815	Graphene: Status and prospects as a microwave material. , 2011, , .		1
816	Diels-Alder Chemistry of Graphite and Graphene: Graphene as Diene and Dienophile. <i>Journal of the American Chemical Society</i> , 2011, 133, 3324-3327.	6.6	253
817	Symmetry and Lattice Dynamics. , 0, , .		3
818	Electrical Conductivity of Melt Compounded Functionalized Graphene Sheets Filled Polyethyleneterephthalate Composites. , 0, , .		1
819	Structural Analysis and Direct Imaging of Rotational Stacking Faults in Few-Layer Graphene Synthesized from Solid Botanical Precursor. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 070106.	0.8	4
820	Charged impurity scattering in graphenes: Effects of environmental screening, band gap, and AA stacking. <i>Journal of Physics: Conference Series</i> , 2011, 302, 012015.	0.3	14
821	Graphene: Synthesis, Functionalization and Properties. , 2011, , 1-32.		1
822	Bilayer Graphene with Long-Range Scatterers Studied in a Self-Consistent Born Approximation. <i>Journal of the Physical Society of Japan</i> , 2011, 80, 014707.	0.7	19

#	ARTICLE	IF	CITATIONS
823	Theoretical Study of Population Inversion in Graphene under Pulse Excitation. Japanese Journal of Applied Physics, 2011, 50, 070116.	0.8	20
824	âfŽãf¼ãf™ãf«ç%©ç†ã†è³žéè€fãĒæ%¹â^â®çš,,ã«. Nature Digest, 2011, 8, 2-3.	0.0	0
825	Single-layer MoS2 transistors. Nature Nanotechnology, 2011, 6, 147-150.	15.6	12,612
826	Flat transistors get off the ground. Nature Nanotechnology, 2011, 6, 135-136.	15.6	58
827	Giant Faraday rotation in single- and multilayer graphene. Nature Physics, 2011, 7, 48-51.	6.5	521
828	Surface morphology of flux-grown graphite single crystals. Doklady Physical Chemistry, 2011, 441, 230-232.	0.2	1
829	Industry-compatible graphene transistors. Nature, 2011, 472, 41-42.	13.7	87
830	DIY eye. Nature, 2011, 472, 42-43.	13.7	22
831	Exact diagonalization of Landau levels in Bernal graphite. Solid State Communications, 2011, 151, 1410-1414.	0.9	1
832	First principles calculations of armchair graphene nanoribbons interacting with Cu atoms. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 44, 75-79.	1.3	28
833	Epoxy-Graphene UV-cured nanocomposites. Polymer, 2011, 52, 4664-4669.	1.8	142
834	Fabrication and Characterization of an Epitaxial Graphene Nanoribbon-Based Field-Effect Transistor. IEEE Transactions on Electron Devices, 2011, 58, 1594-1596.	1.6	24
835	Mechanical characterization of nanoindented graphene via molecular dynamics simulations. Nanoscale Research Letters, 2011, 6, 481.	3.1	23
836	Selective synthesis of carbon nanotubes and multi-layer graphene by controlling catalyst thickness. Chemical Physics Letters, 2011, 514, 294-300.	1.2	31
837	Dependence of transport property of graphene nanoribbon on contacts: Electronâ€‘hole symmetry and conductance at the Dirac point. Chemical Physics Letters, 2011, 516, 225-229.	1.2	21
838	Tailoring Electronic Properties of Graphene by ĨĒĤĤ Stacking with Aromatic Molecules. Journal of Physical Chemistry Letters, 2011, 2, 2897-2905.	2.1	255
839	Structural Defects in Graphene. ACS Nano, 2011, 5, 26-41.	7.3	2,818
840	Epitaxial graphene three-terminal junctions. Applied Physics Letters, 2011, 99, .	1.5	19

#	ARTICLE	IF	CITATIONS
841	Graphene Formation by Decomposition of C ₆₀ . Journal of Physical Chemistry C, 2011, 115, 7472-7476.	1.5	29
842	Modeling of the steady state characteristics of large-area graphene field-effect transistors. Journal of Applied Physics, 2011, 110, .	1.1	38
843	Probing plasmons in graphene by resonance energy transfer. Physical Review B, 2011, 84, .	1.1	38
844	Graphene field-effect transistors. Journal Physics D: Applied Physics, 2011, 44, 313001.	1.3	116
845	Carrier Relaxation in Epitaxial Graphene Photoexcited Near the Dirac Point. Physical Review Letters, 2011, 107, 237401.	2.9	269
846	Ultrafast Relaxation Dynamics in Graphene Oxide: Evidence of Electron Trapping. Journal of Physical Chemistry C, 2011, 115, 19110-19116.	1.5	95
847	Electronic states in epitaxial graphene fabricated on silicon carbide. Semiconductors, 2011, 45, 1070-1076.	0.2	18
848	Negative differential conductivity of bigraphene controlled by an external voltage in a magnetic field. Physics of the Solid State, 2011, 53, 1694-1698.	0.2	1
849	Raman spectroscopy of graphene and carbon nanotubes. Advances in Physics, 2011, 60, 413-550.	35.9	797
850	Graphene Growth by a Metal-Catalyzed Solid-State Transformation of Amorphous Carbon. ACS Nano, 2011, 5, 1529-1534.	7.3	151
851	Electronic transport in two-dimensional graphene. Reviews of Modern Physics, 2011, 83, 407-470.	16.4	2,857
852	GRAPHENE: SYNTHESIS, FUNCTIONALIZATION AND PROPERTIES. Modern Physics Letters B, 2011, 25, 427-451.	1.0	39
853	New directions in science and technology: two-dimensional crystals. Reports on Progress in Physics, 2011, 74, 082501.	8.1	206
854	Electronic Transport in Graphene Heterostructures. Annual Review of Condensed Matter Physics, 2011, 2, 101-120.	5.2	92
855	Bi- and trilayer graphene solutions. Nature Nanotechnology, 2011, 6, 439-445.	15.6	337
856	Zigzag graphene nanoribbon edge reconstruction with Stone-Wales defects. Physical Review B, 2011, 84, .	1.1	65
857	Synthesis and nanofluid application of silver nanoparticles decorated graphene. Journal of Materials Chemistry, 2011, 21, 9702.	6.7	193
858	Grain boundary loops in graphene. Physical Review B, 2011, 83, .	1.1	167

#	ARTICLE	IF	CITATIONS
859	Reducing Graphene Oxide via Hydroxylamine: A Simple and Efficient Route to Graphene. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11957-11961.	1.5	304
860	Growth of graphene and graphite nanocrystals from a molten phase. <i>Journal of Materials Science</i> , 2011, 46, 6255-6263.	1.7	36
861	Modification of Graphene Platelets and their Tribological Properties as a Lubricant Additive. <i>Tribology Letters</i> , 2011, 41, 209-215.	1.2	421
862	Noncovalent wrapping of chemically modified graphene with π -conjugated disk-like molecules. <i>Colloid and Polymer Science</i> , 2011, 289, 925-932.	1.0	37
863	Hydrazine reduced exfoliated graphene/graphene oxide layers and magnetoconductance measurements of Ge-supported graphene layers. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 103, 395-402.	1.1	32
864	Stability and electronic states of NC ₃ nanoribbons. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 104, 55-60.	1.1	5
865	Large single-crystal monolayer graphene by decomposition of methanol. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 105, 31-37.	1.1	5
866	Magneto-electronic properties of rhombohedral trilayer graphene: Peierls tight-binding model. <i>Annals of Physics</i> , 2011, 326, 721-739.	1.0	11
867	Agglomeration effects of thin metal catalyst on graphene film synthesized by chemical vapor deposition. <i>Electronic Materials Letters</i> , 2011, 7, 261-264.	1.0	17
868	Synthesis of large-area, few-layer graphene on iron foil by chemical vapor deposition. <i>Nano Research</i> , 2011, 4, 1208-1214.	5.8	120
869	Multidimensional characterization, Landau levels and Density of States in epitaxial graphene grown on SiC substrates. <i>Nanoscale Research Letters</i> , 2011, 6, 141.	3.1	5
870	Multiscale investigation of graphene layers on 6H-SiC(000-1). <i>Nanoscale Research Letters</i> , 2011, 6, 171.	3.1	17
871	Study on the giant positive magnetoresistance and Hall effect in ultrathin graphite flakes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 1252-1258.	0.8	9
872	Growth temperature dependence of the electrical and structural properties of epitaxial graphene on SiC(0001). <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 1908-1914.	0.7	13
873	Substrate induced bandgap in multilayer epitaxial graphene on the 4H-SiC (0001) surface. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 1690-1695.	0.7	6
874	Graphene-Based Materials: Synthesis, Characterization, Properties, and Applications. <i>Small</i> , 2011, 7, 1876-1902.	5.2	2,239
875	Effect of Nitrophenyl Functionalization on the Magnetic Properties of Epitaxial Graphene. <i>Small</i> , 2011, 7, 1175-1180.	5.2	65
876	Chemical Preparation of Graphene-Based Nanomaterials and Their Applications in Chemical and Biological Sensors. <i>Small</i> , 2011, 7, 2413-2427.	5.2	245

#	ARTICLE	IF	CITATIONS
877	Automated detection and characterization of graphene and few-layer graphite via Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 286-293.	1.2	28
878	Transparent and Conductive Graphene Oxide/Poly(ethylene glycol) diacrylate Coatings Obtained by Photopolymerization. <i>Macromolecular Materials and Engineering</i> , 2011, 296, 401-407.	1.7	49
879	Carbide-Derived Carbons From Porous Networks to Nanotubes and Graphene. <i>Advanced Functional Materials</i> , 2011, 21, 810-833.	7.8	585
880	Triangular Graphene Grain Growth on Cube-Textured Cu Substrates. <i>Advanced Functional Materials</i> , 2011, 21, 3868-3874.	7.8	31
881	The Potential of Perylene Bisimide Derivatives for the Solubilization of Carbon Nanotubes and Graphene. <i>Advanced Materials</i> , 2011, 23, 2588-2601.	11.1	92
882	Carbon Materials for Chemical Capacitive Energy Storage. <i>Advanced Materials</i> , 2011, 23, 4828-4850.	11.1	2,593
883	Room-Temperature Compression-Induced Diamondization of Few-Layer Graphene. <i>Advanced Materials</i> , 2011, 23, 3014-3017.	11.1	124
884	Graphene: Piecing it Together. <i>Advanced Materials</i> , 2011, 23, 4471-4490.	11.1	127
885	Growth of Few-Layer Graphene on a Thin Cobalt Film on a Si/SiO ₂ Substrate. <i>Chemical Vapor Deposition</i> , 2011, 17, 9-14.	1.4	38
887	Graphene: Materials in the Flatland (Nobel Lecture). <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6986-7002.	7.2	172
888	Structure, energy, and structural transformations of graphene grain boundaries from atomistic simulations. <i>Carbon</i> , 2011, 49, 2306-2317.	5.4	137
889	Efficient synthesis of graphene sheets using pyrrole as a reducing agent. <i>Carbon</i> , 2011, 49, 3497-3502.	5.4	201
890	Growth of large-sized graphene thin-films by liquid precursor-based chemical vapor deposition under atmospheric pressure. <i>Carbon</i> , 2011, 49, 3672-3678.	5.4	158
891	The production of SiC nanowalls sheathed with a few layers of strained graphene and their use in heterogeneous catalysis and sensing applications. <i>Carbon</i> , 2011, 49, 4911-4919.	5.4	31
892	Electronic properties of rhombohedral graphite. <i>Computer Physics Communications</i> , 2011, 182, 77-80.	3.0	6
893	Ab initio LC-DFT study of graphene, multilayer graphenes and graphite. <i>Chemical Physics Letters</i> , 2011, 508, 86-89.	1.2	25
894	Application of the quantum Hall effect to resistance metrology. <i>Comptes Rendus Physique</i> , 2011, 12, 347-368.	0.3	9
895	New synthesis method for the growth of epitaxial graphene. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2011, 184, 100-106.	0.8	79

#	ARTICLE	IF	CITATIONS
896	Carbonaceous nanomaterials for the enhancement of TiO ₂ photocatalysis. Carbon, 2011, 49, 741-772.	5.4	1,069
897	Unit cell dependence of optical matrix elements in tight-binding theory: The case of zigzag graphene nanoribbons. Physica B: Condensed Matter, 2011, 406, 3538-3543.	1.3	9
898	A molecular simulation of interactions between graphene nanosheets and supercritical CO ₂ . Journal of Colloid and Interface Science, 2011, 361, 1-8.	5.0	48
899	Monolayer graphene from a green solid precursor. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 1490-1493.	1.3	41
900	Voltage-driven electronic transport and shot noise in armchair graphene nanoribbons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 2670-2675.	0.9	5
901	Graphene based materials: Past, present and future. Progress in Materials Science, 2011, 56, 1178-1271.	16.0	3,063
902	Influence of copper crystal surface on the CVD growth of large area monolayer graphene. Solid State Communications, 2011, 151, 509-513.	0.9	189
903	Dynamics of Dirac quasi-particles in lattice vibration and anomalous phonon frequency shift of graphene. Solid State Communications, 2011, 151, 785-789.	0.9	1
904	Engineering and metrology of epitaxial graphene. Solid State Communications, 2011, 151, 1094-1099.	0.9	23
905	Structural analysis of PTCDA monolayers on epitaxial graphene with ultra-high vacuum scanning tunneling microscopy and high-resolution X-ray reflectivity. Surface Science, 2011, 605, 1685-1693.	0.8	58
906	Adsorption and desorption of fullerene on graphene/SiC(0001). Surface Science, 2011, 605, 649-653.	0.8	3
907	Hydrogen intercalation of graphene grown on 6H-SiC(0001). Surface Science, 2011, 605, 1662-1668.	0.8	94
908	Formation of wide and atomically flat graphene layers on ultraprecision-figured 4H-SiC(0001) surfaces. Surface Science, 2011, 605, 597-605.	0.8	26
909	Nano-structures developing at the graphene/silicon carbide interface. Surface Science, 2011, 605, L6-L11.	0.8	7
910	Terahertz ellipsometry and terahertz optical-Hall effect. Thin Solid Films, 2011, 519, 2593-2600.	0.8	46
911	Combined effect of quantum size and disorder in a two-dimensional armchair graphene nanoribbon with s-wave pairing. Journal of Physics Condensed Matter, 2011, 23, 295301.	0.7	2
912	Ultra-thin membranes for sensor applications. , 2011, , 330-354.		7
913	Hole-channel conductivity in epitaxial graphene determined by terahertz optical-Hall effect and midinfrared ellipsometry. Applied Physics Letters, 2011, 98, .	1.5	39

#	ARTICLE	IF	CITATIONS
914	Polariton enhanced infrared reflection of epitaxial graphene. Journal of Applied Physics, 2011, 110, .	1.1	22
915	Signatures of evanescent mode transport in graphene. Physical Review B, 2011, 84, .	1.1	6
916	Zippering and unzipping of nanoscale carbon structures. Physical Review B, 2011, 83, .	1.1	9
917	Carrier Scattering from Dynamical Magnetoconductivity in Quasineutral Epitaxial Graphene. Physical Review Letters, 2011, 107, 216603.	2.9	57
918	Perspective: The dawning of the age of graphene. Journal of Chemical Physics, 2011, 135, 050901.	1.2	31
919	Large area quasi-free standing monolayer graphene on 3C-SiC(111). Applied Physics Letters, 2011, 99, .	1.5	62
920	Topological view on magnetic adatoms in graphene. Physical Review B, 2011, 83, .	1.1	4
921	Magneto-optics of bilayer inclusions in multilayered epitaxial graphene on the carbon face of SiC. Physical Review B, 2011, 83, .	1.1	34
922	Illuminating the dark corridor in graphene: Polarization dependence of angle-resolved photoemission spectroscopy on graphene. Physical Review B, 2011, 83, .	1.1	87
923	Gated adatoms on graphene studied with first-principles calculations. Physical Review B, 2011, 83, .	1.1	49
924	Charge trapping and scattering in epitaxial graphene. Physical Review B, 2011, 84, .	1.1	62
925	Broadband microwave and time-domain terahertz spectroscopy of chemical vapor deposition grown graphene. Journal of Applied Physics, 2011, 110, 083510.	1.1	28
926	Amorphous interface layer in thin graphite films grown on the carbon face of SiC. Applied Physics Letters, 2011, 99, 101904.	1.5	15
927	Hydrofluorinated graphene: Two-dimensional analog of polyvinylidene fluoride. Physical Review B, 2011, 84, .	1.1	48
928	Electronic properties of the graphene/6H-SiC(0001) interface: A first-principles study. Physical Review B, 2011, 84, .	1.1	28
929	Influence of the silicon carbide surface morphology on the epitaxial graphene formation. Applied Physics Letters, 2011, 99, 111901.	1.5	52
930	Unintentional doping induced splitting of G peak in bilayer graphene. Applied Physics Letters, 2011, 99, 233110.	1.5	16
931	Magnetization profile for impurities in graphene nanoribbons. Physical Review B, 2011, 84, .	1.1	20

#	ARTICLE	IF	CITATIONS
932	RF characterization of epitaxial graphene nano ribbon field effect transistor. , 2011, , .		3
933	Stability of the Bulk Phase of Layered ZnO. Physical Review Letters, 2011, 107, 085508.	2.9	35
934	Probing residual strain in epitaxial graphene layers on 4H-SiC(0001 \hat{A}) with Raman spectroscopy. Applied Physics Letters, 2011, 98, 051910.	1.5	18
935	Surface morphology and transport studies of epitaxial graphene on SiC(0001 \hat{I} ²). Physical Review B, 2011, 83, .	1.1	10
936	Enhanced photosensitivity of electro-oxidized epitaxial graphene. Applied Physics Letters, 2011, 98, .	1.5	21
937	Controlling the self-doping of epitaxial graphene on SiC via Ar ion treatment. Physical Review B, 2011, 84, .	1.1	23
938	Magnetic adatoms on graphene in the Kondo regime: An Anderson model treatment. Physical Review B, 2011, 84, .	1.1	16
939	Abnormal electron paths induced by Klein tunneling in graphene quantum point contacts. Physical Review B, 2011, 84, .	1.1	14
940	Enhanced optical conductivity induced by surface states in ABC-stacked few-layer graphene. Physical Review B, 2011, 83, .	1.1	17
941	<i>In situ</i> doping of graphene by exfoliation in a nitrogen ambient. Applied Physics Letters, 2011, 98, .	1.5	26
942	Epitaxial growth and characterization of graphene on free-standing polycrystalline 3C-SiC. Journal of Applied Physics, 2011, 110, 014308.	1.1	22
943	Metal-catalyzed graphitization in Ni-C alloys and amorphous-C/Ni bilayers. Materials Research Society Symposia Proceedings, 2011, 1284, 39.	0.1	0
944	Direct graphene growth on MgO(111) by physical vapor deposition: interfacial chemistry and band gap formation. , 2011, , .		6
945	Weak Localization and Universal Conductance Fluctuations on Epitaxial Graphene Grown on the C-Face of 8 \hat{A} °off-Axis 4H-SiC Substrates. Advanced Materials Research, 0, 324, 269-272.	0.3	1
946	Transport Properties of Graphene with Nanoscale Lateral Resolution. Nanoscience and Technology, 2011, , 247-285.	1.5	9
947	Electronic structures and transport properties of BN nanodot superlattices of armchair graphene nanoribbons. Journal of Semiconductors, 2011, 32, 092002.	2.0	3
948	Epitaxial graphene: A new electronic material for the 21st century. MRS Bulletin, 2011, 36, 632-639.	1.7	22
949	The free-electron laser as a tool for time-resolved, nonlinear, and near-field spectroscopy. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
950	GRAPHENE: MATERIALS IN THE FLATLAND. International Journal of Modern Physics B, 2011, 25, 4081-4106.	1.0	21
951	THE EINSTEIN-BRILLOUIN-KELLER ACTION QUANTIZATION FOR DIRAC FERMIONS. Modern Physics Letters B, 2011, 25, 537-549.	1.0	4
952	PROBING SINGLE AND BILAYER GRAPHENE FIELD EFFECT TRANSISTORS BY RAMAN SPECTROSCOPY. Modern Physics Letters B, 2011, 25, 511-535.	1.0	16
953	The effect of a transverse electric field on the electronic properties of an armchair carbon nanoscroll. Philosophical Magazine, 2011, 91, 1557-1567.	0.7	9
954	Nature of Graphene Edges: A Review. Japanese Journal of Applied Physics, 2011, 50, 070101.	0.8	121
955	Electronic Properties of Defect-Free and Defective Bilayer Graphene in an Electric Field. Fullerenes Nanotubes and Carbon Nanostructures, 2011, 19, 532-539.	1.0	22
956	Triplet states of zigzag edged hexagonal graphene molecules $C_{6m}H_{6m}$ ($m=1, 2, 3, \dots, 10$) and carbon based magnetism. Journal of Chemical Physics, 2011, 134, 124706.	1.2	12
957	Mechanism of atomic-scale passivation and flattening of semiconductor surfaces by wet-chemical preparations. Journal of Physics Condensed Matter, 2011, 23, 394202.	0.7	6
958	Structure and stability of the interface between graphene and 6H-SiC(0001) (3Å-Å3): an STM and ab initio study. Journal Physics D: Applied Physics, 2012, 45, 154003.	1.3	14
959	Versatile Graphene-Based Nano-Bio Probe Design and Its Application. Springer Briefs in Molecular Science, 2012, , 27-38.	0.1	0
960	Diffusion of Si and C atoms on and between graphene layers. Journal Physics D: Applied Physics, 2012, 45, 455309.	1.3	20
961	Solar Cells. , 2012, , 2459-2459.		0
962	SEMICONDUCTING GRAPHENE. Nano LIFE, 2012, 02, 1230009.	0.6	5
963	The structure of graphene grown on the SiC surface. Journal Physics D: Applied Physics, 2012, 45, 154002.	1.3	33
964	Local Solid Phase Epitaxy of Few-Layer Graphene on Silicon Carbide. Materials Science Forum, 0, 717-720, 629-632.	0.3	3
965	Electrical Characterization of the Graphene-SiC Heterojunction. Materials Science Forum, 2012, 717-720, 641-644.	0.3	0
966	Thermo-chemical metastability of multilayer epitaxial graphene oxide: Experiments and density functional theory calculations. Materials Research Society Symposia Proceedings, 2012, 1451, 39-44.	0.1	0
968	Molecular dynamics study of temperature-dependent ripples in monolayer and bilayer graphene on 6H-SiC surfaces. Chinese Physics B, 2012, 21, 066803.	0.7	2

#	ARTICLE	IF	CITATIONS
969	Electronic and Structural Properties of Turbostratic Epitaxial Graphene on the 6H-SiC (000-1) Surface. Materials Science Forum, 0, 717-720, 595-600.	0.3	4
970	Many-electron effects on optical absorption spectra of strained graphene. Journal of Materials Research, 2012, 27, 403-409.	1.2	10
971	Improvement of carrier mobility of top-gated SiC epitaxial graphene transistors using a PVA dielectric buffer layer. Nanotechnology, 2012, 23, 335202.	1.3	6
972	Ab initio study of Ru-terminated and Ru-doped armchair graphene nanoribbons. Molecular Physics, 2012, 110, 2295-2300.	0.8	14
973	Adsorption and diffusion of gold adatoms on boron nitride nanoribbons: A first-principles study. Journal of Applied Physics, 2012, 112, .	1.1	5
974	Effect of disorder with long-range correlation on transport in graphene nanoribbon. Journal of Physics Condensed Matter, 2012, 24, 235303.	0.7	5
975	Influence of structural properties on ballistic transport in nanoscale epitaxial graphene cross junctions. Nanotechnology, 2012, 23, 395203.	1.3	4
976	Vacuum Annealing Formation of Graphene on Diamond C(111) Surfaces Studied by Real-Time Photoelectron Spectroscopy. Japanese Journal of Applied Physics, 2012, 51, 11PF02.	0.8	21
977	Effect of functionalization on the electrostatic charging, tunneling, and Raman spectroscopy of epitaxial graphene. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2012, 30, 03D103.	0.6	1
978	Quantum Hall effect in bottom-gated epitaxial graphene grown on the C-face of SiC. Applied Physics Letters, 2012, 100, .	1.5	20
979	Low-temperature formation of epitaxial graphene on 6H-SiC induced by continuous electron beam irradiation. Applied Physics Letters, 2012, 101, 092105.	1.5	11
980	The influence of substrate morphology on thickness uniformity and unintentional doping of epitaxial graphene on SiC. Applied Physics Letters, 2012, 100, .	1.5	45
981	Large room-temperature quantum linear magnetoresistance in multilayered epitaxial graphene: Evidence for two-dimensional magnetotransport. Applied Physics Letters, 2012, 101, .	1.5	42
982	Epitaxial graphene on SiC(0001 \bar{A}): Stacking order and interfacial structure. Applied Physics Letters, 2012, 100, 031904.	1.5	11
983	A graphene electron lens. Applied Physics Letters, 2012, 100, 153106.	1.5	7
984	Photoresponse in epitaxial graphene with asymmetric metal contacts. Applied Physics Letters, 2012, 100, .	1.5	18
985	Origins of the short channel effects increase in III-V nMOSFET technologies. , 2012, , .		6
986	First-principles study of hydrogen and fluorine intercalation into graphene-SiC(0001) interface. Physical Review B, 2012, 86, .	1.1	33

#	ARTICLE	IF	CITATIONS
987	Graphene functionalization and seeding for dielectric deposition and device integration. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2012, 30, 030801.	0.6	31
988	Infrared magnetospectroscopy of graphite in tilted fields. Physical Review B, 2012, 86, .	1.1	8
989	Contactless microwave studies of weak localization in epitaxial graphene. Physical Review B, 2012, 86, .	1.1	10
990	Anisotropic quantum Hall effect in epitaxial graphene on stepped SiC surfaces. Physical Review B, 2012, 85, .	1.1	38
991	Changes in structural and electronic properties of graphene grown on 6H-SiC(0001) induced by Na deposition. Journal of Applied Physics, 2012, 111, .	1.1	45
992	Repulsive van der Waals forces due to hydrogen exposure on bilayer graphene. Physical Review A, 2012, 85, .	1.0	23
993	Conductance fluctuations in graphene systems: The relevance of classical dynamics. Physical Review B, 2012, 85, .	1.1	17
994	High Island Densities and Long Range Repulsive Interactions: Fe on Epitaxial Graphene. Physical Review Letters, 2012, 109, 026103.	2.9	40
995	Carbon rehybridization at the graphene/SiC(0001) interface: Effect on stability and atomic-scale corrugation. Physical Review B, 2012, 85, .	1.1	32
996	Chiral tunneling in trilayer graphene. Applied Physics Letters, 2012, 100, 163102.	1.5	22
997	Direct graphene growth on Co ₃ O ₄ (111) by molecular beam epitaxy. Journal of Physics Condensed Matter, 2012, 24, 072201.	0.7	18
998	Graphene Oxide and its Applications in Catalysis. Advanced Materials Research, 0, 476-478, 1488-1495.	0.3	3
999	Epitaxial growth mechanisms of graphene and effects of substrates. Physical Review B, 2012, 85, .	1.1	39
1000	Resonant Excitation of GrapheneK-Phonon and Intra-Landau-Level Excitons in Magneto-Optical Spectroscopy. Physical Review Letters, 2012, 108, 247401.	2.9	11
1001	In situ near-edge x-ray absorption fine structure spectroscopy investigation of the thermal defunctionalization of graphene oxide. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2012, 30, 061206.	0.6	29
1002	Temperature dependence of the thickness and morphology of epitaxial graphene grown on SiC (0001) wafers. Chinese Physics B, 2012, 21, 046801.	0.7	5
1003	RF Performance Projections of Graphene FETs vs. Silicon MOSFETs. ECS Solid State Letters, 2012, 1, Q39-Q41.	1.4	24
1004	Tm-doped fiber laser mode-locked by graphene-polymer composite. Optics Express, 2012, 20, 25077.	1.7	272

#	ARTICLE	IF	CITATIONS
1006	Epitaxial graphene on silicon carbide: Introduction to structured graphene. MRS Bulletin, 2012, 37, 1138-1147.	1.7	56
1007	CVD-Graphene Complementary Logic on Ultra-thin Multilayer Hexagonal Boron Nitride. Materials Research Society Symposia Proceedings, 2012, 1407, 151.	0.1	0
1008	Experimental Review of Graphene. , 2012, 2012, 1-56.		404
1009	Growth of large domain epitaxial graphene on the C-face of SiC. Journal of Applied Physics, 2012, 112, .	1.1	20
1010	Effect of chaos on relativistic quantum tunneling. Europhysics Letters, 2012, 98, 50007.	0.7	13
1011	Electronic and magnetic properties of oxygen patterned graphene superlattice. Journal of Applied Physics, 2012, 112, .	1.1	10
1012	Nanoscale Control of Structural and Electronic Properties of Graphene through Substrate Interaction. Hyomen Kagaku, 2012, 33, 546-551.	0.0	0
1013	Diagonalization of Landau Level Spectra in Rhombohedral Graphite. Journal of the Physical Society of Japan, 2012, 81, 024701.	0.7	9
1014	Role of atomic terraces and steps in the electron transport properties of epitaxial graphene grown on SiC. AIP Advances, 2012, 2, .	0.6	21
1015	Graphene carbon nanostructures for nanoelectronics. , 2012, , 198-242.		2
1016	Molecular interactions on epitaxial graphene. Physica Scripta, 2012, T146, 014007.	1.2	8
1017	Graphene Photonics and Optoelectronics. , 2012, , .		28
1018	Synthesis of patterned nanographene on insulators from focused ion beam induced deposition of carbon. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2012, 30, 03D113.	0.6	7
1019	Theoretical aspects of the fractional quantum Hall effect in graphene. Physica Scripta, 2012, T146, 014017.	1.2	6
1020	Single Atom Microscopy. Microscopy and Microanalysis, 2012, 18, 1342-1354.	0.2	63
1021	Diamagnetism of Graphene with Gap in Nonuniform Magnetic Field. Journal of the Physical Society of Japan, 2012, 81, 024702.	0.7	13
1022	Shape-Controlled Synthesis of Platinum Nanostructures as Electrocatalyst for PEM Fuel Cell Applications. , 2012, , 415-492.		0
1023	Direct Determination of the Chemical Bonding of Individual Impurities in Graphene. Physical Review Letters, 2012, 109, 206803.	2.9	222

#	ARTICLE	IF	CITATIONS
1024	Reversible Defect in Graphene Investigated by Tip-Enhanced Raman Spectroscopy. <i>Plasmonics</i> , 2012, 7, 555-561.	1.8	40
1025	Constructing Ternary CdS@Graphene@TiO ₂ Hybrids on the Flatland of Graphene Oxide with Enhanced Visible-Light Photoactivity for Selective Transformation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 18023-18031.	1.5	306
1026	A rapid room temperature chemical route for the synthesis of graphene: metal-mediated reduction of graphene oxide. <i>Chemical Communications</i> , 2012, 48, 1787.	2.2	166
1027	Nanocrystalline and Disordered Carbon Materials. , 2012, , 675-706.		3
1028	Methods of graphite exfoliation. <i>Journal of Materials Chemistry</i> , 2012, 22, 24992.	6.7	447
1029	Growth and electronic structure of nitrogen-doped graphene on Ni(111). <i>Physical Review B</i> , 2012, 86, .	1.1	77
1030	Strain engineering in suspended graphene devices for pressure sensor applications. , 2012, , .		13
1031	Facile Method to Functionalize Graphene Oxide and Its Application to Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 462	4.0	150
1032	Analytical models for the frequency response of multi-layer graphene nanoribbon interconnects. , 2012, , .		11
1033	siRNA Delivery. , 2012, , 2429-2429.		0
1034	Glucose sensor based on an electrochemical reduced graphene oxide-poly(L-lysine) composite film modified GC electrode. <i>Analyst</i> , The, 2012, 137, 5716.	1.7	52
1035	Graphene applications in electronics and photonics. <i>MRS Bulletin</i> , 2012, 37, 1225-1234.	1.7	186
1036	Dispersible Graphene Oxide@Polymer Nanocomposites. <i>RSC Nanoscience and Nanotechnology</i> , 2012, , 179-210.	0.2	4
1037	Fabrication and Electrochemical Characterization of Single and Multi-Layer Graphene Anodes for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2012, 159, A752-A761.	1.3	46
1038	Functionalization and Reduction of Graphene Oxide with <i>p</i> -Phenylene Diamine for Electrically Conductive and Thermally Stable Polystyrene Composites. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 1948-1953.	4.0	195
1039	Advances in the chemical modification of epitaxial graphene. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 154009.	1.3	103
1040	Synthesis of acid-soluble graphene and its use in producing a reduced graphene oxide@poly(benzobisoxazole) composite. <i>Journal of Materials Chemistry</i> , 2012, 22, 12381.	6.7	19
1041	Large-Area and High-Quality Epitaxial Graphene on Off-Axis SiC Wafers. <i>ACS Nano</i> , 2012, 6, 6075-6082.	7.3	97

#	ARTICLE	IF	CITATIONS
1042	Molecular beam epitaxy of graphene on mica. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2507-2510.	0.7	9
1043	MoS ₂ Nanosheets for Top-Gate Nonvolatile Memory Transistor Channel. <i>Small</i> , 2012, 8, 3111-3115.	5.2	219
1044	Large-scale preparation of graphene sheets and their easy incorporation with other nanomaterials. <i>Polymer Bulletin</i> , 2012, 69, 899-910.	1.7	5
1045	Structured epitaxial graphene: growth and properties. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 154010.	1.3	36
1046	AN IMPROVED METHOD FOR TRANSFERRING GRAPHENE GROWN BY CHEMICAL VAPOR DEPOSITION. <i>Nano</i> , 2012, 07, 1150001.	0.5	37
1047	Molecular beam growth of graphene nanocrystals on dielectric substrates. <i>Carbon</i> , 2012, 50, 4822-4829.	5.4	34
1048	Carbonaceous field effect transistor with graphene and diamondlike carbon. <i>Diamond and Related Materials</i> , 2012, 22, 118-123.	1.8	21
1049	Substrate grain size and orientation of Cu and Cu-Ni foils used for the growth of graphene films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012, 30, .	0.9	49
1050	Comparison of Epitaxial Graphene Growth on Polar and Nonpolar 6H-SiC Faces: On the Growth of Multilayer Films. <i>Crystal Growth and Design</i> , 2012, 12, 3379-3387.	1.4	30
1051	Structured epitaxial graphene on SiC. , 2012, , .		1
1052	Performance and Energy-per-Bit Modeling of Multilayer Graphene Nanoribbon Conductors. <i>IEEE Transactions on Electron Devices</i> , 2012, 59, 2753-2761.	1.6	87
1053	Molecular Gas Adsorption Induced Carrier Transport Studies of Epitaxial Graphene Using IR Reflection Spectroscopy. <i>Materials Science Forum</i> , 2012, 717-720, 665-668.	0.3	5
1054	Numerical Simulation of the Effect of Crack on the Tensile Mechanical Properties of Graphene. , 2012, , .		2
1055	Reduced graphene oxides by microwave-assisted ionothermal treatment. <i>New Journal of Chemistry</i> , 2012, 36, 1684.	1.4	14
1056	Direct growth of nanographene films by surface wave plasma chemical vapor deposition and their application in photovoltaic devices. <i>RSC Advances</i> , 2012, 2, 3225.	1.7	45
1057	Fast and non-invasive conductivity determination by the dielectric response of reduced graphene oxide: an electrostatic force microscopy study. <i>Nanoscale</i> , 2012, 4, 7231.	2.8	10
1058	Epitaxy of Prestrained Graphene on a Si-Terminated SiC(0001) Surface. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13928-13934.	1.5	2
1059	Edge state effects in junctions with graphene electrodes. <i>Physical Review B</i> , 2012, 86, .	1.1	20

#	ARTICLE	IF	CITATIONS
1060	Device concepts using two-dimensional electronic materials: Graphene, MoS ₂ , etc., 2012, .		1
1061	Graphene oxide mode-locked femtosecond erbium-doped fiber lasers. Optics Express, 2012, 20, 15474.	1.7	183
1062	Probing the electronic structure and optical response of a graphene quantum disk supported on monolayer graphene. Journal of Physics Condensed Matter, 2012, 24, 314213.	0.7	9
1063	Interface Oxidative Structural Transitions in Graphene Growth on SiC (0001). Journal of Physical Chemistry C, 2012, 116, 15342-15347.	1.5	3
1064	Single-layer behavior and slow carrier density dynamic of twisted graphene bilayer. Applied Physics Letters, 2012, 100, .	1.5	21
1065	Graphene Nano-Biosensors for Detection of Cancer Risk. Materials Science Forum, 0, 711, 246-252.	0.3	10
1066	Studies of Li intercalation of hydrogenated graphene on SiC(0001). Surface Science, 2012, 606, 401-406.	0.8	27
1067	In situ synthesis and characterization of conductive polypyrrole/graphene composites with improved solubility and conductivity. Synthetic Metals, 2012, 162, 682-687.	2.1	52
1068	The production of nitrogen-doped graphene from mixed amine plus ethanol flames. Thin Solid Films, 2012, 520, 6850-6855.	0.8	36
1069	Graphene review: An emerging RF technology. , 2012, , .		4
1070	Radio frequency signal detection by ballistic transport in Y-shaped graphene nanoribbons. Applied Physics Letters, 2012, 101, 013502.	1.5	17
1071	Doping of adsorbed graphene from defects and impurities in SiO ₂ substrates. Physical Review B, 2012, 86, .	1.1	44
1072	Graphene-based materials for catalysis. Catalysis Science and Technology, 2012, 2, 54-75.	2.1	882
1073	Solutions of fully exfoliated individual graphene flakes in low boiling point solvents. Soft Matter, 2012, 8, 7882.	1.2	46
1074	Transfer-Free Electrical Insulation of Epitaxial Graphene from its Metal Substrate. Nano Letters, 2012, 12, 4503-4507.	4.5	120
1075	Self-Assembly and Photopolymerization of Sub-2 nm One-Dimensional Organic Nanostructures on Graphene. Journal of the American Chemical Society, 2012, 134, 16759-16764.	6.6	63
1076	Reconstruction of the carbon sp ² network in graphene oxide by low-temperature reaction with CO. Journal of Materials Chemistry, 2012, 22, 51-56.	6.7	26
1077	Oxidized Graphene in Ionic Liquids for Assembling Chemically Modified Electrodes: A Structural and Electrochemical Characterization Study. Analytical Chemistry, 2012, 84, 5823-5831.	3.2	41

#	ARTICLE	IF	CITATIONS
1078	A roadmap for graphene. <i>Nature</i> , 2012, 490, 192-200.	13.7	8,011
1079	Graphene transfer: key for applications. <i>Nanoscale</i> , 2012, 4, 5527.	2.8	405
1080	Ab initio studies of electronic and optical properties of graphene and grapheneâ€“BN interface. <i>Applied Surface Science</i> , 2012, 258, 8338-8342.	3.1	33
1081	Growth of graphene-like thin films at low temperature by dual-frequency capacitively coupled plasma. <i>Applied Surface Science</i> , 2012, 258, 7751-7754.	3.1	5
1082	Graphene/metal oxide composite electrode materials for energy storage. <i>Nano Energy</i> , 2012, 1, 107-131.	8.2	1,669
1083	Growth mode and electric properties of graphene and graphitic phase grown by argonâ€“propane assisted CVD on 3Câ€“SiC/Si and 6Hâ€“SiC. <i>Journal of Crystal Growth</i> , 2012, 349, 27-35.	0.7	27
1084	Electronic properties of bearded graphene nanoribbons. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 1245-1251.	1.9	3
1085	New functionalized graphene sheets for enhanced oxygen reduction as metal-free cathode electrocatalysts. <i>Journal of Power Sources</i> , 2012, 218, 168-173.	4.0	87
1086	Preparation, mechanical and thermal properties of functionalized graphene/polyimide nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 1537-1545.	3.8	159
1087	Exploring graphene as a corrosion protection barrier. <i>Corrosion Science</i> , 2012, 56, 1-4.	3.0	515
1088	Simulation of ripples in single layer graphene sheets and study of their vibrational and elastic properties. <i>Computational Materials Science</i> , 2012, 51, 96-102.	1.4	18
1089	Coupling of a carbon nanotube and graphene nanoribbon by titanium and vanadium chains: a first-principles study. <i>RSC Advances</i> , 2012, 2, 9958.	1.7	3
1090	Graphene: nanoscale processing and recent applications. <i>Nanoscale</i> , 2012, 4, 1824-1839.	2.8	115
1091	Graphene: An Emerging Electronic Material. <i>Advanced Materials</i> , 2012, 24, 5782-5825.	11.1	718
1092	Grapheneâ€“Based Electrodes. <i>Advanced Materials</i> , 2012, 24, 5979-6004.	11.1	829
1093	Highly Airâ€“Stable Phosphorusâ€“Doped nâ€“Type Graphene Fieldâ€“Effect Transistors. <i>Advanced Materials</i> , 2012, 24, 5481-5486.	11.1	195
1094	Lowâ€“Temperature Solidâ€“State Microwave Reduction of Graphene Oxide for Transparent Electrically Conductive Coatings on Flexible Polydimethylsiloxane (PDMS). <i>ChemPhysChem</i> , 2012, 13, 3700-3706.	1.0	22
1095	Synthesis and Applications of Grapheneâ€“Based TiO ₂ Photocatalysts. <i>ChemSusChem</i> , 2012, 5, 1868-1882.	3.6	226

#	ARTICLE	IF	CITATIONS
1096	To the theory of electronic states of epitaxial graphene formed on the surface of a metal substrate. <i>Physics of the Solid State</i> , 2012, 54, 2514-2518.	0.2	8
1097	Direct exfoliation of graphite with a porphyrin " creating functionalizable nanographene hybrids. <i>Chemical Communications</i> , 2012, 48, 8745.	2.2	56
1098	Graphene field-effect transistors. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 019501.	1.3	29
1099	Step like surface potential on few layered graphene oxide. <i>Applied Physics Letters</i> , 2012, 101, 263109.	1.5	21
1100	Local ion irradiation of thin graphene films grown on SiC substrates. <i>Microelectronic Engineering</i> , 2012, 98, 206-209.	1.1	6
1101	Enabling graphene-based technologies: Toward wafer-scale production of epitaxial graphene. <i>MRS Bulletin</i> , 2012, 37, 1149-1157.	1.7	45
1102	Fabrication of graphene based on Q-switched Nd:YAG laser ablation of graphite target in liquid nitrogen. <i>Laser Physics Letters</i> , 2012, 9, 547-552.	0.6	82
1103	Enhanced Lithiation of Doped 6H Silicon Carbide (0001) via High Temperature Vacuum Growth of Epitaxial Graphene. <i>Journal of Physical Chemistry C</i> , 2012, 116, 20949-20957.	1.5	37
1104	Electronic properties of graphene: a perspective from scanning tunneling microscopy and magnetotransport. <i>Reports on Progress in Physics</i> , 2012, 75, 056501.	8.1	220
1105	Small-Angle Scattering. , 2012, , 2437-2437.		0
1106	Side-gate graphene field-effect transistors with high transconductance. <i>Applied Physics Letters</i> , 2012, 101, 093504.	1.5	29
1108	Evidence for interlayer electronic coupling in multilayer epitaxial graphene from polarization-dependent coherently controlled photocurrent generation. <i>Physical Review B</i> , 2012, 85, .	1.1	19
1109	Formation of Epitaxial Graphene. , 2012, , 137-165.		3
1110	Atomic Layer Deposition of Dielectrics on Graphene. , 2012, , 235-257.		0
1111	Graphene-based FETs. , 2012, , .		4
1112	Micro-Raman spectroscopy of graphene grown on stepped 4H-SiC (0001) surface. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	27
1113	Elastic fields and moduli in defected graphene. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 104020.	0.7	44
1114	Disruptive Logic Blocks. , 2012, , 107-143.		0

#	ARTICLE	IF	CITATIONS
1116	Production and processing of graphene and 2d crystals. <i>Materials Today</i> , 2012, 15, 564-589.	8.3	866
1117	Recent progress on graphene-based photocatalysts: current status and future perspectives. <i>Nanoscale</i> , 2012, 4, 5792.	2.8	883
1118	Investigation of the Epitaxial Graphene/p-SiC Heterojunction. <i>IEEE Electron Device Letters</i> , 2012, 33, 1610-1612.	2.2	12
1119	Graphene-based flexible and stretchable thin film transistors. <i>Nanoscale</i> , 2012, 4, 4870.	2.8	135
1120	Covalent chemistry in graphene electronics. <i>Materials Today</i> , 2012, 15, 276-285.	8.3	58
1121	Graphene for radio frequency electronics. <i>Materials Today</i> , 2012, 15, 328-338.	8.3	112
1122	Facile and controllable synthesis of Prussian blue on chitosan-functionalized graphene nanosheets for the electrochemical detection of hydrogen peroxide. <i>Electrochimica Acta</i> , 2012, 81, 37-43.	2.6	74
1123	Structural transformations in chemically modified graphene. <i>Solid State Communications</i> , 2012, 152, 1990-1998.	0.9	10
1124	Transport properties of zigzag graphene nanoribbons with oxygen edge decoration. <i>Organic Electronics</i> , 2012, 13, 2494-2501.	1.4	15
1125	Structural, magnetic, electronic and optical properties of iron cluster (Fe ₆) decorated boron nitride sheet. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 46, 182-188.	1.3	26
1126	Landau levels for relativistic particles: Einstein-Brillouin-Keller quantization approach. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 3525-3529.	0.9	2
1127	Synthesis of conducting transparent few-layer graphene directly on glass at 450°C. <i>Nanotechnology</i> , 2012, 23, 265603.	1.3	21
1128	Silver (Ag)., 2012, , 2420-2420.		0
1130	Nanographene production from platelet carbon nanofiber by supercritical fluid exfoliation. <i>Applied Physics Letters</i> , 2012, 100, 233110.	1.5	16
1131	Electrical characterization of graphene synthesized by chemical vapor deposition using Ni substrate. <i>Nanotechnology</i> , 2012, 23, 015701.	1.3	16
1132	Atomic behavior of carbon atoms on a Si removed 3C-SiC (111) surface during the early stage of epitaxial graphene growth. <i>Journal of Applied Physics</i> , 2012, 111, 104324.	1.1	6
1133	COMPACT FORMULAE FOR NUMBER OF CONDUCTION CHANNELS IN VARIOUS TYPES OF GRAPHENE NANORIBBONS AT VARIOUS TEMPERATURES. <i>Modern Physics Letters B</i> , 2012, 26, 1150004.	1.0	38
1134	Logic Inverter Implemented with CVD-Assembled Graphene FET on Hexagonal Boron Nitride. <i>IEEE Nanotechnology Magazine</i> , 2012, 11, 619-623.	1.1	10

#	ARTICLE	IF	CITATIONS
1135	Rectification at Graphene-Semiconductor Interfaces: Zero-Gap Semiconductor-Based Diodes. Physical Review X, 2012, 2, .	2.8	137
1136	Modulation of curved graphene nanoribbon optical absorption spectra by an electric field. Philosophical Magazine, 2012, 92, 4376-4388.	0.7	3
1137	Synthesis of Subnanometric Metal Nanoparticles. , 2012, , 2639-2648.		0
1138	Fabrication of an electrical spin transport device utilizing a diazonium salt/hafnium oxide interface layer on epitaxial graphene grown on 6H-SiC(0001). Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2012, 30, 04E109.	0.6	5
1139	Chemistry and physics of a single atomic layer: strategies and challenges for functionalization of graphene and graphene-based materials. Chemical Society Reviews, 2012, 41, 97-114.	18.7	487
1140	Surface Plasmon Enhanced Optical Bistability and Optical Switching. , 2012, , 2583-2591.		0
1141	Extraordinary epitaxial alignment of graphene islands on Au(111). New Journal of Physics, 2012, 14, 053008.	1.2	78
1142	Nanostructured arrays of stacked graphene sheets. Nanotechnology, 2012, 23, 415302.	1.3	7
1143	Les promesses du graphène. Materiaux Et Techniques, 2012, 100, 101-107.	0.3	0
1144	Implanted bottom gate for epitaxial graphene on silicon carbide. Journal Physics D: Applied Physics, 2012, 45, 154006.	1.3	6
1145	An efficient method of producing stable graphene suspensions with less toxicity using dimethyl ketoxime. Carbon, 2012, 50, 5351-5358.	5.4	25
1146	Phase diagram for the $\nu = \pm 1/2$ quantum Hall state in monolayer graphene. Physical Review B, 2012, 85, .		
1147	Merging and alignment of Dirac points in a shaken honeycomb optical lattice. Physical Review A, 2012, 85, .	1.0	40
1148	Observation of resistively detected hole spin resonance and zero-field pseudo-spin splitting in epitaxial graphene. Nature Communications, 2012, 3, 996.	5.8	63
1149	Polyaromatic Ribbons from Oligo-Alkynes via Selective Radical Cascade: Stitching Aromatic Rings with Polyacetylene Bridges. Journal of the American Chemical Society, 2012, 134, 9609-9614.	6.6	72
1150	Vapor-Solid Growth of Few-Layer Graphene Using Radio Frequency Sputtering Deposition and Its Application on Field Emission. ACS Nano, 2012, 6, 3727-3733.	7.3	93
1151	Solid Lipid Nanoparticles - SLN. , 2012, , 2471-2487.		3
1152	Structure and Electronic Properties of Edge-Functionalized Armchair Boron Nitride Nanoribbons. Journal of Physical Chemistry C, 2012, 116, 15675-15681.	1.5	40

#	ARTICLE	IF	CITATIONS
1153	Facile synthesis of reduced graphene oxide films at the air-water interface and <i>in situ</i> loading of noble metal nanoparticles. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2012, 3, 045002.	0.7	10
1154	High magnetoresistance in graphene nanoribbon heterojunction. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	12
1155	Porous graphene: Properties, preparation, and potential applications. <i>Science Bulletin</i> , 2012, 57, 2948-2955.	1.7	98
1156	High-conductivity graphene nanocomposite via facile, covalent linkage of gold nanoparticles to graphene oxide. <i>Science Bulletin</i> , 2012, 57, 3086-3092.	1.7	9
1157	Two-dimensional crystals-based heterostructures: materials with tailored properties. <i>Physica Scripta</i> , 2012, T146, 014006.	1.2	258
1158	Drawing graphene nanoribbons on SiC by ion implantation. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	37
1159	Photoelectron spectroscopy studies of plasma-fluorinated epitaxial graphene. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012, 30, 03D102.	0.6	26
1160	Facile bottom-up synthesis of graphene nanofragments and nanoribbons by thermal polymerization of pentacenes. <i>Nanoscale</i> , 2012, 4, 6553.	2.8	14
1161	Electronic Properties of Graphene Altered by Substrate Surface Chemistry and Externally Applied Electric Field. <i>Journal of Physical Chemistry C</i> , 2012, 116, 6259-6267.	1.5	28
1162	Graphene: Fundamentals and functionalities. <i>MRS Bulletin</i> , 2012, 37, 1119-1124.	1.7	37
1163	High van Hove singularity extension and Fermi velocity increase in epitaxial graphene functionalized by intercalated gold clusters. <i>Physical Review B</i> , 2012, 85, .	1.1	24
1164	Low temperature growth of graphene film by microwave assisted surface wave plasma CVD for transparent electrode application. <i>RSC Advances</i> , 2012, 2, 2815.	1.7	80
1165	Computational Studies for Reduced Graphene Oxide in Hydrogen-Rich Environment. <i>Journal of Physical Chemistry A</i> , 2012, 116, 1820-1827.	1.1	12
1166	Model and simulations of the epitaxial growth of graphene on non-planar 6H-SiC surfaces. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 154007.	1.3	21
1167	CHANNEL CONDUCTANCE OF ABA STACKING TRILAYER GRAPHENE NANORIBBON FIELD-EFFECT TRANSISTOR. <i>Modern Physics Letters B</i> , 2012, 26, 1250047.	1.0	10
1168	Electronic structure of epitaxial graphene grown on the C-face of SiC and its relation to the structure. <i>New Journal of Physics</i> , 2012, 14, 125007.	1.2	18
1169	The invention of graphene electronics and the physics of epitaxial graphene on silicon carbide. <i>Physica Scripta</i> , 2012, T146, 014004.	1.2	13
1170	Current relaxation due to hot carrier scattering in graphene. <i>New Journal of Physics</i> , 2012, 14, 105012.	1.2	39

#	ARTICLE	IF	CITATIONS
1171	Microwave surface impedance measurements on reduced graphene oxide. <i>Nanotechnology</i> , 2012, 23, 285706.	1.3	13
1172	Synthesis of neutral red covalently functionalized graphene nanocomposite and the electrocatalytic properties toward uric acid. <i>Journal of Materials Chemistry</i> , 2012, 22, 602-608.	6.7	26
1173	Fabrication of MnO ₂ /graphene oxide composite nanosheets and their application in hydrazine detection. <i>RSC Advances</i> , 2012, 2, 2541.	1.7	72
1174	Graphene-based quantum Hall effect metrology. <i>MRS Bulletin</i> , 2012, 37, 1255-1264.	1.7	11
1175	Smart Carbon Nanotube-Polymer Composites. , 2012, , 2451-2451.		0
1176	Adsorption Behaviors of Graphene and Graphene-related Materials. , 2012, , 435-467.		1
1177	Graphene on different substrates for sensing applications. , 2012, , .		2
1178	Raman Imaging. <i>Springer Series in Optical Sciences</i> , 2012, , .	0.5	40
1179	Nanometer wide ribbons and triangles by STM lithography of graphene. <i>Nanopages</i> , 2012, 7, 1-7.	0.2	1
1180	White light electroluminescence from graphene-enhanced single polymer comprising two color emitters of equal molar ratios. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 280-288.	2.4	2
1181	Effects of boron-nitrogen pair on the electronic properties of zigzag graphene nanoribbon. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 1555-1558.	0.7	5
1182	Reversible Hydrogenation and Bandgap Opening of Graphene and Graphite Surfaces Probed by Scanning Tunneling Spectroscopy. <i>Small</i> , 2012, 8, 1607-1613.	5.2	53
1183	Evidence of Plasmonic Coupling in Gallium Nanoparticles/Graphene/SiC. <i>Small</i> , 2012, 8, 2721-2730.	5.2	41
1184	Advancement in multifunctional nanoparticles for the effective treatment of cancer. <i>Expert Opinion on Drug Delivery</i> , 2012, 9, 367-381.	2.4	90
1185	Structure and Morphology of Charged Graphene Platelets in Solution by Small-Angle Neutron Scattering. <i>Journal of the American Chemical Society</i> , 2012, 134, 8302-8305.	6.6	60
1186	Towards nano-organic chemistry: perspectives for a bottom-up approach to the synthesis of low-dimensional carbon nanostructures. <i>Nanoscale</i> , 2012, 4, 369-379.	2.8	27
1187	Inkjet-Printed Graphene Electronics. <i>ACS Nano</i> , 2012, 6, 2992-3006.	7.3	1,018
1188	Graphene-based composites. <i>Chemical Society Reviews</i> , 2012, 41, 666-686.	18.7	3,513

#	ARTICLE	IF	CITATIONS
1189	Graphene oxide reduction by standard industrial reducing agent: thiourea dioxide. Journal of Materials Chemistry, 2012, 22, 11054.	6.7	125
1190	Bilayer Graphene Grown on 4H-SiC (0001) Step-Free Mesas. Nano Letters, 2012, 12, 1749-1756.	4.5	50
1191	Room-temperature metastability of multilayer graphene oxide films. Nature Materials, 2012, 11, 544-549.	13.3	512
1192	Graphitization of Graphene Oxide with Ethanol during Thermal Reduction. Journal of Physical Chemistry C, 2012, 116, 9969-9979.	1.5	59
1193	Flexible Electronics: The Next Ubiquitous Platform. Proceedings of the IEEE, 2012, 100, 1486-1517.	16.4	822
1194	Scarring of Dirac fermions in chaotic billiards. Physical Review E, 2012, 86, 016702.	0.8	22
1195	Tailoring the graphene/silicon carbide interface for monolithic wafer-scale electronics. Nature Communications, 2012, 3, 957.	5.8	106
1196	Precise control of epitaxy of graphene by microfabricating SiC substrate. Applied Physics Letters, 2012, 101, 041605.	1.5	40
1197	Raman Imaging in Semiconductor Physics: Applications to Microelectronic Materials and Devices. Springer Series in Optical Sciences, 2012, , 39-83.	0.5	4
1198	Dangling bonds and magnetism of grain boundaries in graphene. Physical Review B, 2012, 85, .	1.1	57
1199	Raman spectroscopy of nonstacked graphene flakes produced by plasma microjet deposition. Journal of Raman Spectroscopy, 2012, 43, 884-888.	1.2	15
1200	The Fabrication, Properties, and Uses of Graphene/Polymer Composites. Macromolecular Chemistry and Physics, 2012, 213, 1060-1077.	1.1	537
1201	Atomically localized plasmon enhancement in monolayer graphene. Nature Nanotechnology, 2012, 7, 161-165.	15.6	196
1202	Chemistry at the Dirac Point: Diels-Alder Reactivity of Graphene. Accounts of Chemical Research, 2012, 45, 673-682.	7.6	158
1203	Catalyst-free fabrication of graphene nanosheets without substrates using multiwalled carbon nanotubes and a spark plasma sintering process. Chemical Communications, 2012, 48, 6672.	2.2	18
1204	Pinned and unpinned epitaxial graphene layers on SiC studied by Raman spectroscopy. Journal of Applied Physics, 2012, 111, .	1.1	14
1205	MoS ₂ Nanosheet Phototransistors with Thickness-Modulated Optical Energy Gap. Nano Letters, 2012, 12, 3695-3700.	4.5	1,221
1206	Rapid Characterization of Ultrathin Layers of Chalcogenides on SiO ₂ /Si Substrates. Advanced Functional Materials, 2012, 22, 1894-1905.	7.8	436

#	ARTICLE	IF	CITATIONS
1207	Binary and Ternary Atomic Layers Built from Carbon, Boron, and Nitrogen. <i>Advanced Materials</i> , 2012, 24, 4878-4895.	11.1	219
1210	From Nanographene and Graphene Nanoribbons to Graphene Sheets: Chemical Synthesis. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7640-7654.	7.2	725
1211	Edge-Plane-Rich Nitrogen-Doped Carbon Nanoneedles and Efficient Metal-Free Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7171-7175.	7.2	83
1212	Tuning of n- and p-Type Reduced Graphene Oxide Transistors with the Same Molecular Backbone. <i>Chemistry - A European Journal</i> , 2012, 18, 5155-5159.	1.7	23
1213	Industrial graphene metrology. <i>Nanoscale</i> , 2012, 4, 3807.	2.8	19
1214	Chemistry, physics and biology of graphene-based nanomaterials: new horizons for sensing, imaging and medicine. <i>Journal of Materials Chemistry</i> , 2012, 22, 14313.	6.7	116
1215	Graphene and its derivatives: switching ON and OFF. <i>Chemical Society Reviews</i> , 2012, 41, 4688.	18.7	257
1216	Preparation of graphene-encapsulated mesoporous metal oxides and their application as anode materials for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 16318.	6.7	87
1217	Graphene Nanoribbons as Low Band Gap Donor Materials for Organic Photovoltaics: Quantum Chemical Aided Design. <i>ACS Nano</i> , 2012, 6, 5539-5548.	7.3	99
1218	Role of edges in the electronic and magnetic structures of nanographene. <i>Physica Scripta</i> , 2012, T146, 014008.	1.2	36
1219	Graphene prehistory. <i>Physica Scripta</i> , 2012, T146, 014003.	1.2	107
1220	Terahertz Properties of Graphene. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2012, 33, 797-815.	1.2	74
1221	Transport Properties Through Double Barrier Structure in Graphene. <i>Journal of Low Temperature Physics</i> , 2012, 168, 40-56.	0.6	6
1222	One pot synthesis of RGO/PbS nanocomposite and its near infrared photoresponse study. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 107, 995-1001.	1.1	24
1223	Si-doped graphene: an ideal sensor for NO- or NO ₂ -detection and metal-free catalyst for N ₂ O-reduction. <i>Journal of Molecular Modeling</i> , 2012, 18, 2043-2054.	0.8	117
1224	The effect of growth parameters on the intrinsic properties of large-area single layer graphene grown by chemical vapor deposition on Cu. <i>Carbon</i> , 2012, 50, 134-141.	5.4	92
1225	The effect of downstream plasma treatments on graphene surfaces. <i>Carbon</i> , 2012, 50, 395-403.	5.4	95
1226	A simple method to synthesize graphene at 633 K by dechlorination of hexachlorobenzene on Cu foils. <i>Carbon</i> , 2012, 50, 306-310.	5.4	29

#	ARTICLE	IF	CITATIONS
1227	One-step metal electroplating and patterning on a plastic substrate using an electrically-conductive layer of few-layer graphene. Carbon, 2012, 50, 612-621.	5.4	21
1228	Visible light driven photodynamic anticancer activity of graphene oxide/TiO ₂ hybrid. Carbon, 2012, 50, 994-1004.	5.4	144
1229	Synthesis and analysis of thin conducting pyrolytic carbon films. Carbon, 2012, 50, 1216-1226.	5.4	116
1230	Rapid synthesis of few-layer graphene over Cu foil. Carbon, 2012, 50, 1546-1553.	5.4	72
1231	One pot preparation of reduced graphene oxide (RGO) or Au (Ag) nanoparticle-RGO hybrids using chitosan as a reducing and stabilizing agent and their use in methanol electrooxidation. Carbon, 2012, 50, 2513-2523.	5.4	313
1232	Glucose sensing, photocatalytic and antibacterial properties of graphene-ZnO nanoparticle hybrids. Carbon, 2012, 50, 2994-3000.	5.4	275
1233	The effect of a SiC cap on the growth of epitaxial graphene on SiC in ultra high vacuum. Carbon, 2012, 50, 3026-3031.	5.4	23
1234	Phenolic resin-based composite sheets filled with mixtures of reduced graphene oxide, ⁵⁷ Fe ₂ O ₃ and carbon fibers for excellent electromagnetic interference shielding in the X-band. Carbon, 2012, 50, 3868-3875.	5.4	231
1235	Advances in top-down and bottom-up surface nanofabrication: Techniques, applications & future prospects. Advances in Colloid and Interface Science, 2012, 170, 2-27.	7.0	659
1236	Triphenylamine-functionalized graphene decorated with Pt nanoparticles and its application in photocatalytic hydrogen production. International Journal of Hydrogen Energy, 2012, 37, 4880-4888.	3.8	74
1237	Structural, electronic and magnetic properties of single transition-metal adsorbed BN sheet: A density functional study. Chemical Physics Letters, 2012, 532, 40-46.	1.2	42
1238	Mass-production of highly-crystalline few-layer graphene sheets by arc discharge in various H ₂ -inert gas mixtures. Chemical Physics Letters, 2012, 538, 72-76.	1.2	104
1239	Graphene: synthesis and applications. Materials Today, 2012, 15, 86-97.	8.3	798
1240	Synthesis of hemin functionalized graphene and its application as a counter electrode in dye-sensitized solar cells. Materials Chemistry and Physics, 2012, 132, 858-864.	2.0	42
1241	Facile preparation of graphene sheets from synthetic graphite. Materials Letters, 2012, 70, 181-184.	1.3	15
1242	Controlled chitosan coated Prussian blue nanoparticles with the mixture of graphene nanosheets and carbon nanospheres as a redox mediator for the electrochemical oxidation of nitrite. Sensors and Actuators B: Chemical, 2012, 161, 641-647.	4.0	72
1243	Effect of substrate temperature on few-layer graphene grown on Al ₂ O ₃ (0001) via direct carbon atoms deposition. Solid State Communications, 2012, 152, 960-963.	0.9	10
1244	Transport properties of AA-stacking bilayer graphene nanoribbons. Solid State Communications, 2012, 152, 994-998.	0.9	13

#	ARTICLE	IF	CITATIONS
1245	Ab initio calculations of optical properties of B2C graphene sheet. Solid State Communications, 2012, 152, 1012-1017.	0.9	46
1246	Study of annealing temperature influence on the performance of top gated graphene/SiC transistors. Solid-State Electronics, 2012, 71, 2-6.	0.8	4
1247	The surface science of graphene: Metal interfaces, CVD synthesis, nanoribbons, chemical modifications, and defects. Surface Science Reports, 2012, 67, 83-115.	3.8	746
1248	Edge states at the interface between monolayer and bilayer graphene. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 610-615.	0.9	8
1249	Preparation and characterization of poly (butylene terephthalate)/graphene composites by in-situ polymerization of cyclic butylene terephthalate. Polymer, 2012, 53, 897-902.	1.8	84
1250	Electron states in the quantum dot-graphene-monolayer-SiO ₂ /n + Si-substrate system. Technical Physics Letters, 2012, 38, 552-554.	0.2	8
1251	Energy spectrum of electrons in multilayer graphenes doped with atoms of alkaline metals. Nanotechnologies in Russia, 2012, 7, 140-148.	0.7	1
1252	SiC surface orientation and Si loss rate effects on epitaxial graphene. Nanoscale Research Letters, 2012, 7, 186.	3.1	10
1253	Role of Hydrocarbon Radicals CH _x (x=1, 2, 3) in Graphene Growth: A Theoretical Perspective. ChemPhysChem, 2012, 13, 774-779.	1.0	15
1254	CO ₂ Laser-Induced Growth of Epitaxial Graphene on 6H-SiC(0001). Advanced Functional Materials, 2012, 22, 113-120.	7.8	65
1255	Non-Covalent Functionalization of Graphene Using Self-Assembly of Alkane Amines. Advanced Functional Materials, 2012, 22, 717-725.	7.8	73
1256	Designed CVD Growth of Graphene via Process Engineering. Accounts of Chemical Research, 2013, 46, 2263-2274.	7.6	172
1257	Graphene in high magnetic fields. Comptes Rendus Physique, 2013, 14, 78-93.	0.3	16
1258	Low dimensional nanocarbons " chemistry and energy/electron transfer reactions. Chemical Science, 2013, 4, 4335.	3.7	102
1259	Carbon nanomaterial based electrochemical sensors for biogenic amines. Mikrochimica Acta, 2013, 180, 935-956.	2.5	72
1260	X-ray photoelectron spectroscopy (XPS) and diffraction (XPD) study of a few layers of graphene on 6H-SiC(0001). Surface Science, 2013, 615, 47-56.	0.8	40
1261	Acousto-electric transport in epitaxial monolayer graphene on SiC. Applied Physics Letters, 2013, 102, .	1.5	44
1262	Electrochemical detection of dopamine based on pre-concentration by graphene nanosheets. Analyst, The, 2013, 138, 6044.	1.7	60

#	ARTICLE	IF	CITATIONS
1263	Applications of Nanomaterials in Sensors and Diagnostics. Springer Series on Chemical Sensors and Biosensors, 2013, , .	0.5	37
1264	Ultra-fast synthesis of graphene by melt spinning. Carbon, 2013, 61, 299-304.	5.4	2
1265	Tunable Electronics in Large-Area Atomic Layers of Boron-Nitrogen-Carbon. Nano Letters, 2013, 13, 3476-3481.	4.5	65
1266	Electronic response of graphene to an ultrashort intense terahertz radiation pulse. New Journal of Physics, 2013, 15, 055021.	1.2	43
1267	Relativistic quantum tunneling of a Dirac fermion in nonhyperbolic chaotic systems. Physical Review B, 2013, 87, .	1.1	10
1268	Band Gaps of a Two-Dimensional Periodic Graphenelike Structure. Journal of Vibration and Acoustics, Transactions of the ASME, 2013, 135, .	1.0	5
1269	Direct growth of quasi-free-standing epitaxial graphene on nonpolar SiC surfaces. Physical Review B, 2013, 88, .	1.1	43
1270	High-resolution angle-resolved photoemission spectroscopy study of monolayer and bilayer graphene on the C-face of SiC. Physical Review B, 2013, 88, .	1.1	22
1271	UV irradiation synthesis of an Au-graphene nanocomposite with enhanced electrochemical sensing properties. Journal of Materials Chemistry A, 2013, 1, 9189.	5.2	145
1273	Combustion synthesis: Novel routes to novel molecular nanomaterials. International Journal of Self-Propagating High-Temperature Synthesis, 2013, 22, 119-124.	0.2	2
1274	Simultaneous N-intercalation and N-doping of epitaxial graphene on 6H-SiC(0001) through thermal reactions with ammonia. Nano Research, 2013, 6, 399-408.	5.8	41
1275	Carbon Systems. Semiconductors, 2013, 47, 815-819.	0.2	6
1276	Theoretical assessment of graphene-metal contacts. Journal of Chemical Physics, 2013, 138, 244701.	1.2	58
1277	A gap in the density of electron states of epitaxial graphene formed on the surface of a dimensionally quantized metal film. Technical Physics Letters, 2013, 39, 196-198.	0.2	6
1278	Continuous wafer-scale graphene on cubic-SiC(001). Nano Research, 2013, 6, 562-570.	5.8	31
1279	Advances in semiconductor nanowire growth on graphene. Physica Status Solidi - Rapid Research Letters, 2013, 7, 713-726.	1.2	49
1280	Electric-double-layer field-effect transistors with ionic liquids. Physical Chemistry Chemical Physics, 2013, 15, 8983.	1.3	319
1281	New counter electrode of hot filament chemical vapor deposited graphene thin film for dye sensitized solar cell. Chemical Engineering Journal, 2013, 222, 464-471.	6.6	36

#	ARTICLE	IF	CITATIONS
1282	Can all nitrogen-doped defects improve the performance of graphene anode materials for lithium-ion batteries?. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16819.	1.3	247
1283	Spatially Resolved Mapping of Electrical Conductivity across Individual Domain (Grain) Boundaries in Graphene. <i>ACS Nano</i> , 2013, 7, 7956-7966.	7.3	124
1284	Mosaic-like Monolayer of Graphene Oxide Sheets Decorated with Tetrabutylammonium Ions. <i>ACS Nano</i> , 2013, 7, 8082-8088.	7.3	30
1286	Carbon-based spintronics. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013, 56, 207-221.	2.0	20
1287	Folic acid-conjugated grapheneâ€ZnO nanohybrid for targeting photodynamic therapy under visible light irradiation. <i>Journal of Materials Chemistry B</i> , 2013, 1, 5003.	2.9	96
1288	Controlled and Selective Area Growth of Monolayer Graphene on 4H-SiC Substrate by Electron-Beam-Assisted Rapid Heating. <i>Journal of Physical Chemistry C</i> , 2013, 117, 19195-19202.	1.5	18
1289	Band gaps of graphene on layered ZnO substrate: A first principles study. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	20
1290	Electronic properties of curved graphene nanoribbons. <i>Synthetic Metals</i> , 2013, 171, 7-14.	2.1	11
1291	Absorption spectra of asymmetric bilayer graphene nanoribbons. <i>Synthetic Metals</i> , 2013, 179, 86-93.	2.1	0
1292	The Preparation of Hierarchical Flowerlike NiO/Reduced Graphene Oxide Composites for High Performance Supercapacitor Applications. <i>Energy & Fuels</i> , 2013, 27, 6304-6310.	2.5	111
1293	Fabrication of graphene from graphene oxide by ultrasonication with high Li storage capability. <i>Powder Technology</i> , 2013, 249, 146-150.	2.1	10
1294	Synthesis of Graphene Sheets and Characterization of Poly(3-hexylthiophene):Graphene Blends. <i>Journal of Electronic Materials</i> , 2013, 42, 2739-2742.	1.0	3
1295	Slow Gold Adatom Diffusion on Graphene: Effect of Silicon Dioxide and Hexagonal Boron Nitride Substrates. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4305-4312.	1.2	34
1296	Highly controllable and green reduction of graphene oxide to flexible graphene film with high strength. <i>Materials Research Bulletin</i> , 2013, 48, 4797-4803.	2.7	64
1297	Graphene for energy solutions and its industrialization. <i>Nanoscale</i> , 2013, 5, 10108.	2.8	86
1298	Mesoscopic conductance fluctuations in multi-layer graphene. <i>Applied Physics Letters</i> , 2013, 103, 043117.	1.5	12
1299	Analytical modeling of trilayer graphene nanoribbon Schottky-barrier FET for high-speed switching applications. <i>Nanoscale Research Letters</i> , 2013, 8, 55.	3.1	23
1300	Transport properties of two finite armchair graphene nanoribbons. <i>Nanoscale Research Letters</i> , 2013, 8, 1.	3.1	1,160

#	ARTICLE	IF	CITATIONS
1301	On the theory describing graphene in an anomalous-dispersion region. Journal of Surface Investigation, 2013, 7, 46-50.	0.1	4
1302	Transfer-free growth of graphene on SiO ₂ insulator substrate from sputtered carbon and nickel films. Carbon, 2013, 65, 349-358.	5.4	59
1303	Theoretical characterization of reduction dynamics for graphene oxide by alkaline-earth metals. Carbon, 2013, 52, 122-127.	5.4	30
1304	Direct and diffuse reflection of electron waves at armchair edges of epitaxial graphene. RSC Advances, 2013, 3, 25735.	1.7	6
1305	High performance thin film electronics based on inorganic nanostructures and composites. Nano Today, 2013, 8, 514-530.	6.2	33
1306	Graphene nanoribbon intercalated with hexagonal boron nitride: Electronic transport properties from ab initio calculations. Solid State Communications, 2013, 173, 24-29.	0.9	10
1307	Peculiar transport properties in Z-shaped graphene nanoribbons: A nanoscale NOR gate. Thin Solid Films, 2013, 548, 443-448.	0.8	21
1308	Recent progress in the development and properties of novel metal matrix nanocomposites reinforced with carbon nanotubes and graphene nanosheets. Materials Science and Engineering Reports, 2013, 74, 281-350.	14.8	918
1309	Electrical conductivity and optical properties of thin carbon films grown by pyrolysis of ethanol-water mixture vapor. Applied Surface Science, 2013, 275, 278-281.	3.1	8
1310	Electrochemical reduction of graphene oxide and its electrochemical capacitive performance. Journal of Solid State Electrochemistry, 2013, 17, 2857-2863.	1.2	43
1311	Conductivity of Graphene with Resonant and Nonresonant Adsorbates. Physical Review Letters, 2013, 111, 146601.	2.9	63
1312	Plasma Nanoscience and Nanotechnology. , 2013, , 287-357.		2
1313	Thermodynamic Equilibrium Conditions of Graphene Films on SiC. Physical Review Letters, 2013, 111, 065502.	2.9	34
1314	Spin-injection into epitaxial graphene on silicon carbide. Journal of Crystal Growth, 2013, 378, 385-387.	0.7	2
1315	Chemically Engineered Graphene-Based 2D Organic Molecular Magnet. ACS Nano, 2013, 7, 10011-10022.	7.3	47
1316	Optical and Vibrational Studies of Partially Edge-Terminated Vertically Aligned Nanocrystalline MoS ₂ Thin Films. Journal of Physical Chemistry C, 2013, 117, 26262-26268.	1.5	51
1317	Graphene applications in electronic and optoelectronic devices and circuits. Chinese Physics B, 2013, 22, 098106.	0.7	58
1318	Theoretical study on the interaction of pristine, defective and strained graphene with Fe _n and Ni _n (n=13, 38, 55) clusters. Chemical Physics Letters, 2013, 588, 203-207.	1.2	32

#	ARTICLE	IF	CITATIONS
1319	Quantum resistance metrology using graphene. Reports on Progress in Physics, 2013, 76, 104501.	8.1	79
1320	Coupled Dirac Fermions and Neutrino-like Oscillations in Twisted Bilayer Graphene. Nano Letters, 2013, 13, 5159-5164.	4.5	18
1321	Electronic structure and layer-resolved transmission of bilayer graphene nanoribbon in the presence of vertical fields. Physical Review B, 2013, 88, .	1.1	16
1322	Superhydrophilic graphite surfaces and water-dispersible graphite colloids by electrochemical exfoliation. Journal of Chemical Physics, 2013, 139, 064703.	1.2	10
1323	Structures, Energetics, and Electronic Properties of Layered Materials and Nanotubes of Cadmium Chalcogenides. Journal of Physical Chemistry C, 2013, 117, 25817-25825.	1.5	26
1324	Chemically Resolved Interface Structure of Epitaxial Graphene on SiC(0001). Physical Review Letters, 2013, 111, 215501.	2.9	70
1325	Photo-Excited Charge Collection Spectroscopy. SpringerBriefs in Physics, 2013, , .	0.2	4
1326	Magneto-optical fingerprints of distinct graphene multilayers using the giant infrared Kerr effect. Scientific Reports, 2013, 3, 3143.	1.6	20
1327	Introduction to graphene electronics – a new era of digital transistors and devices. Contemporary Physics, 2013, 54, 233-251.	0.8	52
1328	Handbook of Medical and Healthcare Technologies. , 2013, , .		13
1329	Towards low temperature thermal exfoliation of graphite oxide for graphene production. Carbon, 2013, 62, 11-24.	5.4	132
1331	Static conductance of electron gas in epitaxial graphene. Technical Physics Letters, 2013, 39, 758-761.	0.2	13
1332	On rearrangement of spectrum of epitaxial graphene formed on thin metallic film. Physics of Metals and Metallography, 2013, 114, 715-720.	0.3	0
1333	From nanographene to monolayer graphene on 6H-SiC(0001) substrate. Applied Physics Letters, 2013, 102, 253108.	1.5	13
1334	Electrical properties of novel polyolefin based thermoplastic elastomer and graphene nanocomposites. Fibers and Polymers, 2013, 14, 2117-2121.	1.1	6
1335	Radical-assisted chemical doping for chemically derived graphene. Nanoscale Research Letters, 2013, 8, 534.	3.1	7
1336	Multiscale modeling of screening effects on conductivity of graphene in weakly bonded graphene-dielectric heterostructures. Journal of Computational Electronics, 2013, 12, 722-729.	1.3	2
1337	Production of graphene by reduction using a magnesiothermic reaction. Chemical Communications, 2013, 49, 10676.	2.2	23

#	ARTICLE	IF	CITATIONS
1338	Graphene/poly(3,4-ethylenedioxythiophene) hydrogel with excellent mechanical performance and high conductivity. Carbon, 2013, 59, 495-502.	5.4	115
1339	Impact of Local Curvature and Structural Defects on Graphene's C ₆₀ Fullerene Fusion Reaction Barriers. Journal of Physical Chemistry C, 2013, 117, 19664-19671.	1.5	20
1340	Graphene based field effect transistors: Efforts made towards flexible electronics. Solid-State Electronics, 2013, 89, 177-188.	0.8	85
1341	Graphene-based semiconductor nanostructures. Physics-Usp ekhi, 2013, 56, 105-122.	0.8	61
1342	Atomically thin two-dimensional materials for functional electrodes of electrochemical devices. Ionics, 2013, 19, 825-865.	1.2	33
1343	On renormalization of the Fermi velocity in epitaxial graphene. Technical Physics Letters, 2013, 39, 597-600.	0.2	13
1344	Catalytically healing the Stone-Wales defects in graphene by carbon adatoms. Journal of Materials Chemistry A, 2013, 1, 1885-1891.	5.2	30
1345	Ordering kinetics of dopant atoms in graphene lattice with stoichiometric compositions of 1/3 and 1/6. Materialwissenschaft Und Werkstofftechnik, 2013, 44, 231-238.	0.5	3
1346	Instantaneous reduction of graphene oxide at room temperature. RSC Advances, 2013, 3, 12621.	1.7	34
1347	Raman spectroscopy study of low energy He ⁺ ion irradiation effect in graphene transferred onto SiO ₂ , 2013, , .		0
1348	High performance supercapacitor electrode based on graphene paper via flame-induced reduction of graphene oxide paper. Journal of Power Sources, 2013, 222, 52-58.	4.0	183
1349	Nanocomposite of graphene oxide with nitrogen-doped TiO ₂ exhibiting enhanced photocatalytic efficiency for hydrogen evolution. International Journal of Hydrogen Energy, 2013, 38, 2670-2677.	3.8	107
1351	Characterisation Techniques. , 2013, , 229-332.		8
1352	Reduction of graphene oxide with L-lysine to prepare reduced graphene oxide stabilized with polysaccharide polyelectrolyte. Journal of Materials Chemistry A, 2013, 1, 2192-2201.	5.2	78
1353	van der Waals Epitaxial Growth of Graphene on Sapphire by Chemical Vapor Deposition without a Metal Catalyst. ACS Nano, 2013, 7, 385-395.	7.3	211
1354	Atomic-Scale Evidence for Potential Barriers and Strong Carrier Scattering at Graphene Grain Boundaries: A Scanning Tunneling Microscopy Study. ACS Nano, 2013, 7, 75-86.	7.3	132
1355	Graphene growth by molecular beam epitaxy. , 2013, , 547-557.		0
1356	Excimer laser reduction and patterning of graphite oxide. Carbon, 2013, 53, 81-89.	5.4	107

#	ARTICLE	IF	CITATIONS
1357	Disordered graphene and boron nitride in a microwave tight-binding analog. <i>Physical Review B</i> , 2013, 87, .	1.1	28
1358	Methods for Obtaining Graphene. , 2013, , 129-228.		13
1359	A Guide to the Design of Electronic Properties of Graphene Nanoribbons. <i>Accounts of Chemical Research</i> , 2013, 46, 2319-2328.	7.6	187
1360	Carbon nanomaterials for electronics, optoelectronics, photovoltaics, and sensing. <i>Chemical Society Reviews</i> , 2013, 42, 2824-2860.	18.7	1,105
1361	Effect of Covalent Chemistry on the Electronic Structure and Properties of Carbon Nanotubes and Graphene. <i>Accounts of Chemical Research</i> , 2013, 46, 65-76.	7.6	161
1362	A wide-bandgap metal-“semiconductor”-metal nanostructure made entirely from graphene. <i>Nature Physics</i> , 2013, 9, 49-54.	6.5	174
1363	Synthesis of Soluble Graphite and Graphene. <i>Accounts of Chemical Research</i> , 2013, 46, 4-13.	7.6	81
1364	Graphene/polymer composites for energy applications. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 231-253.	2.4	222
1365	Looking behind the scenes: Raman spectroscopy of top-gated epitaxial graphene through the substrate. <i>New Journal of Physics</i> , 2013, 15, 113006.	1.2	24
1366	A Comprehensive Review of Graphene Nanocomposites: Research Status and Trends. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-14.	1.5	190
1367	Numerical analysis on vacancy induced vibrational properties of graphene nanoribbons. <i>Computational Materials Science</i> , 2013, 79, 356-361.	1.4	20
1368	Reduction of graphene oxide at the interface between a Ni layer and a SiO ₂ substrate. <i>Carbon</i> , 2013, 59, 472-478.	5.4	29
1369	Developing nanoscale inertial sensor based on graphite-flake with self-retracting motion. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013, 50, 44-50.	1.3	11
1370	Pressure sensors based on suspended graphene membranes. <i>Solid-State Electronics</i> , 2013, 88, 89-94.	0.8	70
1371	CVD growth of SiC on sapphire substrate and graphene formation from the epitaxial SiC. <i>Journal of Crystal Growth</i> , 2013, 366, 26-30.	0.7	11
1372	Electronic properties of bilayer Bernal graphene in a modulated magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 348, 61-67.	1.0	2
1373	Growth of few-layer graphene on SiC at low temperature with the fluorocarbon plasma pre-etching. <i>Thin Solid Films</i> , 2013, 527, 65-68.	0.8	5
1374	Encapsulating magnetic nanoparticles in sandwich-like coupled graphene sheets and beyond. <i>Nanoscale</i> , 2013, 5, 2243-2248.	2.8	22

#	ARTICLE	IF	CITATIONS
1375	Record Maximum Oscillation Frequency in C-Face Epitaxial Graphene Transistors. <i>Nano Letters</i> , 2013, 13, 942-947.	4.5	145
1376	Aqueous phase photocatalytic nitrate destruction using titania based materials: routes to enhanced performance and prospects for visible light activation. <i>Catalysis Science and Technology</i> , 2013, 3, 879.	2.1	58
1377	Biomedical Applications of Graphene and Graphene Oxide. <i>Accounts of Chemical Research</i> , 2013, 46, 2211-2224.	7.6	1,420
1378	High-quality and efficient transfer of large-area graphene films onto different substrates. <i>Carbon</i> , 2013, 56, 271-278.	5.4	143
1379	Local solid phase growth of few-layer graphene on silicon carbide from nickel silicide supersaturated with carbon. <i>Journal of Applied Physics</i> , 2013, 113, 114309.	1.1	26
1380	Graphene: Promises, Facts, Opportunities, and Challenges in Nanomedicine. <i>Chemical Reviews</i> , 2013, 113, 3407-3424.	23.0	643
1381	Gas sensors using carbon nanomaterials: A review. <i>Sensors and Actuators B: Chemical</i> , 2013, 179, 32-45.	4.0	549
1382	Hyperbolic metamaterials based on multilayer graphene structures. <i>Physical Review B</i> , 2013, 87, .	1.1	267
1384	Fabrication of High-Surface-Area Graphene/Polyaniline Nanocomposites and Their Application in Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 2685-2691.	4.0	309
1385	Review of Chemical Vapor Deposition of Graphene and Related Applications. <i>Accounts of Chemical Research</i> , 2013, 46, 2329-2339.	7.6	1,234
1386	A green and efficient method to produce graphene for electrochemical capacitors from graphene oxide using sodium carbonate as a reducing agent. <i>Applied Surface Science</i> , 2013, 268, 541-546.	3.1	89
1387	Graphene and its derivatives for the development of solar cells, photoelectrochemical, and photocatalytic applications. <i>Energy and Environmental Science</i> , 2013, 6, 1362.	15.6	355
1388	Preparation and characterization of some graphene based nanocomposite materials. <i>Carbohydrate Polymers</i> , 2013, 95, 348-359.	5.1	42
1389	Generating Long Supramolecular Pathways with a Continuous Density of States by Physically Linking Conjugated Molecules via Their End Groups. <i>Journal of the American Chemical Society</i> , 2013, 135, 5693-5698.	6.6	17
1390	Assembling Tin Dioxide Quantum Dots to Graphene Nanosheets by a Facile Ultrasonic Route. <i>Langmuir</i> , 2013, 29, 4111-4118.	1.6	53
1391	Progress, Challenges, and Opportunities in Two-Dimensional Materials Beyond Graphene. <i>ACS Nano</i> , 2013, 7, 2898-2926.	7.3	4,062
1392	Friction, adhesion, and elasticity of graphene edges. <i>Physical Review B</i> , 2013, 87, .	1.1	41
1393	Structure and transport properties of nanocarbon films prepared by sublimation on a 6H-SiC surface. <i>Semiconductors</i> , 2013, 47, 301-306.	0.2	12

#	ARTICLE	IF	CITATIONS
1394	Visible light-induced photocatalytic reduction of graphene oxide by tungsten oxide thin films. <i>Applied Surface Science</i> , 2013, 276, 628-634.	3.1	26
1395	Graphene-Based Chemical and Biosensors. <i>Springer Series on Chemical Sensors and Biosensors</i> , 2013, , 103-141.	0.5	9
1396	Structural Stability and Electronic and Magnetic Properties of Fluorinated Bilayer Graphene. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3572-3579.	1.5	38
1397	Manipulating the electronic and chemical properties of graphene via molecular functionalization. <i>Progress in Surface Science</i> , 2013, 88, 132-159.	3.8	157
1398	Symmetry breaking in graphene layers on SiC-substrate—an ab-initio study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013, 50, 102-107.	1.3	4
1399	Effect of geometrical rotation on conductance fluctuations in graphene quantum dots. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 105802.	0.7	6
1400	Chemical Structure of Oxidized Multilayer Epitaxial Graphene: A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6267-6274.	1.5	20
1401	Improved graphene growth in UHV: Pit-free surfaces by selective Si etching of SiC(0001)—Si with atomic hydrogen. <i>Surface Science</i> , 2013, 611, 25-31.	0.8	15
1402	Control of Superhydrophilic and Superhydrophobic Graphene Interface. <i>Scientific Reports</i> , 2013, 3, .	1.6	100
1403	Fabrication of β -cyclodextrin-coated poly (diallyldimethylammonium chloride)-functionalized graphene composite film modified glassy carbon-rotating disk electrode and its application for simultaneous electrochemical determination colorants of sunset yellow and tartrazine. <i>Analytica Chimica Acta</i> , 2013, 779, 22-34.	2.6	140
1404	The extended growth of graphene oxide flakes using ethanol CVD. <i>Nanoscale</i> , 2013, 5, 2945.	2.8	31
1405	The Interaction of Light and Graphene: Basics, Devices, and Applications. <i>Proceedings of the IEEE</i> , 2013, 101, 1717-1731.	16.4	94
1406	Sign-changeable spin-filter efficiency in linear carbon atomic chain. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013, 48, 101-105.	1.3	0
1407	Imaging layer number and stacking order through formulating Raman fingerprints obtained from hexagonal single crystals of few layer graphene. <i>Nanotechnology</i> , 2013, 24, 015702.	1.3	48
1408	Growth of fcc(111) Dy multi-height islands on 6H-SiC(0001) graphene. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 225005.	0.7	11
1409	The SERS study of graphene deposited by gold nanoparticles with 785nm excitation. <i>Chemical Physics Letters</i> , 2013, 556, 146-150.	1.2	61
1410	Novel Carbon-Based Nanomaterials. , 2013, , 61-87.		5
1411	Graphene Growth and Device Integration. <i>Proceedings of the IEEE</i> , 2013, 101, 1536-1556.	16.4	46

#	ARTICLE	IF	CITATIONS
1412	Plasmons in Graphene: Fundamental Properties and Potential Applications. Proceedings of the IEEE, 2013, 101, 1689-1704.	16.4	210
1413	Quantum chaotic scattering in graphene systems in the absence of invariant classical dynamics. Physical Review E, 2013, 87, 052908.	0.8	9
1414	Theoretical investigation on the healing mechanism of divacancy defect in graphene growth by reaction with ethylene and acetylene. New Journal of Chemistry, 2013, 37, 640-645.	1.4	24
1415	Graphene Transistors: Status, Prospects, and Problems. Proceedings of the IEEE, 2013, 101, 1567-1584.	16.4	392
1416	A brief review of graphene-metal oxide composites synthesis and applications in photocatalysis. Journal of the Chinese Advanced Materials Society, 2013, 1, 21-39.	0.7	135
1417	Counting molecular-beam grown graphene layers. Applied Physics Letters, 2013, 102, 241905.	1.5	3
1418	Direct observation of charge transfer region at interfaces in graphene devices. Applied Physics Letters, 2013, 102, .	1.5	33
1419	Carbon-Based Nanomaterials From a Historical Perspective. Proceedings of the IEEE, 2013, 101, 1522-1535.	16.4	56
1420	Cyclodextrin-reduced graphene oxide hybrid nanosheets for the simultaneous determination of lead(II) and cadmium(II) using square wave anodic stripping voltammetry. Electrochimica Acta, 2013, 108, 412-420.	2.6	90
1421	Graphene sheet-starch platform based on the groove recognition for the sensitive and highly selective determination of iodide in seafood samples. Biosensors and Bioelectronics, 2013, 47, 396-401.	5.3	17
1422	Interactions of graphene and graphene oxide with proteins and peptides. Nanotechnology Reviews, 2013, 2, 27-45.	2.6	198
1423	Large-area microfocal spectroscopic ellipsometry mapping of thickness and electronic properties of epitaxial graphene on Si- and C-face of 3C-SiC(111). Applied Physics Letters, 2013, 102, .	1.5	28
1424	Atomic-Scale Mapping of Thermoelectric Power on Graphene: Role of Defects and Boundaries. Nano Letters, 2013, 13, 3269-3273.	4.5	52
1425	Damage and strain in single-layer graphene induced by very-low-energy electron-beam irradiation. Applied Physics Letters, 2013, 102, .	1.5	28
1427	Control of the graphene growth rate on capped SiC surface under strong Si confinement. Applied Surface Science, 2013, 264, 56-60.	3.1	7
1428	Effects of pressure, temperature, and hydrogen during graphene growth on SiC(0001) using propane-hydrogen chemical vapor deposition. Journal of Applied Physics, 2013, 113, .	1.1	36
1429	Advances in silicon carbide science and technology at the micro- and nanoscales. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2013, 31, .	0.9	127
1430	Improvement of graphene quality synthesized by cluster ion implantation. Nuclear Instruments & Methods in Physics Research B, 2013, 307, 260-264.	0.6	6

#	ARTICLE	IF	CITATIONS
1431	Simulation of deflection and stress for MEMS pressure sensor based on graphene. , 2013, , .		1
1432	Harnessing quantum transport by transient chaos. Chaos, 2013, 23, 013125.	1.0	21
1433	Preparation, electrochemical properties, and adsorption kinetics of Ni ₃ S ₂ /graphene nanocomposites using alkyldithiocarbonatio complexes of nickel(<i>ii</i>) as single-source precursors. New Journal of Chemistry, 2013, 37, 654-662.	1.4	37
1434	Graphene Electronics: Materials, Devices, and Circuits. Proceedings of the IEEE, 2013, 101, 1620-1637.	16.4	104
1435	Thickness and stacking geometry effects on high frequency overtone and combination Raman modes of graphene. Journal of Raman Spectroscopy, 2013, 44, 86-91.	1.2	14
1436	Graphene and its application in fuel cell catalysis: a review. Asia-Pacific Journal of Chemical Engineering, 2013, 8, 218-233.	0.8	71
1437	Functionalization of Graphene for Efficient Energy Conversion and Storage. Accounts of Chemical Research, 2013, 46, 31-42.	7.6	739
1438	Identification of a strong contamination source for graphene in vacuum systems. Nanotechnology, 2013, 24, 405201.	1.3	8
1439	Fabry-Perot enhanced Faraday rotation in graphene. Optics Express, 2013, 21, 24736.	1.7	47
1440	Atomic-scale movement induced in nanoridges by scanning tunneling microscopy on epitaxial graphene grown on 4H-SiC(0001). Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, .	0.6	2
1441	Epitaxial graphene morphologies probed by weak (anti)-localization. Journal of Applied Physics, 2013, 113, .	1.1	7
1442	Small scale rotational disorder observed in epitaxial graphene on SiC(0001). New Journal of Physics, 2013, 15, 023019.	1.2	8
1443	Anomalous Nernst effect in strained graphene coupled to a substrate inducing a time-reversal symmetry breaking. New Journal of Physics, 2013, 15, 073028.	1.2	8
1444	Time-resolved spectroscopy on epitaxial graphene in the infrared spectral range: relaxation dynamics and saturation behavior. Journal of Physics Condensed Matter, 2013, 25, 054202.	0.7	59
1445	Fast and Simple Fabrication of RGO/Ag Nanocomposite with Homogenous Dispersion. Applied Mechanics and Materials, 0, 328, 674-678.	0.2	0
1446	Mode-locked 2- μ m wavelength fiber laser using a graphene-saturable absorber. Optical Engineering, 2013, 52, 076101.	0.5	7
1448	Optimising the Growth of Few-Layer Graphene on Silicon Carbide by Nickel Silicidation. Materials Science Forum, 0, 740-742, 121-124.	0.3	1
1449	Effect of optical pumping on the momentum relaxation time of graphene in the terahertz range. Chinese Physics B, 2013, 22, 097304.	0.7	9

#	ARTICLE	IF	CITATIONS
1450	Enhanced optical second-harmonic generation from current-biased graphene on the substrates of Si and SiC. , 2013, , .		0
1451	Carrier Density and Electric Field Dependent Nonlinear Transport of Chemical Vapor Deposition Graphene. Chinese Physics Letters, 2013, 30, 037201.	1.3	1
1452	Fabrication of Thin Graphene Layers on a Stacked 6H-SiC Surface in a Graphite Enclosure. Chinese Physics Letters, 2013, 30, 018101.	1.3	3
1453	Significant photoelectrical response of epitaxial graphene grown on Si-terminated 6H-SiC. Chinese Physics B, 2013, 22, 076804.	0.7	2
1454	Low-Temperature Transport Properties of Graphene and Multilayer Graphene on 6H-SiC. Materials Science Forum, 0, 740-742, 137-140.	0.3	3
1455	Thickness Thinning of Epitaxial Graphene Grown on Carbon-Terminated 6H-SiC by Using Oxygen Plasma Etching. Advanced Materials Research, 2013, 702, 149-153.	0.3	0
1456	Electron microscopic characterization of multi-layer boron nitride nanosheets. Materials Research Society Symposia Proceedings, 2013, 1549, 85-90.	0.1	0
1457	Nanotechnology and Its Application in Medicine. , 2013, , 181-205.		6
1458	Argon annealing procedure for producing an atomically terraced 4H-SiC (0001) substrate and subsequent graphene growth. Journal of Materials Research, 2013, 28, 1-6.	1.2	18
1459	Epitaxial growth of graphene on 6H-silicon carbide substrate by simulated annealing method. Journal of Chemical Physics, 2013, 139, 204702.	1.2	15
1460	Photo-induced doping and strain in exfoliated graphene. Applied Physics Letters, 2013, 103, .	1.5	18
1461	Enhancement of elastic and inelastic scattering lengths in quasi-free-standing graphene measured with contactless microwave spectroscopy. Physical Review B, 2013, 88, .	1.1	9
1462	Polarization Selection Rules for Inter-Landau-Level Transitions in Epitaxial Graphene Revealed by the Infrared Optical Hall Effect. Physical Review Letters, 2013, 111, 077402.	2.9	18
1463	Laser direct patterning of a reduced-graphene oxide transparent circuit on a graphene oxide thin film. Journal of Applied Physics, 2013, 113, .	1.1	44
1464	High strain biocompatible polydimethylsiloxane-based conductive graphene and multiwalled carbon nanotube nanocomposite strain sensors. Applied Physics Letters, 2013, 102, .	1.5	174
1465	Ruderman-Kittel-Kasuya-Yosida interaction in biased bilayer graphene. Physical Review B, 2013, 87, .	1.1	29
1466	Investigation of the effect of low energy ion beam irradiation on mono-layer graphene. AIP Advances, 2013, 3, .	0.6	51
1467	MICROWAVE ABSORBING PROPERTIES OF CO/REDUCED GRAPHENE OXIDE IN KU-BAND. Functional Materials Letters, 2013, 06, 1350042.	0.7	1

#	ARTICLE	IF	CITATIONS
1468	Si-adatom kinetics in defect mediated growth of multilayer epitaxial graphene films on 6H-SiC. Journal of Applied Physics, 2013, 114, 164903.	1.1	7
1469	Direct growth of graphene nanomesh using a Au nano-network as a metal catalyst via chemical vapor deposition. Applied Physics Letters, 2013, 103, 023105.	1.5	26
1470	Thermoelectric effect in single layer epitaxial graphene formed on semiconductor substrate. Simple analytical model. Low Temperature Physics, 2013, 39, 592-594.	0.2	6
1471	Improving Graphene Diffusion Barriers via Stacking Multiple Layers and Grain Size Engineering. Advanced Functional Materials, 2013, 23, 3638-3644.	7.8	68
1472	Chiral Scars in Chaotic Dirac Fermion Systems. Physical Review Letters, 2013, 110, 064102.	2.9	36
1473	Local Transport Measurements at Mesoscopic Length Scales Using Scanning Tunneling Potentiometry. Physical Review Letters, 2013, 110, 236802.	2.9	29
1474	Near-edge x-ray absorption fine structure spectroscopy study of nitrogen incorporation in chemically reduced graphene oxide. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2013, 31, .	0.6	33
1475	Polymer-assisted transfer printing of graphene composite films. Physica Status Solidi (B): Basic Research, 2013, 250, 2668-2671.	0.7	8
1476	Spin Structure of Polycyclic Aromatic Hydrocarbons. , 2013, , 305-368.		0
1478	Process simulation of hydrogen intercalation in epitaxial graphene on SiC(0001). Physica Status Solidi (B): Basic Research, 2013, 250, 1478-1482.	0.7	4
1479	Magnetotransport in graphene on silicon side of SiC. Journal of Physics: Conference Series, 2013, 456, 012038.	0.3	0
1480	Method of refractive index, roughness and uniformity of silicon carbide layer deposited by plasma enhanced chemical vapour deposition method. , 2013, , .		0
1481	A method to extract pure Raman spectrum of epitaxial graphene on SiC. Applied Physics Letters, 2013, 103, 201911.	1.5	25
1482	Influences of Mechanical Deformation on Bilayer Graphene's Magneto-Optical Absorption Properties. Journal of the Physical Society of Japan, 2013, 82, 034701.	0.7	5
1483	Carbon Nanotubes and Graphene Nanoribbons: Potentials for Nanoscale Electrical Interconnects. Electronics (Switzerland), 2013, 2, 280-314.	1.8	28
1484	Aerosol Processing of Graphene and Its Application to Oil Absorbent and Glucose Biosensor. KONA Powder and Particle Journal, 2014, 31, 111-125.	0.9	11
1485	Investigation of structural and electronic properties of epitaxial graphene on 3C–SiC(100)/Si(100) substrates. Nanotechnology, Science and Applications, 2014, 7, 85.	4.6	10
1486	Mechanism of Thin Layers Graphite Formation by ¹³ C Implantation and Annealing. Applied Sciences (Switzerland), 2014, 4, 180-194.	1.3	8

#	ARTICLE	IF	CITATIONS
1489	Chemical vapor deposited graphene: From synthesis to applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 2439-2449.	0.8	81
1490	Techniques for Production of Large Area Graphene for Electronic and Sensor Device Applications. <i>Graphene and 2D Materials</i> , 2014, 1, .	2.0	0
1491	Growth of graphene from SiC{0001} surfaces and its mechanisms. <i>Semiconductor Science and Technology</i> , 2014, 29, 064009.	1.0	35
1492	Design and Applications of Nanomaterials for Sensors. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2014, , .	0.6	6
1493	Absorption spectra of unequal width bilayer graphene nanoribbons in a spatially modulated electric field. <i>Philosophical Magazine</i> , 2014, 94, 1588-1600.	0.7	0
1494	Enhanced Performance of Dye-Sensitized Solar Cells with Graphene/ZnO Nanoparticles Bilayer Structure. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-6.	1.5	11
1495	Study on the Preparation and Fluorescence Performance of Graphene Oxide. <i>Advanced Materials Research</i> , 0, 1058, 61-64.	0.3	0
1496	Wafer bonding solution to epitaxial graphene-silicon integration. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 094001.	1.3	13
1497	Quantum corrections to the conductivity of disordered graphene on SiC $\{000\overline{1}\}$: weak localization and current-bias dependent electron-electron interactions. <i>New Journal of Physics</i> , 2014, 16, 013024.	1.2	2
1498	Sequential oxygen and alkali intercalation of epitaxial graphene on Ir(111): enhanced many-body effects and formation of $\langle i \rangle_{pn} \langle /i \rangle$ -interfaces. <i>2D Materials</i> , 2014, 1, 025002.	2.0	36
1499	Probing Electronic Properties of Graphene on the Atomic Scale by Scanning Tunneling Microscopy and Spectroscopy. <i>Graphene and 2D Materials</i> , 2014, 1, .	2.0	7
1500	Preparation and Application of Grapheme. <i>Applied Mechanics and Materials</i> , 0, 670-671, 127-129.	0.2	0
1501	Topologically guaranteed enhancement of nonlinear optical conductivity of graphene in the presence of spin-orbit coupling. <i>Physical Review B</i> , 2014, 90, .	1.1	8
1502	Microwave-induced nucleation of conducting graphitic domains on silicon carbide surfaces. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014, 32, 011215.	0.6	3
1503	Thermal stability of standalone silicene sheet. <i>Journal of Physics: Conference Series</i> , 2014, 491, 012008.	0.3	15
1504	Fundamental Properties of Graphene. <i>World Scientific Series on Carbon Nanoscience</i> , 2014, , 1-37.	0.1	4
1505	Numerous single-layer graphene sheets prepared from natural graphite by non-chemical liquid-phase exfoliation. <i>Micro and Nano Letters</i> , 2014, 9, 922-926.	0.6	7
1506	Improvement of graphene field-effect transistors by hexamethyldisilazane surface treatment. <i>Applied Physics Letters</i> , 2014, 105, 033117.	1.5	18

#	ARTICLE	IF	CITATIONS
1507	Modulation of the electron transport properties in graphene nanoribbons doped with BN chains. AIP Advances, 2014, 4, 067123.	0.6	5
1508	Effects of the contacts on shot noise in graphene nanoribbons. Physical Review B, 2014, 90, .	1.1	1
1509	Quantum chaotic tunneling in graphene systems with electron-electron interactions. Physical Review B, 2014, 90, .	1.1	13
1510	Improved rheological and electrical properties of graphene/polystyrene nanocomposites modified with styrene maleic anhydride copolymer. Composites Science and Technology, 2014, 102, 176-182.	3.8	24
1511	Controlled epitaxial graphene growth within removable amorphous carbon corrals. Applied Physics Letters, 2014, 105, .	1.5	14
1512	Graphene on Crystalline Metal Surfaces. , 0, , 691-736.		0
1513	Adsorption on epitaxial graphene on SiC(0001). Journal of Materials Research, 2014, 29, 447-458.	1.2	8
1514	Dirac point and transconductance of top-gated graphene field-effect transistors operating at elevated temperature. Journal of Applied Physics, 2014, 116, .	1.1	8
1515	Highly Conductive and Uniform Graphene hybrid Electrode with Chemical Reduction for Flexible Organic Light-Emitting Diodes. Digest of Technical Papers SID International Symposium, 2014, 45, 1336-1339.	0.1	0
1516	Graphene oxide reduced and modified by environmentally friendly glycylglycine and its excellent catalytic performance. Nanotechnology, 2014, 25, 135707.	1.3	39
1517	Structural consequences of hydrogen intercalation of epitaxial graphene on SiC(0001). Applied Physics Letters, 2014, 105, .	1.5	49
1518	Synthesis of graphene by microwave irradiation for dye adsorption. RSC Advances, 2014, 4, 64771-64780.	1.7	31
1519	Bipolar gating of epitaxial graphene by intercalation of Ge. Applied Physics Letters, 2014, 104, .	1.5	31
1520	Engineering and Applications of Carbon Materials. , 2014, , 219-525.		22
1521	Electron dynamics of the buffer layer and bilayer graphene on SiC. Applied Physics Letters, 2014, 104, .	1.5	6
1522	Carbon-Based Nanomaterials for Drugs Sensing: A Review. Materials Science Forum, 2014, 807, 13-39.	0.3	3
1523	Reactivity of the intermediates of the reduction of SO ₂ . Functionalization of graphite, graphite oxide and graphene oxide. Journal of Physical Organic Chemistry, 2014, 27, 344-351.	0.9	8
1524	Energy Gap Induced by Friedel Oscillations Manifested as Transport Asymmetry at Monolayer-Bilayer Graphene Boundaries. Physical Review X, 2014, 4, .	2.8	39

#	ARTICLE	IF	CITATIONS
1525	Anomalous increase of the thermal emf in epitaxial graphene on size-quantized films. <i>Low Temperature Physics</i> , 2014, 40, 458-461.	0.2	3
1526	Photo-generated cathodic protection performance of electrophoretically Co-deposited layers of TiO ₂ nanoparticles and graphene nanoplatelets on steel substrate. <i>Surface and Coatings Technology</i> , 2014, 258, 62-71.	2.2	19
1527	Bias free gap creation in bilayer graphene. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 225601.	0.7	2
1528	Conductivity of graphene with resonant adsorbates: beyond the nearest neighbor hopping model. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2014, 5, 015007.	0.7	4
1529	Large-scale graphene-based composite films for flexible transparent electrodes fabricated by electro-spray deposition. <i>Materials Research Express</i> , 2014, 1, 046404.	0.8	2
1530	Facile synthesis and strongly microstructure-dependent electrochemical properties of graphene/manganese dioxide composites for supercapacitors. <i>Nanoscale Research Letters</i> , 2014, 9, 490.	3.1	54
1531	Solid Phase Growth of Graphene on Silicon Carbide by Nickel Silicidation: Graphene Formation Mechanisms. <i>Materials Science Forum</i> , 0, 778-780, 1162-1165.	0.3	0
1532	High Quality Graphene Formation on 3C-SiC/4H-AlN/Si Heterostructure. <i>Materials Science Forum</i> , 0, 806, 89-93.	0.3	10
1533	Destruction of Landau levels in asymmetric bilayer nanographene ribbons. <i>Philosophical Magazine</i> , 2014, 94, 2812-2825.	0.7	2
1534	Broadband optical and microwave nonlinear response in topological insulator. <i>Optical Materials Express</i> , 2014, 4, 587.	1.6	206
1535	Defective Graphene Foam: A Platinum Catalyst Support for PEMFCs. <i>Journal of the Electrochemical Society</i> , 2014, 161, F838-F844.	1.3	42
1536	Atomic oxidation of large area epitaxial graphene on 4H-SiC(0001). <i>Applied Physics Letters</i> , 2014, 104, 093109.	1.5	8
1537	Experimental Manifestation of Berry Phase in Graphene. <i>Nanoscience and Technology</i> , 2014, , 3-27.	1.5	2
1538	Probing Dirac Fermions in Graphene by Scanning Tunneling Microscopy and Spectroscopy. <i>Nanoscience and Technology</i> , 2014, , 29-63.	1.5	2
1539	Recent advances in graphene-based planar micro-supercapacitors for on-chip energy storage. <i>National Science Review</i> , 2014, 1, 277-292.	4.6	298
1540	High-resolution x-ray analysis of graphene grown on 4H-SiC (000) at low pressures. <i>Journal of Materials Research</i> , 2014, 29, 439-446.	1.2	1
1541	2. Synthesis, characterisation and properties of graphene. , 2014, , 25-42.		0
1542	Continuously Large-Scale Preparation of Multi-Layer Graphene Grown on Polycrystalline SiC Microspheres. <i>Applied Mechanics and Materials</i> , 2014, 597, 99-102.	0.2	0

#	ARTICLE	IF	CITATIONS
1543	Transition from Tubes to Sheetsâ€”A Comparison of the Properties and Applications of Carbon Nanotubes and Graphene. , 2014, , 519-568.		2
1544	Morphological and electronic properties of epitaxial graphene on SiC. Physica B: Condensed Matter, 2014, 439, 54-59.	1.3	29
1545	Inkjet-defined field-effect transistors from chemical vapour deposited graphene. Carbon, 2014, 71, 332-337.	5.4	17
1546	Buffer layer free graphene on SiC(0001) via interface oxidation in water vapor. Carbon, 2014, 70, 258-265.	5.4	42
1547	Analytical study of electronic quantum transport in carbon-based nanomaterials. Diamond and Related Materials, 2014, 47, 7-14.	1.8	12
1548	Correlation between atomistic morphology and electron transport properties in defect-free and defected graphene nanoribbons: An interpretation through Clar sextet theory. Carbon, 2014, 75, 190-200.	5.4	6
1549	Graphene Photonics, Plasmonics, and Optoelectronics. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 72-83.	1.9	153
1550	Metals on Graphene and Carbon Nanotube Surfaces: From Mobile Atoms to Atomtronic to Bulk Metals to Clusters and Catalysts. Chemistry of Materials, 2014, 26, 184-195.	3.2	57
1551	The synthesis and characterization of graphene oxides based on a modified approach. Journal of Thermal Analysis and Calorimetry, 2014, 116, 1249-1255.	2.0	21
1552	Formation of a Buffer Layer for Graphene on C-Face SiC{0001}. Journal of Electronic Materials, 2014, 43, 819-827.	1.0	4
1553	Construction of 2D Atomic Crystals on Transition Metal Surfaces: Graphene, Silicene, and Hafnene. Small, 2014, 10, 2215-2225.	5.2	91
1554	Microstructure and growth mechanism of multi-layer graphene standing on polycrystalline SiC microspheres. Carbon, 2014, 69, 634-637.	5.4	16
1555	Ultrasound assisted reduction of graphene oxide to graphene in l-ascorbic acid aqueous solutions: Kinetics and effects of various factors on the rate of graphene formation. Ultrasonics Sonochemistry, 2014, 21, 1174-1181.	3.8	64
1556	Black phosphorus field-effect transistors. Nature Nanotechnology, 2014, 9, 372-377.	15.6	7,071
1557	Fabrication of Reduced Graphene Oxide (RGO)/Co ₃ O ₄ Nanohybrid Particles and a RGO/Co ₃ O ₄ /Poly(vinylidene fluoride) Composite with Enhanced Waveâ€”Absorption Properties. ChemPlusChem, 2014, 79, 375-381.	1.3	76
1558	Carbon Nanomaterials: A Review. , 2014, , 709-769.		40
1559	Rice Huskâ€”Derived Graphene with Nanoâ€”Sized Domains and Clean Edges. Small, 2014, 10, 2766-2770.	5.2	181
1560	Epitaxial graphene on SiC{0001}: advances and perspectives. Physical Chemistry Chemical Physics, 2014, 16, 3501.	1.3	147

#	ARTICLE	IF	CITATIONS
1561	High performance few-layer GaS photodetector and its unique photo-response in different gas environments. <i>Nanoscale</i> , 2014, 6, 2582-2587.	2.8	169
1562	Graphene Versus Ohmic Metal as Source-Drain Electrode for MoS ₂ Nanosheet Transistor Channel. <i>Small</i> , 2014, 10, 2356-2361.	5.2	89
1563	Composites prepared by penetrating poly(ethylene oxide) chains into graphene interlayers. <i>Macromolecular Research</i> , 2014, 22, 113-116.	1.0	12
1564	Chemical vapor deposition of graphene on large-domain ultra-flat copper. <i>Carbon</i> , 2014, 69, 188-193.	5.4	49
1565	An electrochemical method for the synthesis of few layer graphene sheets for high temperature applications. <i>Chemical Communications</i> , 2014, 50, 4613.	2.2	36
1566	General Strategy for Zero-Valent Intercalation into Two-Dimensional Layered Nanomaterials. <i>Chemistry of Materials</i> , 2014, 26, 2313-2317.	3.2	61
1567	Conductive Nanomaterials for Printed Electronics. <i>Small</i> , 2014, 10, 3515-3535.	5.2	707
1568	Growth of epitaxial graphene: Theory and experiment. <i>Physics Reports</i> , 2014, 542, 195-295.	10.3	228
1569	Facile one-pot synthesis of folic acid-modified graphene to improve the performance of graphene-based sensing strategy. <i>Journal of Colloid and Interface Science</i> , 2014, 426, 293-299.	5.0	13
1570	Exploring graphene formation on the C-terminated face of SiC by structural, chemical and electrical methods. <i>Carbon</i> , 2014, 69, 221-229.	5.4	21
1571	A symmetrical bi-electrode electrochemical technique for high-efficiency transfer of CVD-grown graphene. <i>Nanotechnology</i> , 2014, 25, 145704.	1.3	13
1572	Graphene's morphology and electronic properties from discrete differential geometry. <i>Physical Review B</i> , 2014, 89, .	1.1	45
1573	Two-dimensional semiconductor nanocrystals: new direction in science and technology. , 2014, , 139-212.		1
1574	Highly selective electrochemical sensor for ascorbic acid based on a novel hybrid graphene-copper phthalocyanine-polyaniline nanocomposites. <i>Electrochimica Acta</i> , 2014, 133, 294-301.	2.6	133
1575	Catalyst-free, self-assembly, and controllable synthesis of graphene flake-carbon nanotube composites for high-performance field emission. <i>Carbon</i> , 2014, 67, 525-533.	5.4	36
1576	Graphene Materials and Their Use in Dye-Sensitized Solar Cells. <i>Chemical Reviews</i> , 2014, 114, 6323-6348.	23.0	378
1577	The Role of the Gas Phase in Graphene Formation by CVD on Copper. <i>Chemical Vapor Deposition</i> , 2014, 20, 51-58.	1.4	15
1578	Electronic and Quantum Transport Properties of Atomically Identified Si Point Defects in Graphene. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1711-1718.	2.1	14

#	ARTICLE	IF	CITATIONS
1579	Morphology Control of Surfactant-Assisted Graphene Oxide Films at the Liquid-Gas Interface. <i>Langmuir</i> , 2014, 30, 2170-2177.	1.6	36
1580	Graphene synthesis. <i>Diamond and Related Materials</i> , 2014, 46, 25-34.	1.8	215
1581	Electric field effect in ultrathin black phosphorus. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	1,137
1582	Intrinsic device-to-device variation in graphene field-effect transistors on a Si/SiO ₂ substrate as a platform for discriminative gas sensing. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	30
1583	Graphene synthesis and application for solar cells. <i>Journal of Materials Research</i> , 2014, 29, 299-319.	1.2	77
1584	Nonvolatile graphene nanoflake shuttle memory. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 56, 17-23.	1.3	10
1585	Chemical Vapor Deposition of N-Doped Graphene and Carbon Films: The Role of Precursors and Gas Phase. <i>ACS Nano</i> , 2014, 8, 3337-3346.	7.3	133
1586	Optical absorption spectrum of rotated trilayer graphene. <i>Journal of Materials Science</i> , 2014, 49, 642-647.	1.7	19
1587	Determination of the elastic properties of graphene by indentation and the validity of classical models of indentation. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 015307.	0.7	11
1588	Graphene. , 2014, , 41-65.		11
1589	Nanomaterials. <i>Nanomedicine and Nanotoxicology</i> , 2014, , 1-29.	0.1	2
1590	A Direct and Polymer-Free Method for Transferring Graphene Grown by Chemical Vapor Deposition to Any Substrate. <i>ACS Nano</i> , 2014, 8, 1784-1791.	7.3	155
1591	Continuous Electrochemical Exfoliation of Micrometer-Sized Graphene Using Synergistic Ion Intercalations and Organic Solvents. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1632-1639.	4.0	122
1592	On distance variation effects on graphene bilayers. <i>Journal of Physics and Chemistry of Solids</i> , 2014, 75, 739-745.	1.9	4
1593	Exceptional ballistic transport in epitaxial graphene nanoribbons. <i>Nature</i> , 2014, 506, 349-354.	13.7	508
1594	Aqueous-Phase Oxidation of Epitaxial Graphene on the Silicon Face of SiC(0001). <i>Journal of Physical Chemistry C</i> , 2014, 118, 1014-1020.	1.5	14
1595	Room temperature reduction of multilayer graphene oxide film on a copper substrate: Penetration and participation of copper phase in redox reactions. <i>Carbon</i> , 2014, 69, 563-570.	5.4	25
1596	Nano ZnO@reduced graphene oxide composite for high performance supercapacitor: Green synthesis in supercritical fluid. <i>Electrochimica Acta</i> , 2014, 120, 65-72.	2.6	148

#	ARTICLE	IF	CITATIONS
1597	Wafer scale catalytic growth of graphene on nickel by solid carbon source. Carbon, 2014, 66, 48-56.	5.4	39
1598	Multi-layer graphene obtained by high temperature carbon implantation into nickel films. Carbon, 2014, 66, 1-10.	5.4	31
1599	Temperature induced inversion of oxygen response in CVD graphene on SiO ₂ . Sensors and Actuators B: Chemical, 2014, 190, 1006-1013.	4.0	28
1600	In Situ Reduction of Graphene Oxide in an Epoxy Resin Thermally Cured with Amine. Macromolecular Materials and Engineering, 2014, 299, 757-763.	1.7	13
1601	Electrical characteristics of multilayer MoS ₂ transistors at real operating temperatures with different ambient conditions. Applied Physics Letters, 2014, 105, 152105.	1.5	40
1602	Stable $\langle \text{inline-formula} \rangle \langle \text{tex-math notation="TeX"} \rangle \langle / \text{tex-math} \rangle \langle / \text{inline-formula} \rangle$ -Switched Erbium-Doped Fiber Laser Based on Topological Insulator Covered Microfiber. IEEE Photonics Technology Letters, 2014, 26, 987-990.	1.3	41
1603	Toxicology of chemically modified graphene-based materials for medical application. Archives of Toxicology, 2014, 88, 1987-2012.	1.9	65
1604	Transport properties of epitaxial graphene formed on the surface of a superconductor. Semiconductors, 2014, 48, 924-934.	0.2	10
1605	A field-effect device based on an exfoliated thin film of few-layer graphene. , 2014, , .		1
1606	Rotated domain network in graphene on cubic-SiC(001). Nanotechnology, 2014, 25, 135605.	1.3	14
1607	Epitaxial growth of graphene on silicon carbide (SiC). , 2014, , 3-26.		17
1608	Electronic Bandgap and Edge Reconstruction in Phosphorene Materials. Nano Letters, 2014, 14, 6400-6406.	4.5	459
1609	Scanning Tunneling Microscope and Photoemission Spectroscopy Investigations of Bismuth on Epitaxial Graphene on SiC(0001). Journal of Physical Chemistry C, 2014, 118, 24995-24999.	1.5	20
1610	Enhanced capacitance of one-dimensional polypyrrole/graphene oxide nanoribbon nanocomposite as electrode material for high performance supercapacitors. Synthetic Metals, 2014, 198, 188-195.	2.1	12
1611	Two-dimensional materials for electronic applications. MRS Bulletin, 2014, 39, 711-718.	1.7	104
1612	Effect of lattice structure of silicon carbide on crystal formation of carbide-derived carbon. Carbon, 2014, 79, 19-27.	5.4	13
1614	Graphene oxide for fluorescence-mediated enzymatic activity assays. Journal of Materials Chemistry B, 2014, 2, 2452.	2.9	24
1615	Preparation and thermoelectric properties of diphenylaminobenzylidene-substituted poly(3-methylthiophene methine)/graphite composite. RSC Advances, 2014, 4, 62096-62104.	1.7	9

#	ARTICLE	IF	CITATIONS
1616	Quasi-freestanding epitaxial graphene transistor with silicon nitride top gate. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 305103.	1.3	5
1617	Three-dimensional multilevel porous thin graphite nanosuperstructures for Ni(OH) ₂ -based energy storage devices. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15768-15773.	5.2	42
1618	Chemical Bonding of Partially Fluorinated Graphene. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26402-26408.	1.5	80
1619	Lateral homoepitaxial growth of graphene. <i>CrystEngComm</i> , 2014, 16, 2593.	1.3	10
1620	Local work function measurements of plasma-fluorinated epitaxial graphene. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	21
1621	Platinum-Decorated Nitrogen-Doped Graphene Foam Electrocatalysts. <i>Fuel Cells</i> , 2014, 14, 728-734.	1.5	19
1622	Fabrication, structure and mechanism of reduced graphene oxide-based carbon composite films. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10502.	5.2	11
1623	Two-dimensional heterostructures: fabrication, characterization, and application. <i>Nanoscale</i> , 2014, 6, 12250-12272.	2.8	323
1624	Ab Initio Study of Charge Transfer between Lithium and Aromatic Hydrocarbons. Can the Results Be Directly Transferred to the Lithium-Graphene Interaction?. <i>Journal of Physical Chemistry A</i> , 2014, 118, 7044-7051.	1.1	5
1625	Spatial variation in the electronic structures of carpetlike graphene nanoribbons and sheets. <i>Current Applied Physics</i> , 2014, 14, 1687-1691.	1.1	1
1626	Glassy carbon electrode modified with a graphene oxide/poly(o-phenylenediamine) composite for the chemical detection of hydrogen peroxide. <i>Materials Science and Engineering C</i> , 2014, 44, 144-150.	3.8	13
1627	Electrochemical behavior and voltammetric determination of acetaminophen based on glassy carbon electrodes modified with poly(4-aminobenzoic acid)/electrochemically reduced graphene oxide composite films. <i>Materials Science and Engineering C</i> , 2014, 45, 21-28.	3.8	44
1628	Electrochemically reduced graphene oxide and its capacitance performance. <i>Materials Chemistry and Physics</i> , 2014, 148, 903-908.	2.0	11
1629	Multilayer graphene, Moiré patterns, grain boundaries and defects identified by scanning tunneling microscopy on the m-plane, non-polar surface of SiC. <i>Carbon</i> , 2014, 80, 75-81.	5.4	16
1630	High-mobility transport anisotropy and linear dichroism in few-layer black phosphorus. <i>Nature Communications</i> , 2014, 5, 4475.	5.8	3,568
1631	Graphene Field-Effect Transistor and Its Application for Electronic Sensing. <i>Small</i> , 2014, 10, 4042-4065.	5.2	184
1632	Naphthalene adsorptions on graphene using Cr/Cr ₂ /Fe/Fe ₂ linkages: Stability and spin perspectives from first-principles calculations. <i>Chemical Physics Letters</i> , 2014, 614, 238-242.	1.2	0
1633	Synthesis of chemical vapor deposition graphene on tantalum wire for supercapacitor applications. <i>Applied Surface Science</i> , 2014, 317, 1100-1106.	3.1	26

#	ARTICLE	IF	CITATIONS
1634	Optical second-harmonic generation induced by electric current in graphene on Si and SiC substrates. <i>Physical Review B</i> , 2014, 89, .	1.1	64
1635	Graphene's potential in materials science and engineering. <i>RSC Advances</i> , 2014, 4, 28987-29011.	1.7	60
1636	Moiré pattern as a magnifying glass for strain and dislocations in van der Waals heterostructures. <i>Faraday Discussions</i> , 2014, 173, 137-43.	1.6	36
1637	Coalescence of Atomically Precise Clusters on Graphenic Surfaces. <i>Journal of Physical Chemistry C</i> , 2014, 118, 13959-13964.	1.5	13
1638	Selective metal deposition at graphene line defects by atomic layer deposition. <i>Nature Communications</i> , 2014, 5, 4781.	5.8	243
1639	Planar Edge Schottky Barrier-Tunneling Transistors Using Epitaxial Graphene/SiC Junctions. <i>Nano Letters</i> , 2014, 14, 5170-5175.	4.5	25
1640	Applications of Carbon Nanotubes and Graphene in Spin Electronics. , 2014, , 253-278.		3
1641	Controlling absorption spectra of strained graphene nanoribbon by magnetic modulation. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 370, 18-24.	1.0	1
1642	<i>Colloquium</i>: Graphene spectroscopy. <i>Reviews of Modern Physics</i> , 2014, 86, 959-994.	16.4	220
1643	Coherent Electron Transmission across Nanographenes Tethered to Gold Electrodes: Influence of Linker Topology, Ribbon Width, and Length. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7643-7652.	1.5	4
1644	Scalable fabrication of high quality graphene by exfoliation of edge sulfonated graphite for supercapacitor application. <i>RSC Advances</i> , 2014, 4, 35914.	1.7	21
1645	Synthesis of soluble graphene nanosheets from graphite fluoride in low-temperature molten hydroxides. <i>Materials Letters</i> , 2014, 135, 92-95.	1.3	10
1646	Fabrication of nano-ZnS coated PEDOT-reduced graphene oxide hybrids modified glassy carbon-rotating disk electrode and its application for simultaneous determination of adenine, guanine, and thymine. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 271-281.	4.0	30
1647	Epitaxial graphene on SiC: from carrier density engineering to quasi-free standing graphene by atomic intercalation. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 094013.	1.3	50
1648	Tuning electronic properties of bilayer Bernal graphene nanoribbon by magnetic modulation. <i>Solid State Communications</i> , 2014, 200, 56-60.	0.9	2
1649	Secondary Electron Intensity Contrast Imaging and Friction Properties of Micromechanically Cleaved Graphene Layers on Insulating Substrates. <i>Journal of Electronic Materials</i> , 2014, 43, 3458-3469.	1.0	18
1650	Graphene as a transparent conducting and surface field layer in planar Si solar cells. <i>Nanoscale Research Letters</i> , 2014, 9, 349.	3.1	55
1651	Synthesis and electrochemical properties of vanadium oxide materials and structures as Li-ion battery positive electrodes. <i>Journal of Power Sources</i> , 2014, 267, 831-873.	4.0	138

#	ARTICLE	IF	CITATIONS
1652	Laser-Induced Solid-Phase Doped Graphene. ACS Nano, 2014, 8, 7671-7677.	7.3	48
1653	Monolayer Selective Methylation of Epitaxial Graphene on SiC(0001) through Two-Step Chlorination-Alkylation Reactions. Journal of Physical Chemistry C, 2014, 118, 22096-22101.	1.5	20
1654	Electronics based on two-dimensional materials. Nature Nanotechnology, 2014, 9, 768-779.	15.6	2,505
1655	Aggregation of carbon atoms at SiO ₂ /SiC(0 0 0 1) interface by plasma oxidation toward formation of pit-free graphene. Carbon, 2014, 80, 440-445.	5.4	5
1656	Graphene-based macroscopic assemblies and architectures: an emerging material system. Chemical Society Reviews, 2014, 43, 7295-7325.	18.7	416
1657	Surface Microscopy with Low Energy Electrons. , 2014, , .		110
1658	Enhanced Photorefractive and Third-Order Nonlinear Optical Properties of 5CB-Based Polymer-Dispersed Liquid Crystals by Graphene Doping. Journal of Physical Chemistry C, 2014, 118, 18015-18020.	1.5	18
1659	Localization and electron-electron interactions in few-layer epitaxial graphene. Nanotechnology, 2014, 25, 245201.	1.3	3
1660	Synthesis and Structural-Mechanical Property Characteristics of Graphene-Polymer Nanocomposites. , 2014, , 335-375.		5
1661	Electronic transport in bilayer graphene. , 2014, , 228-264.		1
1662	Introducing the Triangular Defect to Effectively Engineer the Wide Band Gap of Boron Nitride Nanoribbons with Zigzag and Even Armchair Edges. Journal of Physical Chemistry C, 2014, 118, 12880-12889.	1.5	20
1663	Molybdenum Disulfide Nanoflake-Zinc Oxide Nanowire Hybrid Photoinverter. ACS Nano, 2014, 8, 5174-5181.	7.3	21
1664	Heteroatom-doped graphene for electrochemical energy storage. Science Bulletin, 2014, 59, 2102-2121.	1.7	47
1665	Thermodynamics of electrons in epitaxial graphene. Technical Physics Letters, 2014, 40, 164-166.	0.2	3
1666	Sensitive determination of vanillin based on an arginine functionalized graphene film. Analytical Methods, 2014, 6, 1753.	1.3	37
1667	Battery/supercapacitor hybrid via non-covalent functionalization of graphene macro-assemblies. Journal of Materials Chemistry A, 2014, 2, 17764-17770.	5.2	59
1668	Double-Stranded DNA-Graphene Hybrid: Preparation and Anti-Proliferative Activity. ACS Applied Materials & Interfaces, 2014, 6, 3347-3356.	4.0	26
1669	Determination of the thickness distribution of a graphene layer grown on a 2×3 SiC wafer by means of Auger electron spectroscopy depth profiling. Applied Surface Science, 2014, 316, 301-307.	3.1	4

#	ARTICLE	IF	CITATIONS
1670	Epitaxial graphene formation on 3C-SiC/Si thin films. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 094016.	1.3	31
1671	Graphene, inorganic graphene analogs and their composites for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12104.	5.2	251
1672	Nanocomposite films and coatings using inorganic nanobuilding blocks (NBB): current applications and future opportunities in the food packaging sector. <i>RSC Advances</i> , 2014, 4, 29393-29428.	1.7	100
1673	Recent advances in porous graphene materials for supercapacitor applications. <i>RSC Advances</i> , 2014, 4, 45862-45884.	1.7	213
1674	Laser-scribed graphene presents an opportunity to print a new generation of disposable electrochemical sensors. <i>Nanoscale</i> , 2014, 6, 13613-13622.	2.8	86
1675	Single step fabrication of N-doped graphene/Si ₃ N ₄ /SiC heterostructures. <i>Nano Research</i> , 2014, 7, 835-843.	5.8	17
1676	Electrochemistry of Graphene and Related Materials. <i>Chemical Reviews</i> , 2014, 114, 7150-7188.	23.0	968
1677	Effect of surface modification of graphite oxide on the morphological, thermal, and mechanical properties of polyurea/graphite oxide composites. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	2
1678	Structure and properties of nanocomposites based on PTT-block-PTMO copolymer and graphene oxide prepared by in situ polymerization. <i>European Polymer Journal</i> , 2014, 50, 69-77.	2.6	38
1679	Colloidal suspensions of N-modified graphene nano-platelets in water and organic solvent/water mixed systems. <i>Solid State Sciences</i> , 2014, 27, 1-4.	1.5	16
1680	Bilayer graphene with long-range scatterers: Diamagnetism and weak-field Hall effect. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 58, 6-15.	1.3	12
1681	Single- and bi-layer graphene grown on sapphire by molecular beam epitaxy. <i>Solid State Communications</i> , 2014, 189, 15-20.	0.9	13
1682	Intercalation of H at the graphene/SiC(0001) interface: Structure and stability from first principles. <i>Applied Surface Science</i> , 2014, 291, 64-68.	3.1	10
1683	Humidity-Sensing Properties of Urchinlike CuO Nanostructures Modified by Reduced Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 3888-3895.	4.0	184
1684	Solubilization of Fullerenes, Carbon Nanotubes, and Graphene. <i>Topics in Current Chemistry</i> , 2014, 348, 1-35.	4.0	3
1685	CVD synthesis of graphene nanoplates on MgO support. <i>Materials Science-Poland</i> , 2014, 32, 243-246.	0.4	1
1686	Direct graphene synthesis on a Si/SiO ₂ substrate by a simple annealing process. <i>Materials Research Express</i> , 2014, 1, 025028.	0.8	12
1687	Electrophoretic deposition of graphene oxide on mild carbon steel for anti-corrosion application. <i>Surface and Coatings Technology</i> , 2014, 254, 167-174.	2.2	156

#	ARTICLE	IF	CITATIONS
1688	An electronic structure perspective of graphene interfaces. <i>Nanoscale</i> , 2014, 6, 3444.	2.8	76
1690	Layer-number determination in graphene on SiC by reflectance mapping. <i>Carbon</i> , 2014, 77, 492-500.	5.4	48
1691	Redox reaction between graphene oxide and In powder to prepare In ₂ O ₃ /reduced graphene oxide hybrids for supercapacitors. <i>Journal of Power Sources</i> , 2014, 266, 282-290.	4.0	47
1692	Transport properties of epitaxial graphene formed on the surface of a metal. <i>Physics of the Solid State</i> , 2014, 56, 854-864.	0.2	6
1693	Synthesis and properties of a graphene-like macrocycle based on tetraphenylethene. <i>Tetrahedron</i> , 2014, 70, 5046-5051.	1.0	4
1694	Non-covalent synthesis of thermo-responsive graphene oxide-perylene bisimides-containing poly(N-isopropylacrylamide) hybrid for organic pigment removal. <i>Journal of Colloid and Interface Science</i> , 2014, 430, 121-128.	5.0	28
1695	Hydrogen-assisted pulsed KrF-laser irradiation for the in situ photoreduction of graphene oxide films. <i>Carbon</i> , 2014, 77, 857-867.	5.4	20
1696	Developing a nanoelectromechanical shuttle graphene-nanoflake device. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 58, 88-93.	1.3	6
1697	Numerical investigation of the effect of substrate surface roughness on the performance of zigzag graphene nanoribbon field effect transistors symmetrically doped with BN. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1569-1574.	1.5	15
1698	Electronic Band Structure and Properties of Graphene. , 2014, , 23-46.		0
1699	Optical absorption characteristics and polarization dependence of single-layer graphene on silicon waveguide. <i>IEICE Transactions on Electronics</i> , 2014, E97.C, 736-743.	0.3	0
1701	Molten sodium-induced graphitization towards highly crystalline and hierarchical porous graphene frameworks. <i>2D Materials</i> , 2015, 2, 035016.	2.0	8
1702	Moiré superlattice effects in graphene/boron nitride van der Waals heterostructures. <i>Annalen Der Physik</i> , 2015, 527, 359-376.	0.9	73
1703	Formation of defects in the graphite oxidization process: a positron study. <i>RSC Advances</i> , 2015, 5, 88908-88914.	1.7	7
1704	Observation of anomalous Hanle spin precession line shapes resulting from interaction with localized states. <i>Physical Review B</i> , 2015, 91, .	1.1	3
1705	Giant tunnel-electron injection in nitrogen-doped graphene. <i>Physical Review B</i> , 2015, 91, .	1.1	15
1706	Why graphene growth is very different on the C face than on the Si face of SiC: Insights from surface equilibria and the		

#	ARTICLE	IF	CITATIONS
1708	Conductance fluctuations in chaotic bilayer graphene quantum dots. <i>Physical Review E</i> , 2015, 92, 012918.	0.8	9
1709	Conductance stability in chaotic and integrable quantum dots with random impurities. <i>Physical Review E</i> , 2015, 92, 022901.	0.8	2
1710	Interfacial Charge States in Graphene on SiC Studied by Noncontact Scanning Nonlinear Dielectric Potentiometry. <i>Physical Review Letters</i> , 2015, 114, 226103.	2.9	31
1711	Graphene Gets a Good Gap. <i>Physics Magazine</i> , 0, 8, .	0.1	2
1713	Atomic resolution imaging of the two-component Dirac-Landau levels in a gapped graphene monolayer. <i>Physical Review B</i> , 2015, 92, .	1.1	29
1714	Semiconducting Graphene from Highly Ordered Substrate Interactions. <i>Physical Review Letters</i> , 2015, 115, 136802.	2.9	141
1715	Growth and Features of Epitaxial Graphene on SiC. <i>Journal of the Physical Society of Japan</i> , 2015, 84, 121014.	0.7	23
1717	Evidence for bandgap opening in buckled epitaxial graphene from ultrafast time-resolved terahertz spectroscopy. <i>Applied Physics Letters</i> , 2015, 107, 173107.	1.5	7
1718	An Overview of Nanomaterials. , 2015, , 22-108.		4
1719	The possibility of colossal magnetoresistance in heterostructures based on epitaxial graphene. <i>Technical Physics Letters</i> , 2015, 41, 1185-1188.	0.2	0
1720	Nanotubes, nanobelts, nanowires, and nanorods of silicon carbide from the wheat husks. <i>Journal of Applied Physics</i> , 2015, 118, 104904.	1.1	21
1721	Economical and eco-friendly recycling of used dry batteries for synthesis of graphene oxide by sheer exfoliation in presence of SDS. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	0
1722	Large-scale epitaxial growth kinetics of graphene: A kinetic Monte Carlo study. <i>Journal of Chemical Physics</i> , 2015, 143, 084109.	1.2	23
1723	Magnetoplasmons in simple hexagonal graphite. <i>RSC Advances</i> , 2015, 5, 53736-53740.	1.7	3
1724	Multiphonon Raman spectroscopy properties and Raman mapping of 2D <i>van der Waals</i> solids: graphene and beyond. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 217-230.	1.2	19
1725	PET Nanocomposites: Preparation and Characterization. , 2015, , 99-111.		1
1726	Reinforcement of Polyethylene Terephthalate via Addition of Carbon-Based Materials. , 2015, , 41-64.		2
1727	Effect of Growth Pressure on Epitaxial Graphene Grown on 4H-SiC Substrates by Using Ethene Chemical Vapor Deposition. <i>Materials</i> , 2015, 8, 5586-5596.	1.3	9

#	ARTICLE	IF	CITATIONS
1728	Surface Evolution of Nano-Textured 4H-SiC Homoepitaxial Layers after High Temperature Treatments: Morphology Characterization and Graphene Growth. <i>Nanomaterials</i> , 2015, 5, 1532-1543.	1.9	4
1729	Biosensing with Förster Resonance Energy Transfer Coupling between Fluorophores and Nanocarbon Allotropes. <i>Sensors</i> , 2015, 15, 14766-14787.	2.1	29
1730	Quantum electrical capacitance in epitaxial graphene. <i>Low Temperature Physics</i> , 2015, 41, 911-916.	0.2	0
1732	SnO ₂ quantum dots decorated on RGO: a superior sensitive, selective and reproducible performance for a H ₂ and LPG sensor. <i>Nanoscale</i> , 2015, 7, 11971-11979.	2.8	92
1733	A review on mechanical exfoliation for the scalable production of graphene. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11700-11715.	5.2	1,207
1734	Improved carrier mobility of chemical vapor deposition-graphene by counter-doping with hydrazine hydrate. <i>Applied Physics Letters</i> , 2015, 106, 091602.	1.5	5
1735	Epitaxial graphene on SiC: modification of structural and electron transport properties by substrate pretreatment. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 185303.	0.7	34
1736	High-quality, single-layered epitaxial graphene fabricated on 6H-SiC (0001) by flash annealing in Pb atmosphere and mechanism. <i>Nanotechnology</i> , 2015, 26, 105708.	1.3	15
1737	Understanding the Formation Mechanism of Graphene Frameworks Synthesized by Solvothermal and Rapid Pyrolytic Processes Based on an Alcohol-Sodium Hydroxide System. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11230-11238.	4.0	32
1738	Tip induced mechanical deformation of epitaxial graphene grown on reconstructed 6H-SiC(0001) surface during scanning tunneling and atomic force microscopy studies. <i>Nanotechnology</i> , 2015, 26, 255704.	1.3	5
1739	Exceedingly biocompatible and thin-layered reduced graphene oxide nanosheets using an eco-friendly mushroom extract strategy. <i>International Journal of Nanomedicine</i> , 2015, 10, 1505.	3.3	122
1740	Synthesis of ultra-thin carbon layers on SiC substrate by ion implantation. <i>Carbon</i> , 2015, 93, 230-241.	5.4	14
1741	Graphene frameworks synthesized with Na ₂ CO ₃ as a renewable water-soluble substrate and their high rate capability for supercapacitors. <i>Journal of Power Sources</i> , 2015, 293, 143-150.	4.0	32
1742	Graphene and beyond: two-dimensional materials for transistor applications. <i>Proceedings of SPIE</i> , 2015, , .	0.8	4
1743	Interlaminar mechanical properties of carbon fiber reinforced plastic laminates modified with graphene oxide interleaf. <i>Carbon</i> , 2015, 91, 224-233.	5.4	123
1744	Design, fabrication and electrical characterization of a low-cost and solvent-free graphene electronic device. , 2015, , .		0
1745	Realistic edge shape effects on the vibrational properties of graphene nanoribbons. , 2015, , .		3
1746	Experimental Sensing and Density Functional Theory Study of H ₂ S and SOF ₂ Adsorption on Au-Modified Graphene. <i>Advanced Science</i> , 2015, 2, 1500101.	5.6	213

#	ARTICLE	IF	CITATIONS
1747	Graphitic Carbon Nitride/Graphene Hybrids as New Active Materials for Energy Conversion and Storage. ChemNanoMat, 2015, 1, 298-318.	1.5	117
1748	Perspective on terahertz spectroscopy of graphene. Europhysics Letters, 2015, 111, 67001.	0.7	31
1749	Engineering electrical properties of graphene: chemical approaches. 2D Materials, 2015, 2, 042001.	2.0	46
1750	Chemical Vapor Deposition Growth of Graphene and Related Materials. Journal of the Physical Society of Japan, 2015, 84, 121013.	0.7	24
1751	Fabrication and Characterization of Graphene from Solid Carbon Dioxide. Advanced Materials Research, 0, 1115, 418-421.	0.3	3
1752	Synthesis of 2D materials in arc plasmas. Journal Physics D: Applied Physics, 2015, 48, 314007.	1.3	43
1753	Theory of Valley Hall Conductivity in Graphene with Gap. Journal of the Physical Society of Japan, 2015, 84, 114705.	0.7	39
1754	Multilayer MoS ₂ prepared by one-time and repeated chemical vapor depositions: anomalous Raman shifts and transistors with high ON/OFF ratio. Journal Physics D: Applied Physics, 2015, 48, 435101.	1.3	17
1755	High-Gain Subnanowatt Power Consumption Hybrid Complementary Logic Inverter with WSe ₂ Nanosheet and ZnO Nanowire Transistors on Glass. Advanced Materials, 2015, 27, 150-156.	11.1	43
1756	The thermodynamics of electrons and the thermoelectric transport in epitaxial graphene on the size-quantized films. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 69, 89-95.	1.3	16
1757	Ballistic transport of bilayer graphene nanoribbons in a spatially modulated magnetic field. Solid State Communications, 2015, 206, 6-11.	0.9	3
1758	Electrical Properties of Graphene Polymer Nanocomposites. , 2015, , 25-47.		35
1759	Atomic Structure of Epitaxial Graphene Sidewall Nanoribbons: Flat Graphene, Miniribbons, and the Confinement Gap. Nano Letters, 2015, 15, 182-189.	4.5	67
1760	The impact of graphene properties on GaN and AlN nucleation. Surface Science, 2015, 634, 81-88.	0.8	88
1761	Role of residual polymer on chemical vapor grown graphene by Raman spectroscopy. Carbon, 2015, 86, 318-324.	5.4	48
1762	Surface Diffusion of Azabenzene s-Triazine Molecules on a Strong Interacting Graphene-Metal System. Journal of Physical Chemistry C, 2015, 119, 401-406.	1.5	6
1763	Modulation of the Dirac Point Voltage of Graphene by Ion-Gel Dielectrics and Its Application to Soft Electronic Devices. ACS Nano, 2015, 9, 602-611.	7.3	28
1764	Electronic Structure of Epitaxial Single-Layer MoS ₂ . Physical Review Letters, 2015, 114, 046802.	2.9	140

#	ARTICLE	IF	CITATIONS
1765	Nonlinear subharmonic oscillation of orthotropic graphene-matrix composite. Computational Materials Science, 2015, 99, 164-172.	1.4	11
1766	Scalable Tight-Binding Model for Graphene. Physical Review Letters, 2015, 114, 036601.	2.9	74
1767	Thickness Controlled Water Vapors Assisted Growth of Multilayer Graphene by Ambient Pressure Chemical Vapor Deposition. Journal of Physical Chemistry C, 2015, 119, 3079-3089.	1.5	37
1768	Few-layer MoS ₂ Organic Thin-Film Hybrid Complementary Inverter Pixel Fabricated on a Glass Substrate. Small, 2015, 11, 2132-2138.	5.2	28
1769	Magnetic bimetallic nanoparticles supported reduced graphene oxide nanocomposite: Fabrication, characterization and catalytic capability. Journal of Alloys and Compounds, 2015, 628, 364-371.	2.8	14
1770	Deposition of graphene by sublimation of pyrolytic carbon. Optical and Quantum Electronics, 2015, 47, 851-863.	1.5	18
1771	Semiconductor-metal and metal-semiconductor transitions in twisting graphene nanoribbons. Solid State Communications, 2015, 202, 39-42.	0.9	5
1772	Graphene for nanoelectronics. Japanese Journal of Applied Physics, 2015, 54, 040102.	0.8	31
1773	Evolution, kinetics, energetics, and environmental factors of graphene degradation on silicon dioxide. Nanoscale, 2015, 7, 6093-6103.	2.8	10
1774	First-principles study on the effect of SiO ₂ layers during oxidation of 4H-SiC. Applied Physics Letters, 2015, 106, .	1.5	14
1775	Graphene-supported flocculent-like TiO ₂ nanostructures for enhanced photoelectrochemical activity and photodegradation performance. Ceramics International, 2015, 41, 7471-7477.	2.3	26
1776	Hydrogenation of the buffer-layer graphene on 6H-SiC (0001): A possible route for the engineering of graphene-based devices. Nano Research, 2015, 8, 839-850.	5.8	18
1777	Influence of the surface treatment with low-energy Ar^+ plasma on graphene and defected graphene layers. Optical and Quantum Electronics, 2015, 47, 901-912.	1.5	1
1778	Topological Crystalline Insulator Phase in Graphene Multilayers. Physical Review Letters, 2015, 114, 226802.	2.9	27
1779	Stereochemical effect of covalent chemistry on the electronic structure and properties of the carbon allotropes and graphene surfaces. Synthetic Metals, 2015, 210, 80-84.	2.1	11
1780	Quasi-Two-Dimensional SiC and SiC ₂ : Interaction of Silicon and Carbon at Atomic Thin Lattice Plane. Journal of Physical Chemistry C, 2015, 119, 19772-19779.	1.5	87
1781	Two-Dimensional, Ordered, Double Transition Metals Carbides (MXenes). ACS Nano, 2015, 9, 9507-9516.	7.3	1,395
1782	Large area CVD growth of graphene. Synthetic Metals, 2015, 210, 95-108.	2.1	182

#	ARTICLE	IF	CITATIONS
1783	Thermoelectric transport in epitaxial graphene on a size-quantized substrate. <i>Semiconductors</i> , 2015, 49, 1062-1068.	0.2	0
1784	Synthesis and Development of Graphene-Inorganic Semiconductor Nanocomposites. <i>Chemical Reviews</i> , 2015, 115, 8294-8343.	23.0	227
1785	Switching Behaviors of Graphene-Boron Nitride Nanotube Heterojunctions. <i>Scientific Reports</i> , 2015, 5, 12238.	1.6	19
1786	Nonlinear optical response in Kronig-Penney type graphene superlattice in terahertz regime. <i>Modern Physics Letters B</i> , 2015, 29, 1550060.	1.0	1
1787	The strong effect of substituents on the carbonyl reduction in graphene oxide: A DFT study. <i>Computational and Theoretical Chemistry</i> , 2015, 1068, 1-7.	1.1	12
1788	Preparation of three dimensional graphene foam-WO ₃ nanocomposite with enhanced visible light photocatalytic activity. <i>Materials Chemistry and Physics</i> , 2015, 162, 686-691.	2.0	25
1789	Graphene for Transparent Conductors. , 2015, , .		38
1790	Optical conductivity enhancement and band gap opening with silicon doped graphene. <i>Carbon</i> , 2015, 94, 1021-1027.	5.4	84
1791	Wettability of graphene. <i>2D Materials</i> , 2015, 2, 032001.	2.0	74
1792	Electrodeposition of flower-like nickel oxide on CVD-grown graphene to develop an electrochemical non-enzymatic biosensor. <i>Journal of Materials Chemistry B</i> , 2015, 3, 6301-6309.	2.9	73
1793	Magneto-optical Kramers-Kronig analysis. <i>Review of Scientific Instruments</i> , 2015, 86, 033906.	0.6	16
1794	Scalable control of graphene growth on 4H-SiC C-face using decomposing silicon nitride masks. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 152001.	1.3	7
1795	Electric field effect in ultrathin zigzag graphene nanoribbons. <i>Chinese Physics B</i> , 2015, 24, 076104.	0.7	5
1796	Adsorption of RuSex ($x=1-5$) cluster on Se-doped graphene: First principle calculations. <i>Applied Surface Science</i> , 2015, 347, 808-815.	3.1	5
1797	Defect-curing function of self-limiting Al ₂ O ₃ thin films in graphene materials. <i>Ceramics International</i> , 2015, 41, 8360-8366.	2.3	2
1798	Cu ₂ O Nanoparticles Anchored on Amine-Functionalized Graphite Nanosheet: A Potential Reusable Catalyst. <i>Langmuir</i> , 2015, 31, 5210-5219.	1.6	61
1799	Enhanced Crystallinity of Epitaxial Graphene Grown on Hexagonal SiC Surface with Molybdenum Plate Capping. <i>Scientific Reports</i> , 2015, 5, 9615.	1.6	7
1800	Ballistic bipolar junctions in chemically gated graphene ribbons. <i>Scientific Reports</i> , 2015, 5, 9955.	1.6	22

#	ARTICLE	IF	CITATIONS
1801	Edge promoted ultrasensitive electrochemical detection of organic bio-molecules on epitaxial graphene nanowalls. <i>Biosensors and Bioelectronics</i> , 2015, 70, 137-144.	5.3	40
1802	Counting graphene layers with very slow electrons. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	13
1803	Two-dimensional materials and their prospects in transistor electronics. <i>Nanoscale</i> , 2015, 7, 8261-8283.	2.8	552
1804	Low energy Ar^+ plasma thinning and thermal annealing of carbon films to few-layered graphene. <i>Optical and Quantum Electronics</i> , 2015, 47, 923-935.	1.5	4
1805	Synthesis of single-walled carbon nanotubes on graphene layers. <i>Chemical Communications</i> , 2015, 51, 8974-8977.	2.2	16
1806	Prediction of half-semiconductor antiferromagnets with vanishing net magnetization. <i>RSC Advances</i> , 2015, 5, 46640-46647.	1.7	21
1807	Graphene and carbon nanocompounds: biofunctionalization and applications in tissue engineering. <i>Biotechnology and Biotechnological Equipment</i> , 2015, 29, 415-422.	0.5	35
1808	Large-scale preparation of graphene by high temperature insertion of hydrogen into graphite. <i>Nanoscale</i> , 2015, 7, 11310-11320.	2.8	115
1809	Resistivity anisotropy measured using four probes in epitaxial graphene on silicon carbide. <i>Applied Physics Express</i> , 2015, 8, 036602.	1.1	8
1810	Improved photoelectrical performance of graphene supported highly crystallized anatase TiO ₂ . <i>Applied Physics A: Materials Science and Processing</i> , 2015, 120, 595-600.	1.1	2
1811	Finger-gate manipulated quantum transport in Dirac materials. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 205302.	0.7	2
1812	Carbon nanomaterials for photovoltaic process. <i>Nano Energy</i> , 2015, 15, 490-522.	8.2	47
1813	Tunable wide blue photoluminescence with europium decorated graphene. <i>Journal of Materials Chemistry C</i> , 2015, 3, 4030-4038.	2.7	36
1814	Graphene Single Crystals: Size and Morphology Engineering. <i>Advanced Materials</i> , 2015, 27, 2821-2837.	11.1	99
1815	A catalytic alloy approach for graphene on epitaxial SiC on silicon wafers. <i>Journal of Materials Research</i> , 2015, 30, 609-616.	1.2	60
1816	Synthesis, characterization of WS ₂ nanostructures by vapor phase deposition. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	8
1817	Nanobiosensors and Nanobioanalyses. , 2015, , .		10
1818	Volatile Organic Compounds. <i>Nanostructure Science and Technology</i> , 2015, , 1023-1046.	0.1	1

#	ARTICLE	IF	CITATIONS
1819	The transition from 3C SiC(111) to graphene captured by Ultra High Vacuum Scanning Tunneling Microscopy. <i>Carbon</i> , 2015, 91, 378-385.	5.4	36
1820	Tuning electronic and magnetic properties of zigzag graphene nanoribbons with a Stone-Wales line defect by position and axis tensile strain. <i>RSC Advances</i> , 2015, 5, 33407-33413.	1.7	15
1821	Electron scattering in graphene with adsorbed NaCl nanoparticles. <i>Journal of Applied Physics</i> , 2015, 117, 014308.	1.1	3
1822	Simultaneous Pt deposition and nitrogen doping of graphene as efficient and durable electrocatalysts for methanol oxidation. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14371-14377.	3.8	37
1823	Synergy in hybrid polymer/nanocarbon composites. A review. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 73, 204-231.	3.8	257
1824	Determination of quantitative structure-property and structure-process relationships for graphene production in water. <i>Nano Research</i> , 2015, 8, 1865-1881.	5.8	16
1825	Superpersistent currents and whispering gallery modes in relativistic quantum chaotic systems. <i>Scientific Reports</i> , 2015, 5, 8963.	1.6	15
1826	Synthesis of conjugated covalent organic frameworks/graphene composite for supercapacitor electrodes. <i>RSC Advances</i> , 2015, 5, 27290-27294.	1.7	81
1827	Suspended graphene devices with local gate control on an insulating substrate. <i>Nanotechnology</i> , 2015, 26, 405201.	1.3	6
1828	Irradiated Graphene Loaded with SnO ₂ Quantum Dots for Energy Storage. <i>ACS Nano</i> , 2015, 9, 11351-11361.	7.3	76
1829	Nonvolatile Ferroelectric Memory Circuit Using Black Phosphorus Nanosheet-Based Field-Effect Transistors with P(VDF-TrFE) Polymer. <i>ACS Nano</i> , 2015, 9, 10394-10401.	7.3	130
1830	Chemical vapor deposition growth and transport properties of MoS ₂ thin layers using molybdenum and sulfur as precursors. <i>Rare Metals</i> , 2015, , 1.	3.6	8
1831	Simple synthesis of solution-processable oxygen-enriched graphene as anode buffer layer for efficient organic solar cells. <i>Organic Electronics</i> , 2015, 27, 143-150.	1.4	6
1832	Vertically and compactly rolled-up reduced graphene oxide film/epoxy composites: a two-stage reduction method for graphene-based thermal interfacial materials. <i>RSC Advances</i> , 2015, 5, 94426-94435.	1.7	36
1833	Tailored graphene based polyurethane composites for efficient electrostatic dissipation and electromagnetic interference shielding applications. <i>RSC Advances</i> , 2015, 5, 97349-97358.	1.7	78
1834	Infrared magneto-spectroscopy of two-dimensional and three-dimensional massless fermions: A comparison. <i>Journal of Applied Physics</i> , 2015, 117, 112803.	1.1	7
1835	Folded graphene nanochannels via pulsed patterning of graphene. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	11
1836	Non-vacuum growth of graphene films using solid carbon source. <i>Applied Physics Letters</i> , 2015, 106, 221604.	1.5	8

#	ARTICLE	IF	CITATIONS
1837	Large-Area Graphene Electrodes: Using CVD to facilitate applications in commercial touchscreens, flexible nanoelectronics, and neural interfaces. <i>IEEE Nanotechnology Magazine</i> , 2015, 9, 6-14.	0.9	38
1838	Controlled growth of large area multilayer graphene on copper by chemical vapour deposition. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 23081-23087.	1.3	25
1839	Exploiting the Expressive Power of Graphene Reconfigurable Gates via Post-Synthesis Optimization. , 2015, , .		5
1840	Recent developments of camphor based carbon nanomaterial: Their latent applications and future prospects. <i>Nano Structures Nano Objects</i> , 2015, 3, 1-8.	1.9	15
1842	Synthesis, Structure, and Properties of Graphene and Graphene Oxide. , 2015, , 29-94.		18
1843	Dynamical conductivity of gated AA-stacking multilayer graphene with spin-orbital coupling. <i>RSC Advances</i> , 2015, 5, 32511-32519.	1.7	0
1844	Hydrogen-free synthesis of few-layer graphene film on different substrates by plasma enhanced chemical vapor deposition. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 6961-6969.	1.1	2
1845	Transport Gap Opening and High On-Off Current Ratio in Trilayer Graphene with Self-Aligned Nanodomain Boundaries. <i>ACS Nano</i> , 2015, 9, 8967-8975.	7.3	21
1846	The impact of substrate selection for the controlled growth of graphene by molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2015, 425, 274-278.	0.7	13
1847	Superlattice effects in graphene on SiC(0001) and Ir(111) probed by ARPES. <i>Synthetic Metals</i> , 2015, 210, 85-94.	2.1	11
1848	Compressive strength sensitivity of cement mortar using rice husk-derived graphene with a high specific surface area. <i>Construction and Building Materials</i> , 2015, 96, 189-197.	3.2	67
1849	Waltzing with the Versatile Platform of Graphene to Synthesize Composite Photocatalysts. <i>Chemical Reviews</i> , 2015, 115, 10307-10377.	23.0	1,017
1850	Graphene layers on Si-face and C-face surfaces and interaction with Si and C atoms in layer controlled graphene growth on SiC substrates. <i>RSC Advances</i> , 2015, 5, 78625-78633.	1.7	7
1851	A Study on Graphitization of 4H-SiC(0001) Surface under Low Pressure Oxygen Atmosphere and Effects of Pre-Oxidation Treatment. <i>Materials Science Forum</i> , 2015, 821-823, 949-952.	0.3	0
1852	Anti-stacking dense conversion of solid organic sodium salt particles into graphene with excellent electrode performance. <i>RSC Advances</i> , 2015, 5, 57576-57580.	1.7	4
1853	Electrical conductive behavior of polymer composites prepared with aqueous graphene dispersions. <i>Applied Materials Today</i> , 2015, 1, 88-94.	2.3	31
1854	Green fabricated reduced graphene oxide: evaluation of its application as nano-carrier for pH-sensitive drug delivery. <i>International Journal of Pharmaceutics</i> , 2015, 496, 984-992.	2.6	48
1855	The study of interaction and charge transfer at black phosphorus-metal interfaces. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 445101.	1.3	12

#	ARTICLE	IF	CITATIONS
1856	Nanoscale measurements of unoccupied band dispersion in few-layer graphene. <i>Nature Communications</i> , 2015, 6, 8926.	5.8	43
1857	A simple visible light photo-assisted method for assembling and curing multilayer GO thin films. <i>Materials Chemistry and Physics</i> , 2015, 165, 125-133.	2.0	4
1858	Realising the potential of graphene-based materials for biosurfaces – A future perspective. <i>Biosurface and Biotribology</i> , 2015, 1, 229-248.	0.6	55
1859	Graphene oxide and graphene from low grade coal: Synthesis, characterization and applications. <i>Current Opinion in Colloid and Interface Science</i> , 2015, 20, 362-366.	3.4	58
1860	Ortho and Para Hydrogen Dimers on G/SiC(0001): Combined STM and DFT Study. <i>Langmuir</i> , 2015, 31, 233-239.	1.6	12
1861	Hydrothermal method for the production of reduced graphene oxide. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 68, 81-86.	1.3	123
1862	Enhancement of electron-hole superfluidity in double few-layer graphene. <i>Scientific Reports</i> , 2014, 4, 7319.	1.6	42
1863	Systematic pseudopotentials from reference eigenvalue sets for DFT calculations. <i>Computational Materials Science</i> , 2015, 98, 372-389.	1.4	57
1864	Mechanics of freely suspended ultrathin layered materials. <i>Annalen Der Physik</i> , 2015, 527, 27-44.	0.9	145
1865	Atomic-scale mechanism of grain boundary motion in graphene. <i>Carbon</i> , 2015, 84, 146-150.	5.4	8
1866	Synthesis of Two-Dimensional Materials by Selective Extraction. <i>Accounts of Chemical Research</i> , 2015, 48, 128-135.	7.6	590
1867	Novel one-pot green synthesis of graphene in aqueous medium under microwave irradiation using a regenerative catalyst and the study of its electrochemical properties. <i>New Journal of Chemistry</i> , 2015, 39, 420-430.	1.4	43
1868	A facile process for soak-and-peel delamination of CVD graphene from substrates using water. <i>Scientific Reports</i> , 2014, 4, 3882.	1.6	76
1869	Fabrication of stable aqueous dispersions of graphene using gellan gum as a reducing and stabilizing agent and its nanohybrids. <i>Materials Chemistry and Physics</i> , 2015, 149-150, 129-139.	2.0	11
1870	First-principle analysis of the electronic and optical properties of boron and nitrogen doped carbon mono-layer graphenes. <i>Carbon</i> , 2015, 81, 179-192.	5.4	61
1872	<i>Bioengineering.</i> , 2015, , .		5
1873	Electronic properties of impurity-infected few-layer graphene nanoribbons. <i>Physica B: Condensed Matter</i> , 2015, 458, 107-113.	1.3	2
1874	Electrochemiluminescence sensor based on Graphene Oxide/Polypyrrole/CdSe nanocomposites. <i>Journal of Alloys and Compounds</i> , 2015, 622, 1027-1032.	2.8	23

#	ARTICLE	IF	CITATIONS
1875	Epitaxial Graphene. , 2015, , 755-783.		1
1876	Ultralow temperature synthesis and improved adsorption performance of graphene oxide nanosheets. Applied Surface Science, 2015, 324, 363-368.	3.1	10
1877	Quantitative evaluation of delamination of graphite by wet media milling. Carbon, 2015, 81, 284-294.	5.4	71
1878	Barium ferrite decorated reduced graphene oxide nanocomposite for effective electromagnetic interference shielding. Physical Chemistry Chemical Physics, 2015, 17, 1610-1618.	1.3	184
1879	Green synthesis of boron doped graphene and its application as high performance anode material in Li ion battery. Materials Research Bulletin, 2015, 61, 383-390.	2.7	144
1880	Si-mediated fabrication of reduced graphene oxide and its hybrids for electrode materials. Green Chemistry, 2015, 17, 776-780.	4.6	4
1881	Synthesis and utilisation of graphene for fabrication of electrochemical sensors. Talanta, 2015, 131, 424-443.	2.9	173
1882	Molecularly engineered graphene surfaces for sensing applications: A review. Analytica Chimica Acta, 2015, 859, 1-19.	2.6	192
1883	Magnetic Exchange Coupling and Anisotropy of 3d Transition Metal Nanowires on Graphyne. Scientific Reports, 2014, 4, 4014.	1.6	56
1884	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. Nanoscale, 2015, 7, 4598-4810.	2.8	2,452
1885	Porous Graphene Materials for Energy Storage and Conversion Applications. , 0, , .		2
1886	Two-Dimensional Electronics " Prospects and Challenges. Electronics (Switzerland), 2016, 5, 30.	1.8	2
1887	Titanium Dioxide Nanoparticle-Biomolecule Interactions Influence Oral Absorption. Nanomaterials, 2016, 6, 225.	1.9	33
1888	Charge Trapping in Monolayer and Multilayer Epitaxial Graphene. Journal of Nanomaterials, 2016, 2016, 1-4.	1.5	2
1889	Thickness Dependent Interlayer Magnetoresistance in Multilayer Graphene Stacks. Journal of Nanomaterials, 2016, 2016, 1-10.	1.5	4
1890	A Review of Graphene on NEMS. Recent Patents on Nanotechnology, 2016, 10, 3-10.	0.7	16
1891	Heteroatom-Doped Graphene-Based Hybrid Materials for Hydrogen Energy Conversion. , 2016, , .		7
1892	Epitaxial Graphene on SiC: A Review of Growth and Characterization. Crystals, 2016, 6, 53.	1.0	169

#	ARTICLE	IF	CITATIONS
1893	Gas Sensing Analysis of Ag-Decorated Graphene for Sulfur Hexafluoride Decomposition Products Based on the Density Functional Theory. <i>Sensors</i> , 2016, 16, 1830.	2.1	25
1894	Combined Effect of Textured Patterns and Graphene Flake Additives on Tribological Behavior under Boundary Lubrication. <i>PLoS ONE</i> , 2016, 11, e0152143.	1.1	21
1895	Theoretical Study of Graphene on SiC(11-20) a-Face. <i>E-Journal of Surface Science and Nanotechnology</i> , 2016, 14, 113-120.	0.1	1
1896	Fluorophore and protein conjugated Diels-Alder functionalized CVD graphene layers. <i>Optical Materials Express</i> , 2016, 6, 3242.	1.6	8
1897	Synthesis and applications of carbon nanomaterials for energy generation and storage. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 149-196.	1.5	118
1899	Graphene growth on silicon carbide: A review. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 2277-2289.	0.8	188
1900	Effects of Pb Intercalation on the Structural and Electronic Properties of Epitaxial Graphene on SiC. <i>Small</i> , 2016, 12, 3956-3966.	5.2	39
1901	Single-step scalable synthesis of three-dimensional highly porous graphene with favorable methane adsorption. <i>Chemical Engineering Journal</i> , 2016, 304, 784-792.	6.6	50
1902	2D-Crystal-Based Functional Inks. <i>Advanced Materials</i> , 2016, 28, 6136-6166.	11.1	371
1903	Enabling Quality Interfaces with Mask-Free Approach to Selective Growth of MoS ₂ /Graphene Stacked Structures. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600098.	1.9	9
1904	Atomically Resolved Elucidation of the Electrochemical Covalent Molecular Grafting Mechanism of Single Layer Graphene. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600196.	1.9	11
1905	Electronic Structure of ABC-stacked Multilayer Graphene and Trigonal Warping: A First Principles Calculation. <i>Journal of Physics: Conference Series</i> , 2016, 707, 012022.	0.3	7
1906	C-chain-doping induced band-state transition in armchair AlN nanoribbons. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 1643-1648.	0.7	2
1907	Calculation of electron spectra and some problems in the thermodynamics of graphene layers. <i>Journal of Experimental and Theoretical Physics</i> , 2016, 122, 341-360.	0.2	6
1908	Few layer graphene synthesis via SiC decomposition at low temperature and low vacuum. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 165301.	1.3	4
1909	Catalytic reduction of CO ₂ to alcohol with Cu ₂ Se-combined graphene binary nanocomposites. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2016, 24, 555-563.	1.0	10
1910	Polymer/Graphene Hybrids for Advanced Energy Conversion and Storage Materials. <i>Chemistry - an Asian Journal</i> , 2016, 11, 1151-1168.	1.7	31
1911	Conduction band population in graphene in ultrashort strong laser field: Case of massive Dirac particles. <i>International Journal of Modern Physics B</i> , 2016, 30, 1650122.	1.0	4

#	ARTICLE	IF	CITATIONS
1912	Raman Signatures of Single Layer Graphene Dispersed in Degassed Water, "Eau de Graphene"™. Journal of Physical Chemistry C, 2016, 120, 28204-28214.	1.5	25
1913	Laser-induced phase separation of silicon carbide. Nature Communications, 2016, 7, 13562.	5.8	75
1914	A robust relativistic quantum two-level system with edge-dependent currents and spin polarization. Europhysics Letters, 2016, 115, 20005.	0.7	6
1915	Theoretical impurity-limited carrier mobility of monolayer black phosphorus. Applied Physics Letters, 2016, 108, .	1.5	14
1916	Epitaxial graphene on SiC formed by the surface structure control technique. Japanese Journal of Applied Physics, 2016, 55, 06GF03.	0.8	17
1917	Low Temperature Graphene Film Formation with Ethane Cluster Ion Implantation. , 2016, , .		0
1918	New Flexible Channels for Room Temperature Tunneling Field Effect Transistors. Scientific Reports, 2016, 6, 20293.	1.6	5
1919	Self-assembly of water molecules using graphene nanoresonators. RSC Advances, 2016, 6, 110466-110470.	1.7	5
1920	Modification of electronic properties of graphene by using low-energy K+ ions. Applied Physics Letters, 2016, 108, 181605.	1.5	3
1921	High temperature MBE of graphene on sapphire and hexagonal boron nitride flakes on sapphire. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2016, 34, .	0.6	22
1922	Synthesis of graphene and graphene nanostructures by ion implantation and pulsed laser annealing. Journal of Applied Physics, 2016, 120, .	1.1	4
1923	Photocatalytic removal of phenol over titanium dioxide- reduced graphene oxide photocatalyst. IOP Conference Series: Materials Science and Engineering, 2016, 107, 012001.	0.3	9
1924	Quantum Hall effect in epitaxial graphene with permanent magnets. Scientific Reports, 2016, 6, 38393.	1.6	9
1925	Nanoselective area growth of GaN by metalorganic vapor phase epitaxy on 4H-SiC using epitaxial graphene as a mask. Applied Physics Letters, 2016, 108, .	1.5	15
1926	Metal-free GO-SiPr-SO ₃ H Nanosheets Catalyzed Ultrasound Promoted One-pot Synthesis of Star-Shape Phenolic Compounds in Water and Study of Their In-vitro Antimicrobial Activities. ChemistrySelect, 2016, 1, 6490-6498.	0.7	12
1927	Comeback of epitaxial graphene for electronics: large-area growth of bilayer-free graphene on SiC. 2D Materials, 2016, 3, 041002.	2.0	135
1928	Gaussian orthogonal ensemble statistics in graphene billiards with the shape of classically integrable billiards. Physical Review E, 2016, 94, 062214.	0.8	19
1929	Symmetry induced semimetal-semiconductor transition in doped graphene. Scientific Reports, 2016, 6, 19115.	1.6	23

#	ARTICLE	IF	CITATIONS
1930	Organic functionalization of epitaxial graphene on SiC through direct binding of transient radicals from the reaction mixture. <i>Chemical Communications</i> , 2016, 52, 14380-14383.	2.2	5
1931	Terahertz and mid-infrared reflectance of epitaxial graphene. <i>Scientific Reports</i> , 2016, 6, 24301.	1.6	23
1932	Buffer-eliminated, charge-neutral epitaxial graphene on oxidized 4H-SiC (0001) surface. <i>Journal of Applied Physics</i> , 2016, 119, 215305.	1.1	3
1933	Observation of Mg-induced structural and electronic properties of graphene. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	5
1934	HRTEM low dose: the unfold of the morphed graphene, from amorphous carbon to morphed graphenes. <i>Advanced Structural and Chemical Imaging</i> , 2016, 2, 10.	4.0	33
1935	Low-temperature growth of layered molybdenum disulphide with controlled clusters. <i>Scientific Reports</i> , 2016, 6, 21854.	1.6	59
1936	Electron localization due to side-attached molecules on graphene nanoribbons. <i>Journal of Applied Physics</i> , 2016, 120, 164310.	1.1	2
1937	Many-body electron correlations in graphene. <i>Journal of Physics: Conference Series</i> , 2016, 702, 012008.	0.3	4
1938	Variability of structural and electronic properties of bulk and monolayer Si ₂ Te ₃ . <i>Applied Physics Letters</i> , 2016, 109, .	1.5	24
1939	Method for determining the residual electron- and hole-densities about the neutrality point over the gate-controlled n → p transition in graphene. <i>Applied Physics Letters</i> , 2016, 108, 033507.	1.5	11
1940	Single layer nano graphene platelets derived from graphite nanofibres. <i>Nanoscale</i> , 2016, 8, 8810-8818.	2.8	19
1941	Modulating doping and interface magnetism of epitaxial graphene on SiC(0001). <i>Chinese Physics B</i> , 2016, 25, 017302.	0.7	2
1942	Entanglement generation due to the Klein tunneling in a graphene sheet. <i>Quantum Information Processing</i> , 2016, 15, 2377-2391.	1.0	4
1943	Demonstration of enhanced the photocatalytic effect with PtSe ₂ and TiO ₂ treated large area graphene obtained by CVD method. <i>Materials Science in Semiconductor Processing</i> , 2016, 48, 106-114.	1.9	20
1944	Device applications of epitaxial graphene on silicon carbide. <i>Vacuum</i> , 2016, 128, 186-197.	1.6	30
1945	Linear magnetoresistance in monolayer epitaxial graphene grown on SiC. <i>Materials Letters</i> , 2016, 174, 118-121.	1.3	14
1946	Enhanced Terahertz Emission from Monolayer Graphene with Metal Mesh Structure. <i>Materials Today: Proceedings</i> , 2016, 3, S221-S226.	0.9	0
1947	Simultaneous growth of monolayer graphene on Ni-Cu bimetallic catalyst by atmospheric pressure CVD process. <i>RSC Advances</i> , 2016, 6, 41447-41452.	1.7	2

#	ARTICLE	IF	CITATIONS
1948	Diamagnetism in zigzag hexagonal graphene rings. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 1102-1104.	0.9	4
1949	Weak-Field Hall Effect in Graphene with Long-Range Scatterers. <i>Journal of the Physical Society of Japan</i> , 2016, 85, 014708.	0.7	14
1950	Heteroepitaxial growth of wafer scale highly oriented graphene using inductively coupled plasma chemical vapor deposition. <i>2D Materials</i> , 2016, 3, 021001.	2.0	12
1951	Solution processable high-performance infrared organic photodetector by iodine doping. <i>RSC Advances</i> , 2016, 6, 45166-45171.	1.7	22
1952	Au nano dumbbells catalyzed the cutting of graphene oxide sheets upon plasmon-enhanced reduction. <i>RSC Advances</i> , 2016, 6, 46218-46225.	1.7	10
1953	An analytical solution for the graphene electronic spectrum in the presence of external fields and confinement potential. <i>International Journal of Modern Physics B</i> , 2016, 30, 1650062.	1.0	1
1954	Progress on the graphene-involved catalytic hydrogenation reactions. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 67, 126-139.	2.7	11
1955	Graphene-Based Enhanced Raman Scattering toward Analytical Applications. <i>Chemistry of Materials</i> , 2016, 28, 6426-6435.	3.2	120
1956	Transfer-Free Fabrication of Graphene Scaffolds on High-k Dielectrics from Metal-Organic Oligomers. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25469-25475.	4.0	1
1957	Integrated high responsivity photodetectors based on graphene/glass hybrid waveguide. <i>Optics Letters</i> , 2016, 41, 4214.	1.7	3
1960	Conduction quantization in monolayer MoS ₂ . <i>Chemical Physics Letters</i> , 2016, 663, 40-44.	1.2	1
1961	MBE growth of self-assisted InAs nanowires on graphene. <i>Semiconductor Science and Technology</i> , 2016, 31, 115005.	1.0	13
1962	A novel PVdF-based composite gel polymer electrolyte doped with ionomer modified graphene oxide. <i>RSC Advances</i> , 2016, 6, 97338-97345.	1.7	19
1963	Combining graphene with silicon carbide: synthesis and properties – a review. <i>Semiconductor Science and Technology</i> , 2016, 31, 113004.	1.0	38
1964	Functionalized-Graphene Composites: Fabrication and Applications in Sustainable Energy and Environment. <i>Chemistry of Materials</i> , 2016, 28, 8082-8118.	3.2	179
1965	Revival resonant scattering, perfect caustics, and isotropic transport of pseudospin-1 particles. <i>Physical Review B</i> , 2016, 94, .	1.1	26
1966	Atomic resolution of nitrogen-doped graphene on Cu foils. <i>Nanotechnology</i> , 2016, 27, 365702.	1.3	8
1967	Theory of the Structural, Electronic and Transport Properties of Graphene. , 2016, , 19-52.		5

#	ARTICLE	IF	CITATIONS
1968	Efficient cleaning of graphene from residual lithographic polymers by ozone treatment. Carbon, 2016, 109, 221-226.	5.4	24
1969	Oscillatory behaviour of the surface reduction process of multilayer graphene oxide at room temperature. RSC Advances, 2016, 6, 78194-78201.	1.7	4
1970	Ni-Co-Se nanoparticles modified reduced graphene oxide nanoflakes, an advance electrocatalyst for highly efficient hydrogen evolution reaction. Electrochimica Acta, 2016, 213, 423-431.	2.6	32
1971	Controllable Synthesis of Graphene by Plasma-Enhanced Chemical Vapor Deposition and Its Related Applications. Advanced Science, 2016, 3, 1600003.	5.6	147
1972	Growth and optical properties of colloidal graphene quantum dots. Physica Status Solidi - Rapid Research Letters, 2016, 10, 91-101.	1.2	14
1973	Thermal and Thermoelectric Transport in Graphene. , 2016, , 253-272.		0
1974	Graphene Applications. , 2016, , 665-686.		0
1975	Understanding the effect of n-type and p-type doping in the channel of graphene nanoribbon transistor. Bulletin of Materials Science, 2016, 39, 1303-1309.	0.8	8
1976	Nebulized spray pyrolysis: a new method for synthesis of graphene film and their characteristics. Surface and Coatings Technology, 2016, 307, 65-72.	2.2	20
1977	Berry phase and Landau levels in epitaxial graphene. International Journal of Modern Physics B, 2016, 30, 1650156.	1.0	0
1978	Single-molecule devices with graphene electrodes. Dalton Transactions, 2016, 45, 16570-16574.	1.6	47
1979	Illumination impact on electrical properties of Ag/0.6wt% nanographene oxide doped poly(vinyl) Tj ETQq1 1 0.784314 rgBT JOverload	2.8	22
1980	Electrocatalytic performances of heteroatom-containing functionalities in N-doped reduced graphene oxides. Journal of Industrial and Engineering Chemistry, 2016, 42, 149-156.	2.9	22
1981	An ATP Aptasensor Based on the Peroxidase-like Activity of Hemin/Graphene Oxide Nanosheets. Analytical Sciences, 2016, 32, 565-569.	0.8	8
1982	Understanding of the major reactions in solution synthesis of functional nanomaterials. Science China Materials, 2016, 59, 938-996.	3.5	86
1983	Electron heat conductivity of epitaxial graphene on silicon carbide. Technical Physics Letters, 2016, 42, 779-782.	0.2	0
1984	Large-scale cellulose-assisted transfer of graphene toward industrial applications. Carbon, 2016, 110, 286-291.	5.4	38
1985	Non-catalytic direct synthesis of graphene on Si (111) wafers by using inductively-coupled plasma chemical vapor deposition. Journal of the Korean Physical Society, 2016, 69, 536-540.	0.3	1

#	ARTICLE	IF	CITATIONS
1986	Graphene and its derivatives for laser protection. Progress in Materials Science, 2016, 84, 118-157.	16.0	128
1987	Wetting behavior of water on silicon carbide polar surfaces. Physical Chemistry Chemical Physics, 2016, 18, 28033-28039.	1.3	27
1988	Variable range hopping and nonlinear transport in monolayer epitaxial graphene grown on SiC. Semiconductor Science and Technology, 2016, 31, 105008.	1.0	8
1989	A Fitting Model for Asymmetric μ_{eff} Characteristics of Graphene FETs for Extraction of Intrinsic Mobilities. IEEE Transactions on Electron Devices, 2016, 63, 3300-3306.	1.6	11
1991	Insulator-quantum Hall transition in monolayer epitaxial graphene. RSC Advances, 2016, 6, 71977-71982.	1.7	12
1992	Atomic-Scale Exfoliation and Adhesion of Nanocarbon. , 2016, , 133-142.		2
1993	Fabrication Methods of Graphene Nanoribbons. , 2016, , 151-166.		0
1994	Functionalized Graphene: Synthesis and Its Applications in Electrochemistry. , 2016, , 167-188.		0
1995	Synthesis of Graphene by Pyrolysis of Organic Matter. , 2016, , 363-378.		0
1996	Hydrogenated Graphene: Preparation, Properties, and Applications. , 2016, , 449-468.		0
1997	New family of graphene-based organic semiconductors: An investigation of photon-induced electronic structure manipulation in half-fluorinated graphene. Physical Review B, 2016, 93, .	1.1	5
1998	Robust Phonon-Plasmon Coupling in Quasifreestanding Graphene on Silicon Carbide. Physical Review Letters, 2016, 116, 106802.	2.9	30
2000	Monitoring the operation of a graphene transistor in an integrated circuit by XPS. Organic Electronics, 2016, 37, 178-182.	1.4	7
2001	Two-photon absorption in gapped bilayer graphene with a tunable chemical potential. Journal of Physics Condensed Matter, 2016, 28, 365001.	0.7	8
2002	Energy gaps of atomically precise armchair graphene sidewall nanoribbons. Physical Review B, 2016, 93, .	1.1	54
2003	Relatively low temperature deposition of graphene like films with ethane GCIB irradiation. Surface and Coatings Technology, 2016, 306, 218-221.	2.2	0
2005	Charge susceptibilities of armchair graphene nanoribbon in the presence of magnetic field. Chinese Physics B, 2016, 25, 097303.	0.7	6
2006	Formation of Silicene Nanosheets on Graphite. ACS Nano, 2016, 10, 11163-11171.	7.3	84

#	ARTICLE	IF	CITATIONS
2007	Application of the Generalized Relativistic Kinetic and Hydrodynamic Equations to the Study of Graphene. , 2016, , 285-352.		0
2008	Hydrogenations and electric field induced magnetic behaviors in armchair silicene nanoribbons. Scientific Reports, 2016, 6, 23677.	1.6	29
2009	Graphene and graphene-based nanocomposites: biomedical applications and biosafety. Journal of Materials Chemistry B, 2016, 4, 7813-7831.	2.9	140
2010	The effect of the surface energy and structure of the SiC substrate on epitaxial graphene growth. RSC Advances, 2016, 6, 100908-100915.	1.7	13
2011	Scalable synthesis of WS ₂ on graphene and h-BN: an all-2D platform for light-matter transduction. 2D Materials, 2016, 3, 031013.	2.0	36
2012	Reduced Graphene Oxide Thin Film on Conductive Substrates by Bipolar Electrochemistry. Scientific Reports, 2016, 6, 21282.	1.6	25
2013	2D electronics - opportunities and limitations. , 2016, , .		5
2014	Metal-induced rapid transformation of diamond into single and multilayer graphene on wafer scale. Nature Communications, 2016, 7, 12099.	5.8	70
2015	Graphene on C-terminated face of 4H-SiC observed by noncontact scanning nonlinear dielectric potentiometry. Japanese Journal of Applied Physics, 2016, 55, 08NB02.	0.8	2
2016	MOSFET scaling: Impact of two-dimensional channel materials. , 2016, , .		6
2017	Multigraphene growth on lead-pencil drawn silver halide print paper irradiated by scanning femtosecond laser. Japanese Journal of Applied Physics, 2016, 55, 01AE24.	0.8	1
2019	Low-Voltage Complementary Electronics from Ion-Gated Vertical Van der Waals Heterostructures. Advanced Materials, 2016, 28, 3742-3748.	11.1	91
2020	Effect of Fe, Co, Si and Ge impurities on optical properties of graphene sheet. Thin Solid Films, 2016, 612, 214-224.	0.8	6
2021	Production of Ni(OH) ₂ nanosheets by liquid phase exfoliation: from optical properties to electrochemical applications. Journal of Materials Chemistry A, 2016, 4, 11046-11059.	5.2	71
2022	Fabrication techniques and applications of flexible graphene-based electronic devices. Journal of Semiconductors, 2016, 37, 041001.	2.0	25
2023	RKKY interaction in spin polarized armchair graphene nanoribbon. Journal of Magnetism and Magnetic Materials, 2016, 417, 272-278.	1.0	7
2024	Graphene based architectures for electrochemical capacitors. Energy Storage Materials, 2016, 5, 8-32.	9.5	71
2025	Magnetic Properties of Nanographene Bilayer. , 2016, , 177-188.		0

#	ARTICLE	IF	CITATIONS
2026	Raman and FTIR Spectroscopy as Valuable Tools for the Characterization of Graphene-Based Materials. , 2016, , 253-272.		0
2027	Application of Graphene and Graphene Oxide in Dye-Sensitized Solar Cells. , 2016, , 399-414.		0
2028	Graphene-Based Sensors: Current Status and Future Trends. , 2016, , 211-234.		2
2029	Electronic quantum confinement in cylindrical potential well. European Physical Journal D, 2016, 70, 1.	0.6	16
2030	Dynamics of effusive and diffusive gas separation on pillared graphene. Physical Chemistry Chemical Physics, 2016, 18, 17018-17023.	1.3	14
2031	Thin film growth of aromatic rod-like molecules on graphene. Nanotechnology, 2016, 27, 292001.	1.3	21
2032	Modular Graphene-Based 3D Covalent Networks: Functional Architectures for Energy Applications. Small, 2016, 12, 1044-1052.	5.2	25
2033	Influence of ion irradiation on temperature dependent electrical transport behavior of thin graphite flakes. Materials Science-Poland, 2016, 34, 399-403.	0.4	2
2034	Graphene oxide: strategies for synthesis, reduction and frontier applications. RSC Advances, 2016, 6, 64993-65011.	1.7	428
2035	Structural, Vibrational, and Thermal Properties of Nanocrystalline Graphene in Atomistic Simulations. Journal of Physical Chemistry C, 2016, 120, 3026-3035.	1.5	15
2036	Influence of oxygen-containing groups on the photocatalytic properties of ZnO/graphene oxide composite. Materials Letters, 2016, 169, 172-175.	1.3	9
2037	Current-Driven Hydrogen Desorption from Graphene: Experiment and Theory. Journal of Physical Chemistry Letters, 2016, 7, 486-494.	2.1	8
2038	Green Synthesis of Graphene Based Biomaterial Using Fenugreek Seeds for Lipid Detection. ACS Sustainable Chemistry and Engineering, 2016, 4, 871-880.	3.2	40
2039	Few-layer graphene growth from polystyrene as solid carbon source utilizing simple APCVD method. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 81, 302-307.	1.3	9
2040	Preparation and tribological properties of novel boehmite/graphene oxide nano-hybrid. Ceramics International, 2016, 42, 6178-6186.	2.3	68
2041	Formation of larger-area graphene from small GO sheets in the presence of basic divalent sulfide species and its use in biomass conversion. RSC Advances, 2016, 6, 11176-11184.	1.7	8
2042	First principles study on the interfacial properties of NM/graphdiyne (NM = Pd, Pt, Rh and Ir): The implications for NM growing. Applied Surface Science, 2016, 360, 1-7.	3.1	90
2043	Quantitative investigation of the fragmentation process and defect density evolution of oxo-functionalized graphene due to ultrasonication and milling. Carbon, 2016, 96, 897-903.	5.4	31

#	ARTICLE	IF	CITATIONS
2044	Halogenation of epitaxial graphene grown on the Si-face of the SiC(0001) substrate and its further reaction with Grignard reagent. <i>New Journal of Chemistry</i> , 2016, 40, 1671-1678.	1.4	14
2045	Interactions Between Electrolytes and Carbon-Based Materials—NMR Studies on Electrical Double-Layer Capacitors, Lithium-Ion Batteries, and Fuel Cells. <i>Annual Reports on NMR Spectroscopy</i> , 2016, , 237-318.	0.7	17
2046	Graphene Functionalization for Biosensor Applications. , 2016, , 85-141.		43
2047	Ultrafast electron transport in graphene and magnetic nanostructures. , 2016, , .		0
2048	Synthesis of graphene. <i>International Nano Letters</i> , 2016, 6, 65-83.	2.3	516
2049	Deposition of graphene/graphene-related phases on different substrates by thermal decomposition of acetone. <i>Optical and Quantum Electronics</i> , 2016, 48, 1.	1.5	3
2050	Engineer-able optical properties of trilayer graphene nanoribbon. <i>Physica Scripta</i> , 2016, 91, 035802.	1.2	4
2051	Role of silicon dangling bonds in the electronic properties of epitaxial graphene on silicon carbide. <i>Nanotechnology</i> , 2016, 27, 125705.	1.3	12
2052	Enhancement of spin polarization by chaos in graphene quantum dot systems. <i>Physical Review B</i> , 2016, 93, .	1.1	10
2053	Solution processed reduced graphene oxide electrodes for organic photovoltaics. <i>Nanoscale Horizons</i> , 2016, 1, 375-382.	4.1	43
2054	Bottom-up realization and electrical characterization of a graphene-based device. <i>Nanotechnology</i> , 2016, 27, 095204.	1.3	49
2055	Electrochemical properties of modified highly ordered pyrolytic graphite by using ambient plasma. <i>Chemical Physics Letters</i> , 2016, 644, 288-291.	1.2	8
2056	Few layers isolated graphene domains grown on copper foils by microwave surface wave plasma CVD using camphor as a precursor. <i>2D Materials</i> , 2016, 3, 011009.	2.0	2
2057	Evaluation of PMMA Residues as a Function of Baking Temperature and a Graphene Heat-Free-Transfer Process to Reduce Them. <i>ECS Journal of Solid State Science and Technology</i> , 2016, 5, P138-P141.	0.9	7
2058	Effect of aminopropylisobutyl polyhedral oligomeric silsesquioxane functionalized graphene on the thermal conductivity and electrical insulation properties of epoxy composites. <i>RSC Advances</i> , 2016, 6, 10498-10506.	1.7	47
2059	Functionalized graphene nanoplatelets from ball milling for energy applications. <i>Current Opinion in Chemical Engineering</i> , 2016, 11, 52-58.	3.8	89
2060	Toward Label-Free Biosensing With Silicon Carbide: A Review. <i>IEEE Access</i> , 2016, 4, 477-497.	2.6	19
2061	Application of Organometallic Chemistry to the Electrical Interconnection of Graphene Nanoplatelets. <i>Chemistry of Materials</i> , 2016, 28, 2260-2266.	3.2	17

#	ARTICLE	IF	CITATIONS
2062	Chlorine-Induced In Situ Regulation to Synthesize Graphene Frameworks with Large Specific Area for Excellent Supercapacitor Performance. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 6481-6487.	4.0	29
2063	Electron transport study on functionalized armchair graphene nanoribbons: DFT calculations. <i>RSC Advances</i> , 2016, 6, 21954-21960.	1.7	24
2064	Morphed graphene nanostructures: Experimental evidence for existence. <i>Carbon</i> , 2016, 102, 288-296.	5.4	37
2065	Understanding the STM images of epitaxial graphene on a reconstructed 6H-SiC(0001) surface: the role of tip-induced mechanical distortion of graphene. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 14264-14272.	1.3	3
2066	Chemical Vapor Deposited Graphene for Opto-Electronic Applications. <i>Journal of Nano Research</i> , 2016, 39, 57-68.	0.8	0
2067	Graphene nanoribbons: fabrication, properties and devices. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 143001.	1.3	175
2068	Recent progress in fabrication techniques of graphene nanoribbons. <i>Materials Horizons</i> , 2016, 3, 186-207.	6.4	127
2069	Raman spectrum of graphene with its versatile future perspectives. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 80, 125-131.	5.8	116
2070	Differentiation of Surface and Bulk Conductivities in Topological Insulators via Four-Probe Spectroscopy. <i>Nano Letters</i> , 2016, 16, 2213-2220.	4.5	41
2071	Carbon nanotubes and graphene nano field-effect transistor-based biosensors. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 222-232.	5.8	128
2072	Large-scale synthesis of few-layer graphene from magnesium and different carbon sources and its application in dye-sensitized solar cells. <i>Materials and Design</i> , 2016, 92, 462-470.	3.3	27
2073	Nano-Bioelectronics. <i>Chemical Reviews</i> , 2016, 116, 215-257.	23.0	530
2074	The mechanism of direct laser writing of graphene features into graphene oxide films involves photoreduction and thermally assisted structural rearrangement. <i>Carbon</i> , 2016, 99, 423-431.	5.4	139
2075	Oxygen intercalation at the graphene/Ni(111) interface: Evidences of non-metal islands underneath graphene layer. <i>Carbon</i> , 2016, 100, 258-264.	5.4	17
2076	Direct growth of graphene on gallium nitride using C ₂ H ₂ as carbon source. <i>Frontiers of Physics</i> , 2016, 11, 1.	2.4	10
2077	Evidence of superconductivity in doped graphite and graphene. <i>Superconductor Science and Technology</i> , 2016, 29, 015015.	1.8	16
2078	Energy band gaps in periodic bent graphene. <i>Solid State Communications</i> , 2016, 225, 22-26.	0.9	4
2079	A Review on Graphene-Based Gas/Vapor Sensors with Unique Properties and Potential Applications. <i>Nano-Micro Letters</i> , 2016, 8, 95-119.	14.4	491

#	ARTICLE	IF	CITATIONS
2080	Nanoscale interface formation and charge transfer in graphene/silicon Schottky junctions; KPFM and CAFM studies. Carbon, 2016, 98, 41-49.	5.4	43
2081	Fabricating in-plane transistor and memory using atomic force microscope lithography towards graphene system on chip. Carbon, 2016, 96, 223-228.	5.4	14
2082	Uniform decoration of silver nanoparticle on exfoliated graphene oxide sheets and its ammonia gas detection. Ceramics International, 2016, 42, 1769-1776.	2.3	38
2083	Growth protocols and characterization of epitaxial graphene on SiC elaborated in a graphite enclosure. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 75, 7-14.	1.3	19
2084	Development of graphene- ⁶⁶ nanometre-sized cerium oxide-incorporated aluminium and its electrochemical evaluation. Applied Nanoscience (Switzerland), 2016, 6, 149-158.	1.6	9
2085	Interlocked graphene- ⁶⁶ Prussian blue hybrid composites enable multifunctional electrochemical applications. Biosensors and Bioelectronics, 2017, 89, 570-577.	5.3	62
2086	Electrical conductivity and mechanical properties of ionic liquid modified shear exfoliation graphene/CO ² -PA nanocomposites at extremely low graphene loading. Polymer Composites, 2017, 38, E277.	2.3	5
2087	UV-assisted reduction of graphite oxide to graphene by using a photoinitiator. Journal of Materials Science, 2017, 52, 4866-4877.	1.7	15
2088	Microscopic Evidence for Strong Interaction between Pd and Graphene Oxide that Results in Metal-Decorated-Induced Reduction of Graphene Oxide. Advanced Materials, 2017, 29, 1605929.	11.1	32
2089	Interaction of Monovacancies in Graphene. Journal of Physical Chemistry C, 2017, 121, 2459-2465.	1.5	1
2090	First-principle analysis of photoelectric properties of silicon-carbon materials with graphene-like honeycomb structure. Computational Materials Science, 2017, 126, 336-343.	1.4	12
2091	Evidence for negative charge near large area supported graphene in water: A study of silica microsphere interactions. Journal of Colloid and Interface Science, 2017, 492, 15-24.	5.0	2
2092	Synthesis of Graphene Oxide-Based Sulfonated Oligoanilines Coatings for Synergistically Enhanced Corrosion Protection in 3.5% NaCl Solution. ACS Applied Materials & Interfaces, 2017, 9, 4034-4043.	4.0	187
2093	Solid source growth of graphene with Ni-Cu catalysts: towards high quality <i>in situ</i> graphene on silicon. Journal Physics D: Applied Physics, 2017, 50, 095302.	1.3	20
2094	Nonlocal elasticity theory for graphene modeling and simulation: prospects and challenges. Journal of Modeling in Mechanics and Materials, 2017, 1, .	1.8	21
2095	High quality epitaxial graphene by hydrogen-etching of 3C-SiC(111) thin-film on Si(111). Nanotechnology, 2017, 28, 115601.	1.3	11
2096	Spontaneous formation of graphene on diamond (111) driven by B-doping induced surface reconstruction. Carbon, 2017, 115, 388-393.	5.4	18
2097	Surface functionalization of epitaxial graphene on SiC by ion irradiation for gas sensing application. Applied Surface Science, 2017, 403, 707-716.	3.1	24

#	ARTICLE	IF	CITATIONS
2098	A Tunable Dispersion Waveguide Based on Graphene's Silicon Lateral Slot Geometric Structure. IEEE Photonics Journal, 2017, 9, 1-9.	1.0	3
2099	Damage mitigation in roll-to-roll transfer of CVD-graphene to flexible substrates. 2D Materials, 2017, 4, 024002.	2.0	42
2100	Multi-scale investigation of interface properties, stacking order and decoupling of few layer graphene on C-face 4H-SiC. Carbon, 2017, 116, 722-732.	5.4	23
2101	The effect of the SiC(0001) surface morphology on the growth of epitaxial mono-layer graphene nanoribbons. Carbon, 2017, 115, 162-168.	5.4	21
2102	Tuning the band gap and optical spectra of monolayer penta-graphene under in-plane biaxial strains. Optik, 2017, 136, 205-214.	1.4	34
2103	One-step approach to reduce and modify graphene oxide via vulcanization accelerator and its application for elastomer reinforcement. Chemical Engineering Journal, 2017, 317, 51-59.	6.6	36
2104	Self-assembly of glucose oxidase on reduced graphene oxide-magnetic nanoparticles nanocomposite-based direct electrochemistry for reagentless glucose biosensor. Materials Science and Engineering C, 2017, 76, 398-405.	3.8	140
2105	Review of the synthesis, transfer, characterization and growth mechanisms of single and multilayer graphene. RSC Advances, 2017, 7, 15644-15693.	1.7	263
2106	2-D Graphene and White Graphene. , 2017, , 387-410.		0
2107	The effects of gap parameter and spin polarization on electronic Hartree and correlation energies of doped graphene nanoribbon. Superlattices and Microstructures, 2017, 104, 483-497.	1.4	1
2108	Large positive in-plane magnetoresistance induced by localized states at nanodomain boundaries in graphene. Nature Communications, 2017, 8, 14453.	5.8	27
2109	Unravel the interaction of protoporphyrin IX with reduced graphene oxide by vital spectroscopic techniques. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 178, 86-93.	2.0	11
2110	Fluorosilicene/chlorosilicene bilayer semiconductor with tunable electronic and optical properties. Journal of Applied Physics, 2017, 121, 055701.	1.1	1
2111	Atomistic mechanisms of van der Waals epitaxy and property optimization of layered materials. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2017, 7, e1300.	6.2	14
2112	New two-dimensional boron nitride allotropes with attractive electronic and optical properties. Solid State Communications, 2017, 253, 51-56.	0.9	53
2113	Continuous and catalyst free synthesis of graphene sheets in thermal plasma jet. Chemical Engineering Journal, 2017, 322, 385-396.	6.6	30
2114	Temperature-induced strain release via rugae on the nanometer and micrometer scale in graphene monolayer. Carbon, 2017, 119, 483-491.	5.4	13
2115	Electronic and magnetic properties of pristine and hydrogenated borophene nanoribbons. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 91, 106-112.	1.3	60

#	ARTICLE	IF	CITATIONS
2116	One-step electrochemical preparation of graphene-coated pencil graphite electrodes by cyclic voltammetry and their application in vanadium redox batteries. <i>Electrochimica Acta</i> , 2017, 243, 239-249.	2.6	69
2117	Coulomb excitations of monolayer germanene. <i>Scientific Reports</i> , 2017, 7, 40600.	1.6	25
2118	Structural Studies of Hydrographenes. <i>Accounts of Chemical Research</i> , 2017, 50, 1351-1358.	7.6	10
2119	Graphene: Synthesis and Functionalization. <i>Nanostructure Science and Technology</i> , 2017, , 101-132.	0.1	2
2120	Observation of Coulomb blockade in nanostructured epitaxial bilayer graphene on SiC. <i>Carbon</i> , 2017, 119, 426-430.	5.4	3
2121	Ultralow friction of ink-jet printed graphene flakes. <i>Nanoscale</i> , 2017, 9, 7612-7624.	2.8	20
2122	Graphene on cubic-SiC. <i>Progress in Materials Science</i> , 2017, 89, 1-30.	16.0	30
2123	Deposition of defected graphene on (001) Si substrates by thermal decomposition of acetone. <i>Superlattices and Microstructures</i> , 2017, 111, 45-56.	1.4	6
2124	Study of Cooling Rate on the Growth of Graphene via Chemical Vapor Deposition. <i>Chemistry of Materials</i> , 2017, 29, 4202-4208.	3.2	24
2125	Edge-functionalization of armchair graphene nanoribbons with pentagonal-hexagonal edge structures. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 245301.	0.7	2
2126	Carbon TEM grids fabricated using C-MEMS as the platform for suspended carbon nanowire characterization. <i>Carbon</i> , 2017, 113, 252-259.	5.4	9
2127	Pollutant Decontamination from Water: Role of Nanocomposite Materials. , 2017, , 141-182.		3
2128	Electronic optical, properties and widening band gap of graphene with Ge doping. <i>Optical and Quantum Electronics</i> , 2017, 49, 1.	1.5	39
2129	In vitro studies on cytotoxicity of delaminated Ti3C2 MXene. <i>Journal of Hazardous Materials</i> , 2017, 339, 1-8.	6.5	216
2130	Electron spin dynamics in vertical magnetic junctions incorporating two-dimensional layered materials. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11174-11184.	2.7	9
2131	Prospective Life Cycle Assessment of Epitaxial Graphene Production at Different Manufacturing Scales and Maturity. <i>Journal of Industrial Ecology</i> , 2017, 21, 1153-1164.	2.8	37
2132	One-step synthesis of functional pNR/rGO composite as a building block for enhanced ascorbic acid biosensing. <i>Analytica Chimica Acta</i> , 2017, 981, 34-40.	2.6	12
2133	Sublimation-assisted graphene transfer technique based on small polyaromatic hydrocarbons. <i>Nanotechnology</i> , 2017, 28, 255701.	1.3	21

#	ARTICLE	IF	CITATIONS
2134	Conductive graphene coatings synthesized from graphenide solutions. Carbon, 2017, 121, 217-225.	5.4	11
2135	Nanowire-Mesh-Templated Growth of Out-of-Plane Three-Dimensional Fuzzy Graphene. ACS Nano, 2017, 11, 6301-6311.	7.3	46
2136	Growth of graphene sheets under an oxyacetylene flame without a catalyst. New Carbon Materials, 2017, 32, 188-192.	2.9	2
2137	Epitaxial electrical contact to graphene on SiC. Carbon, 2017, 121, 48-55.	5.4	11
2138	High-quality graphene synthesis on amorphous SiC through a rapid thermal treatment. Carbon, 2017, 124, 105-110.	5.4	10
2139	Relativistic Zitterbewegung in non-Hermitian photonic waveguide systems. New Journal of Physics, 2017, 19, 013017.	1.2	0
2140	A facile and green preparation of reduced graphene oxide using Eucalyptus leaf extract. Applied Surface Science, 2017, 422, 469-474.	3.1	89
2142	Microwave assisted facile synthesis of reduced graphene oxide-silver (RGO-Ag) nanocomposite and their application as active SERS substrate. Materials Chemistry and Physics, 2017, 194, 274-282.	2.0	44
2143	Band Gap Opening Induced by the Structural Periodicity in Epitaxial Graphene Buffer Layer. Nano Letters, 2017, 17, 2681-2689.	4.5	36
2144	Preparation of three-dimensional graphene foam for high performance supercapacitors. Progress in Natural Science: Materials International, 2017, 27, 177-181.	1.8	56
2145	Thermal conductivity of epoxy composites filled by thermally reduced graphite oxide with different reduction degree. Journal of Composite Materials, 2017, 51, 1743-1752.	1.2	25
2146	Transformation of graphene flakes into carbon nanostructures by γ -irradiation. Materials Research Express, 2017, 4, 045602.	0.8	1
2148	Carbon Materials. , 2017, , 429-462.		2
2149	Covalent Functionalization by Cycloaddition Reactions of Pristine Defect-Free Graphene. ACS Nano, 2017, 11, 627-634.	7.3	69
2150	Graphene as initiator/catalyst in polymerization chemistry. Progress in Polymer Science, 2017, 67, 48-76.	11.8	39
2151	Field Effect Enhanced Hydrogen Evolution Reaction of MoS ₂ Nanosheets. Advanced Materials, 2017, 29, 1604464.	11.1	148
2152	Graphene and derivatives " Synthesis techniques, properties and their energy applications. Energy, 2017, 140, 766-778.	4.5	119
2153	In Situ Functionalization of Graphene with Reactive End Group through Amine Diazotization. Journal of Physical Chemistry C, 2017, 121, 25223-25228.	1.5	12

#	ARTICLE	IF	CITATIONS
2154	Applications of graphene-based composite hydrogels: a review. RSC Advances, 2017, 7, 51008-51020.	1.7	61
2155	Carrier relaxation time modelling of monolayer black phosphorene. Micro and Nano Letters, 2017, 12, 758-762.	0.6	3
2156	Tunable bandgap in halogen doped 2D nitrogenated microporous materials. Journal of Applied Physics, 2017, 122, .	1.1	25
2157	Contamination-free graphene by chemical vapor deposition in quartz furnaces. Scientific Reports, 2017, 7, 9927.	1.6	70
2158	Two-dimensional and three-dimensional hybrid assemblies based on graphene oxide and other layered structures: A carbon science perspective. Carbon, 2017, 125, 437-453.	5.4	21
2159	Staggered potential and spin polarization effects on RKKY interaction in armchair graphene nanoribbon. European Physical Journal B, 2017, 90, 1.	0.6	1
2160	Growth and Intercalation of Graphene on Silicon Carbide Studied by Low-Energy Electron Microscopy. Annalen Der Physik, 2017, 529, 1700046.	0.9	17
2161	Robust theoretical modelling of core ionisation edges for quantitative electron energy loss spectroscopy of B- and N-doped graphene. Journal of Physics Condensed Matter, 2017, 29, 225303.	0.7	8
2162	DC and AC Performance of Graphite Films Supercapacitors Prepared by Contact Glow Discharge Electrolysis. Journal of the Electrochemical Society, 2017, 164, A2539-A2546.	1.3	18
2163	Advances in transferring chemical vapour deposition graphene: a review. Materials Horizons, 2017, 4, 1054-1063.	6.4	121
2164	CVD Synthesis of Graphene. , 2017, , 19-56.		9
2165	Simultaneous reduction and functionalization of graphene oxide via antioxidant for highly aging resistant and thermal conductive elastomer composites. Composites Science and Technology, 2017, 151, 156-163.	3.8	58
2166	Diffusion, Nucleation, and Self-Optimization in the Forming Process of Graphene in Annealed Nickel-Carbon Alloy. Journal of Physical Chemistry C, 2017, 121, 21001-21010.	1.5	2
2167	Enhanced Intrinsic Voltage Gain in Artificially Stacked Bilayer CVD Graphene Field Effect Transistors. Annalen Der Physik, 2017, 529, 1700106.	0.9	2
2168	A new method for few-layer graphene preparation via plasma-assisted ball milling. Journal of Alloys and Compounds, 2017, 728, 578-584.	2.8	86
2169	Interface and interaction of graphene layers on SiC(0001 ₁₁₁) covered with TiC(111) intercalation. Physical Chemistry Chemical Physics, 2017, 19, 26765-26775.	1.3	1
2170	Size, shape, and number density of deposits in the graphene solution liquid droplet method. Materials Today Communications, 2017, 13, 65-71.	0.9	2
2171	High frequency and noise performance of GFETs. , 2017, , .		6

#	ARTICLE	IF	CITATIONS
2172	Disorder-driven insulator to semi-metallic transition in a graphene nanoribbon. <i>Physica B: Condensed Matter</i> , 2017, 522, 22-25.	1.3	0
2173	In Situ Alkylated Graphene as Oil Dispersible Additive for Friction and Wear Reduction. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 9029-9034.	1.8	34
2174	Electrostatically confined trilayer graphene quantum dots. <i>Physical Review B</i> , 2017, 95, .	1.1	7
2175	The prospects of two-dimensional materials for ultimately scaled CMOS. , 2017, , .		2
2176	Crossover from Efrosâ€“Shklovskii to Mott variable range hopping in monolayer epitaxial graphene grown on SiC. <i>Chinese Journal of Physics</i> , 2017, 55, 1235-1241.	2.0	8
2177	Effect of ion-beam irradiation on the epitaxial growth of graphene via the SiC surface decomposition method. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 085104.	0.8	20
2178	Graphene Nanoribbons for Electronic Devices. <i>Annalen Der Physik</i> , 2017, 529, 1700033.	0.9	39
2179	Chemical-doping-driven crossover from graphene to â€œordinary metalâ€•in epitaxial graphene grown on SiC. <i>Nanoscale</i> , 2017, 9, 11537-11544.	2.8	16
2180	Carbon-Based Nanobiohybrid Thin Film for Amperometric Glucose Sensing. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 2059-2063.	2.6	10
2181	Growth Model of van der Waals Epitaxy of Films: A Case of AlN Films on Multilayer Graphene/SiC. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 44001-44009.	4.0	35
2182	Field-effect transistor memories based on ferroelectric polymers. <i>Journal of Semiconductors</i> , 2017, 38, 111001.	2.0	11
2184	Effects of shape, size, and pyrene doping on electronic properties of graphene nanoflakes. <i>Journal of Molecular Modeling</i> , 2017, 23, 355.	0.8	8
2185	A Two-Dimensional Coarse-Grained Model for Molybdenum Disulphide. <i>Journal of Modeling in Mechanics and Materials</i> , 2017, 1, .	0.5	0
2186	Acousto-electric transport in MgO/ZnO-covered graphene on SiC. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 464008.	1.3	8
2187	Structure and electronic states of a graphene double vacancy with an embedded Si dopant. <i>Journal of Chemical Physics</i> , 2017, 147, 194702.	1.2	9
2188	Effect of Residual Gas Composition on Epitaxial Growth of Graphene on SiC. <i>Physical Review Applied</i> , 2017, 8, .	1.5	21
2189	Three-dimensional nanostructured graphene: Synthesis and energy, environmental and biomedical applications. <i>Synthetic Metals</i> , 2017, 234, 53-85.	2.1	114
2190	Microscale Insight into Oxidation of Single MoS ₂ Crystals in Air. <i>Journal of Physical Chemistry C</i> , 2017, 121, 26027-26033.	1.5	48

#	ARTICLE	IF	CITATIONS
2191	Carbon-based nanostructures for electrochemical analysis of oral medicines. , 2017, , 885-938.		5
2192	Synthesis, structure and applications of graphene-based 2D heterostructures. Chemical Society Reviews, 2017, 46, 4572-4613.	18.7	275
2193	Tailoring pores in graphene-based materials: from generation to applications. Journal of Materials Chemistry A, 2017, 5, 16537-16558.	5.2	99
2194	Carrier doping effect of humidity for single-crystal graphene on SiC. Japanese Journal of Applied Physics, 2017, 56, 085102.	0.8	8
2195	Electrocatalysts composed of a Co(acetylacetonate) ₂ molecule and refluxed graphene oxide for an oxygen reduction reaction. New Journal of Chemistry, 2017, 41, 6203-6209.	1.4	7
2196	Synthesis of graphene nanoflakes by grinding natural graphite together with NaCl in a planetary ball mill. Functional Materials Letters, 2017, 10, 1750047.	0.7	28
2197	Tuning the band gap and optical spectra of silicon-doped graphene: Many-body effects and excitonic states. Journal of Alloys and Compounds, 2017, 693, 1185-1196.	2.8	119
2198	The production of graphene nano layers by using milling“exfoliation hybrid process. Fullerenes Nanotubes and Carbon Nanostructures, 2017, 25, 34-39.	1.0	10
2199	Challenge and Opportunities of Carbon Nanotubes. , 2017, , 433-476.		9
2200	Water-soluble graphene dispersion functionalized by Diels“Alder cycloaddition reaction. Journal of the Iranian Chemical Society, 2017, 14, 89-93.	1.2	9
2201	Tunable and Ultra-Small Graphene Integrated Silicon Racetrack Micro Resonator. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 173-178.	1.9	3
2202	Direct mapping of chemical oxidation of individual graphene sheets through dynamic force measurements at the nanoscale. Nanoscale, 2017, 9, 119-127.	2.8	21
2203	Preparation of a stable aqueous suspension of reduced graphene oxide by a green method for applications in biomaterials. Journal of Colloid and Interface Science, 2017, 497, 317-324.	5.0	22
2204	Overview of Carbon Nanotube Interconnects. , 2017, , 37-80.		3
2205	Effect of carbon-layer rearrangement on one- and two-photon absorption properties in the alternative graphene-like hybrids “ A theoretical investigation. Dyes and Pigments, 2017, 138, 213-222.	2.0	0
2206	Unusual renormalization group (RG) flow and temperature-dependent phase transition in strongly-insulating monolayer epitaxial graphene. RSC Advances, 2017, 7, 31333-31337.	1.7	1
2207	Graphene-engineered cementitious composites. Nanomaterials and Nanotechnology, 2017, 7, 184798041774230.	1.2	98
2208	Chemical, Thermal, and Light-Driven Reduction of Graphene Oxide: Approach to Obtain Graphene and its Functional Hybrids. , 0, , .		8

#	ARTICLE	IF	CITATIONS
2209	Water dispersion of reduced graphene oxide stabilized via fullerene semiconductor for organic solar cells. <i>Optical Materials Express</i> , 2017, 7, 2487.	1.6	11
2210	Optical Fibre Sensors Using Graphene-Based Materials: A Review. <i>Sensors</i> , 2017, 17, 155.	2.1	99
2211	Raman Spectroscopic Study of As-Deposited and Exfoliated Defected Graphene Grown on (001) Si Substrates by CVD. <i>Journal of Spectroscopy</i> , 2017, 2017, 1-8.	0.6	13
2212	Fundamentals of Chemical Vapor Deposited Graphene and Emerging Applications. , 0, , .		9
2213	Solution-Processed Graphene-Based Transparent Conductive Electrodes as Ideal ITO Alternatives for Organic Solar Cells. , 2017, , .		4
2214	Green conversion of graphene oxide to graphene nanosheets and its biosafety study. <i>PLoS ONE</i> , 2017, 12, e0171607.	1.1	28
2215	Preparation of Graphene-Copper Nanocomposite for Electrochemical Determination of Cadmium Ions in Water. <i>International Journal of Electrochemical Science</i> , 2017, , 8357-8367.	0.5	3
2216	H ⁺ Intercalation into Molybdenum Oxide Nanosheets Under AFM Tip Bias. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1700439.	1.2	6
2217	Molecular dynamics simulation of the effect of oxygen-containing functional groups on the thermal conductivity of reduced graphene oxide. <i>Computational Materials Science</i> , 2018, 148, 176-183.	1.4	30
2218	A novel technique for detection of biomolecules and its aqueous concentration using a double gate graphene field effect transistor. <i>Sensing and Bio-Sensing Research</i> , 2018, 19, 7-13.	2.2	1
2219	Atomically thin gallium layers from solid-melt exfoliation. <i>Science Advances</i> , 2018, 4, e1701373.	4.7	157
2220	A Review on Graphene Reinforced Polymer Matrix Composites. <i>Materials Today: Proceedings</i> , 2018, 5, 2419-2428.	0.9	48
2221	Graphene synthesized using filtered cathodic vacuum arc technique and its applications. <i>Vacuum</i> , 2018, 153, 262-266.	1.6	10
2222	High directivity plasmonic graphene-based patch array antennas with tunable THz band communications. <i>Optik</i> , 2018, 168, 440-445.	1.4	27
2223	Preparation of few layer graphene sheets (FLGS) prepared by an electrochemical method. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 338, 012063.	0.3	7
2224	Extremely Low Thermal Conductivity of Polycrystalline Silicene. <i>Journal of Physical Chemistry C</i> , 2018, 122, 9220-9228.	1.5	20
2225	Polarized Raman Scattering of Epitaxial Graphene Prepared by Thermal Decomposition of SiC. <i>ECS Journal of Solid State Science and Technology</i> , 2018, 7, M35-M40.	0.9	5
2226	Cyclic voltammetric preparation of graphene-coated electrodes for positive electrode materials of vanadium redox flow battery. <i>Ionics</i> , 2018, 24, 3641-3654.	1.2	37

#	ARTICLE	IF	CITATIONS
2227	Graphene oxide: An efficient material and recent approach for biotechnological and biomedical applications. <i>Materials Science and Engineering C</i> , 2018, 86, 173-197.	3.8	212
2228	Electronic Collective Mode Behaviors in Doped and Gated Armchair-Type Graphene Nanoribbons. <i>Plasmonics</i> , 2018, 13, 1963-1969.	1.8	0
2229	Graphene oxide incorporated functional materials: A review. <i>Composites Part B: Engineering</i> , 2018, 145, 270-280.	5.9	198
2230	The role of electronic dopant on full band in-plane RKKY coupling in armchair graphene nanoribbons-magnetic impurity system. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 454, 362-367.	1.0	14
2231	Nitrogen-incorporated carbon nanotube derived from polystyrene and polypyrrole as hydrogen storage material. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 5077-5088.	3.8	89
2232	The role of graphene as an overlayer on nanostructured hematite photoanodes for improved solar water oxidation. <i>Materials Today Energy</i> , 2018, 8, 8-14.	2.5	15
2233	Minimum Resistance Anisotropy of Epitaxial Graphene on SiC. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6039-6045.	4.0	47
2234	Layer-controllable graphene by plasma thinning and post-annealing. <i>Applied Surface Science</i> , 2018, 441, 639-646.	3.1	21
2235	Nanoscale Probing of Interaction in Atomically Thin Layered Materials. <i>ACS Central Science</i> , 2018, 4, 288-297.	5.3	6
2236	Room Temperature Synthesis of Graphene Nanosheets. <i>Crystal Research and Technology</i> , 2018, 53, 1700250.	0.6	13
2237	Controllable Synthesis of Circular Graphene Domains by Atmosphere Pressure Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13572-13578.	1.5	8
2238	Structure and Properties of Graphene. , 2018, , 1-12.		41
2239	Formation of graphene on amorphous SiC film by surface-confined heating with electron beam irradiation. <i>Current Applied Physics</i> , 2018, 18, 335-339.	1.1	2
2240	Plasmonic patch antenna based on graphene with tunable terahertz band communications. <i>Optik</i> , 2018, 158, 617-622.	1.4	20
2241	In situ atomic-scale observation of monolayer graphene growth from SiC. <i>Nano Research</i> , 2018, 11, 2809-2820.	5.8	21
2242	Lower and Upper Bound Estimates of Material Properties of Pristine Graphene: Using Quantum Espresso. , 2018, , 253-265.		0
2243	Invalidity of the Fermi liquid theory and magnetic phase transition in quasi-1D dopant-induced armchair-edged graphene nanoribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 452, 157-163.	1.0	4
2244	Simple and rapid cleaning of graphenes with a "bubble-free"™ electrochemical treatment. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2234-2244.	2.7	8

#	ARTICLE	IF	CITATIONS
2245	Frequency-degenerate phase-sensitive optical parametric amplification based on four-wave mixing in graphene-silicon slot waveguide. <i>Applied Physics Express</i> , 2018, 11, 062201.	1.1	1
2246	Light Sources and Photodetectors Enabled by 2D Semiconductors. <i>Small Methods</i> , 2018, 2, 1800019.	4.6	35
2247	Relativistic quantum chaos—An emergent interdisciplinary field. <i>Chaos</i> , 2018, 28, 052101.	1.0	25
2248	Evolution of Graphene Oxide and Graphene: From Imagination to Industrialization. <i>ChemNanoMat</i> , 2018, 4, 598-620.	1.5	80
2249	Poly(aminohippuric acid)-sodium dodecyl sulfate/functionalized graphene oxide nanocomposite for amplified electrochemical sensing of gallic acid. <i>Journal of the Iranian Chemical Society</i> , 2018, 15, 1931-1938.	1.2	10
2250	Theoretical Insight into M_1 TPyP- M_2 ($M_1, M_2 = Fe, Co$) MOFs: Correlation between Electronic Structure and Catalytic Activity Extending to Potentiality in Capturing Flue Gases. <i>Journal of Physical Chemistry C</i> , 2018, 122, 9899-9908.	1.5	11
2251	Simple device for the growth of micrometer-sized monocrystalline single-layer graphene on SiC(0001). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018, 36, .	0.9	4
2252	Electrical transport across grain boundaries in graphene monolayers on SiC(0001). <i>2D Materials</i> , 2018, 5, 031004.	2.0	6
2253	Effect of annealing on doping of graphene with molybdenum oxide. <i>Applied Physics Express</i> , 2018, 11, 045101.	1.1	2
2254	Adsorption of 3d, 4d, and 5d transition-metal atoms on single-layer boron nitride. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	15
2255	Mobility gap and quantum transport in a functionalized graphene bilayer. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 195701.	0.7	5
2256	Unravelling Some of the Structure-Property Relationships in Graphene Oxide at Low Degree of Oxidation. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1746-1749.	2.1	26
2257	Single- to Few-Layered, Graphene-Based Separation Membranes. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2018, 9, 17-39.	3.3	24
2258	Study of Ni-Catalyzed Graphitization Process of Diamond by <i>in Situ</i> X-ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6629-6636.	1.5	22
2259	Self-propagated combustion synthesis of few-layered graphene: an optical properties perspective. <i>Nanoscale</i> , 2018, 10, 7581-7588.	2.8	10
2260	Synthesis of graphene oxide through different oxidation degrees for solar cells. <i>Materials Research Express</i> , 2018, 5, 035515.	0.8	7
2261	Research Progress of Graphene-Based Rubber Nanocomposites. <i>Polymer Composites</i> , 2018, 39, 1006-1022.	2.3	36
2262	Dynamical and Static Spin Susceptibilities of Doped Gapped Graphene Nanoribbon Due to Local Electronic Interaction. <i>Plasmonics</i> , 2018, 13, 845-856.	1.8	2

#	ARTICLE	IF	CITATIONS
2263	A review on corrosion protection with single-layer, multilayer, and composites of graphene. <i>Corrosion Reviews</i> , 2018, 36, 155-225.	1.0	31
2264	Mass production and industrial applications of graphene materials. <i>National Science Review</i> , 2018, 5, 90-101.	4.6	222
2265	Hydrothermally synthesized Pd-loaded SnO ₂ /partially reduced graphene oxide nanocomposite for effective detection of carbon monoxide at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2018, 254, 457-467.	4.0	66
2266	Thermal and electrical properties of siligraphene and its derivatives. <i>Optik</i> , 2018, 157, 936-943.	1.4	13
2267	Imaging of edge inactive layer in micro-patterned graphene monolayer. <i>Materials Letters</i> , 2018, 211, 183-186.	1.3	3
2268	Interatomic potential suitable for the modeling of penta-graphene: Molecular statics/molecular dynamics studies. <i>Carbon</i> , 2018, 126, 165-175.	5.4	37
2269	Negative differential resistance and magnetoresistance in zigzag borophene nanoribbons. <i>International Journal of Modern Physics B</i> , 2018, 32, 1850033.	1.0	7
2270	Fiber-Based Thermoelectric Generators: Materials, Device Structures, Fabrication, Characterization, and Applications. <i>Advanced Energy Materials</i> , 2018, 8, 1700524.	10.2	108
2271	GeAs and SiAs monolayers: Novel 2D semiconductors with suitable band structures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 95, 149-153.	1.3	70
2272	Recent advances in carbon material-based NO ₂ gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1788-1804.	4.0	223
2273	Raman-based technique for measuring thermal conductivity of graphene and related materials. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 106-120.	1.2	119
2274	Study on a novel composite coating based on PDMS doped with modified graphene oxide. <i>Journal of Coatings Technology Research</i> , 2018, 15, 375-383.	1.2	32
2275	Direct formation of wafer-scale single-layer graphene films on the rough surface substrate by PECVD. <i>Carbon</i> , 2018, 129, 456-461.	5.4	60
2276	Catalyst-free deposition of few layer graphene on c-plane sapphire substrates by drop casting technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 4413-4421.	1.1	8
2277	Development of defects in ZnO/RGO composites under wet chemical synthesis. <i>Optik</i> , 2018, 156, 549-555.	1.4	6
2278	Analysis of delay fault in GNR power interconnects. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2018, 31, e2308.	1.2	5
2279	On the intra- and interband plasmon modes in doped armchair graphene nanoribbons. <i>Superlattices and Microstructures</i> , 2018, 113, 576-584.	1.4	4
2280	Band gap modulation of mono and bi-layer hexagonal ZnS under transverse electric field and bi-axial strain: A first principles study. <i>Physica B: Condensed Matter</i> , 2018, 531, 90-94.	1.3	26

#	ARTICLE	IF	CITATIONS
2281	Seebeck coefficient and thermal conductivity of doped armchair graphene nanoribbon in the presence of magnetic field. <i>Materials Research Bulletin</i> , 2018, 99, 18-22.	2.7	2
2282	The pristine graphene produced by liquid exfoliation of graphite in mixed solvent and its application to determination of dopamine. <i>Journal of Colloid and Interface Science</i> , 2018, 513, 279-286.	5.0	37
2283	Investigation on tip enhanced Raman spectra of graphene. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 190, 378-382.	2.0	17
2284	Snubbing effect in atomic scale friction of graphene. <i>Composites Part B: Engineering</i> , 2018, 136, 119-125.	5.9	3
2285	High robustness of epitaxial 4H-SiC graphene to oxidation processes. <i>Journal of Physics: Conference Series</i> , 2018, 1124, 081020.	0.3	1
2286	Formation of graphene on the surface of copper under the conditions of chemical deposition from the gas phase. <i>Journal of Physics: Conference Series</i> , 2018, 1105, 012139.	0.3	0
2287	Development of a Glassy Carbon Electrode Modified with Graphene/Au Nanoparticles for Determination of Acetaminophen in Pharmaceutical Preparation. <i>Russian Journal of Electrochemistry</i> , 2018, 54, 1141-1147.	0.3	10
2288	Synthesis of styrene maleic anhydride copolymer grafted graphene and its dispersion in aqueous solution. <i>RSC Advances</i> , 2018, 8, 41484-41490.	1.7	3
2289	Analysis of the interaction energies between and within graphite particles during mechanical exfoliation. <i>New Carbon Materials</i> , 2018, 33, 449-459.	2.9	3
2290	Near Perfect Neural Critic from Motor Cortical Activity Toward an Autonomously Updating Brain Machine Interface. , 2018, 2018, 73-76.		19
2291	Graphene-Semiconductor Composites as Visible Light-Induced Photocatalyst. , 2018, , .		2
2292	Reduced graphene oxide produced by chemical and hydrothermal methods. <i>Materials Today: Proceedings</i> , 2018, 5, 16306-16312.	0.9	23
2293	Nanostructural Deformation in Brittle-Ductile Compounds and Its Application in Fabricating Ductile Nanoparticles. , 0, , .		1
2295	Phase-field method for epitaxial kinetics on surfaces. <i>Journal of Chemical Physics</i> , 2018, 149, 194107.	1.2	1
2296	Encapsulated Silicene Field-Effect Transistors. <i>Nanoscience and Technology</i> , 2018, , 235-254.	1.5	1
2297	2D Material Membranes for Operando Atmospheric Pressure Photoelectron Spectroscopy. <i>Topics in Catalysis</i> , 2018, 61, 2085-2102.	1.3	26
2298	First-principles investigation of Ag-, Co-, Cr-, Cu-, Fe-, Mn-, Ni-, Pd- and Rh-hexaaminobenzene 2D metal-organic frameworks. <i>Materials Today Energy</i> , 2018, 10, 336-342.	2.5	18
2299	Basic Concepts and Recent Advances of Crystallographic Orientation Determination of Graphene by Raman Spectroscopy. <i>Crystals</i> , 2018, 8, 375.	1.0	21

#	ARTICLE	IF	CITATIONS
2300	Molecular tunneling in large tubes of 3D nitrogenated micropore materials. <i>Journal of Applied Physics</i> , 2018, 124, 194303.	1.1	22
2301	A facile hydrothermal approach for catalytic and optical behavior of tin oxide- graphene (SnO ₂ /G) nanocomposite. <i>PLoS ONE</i> , 2018, 13, e0202694.	1.1	29
2302	Electronic Properties of Curved Few-Layers Graphene: A Geometrical Approach. <i>Condensed Matter</i> , 2018, 3, 11.	0.8	8
2303	The electroluminescent properties based on bias polarity of the epitaxial graphene/aluminium SiC junction. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 265104.	1.3	4
2304	Competing Roles of Crystallization and Degradation of a Metal-Organic Chalcogenolate Assembly under Biphasic Solvothermal Conditions. <i>Langmuir</i> , 2018, 34, 14265-14273.	1.6	10
2305	Graphene Imaging Using REELS Spectra by Auger Electron Spectroscopy. , 2018, , .		1
2306	Unveiling the Direct Correlation between the CVD-Grown Graphene and the Growth Template. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-6.	1.5	4
2307	Topological insulator-metal transition and molecular electronics device based on zigzag phagraphene nanoribbon. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	14
2308	First-principles study on the structures and electronic properties of graphene-supported Ni _n (<i>n</i> = 1-6) clusters. <i>Molecular Simulation</i> , 2018, 44, 1529-1538.	0.9	7
2309	Graphene on TaC: Air tight protection of a superconducting surface. <i>Carbon</i> , 2018, 140, 592-595.	5.4	3
2310	The study of dynamical quasiparticle properties of undoped graphene nanoribbon. <i>Solid State Communications</i> , 2018, 284-286, 45-55.	0.9	0
2311	2D-Graphene Epitaxy on SiC for RF Application: Fabrication, Electrical Characterization and Noise Performance. , 2018, , .		7
2312	Epitaxial graphene for quantum resistance metrology. <i>Metrologia</i> , 2018, 55, R27-R36.	0.6	33
2313	Graphene Nanoribbon as Potential On-Chip Interconnect Material—A Review. <i>Journal of Carbon Research</i> , 2018, 4, 49.	1.4	28
2314	Epitaxial two-layer graphene under pressure: Diamene stiffer than Diamond. <i>FlatChem</i> , 2018, 10, 8-13.	2.8	36
2315	Limit Cycle Oscillation in Digitally Controlled DC Microgrid. , 2018, , .		0
2316	Improved Sampling Efficiency in Particle Filter for Systems with Multi-Step Randomly Delayed Measurements. , 2018, , .		0
2317	Graphene and its derivatives: synthesis, modifications, and applications in wastewater treatment. <i>Environmental Chemistry Letters</i> , 2018, 16, 1301-1323.	8.3	84

#	ARTICLE	IF	CITATIONS
2318	One-pot green synthesis of Ag nanoparticle-decorated reduced graphene oxide composites: effect of Ag/graphene oxide volume ratio and its demonstration as low-voltage on-chip photodetector. <i>Journal of Materials Science</i> , 2018, 53, 11620-11632.	1.7	11
2319	Laser-induced reduction of graphene oxide powders by high pulsed ultraviolet laser irradiations. <i>Applied Surface Science</i> , 2018, 444, 578-583.	3.1	38
2320	Calcium intercalation underneath N-layer graphene on 6H-SiC(0001). <i>Chemical Physics Letters</i> , 2018, 703, 33-38.	1.2	9
2321	Relativistic quantum chaos. <i>Physics Reports</i> , 2018, 753, 1-128.	10.3	38
2322	Two-dimensional Mixed Phase Leaf-like TiO ₂ /Cu ₂ O Sheets Synthesized Based on a Natural Leaf Template for Increased Photocatalytic H ₂ Evolution. <i>ChemCatChem</i> , 2018, 10, 3813-3823.	1.8	14
2323	Carbon nanomaterials for electroanalysis in pharmaceutical applications. , 2018, , 169-225.		11
2324	Chemical sensing with 2D materials. <i>Chemical Society Reviews</i> , 2018, 47, 4860-4908.	18.7	513
2325	Graphynes: indispensable nanoporous architectures in carbon flatland. <i>RSC Advances</i> , 2018, 8, 22998-23018.	1.7	31
2326	Characteristics of graphene nanoribbon/h-BN heterojunctions and resonant tunneling. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 265302.	0.7	5
2327	Humidity dependent impedance response of graphene/carbon nanotubes composite. <i>Materials Research Express</i> , 2018, 5, 095028.	0.8	6
2328	Interaction of surface acoustic waves with electronic excitations in graphene. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 383001.	1.3	31
2329	Wearable Graphene-Based Electrophysiological Biosensing System for Real-Time Health Monitoring. , 2018, , 339-360.		2
2330	Nanoscale, Catalyst Support Materials for Proton-Exchange Membrane Fuel Cells. , 2018, , 468-495.		8
2331	Research Progress of Gas Sensor Based on Graphene and Its Derivatives: A Review. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1118.	1.3	155
2332	Progress on Crystal Growth of Two-Dimensional Semiconductors for Optoelectronic Applications. <i>Crystals</i> , 2018, 8, 252.	1.0	7
2333	Substrate-induced enhancement of the chemical reactivity in metal-supported graphene. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19492-19499.	1.3	10
2334	Study of Electronic Structure, Thermal Conductivity, Elastic and Optical Properties of $\hat{1}\pm$, $\hat{1}^2$, $\hat{1}^3$ -Graphyne. <i>Materials</i> , 2018, 11, 188.	1.3	65
2335	A Review of Carbon Nanomaterials'™ Synthesis via the Chemical Vapor Deposition (CVD) Method. <i>Materials</i> , 2018, 11, 822.	1.3	315

#	ARTICLE	IF	CITATIONS
2336	Theoretical Study of Aluminum Hydroxide as a Hydrogen-Bonded Layered Material. <i>Nanomaterials</i> , 2018, 8, 375.	1.9	15
2337	Synthesis, properties, and optoelectronic applications of two-dimensional MoS ₂ and MoS ₂ -based heterostructures. <i>Chemical Society Reviews</i> , 2018, 47, 6101-6127.	18.7	293
2338	Sub-molecular spectroscopy and temporary molecular charging of Ni-phthalocyanine on graphene with STM. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19507-19514.	1.3	7
2339	N-graphdiyne two-dimensional nanomaterials: Semiconductors with low thermal conductivity and high stretchability. <i>Carbon</i> , 2018, 137, 57-67.	5.4	82
2340	A theoretical study on the structures and electronic and magnetic properties of new boron nitride composite nanosystems by depositing superhalogen AlI ₃ on the surface of nanosheets/nanoribbons. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 15424-15433.	1.3	3
2341	<i>Plasma Nanoscience and Nanotechnology</i> , 2018, , 365-453.		0
2342	<i>Molecular Beam Epitaxy of Graphene and Hexagonal Boron Nitride</i> , 2018, , 487-513.		2
2343	Energy gap in graphene and silicene nanoribbons: A semiclassical approach. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	4
2344	Design and mechanical characterization of a novel carbon-based hybrid foam: A molecular dynamics study. <i>Computational Materials Science</i> , 2018, 154, 122-131.	1.4	13
2345	Artificial gauge fields in materials and engineered systems. <i>Comptes Rendus Physique</i> , 2018, 19, 394-432.	0.3	143
2346	Thermal Growth of Graphene: A Review. <i>Coatings</i> , 2018, 8, 40.	1.2	47
2347	<i>Two-dimensional Semiconductor Oxides: New Directions in Science and Technology</i> , 2018, , 101-180.		0
2348	Direct synthesis of graphene on silicon oxide by low temperature plasma enhanced chemical vapor deposition. <i>Nanoscale</i> , 2018, 10, 12779-12787.	2.8	26
2349	Energy gap opening by crossing drop cast single-layer graphene nanoribbons. <i>Nanotechnology</i> , 2018, 29, 315705.	1.3	7
2350	Origin of spin polarization in an edge boron doped zigzag graphene nanoribbon: a potential spin filter. <i>Nanotechnology</i> , 2018, 29, 345203.	1.3	7
2351	The prospects of transition metal dichalcogenides for ultimately scaled CMOS. <i>Solid-State Electronics</i> , 2018, 143, 2-9.	0.8	25
2352	Local carrier distribution imaging on few-layer MoS ₂ exfoliated on SiO ₂ by scanning nonlinear dielectric microscopy. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	6
2353	Towards enhanced energy density of graphene-based supercapacitors: Current status, approaches, and future directions. <i>Journal of Power Sources</i> , 2018, 396, 182-206.	4.0	111

#	ARTICLE	IF	CITATIONS
2354	A comparative study of graphene growth on SiC by hydrogen-CVD or Si sublimation through thermodynamic simulations. <i>CrystEngComm</i> , 2018, 20, 3702-3710.	1.3	8
2355	Realization of In-plane Junctions with Continuous Lattice of a Homogeneous Material. <i>Advanced Materials</i> , 2018, 30, e1802065.	11.1	17
2356	Synthesis and recent advances in tribological applications of graphene. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 97, 3999-4019.	1.5	40
2357	Magnetic Field Effects on Optical Conductivity of Doped Armchair Graphene Nanoribbon. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 205-211.	0.8	3
2358	Morphology engineering and etching of graphene domain by low-pressure chemical vapor deposition. <i>Journal of Saudi Chemical Society</i> , 2019, 23, 162-170.	2.4	5
2359	TOPSIS based Taguchi design optimization for CVD growth of graphene using different carbon sources: Graphene thickness, defectiveness and homogeneity. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 685-694.	1.7	15
2360	Graphene/metal oxide-based nanocomposite as photocatalyst for degradation of water pollutants. , 2019, , 221-240.		5
2361	Ultimate High Conductivity of Multilayer Graphene Examined by Multiprobe Scanning Tunneling Potentiometry on Artificially Grown High-Quality Graphite Thin Film. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1762-1771.	2.0	7
2362	Improvements in graphene growth on 4H-SiC(0001) using plasma induced surface oxidation. <i>Journal of Applied Physics</i> , 2019, 126, 065301.	1.1	2
2363	Edge states and ballistic transport in zigzag graphene ribbons: The role of SiC polytypes. <i>Physical Review B</i> , 2019, 100, .	1.1	12
2364	Tuning the doping level of graphene in the vicinity of the Van Hove singularity via ytterbium intercalation. <i>Physical Review B</i> , 2019, 100, .	1.1	47
2365	Epitaxial graphene/silicon carbide intercalation: a minireview on graphene modulation and unique 2D materials. <i>Nanoscale</i> , 2019, 11, 15440-15447.	2.8	85
2366	Large-Area Synthesis and Growth Mechanism of Graphene by Chemical Vapor Deposition. , 0, , .		11
2367	Disorder-induced multifractal superconductivity in monolayer niobium dichalcogenides. <i>Nature Physics</i> , 2019, 15, 904-910.	6.5	86
2368	In Situ Exfoliation of Graphite into Graphene Nanosheets in Elastomer Composites Based on Diels-Alder Reaction during Melt Blending. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 13182-13189.	1.8	9
2369	The effects of electron-phonon interaction on anisotropic RKKY interaction in graphene nanoribbon. <i>Chinese Journal of Physics</i> , 2019, 60, 749-760.	2.0	5
2370	Thermodynamic properties of graphene in a magnetic field and Rashba coupling. <i>Physica Scripta</i> , 2019, 94, 105707.	1.2	6
2371	Transfer-Free Synthesis of Lateral Graphene-Hexagonal Boron Nitride Heterostructures from Chemically Converted Epitaxial Graphene. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900419.	1.9	10

#	ARTICLE	IF	CITATIONS
2372	Graphene nanoflakes: Foundation for improving solid state electrochemistry based electrochromic devices. <i>Solar Energy Materials and Solar Cells</i> , 2019, 200, 110041.	3.0	15
2373	Controlled Graphene Synthesis from Solid Carbon Sources. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800688.	0.7	11
2374	Atomic deuteration of epitaxial many-layer graphene on 4H-SiC(0001 \hat{A}). <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019, 37, 041804.	0.6	1
2375	Formation of Graphene Island on Si (100) Substrate Prepared by Simple-Spray Method: Morphological and Optical Analyses. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 515, 012019.	0.3	1
2376	Growth of plasma-enhanced chemical vapour deposition and hot filament plasma-enhanced chemical vapour deposition transfer-free graphene using a nickel catalyst. <i>Thin Solid Films</i> , 2019, 685, 335-342.	0.8	7
2377	The role of edge magnetism on the Kohn-Sham gap and fundamental energy gap of graphene quantum dots with zigzag edges. <i>Carbon</i> , 2019, 153, 89-94.	5.4	2
2379	Vacancies effect on graphene: Raman study. <i>Journal of Physics: Conference Series</i> , 2019, 1292, 012019.	0.3	1
2381	Electron Diffraction Study of Epitaxial Graphene Structure Grown upon SiC (0001) Thermal Destruction in Ar Atmosphere and in High Vacuum. <i>Physics of the Solid State</i> , 2019, 61, 1940-1946.	0.2	2
2383	Etching- and intermediate-free graphene dry transfer onto polymeric thin films with high piezoresistive gauge factors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13032-13039.	2.7	16
2385	Wafer-scale Synthesis of Graphene on Sapphire: Toward Fab-compatible Graphene. <i>Small</i> , 2019, 15, e1904906.	5.2	61
2389	All-carbon hybrids for high-performance electronics, optoelectronics and energy storage. <i>Science China Information Sciences</i> , 2019, 62, 1.	2.7	6
2390	Facile and highly efficient preparation of semi-transparent, patterned and large-sized reduced graphene oxide films by electrochemical reduction on indium tin oxide glass surface. <i>Thin Solid Films</i> , 2019, 692, 137626.	0.8	3
2391	Effect of molarities on structural and optical properties of type-II heterostructure CdS/PbS core/shell quantum dot. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	5
2392	MoSe ₂ /graphene/6H-SiC heterojunctions: energy band diagram and photodegradation. <i>Semiconductor Science and Technology</i> , 2019, 34, 125007.	1.0	10
2393	Next-generation crossover-free quantum Hall arrays with superconducting interconnections. <i>Metrologia</i> , 2019, 56, 065002.	0.6	30
2394	Introducing strong correlation effects into graphene by gadolinium intercalation. <i>Physical Review B</i> , 2019, 100, .	1.1	55
2395	Diffraction paradox: An unusually broad diffraction background marks high quality graphene. <i>Physical Review B</i> , 2019, 100, .	1.1	15
2396	An Overview of the Recent Developments in Metal Matrix Nanocomposites Reinforced by Graphene. <i>Materials</i> , 2019, 12, 2823.	1.3	61

#	ARTICLE	IF	CITATIONS
2397	Manifestations of chaos in relativistic quantum systems - A study based on out-of-time-order correlator. <i>Physics Open</i> , 2019, 1, 100001.	0.7	3
2398	Critical Sublattice Symmetry Breaking: A Universal Criterion for Dirac Cone Splitting. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23082-23088.	1.5	2
2399	Tuning the graphene mechanical anisotropy via defect engineering. <i>Carbon</i> , 2019, 155, 697-705.	5.4	39
2400	Quantum Hall skyrmions at $\nu = \pm 1/2$ in monolayer graphene. <i>Physical Review B</i> , 2019, 100, .		
2401	Magneto-resistance of Ultralow-Hole-Density Monolayer Epitaxial Graphene Grown on SiC. <i>Materials</i> , 2019, 12, 2696.	1.3	2
2402	Direct exfoliation of graphite and its Raman spectroscopic study. <i>Materials Today: Proceedings</i> , 2019, 7, 798-802.	0.9	5
2403	Electrochemical Exfoliation of Pencil Graphite Core by Salt Electrolyte. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 469, 012105.	0.3	4
2404	Electrochemical activation of vertically grown graphene nanowalls synthesized by plasma-enhanced chemical vapor deposition for high-voltage supercapacitors. <i>Electrochimica Acta</i> , 2019, 300, 324-332.	2.6	19
2405	Nonvolatile Memories Based on Graphene and Related 2D Materials. <i>Advanced Materials</i> , 2019, 31, e1806663.	11.1	230
2406	Efficient synthesis of graphene oxide by Hummers method assisted with an electric field. <i>Materials Research Express</i> , 2019, 6, 055602.	0.8	8
2407	Smart Materials, Magnetic Graphene Oxide-Based Nanocomposites for Sustainable Water Purification. , 2019, , 759-781.		27
2408	Surface Functionalization of Graphene-Based Nanocomposites by Chemical Reaction. , 2019, , 21-45.		3
2409	Graphene based self-healing materials. <i>Carbon</i> , 2019, 146, 371-387.	5.4	52
2410	Functionalized Graphene Nanocomposite in Gas Sensing. , 2019, , 295-322.		5
2411	Wettability of graphene: from influencing factors and reversible conversions to potential applications. <i>Nanoscale Horizons</i> , 2019, 4, 339-364.	4.1	103
2412	Growth of U-Shaped Graphene Domains on Copper Foil by Chemical Vapor Deposition. <i>Materials</i> , 2019, 12, 1887.	1.3	2
2413	Tuneable infrared perfect absorber based on spatially separated double-layer graphene. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 085002.	1.0	4
2414	Atomic collapse in pseudospin-1 systems. <i>Physical Review B</i> , 2019, 99, .	1.1	9

#	ARTICLE	IF	CITATIONS
2415	A class of two-dimensional SiAs monolayers with novel electronic and optical properties from ab initio investigations. <i>European Physical Journal Plus</i> , 2019, 134, 1.	1.2	8
2416	Advanced Characterization Methods for Electrical and Sensoric Components and Devices at the Micro and Nano Scales. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1900106.	0.8	4
2417	Transverse spin susceptibilities of doped armchair graphene nanoribbon due to electron-phonon interaction. <i>Solid State Communications</i> , 2019, 298, 113638.	0.9	4
2418	Substrate effects on the in-plane ferroelectric polarization of two-dimensional SnTe. <i>Physical Review B</i> , 2019, 99, .	1.1	17
2419	The role of graphene loading on the corrosion-promotion activity of graphene/epoxy nanocomposite coatings. <i>Composites Part B: Engineering</i> , 2019, 173, 106916.	5.9	75
2420	A multilayer-graphene nanosheet film deposited on a ceramic substrate without a catalyst for constructing an electrochemiluminescence imaging platform. <i>Nanoscale</i> , 2019, 11, 12132-12138.	2.8	2
2421	Optical Modulation of Charge Transport in Layered Graphene System by Superionic Conductor RbAg ₄ I ₅ . <i>Advanced Materials Interfaces</i> , 2019, 6, 1900094.	1.9	0
2422	Radiation-induced magnetoresistance oscillations in monolayer and bilayer graphene. <i>Scientific Reports</i> , 2019, 9, 7278.	1.6	7
2423	Temperature control synthesis of platinum nanoparticle-decorated reduced graphene oxide of different functionalities for anode-catalytic oxidation of methanol. <i>FlatChem</i> , 2019, 16, 100111.	2.8	9
2425	Pseudospin-1 Systems as a New Frontier for Research on Relativistic Quantum Chaos. <i>Understanding Complex Systems</i> , 2019, , 119-131.	0.3	0
2426	Investigation on the structure and physical properties of Fe ₃ O ₄ /RGO nanocomposites and their photocatalytic application. <i>Materials Science in Semiconductor Processing</i> , 2019, 99, 44-53.	1.9	57
2427	Synthesis and patterning of graphene: Strategies and prospects. <i>Applied Physics Reviews</i> , 2019, 6, .	5.5	51
2428	Outstanding strength, optical characteristics and thermal conductivity of graphene-like BC ₃ and BC ₆ N semiconductors. <i>Carbon</i> , 2019, 149, 733-742.	5.4	126
2429	Graphene: An Effective Lubricant for Tribological Applications. <i>Lecture Notes in Mechanical Engineering</i> , 2019, , 239-258.	0.3	4
2430	Interface engineering for two-dimensional semiconductor transistors. <i>Nano Today</i> , 2019, 25, 122-134.	6.2	35
2431	Tailoring electronic and optical parameters of bilayer graphene through boron and nitrogen atom co-substitution; an ab-initio study. <i>Applied Surface Science</i> , 2019, 480, 463-471.	3.1	30
2432	An ultrafast quantum thermometer from graphene quantum dots. <i>Nanoscale Advances</i> , 2019, 1, 1772-1783.	2.2	15
2433	Nanoporous graphene: A 2D semiconductor with anisotropic mechanical, optical and thermal conduction properties. <i>Carbon</i> , 2019, 147, 377-384.	5.4	46

#	ARTICLE	IF	CITATIONS
2435	Atomistic simulations of charge transport in photoswitchable organic-graphene hybrids. JPhys Materials, 2019, 2, 035001.	1.8	7
2436	Comparison Between Functionalized Graphene and Carbon Nanotubes. , 2019, , 177-204.		17
2437	Theoretical realization of two-dimensional M ₃ (C ₆ X ₆) ₂ (M = Co, Cr, Cu, Fe, Mn, Ni, Pd, Rh and X = O, S,) Tj ETQq0 0.0 rgBT /Overlock 10	2.3	37
2438	Functional graphene film macroscopic assemblies for flexible supercapacitor application. Journal of Physics: Conference Series, 2019, 1168, 022071.	0.3	1
2439	On the interplay between plasma discharge instability and formation of free-standing graphene nanosheets in a dual-channel microwave plasma torch at atmospheric pressure. Journal Physics D: Applied Physics, 2019, 52, 265205.	1.3	17
2440	Altering the Properties of Graphene on Cu(111) by Intercalation of Potassium Bromide. ACS Nano, 2019, 13, 5485-5492.	7.3	20
2441	Recent Progress of Graphene-Based Photoelectrode Materials for Dye-Sensitized Solar Cells. International Journal of Photoenergy, 2019, 2019, 1-16.	1.4	31
2443	Graphene-Based Planar Microsupercapacitors: Recent Advances and Future Challenges. Advanced Materials Technologies, 2019, 4, 1800200.	3.0	54
2444	Black phosphorus electronics. Science Bulletin, 2019, 64, 1067-1079.	4.3	37
2445	N-, B-, P-, Al-, As-, and Ga-graphdiyne/graphyne lattices: first-principles investigation of mechanical, optical and electronic properties. Journal of Materials Chemistry C, 2019, 7, 3025-3036.	2.7	41
2446	Liquid phase exfoliation of MoO ₂ nanosheets for lithium ion battery applications. Nanoscale Advances, 2019, 1, 1560-1570.	2.2	35
2447	Bi-layer Graphene: Structure, Properties, Preparation and Prospects. Current Graphene Science, 2019, 2, 97-105.	0.5	3
2448	High radiation efficiency of coupled plasmonic graphene-based THz patch antenna utilizing strip slot ground plane removal. Optik, 2019, 182, 1082-1087.	1.4	21
2449	Alignment-resolved $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \langle \text{mml:msub} \langle \text{mml:mi mathvariant="normal"} \rangle \text{O} \langle \text{mml:mi} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ scattering from highly oriented pyrolytic graphite and LiF(001) surfaces. Physical Review B, 2019, 99, .	1.1	9
2450	Graphene and its Hybrids for Photocatalysis. Current Graphene Science, 2019, 2, 79-96.	0.5	1
2451	Preparation of Noble Metal/Graphene Nanocomposites Using Various Excited Reaction Sites in an Aqueous System. , 2019, , 201-223.		0
2452	Controlled synthesis of monolayer graphene with a high quality by pyrolysis of silicon carbide. Materials Letters, 2019, 244, 171-174.	1.3	20
2453	Magneto-EELS of armchair boronitrene nanoribbons. RSC Advances, 2019, 9, 2829-2835.	1.7	4

#	ARTICLE	IF	CITATIONS
2454	A promising nonlinear optical material and its applications for all-optical switching and information converters based on the spatial self-phase modulation (SSPM) effect of TaSe ₂ nanosheets. Journal of Materials Chemistry C, 2019, 7, 3811-3816.	2.7	41
2455	Electrospinning of Polystyrene/Polyhydroxybutyrate Nanofibers Doped with Porphyrin and Graphene for Chemiresistor Gas Sensors. Nanomaterials, 2019, 9, 280.	1.9	49
2456	Ultrahigh Electrical Conductivity of Graphene Embedded in Metals. Advanced Functional Materials, 2019, 29, 1806792.	7.8	126
2457	ECAISS 2019 Organizing Committee. , 2019, , .		0
2458	Simulation modelling for productivity improvement of sorting process in a ceramic plant. , 2019, , .		0
2459	Grating Coupler Biosensor with a Low Refractive Index Buffer Layer for Bulk and Surface Sensitivity Enhancements. , 2019, , .		0
2460	Computational Comparison Between MPC and SR-MPC For Fast Dynamic System in Presence of Hard Constraints. , 2019, , .		1
2461	Electric and Terahertz Characterisation of FET based on BLG/h-BN. , 2019, , .		0
2462	The role of surface morphology on nucleation density limitation during the CVD growth of graphene and the factors influencing graphene wrinkle formation. MRS Advances, 2019, 4, 3337-3345.	0.5	4
2463	Propagation Process of Streamers and Time History of Reduced Electric Field During Nanosecond Pulsed Discharge in Coaxial Electrode in Atmospheric Air. , 2019, , .		0
2464	Symposium on Services Computing Program Committee. , 2019, , .		0
2465	Non-Planarization Cu-Cu Direct Bonding and Gang Bonding with Low Temperature and Short Duration in Ambient Atmosphere. , 2019, , .		3
2466	Counting Devices: Revisiting Existing Approaches in Today's Settings. , 2019, , .		3
2467	Use of graphene in combination with plasmonic metal nanoparticles to enhance the opto-electronic efficiency of thin-film solar cells. , 2019, , .		0
2468	Quasi-Freestanding Graphene on SiC(0001) by Ar-Mediated Intercalation of Antimony: A Route Toward Intercalation of High-Vapor-Pressure Elements. Annalen Der Physik, 2019, 531, 1900199.	0.9	17
2469	Quantum mechanical study of chemical reactivity of graphene doped with iron in aqueous medium for applications in biomedicine. Journal of Nanoparticle Research, 2019, 21, 1.	0.8	2
2470	I-V Characteristics of In-Plate Graphene Nanoribbon/h-BN Heterojunctions and Resonant Tunneling. Journal of Physics: Conference Series, 2019, 1290, 012010.	0.3	0
2472	Nanostructured Materials for Treating Aquatic Pollution. Engineering Materials, 2019, , .	0.3	4

#	ARTICLE	IF	CITATIONS
2473	Nanostructured Carbon-Based Materials for Adsorption of Organic Contaminants from Water. <i>Engineering Materials</i> , 2019, , 35-64.	0.3	0
2474	Influence of impurities on structural, electronic and optical properties of graphene-like nano-layers MoSe ₂ . <i>Materials Research Express</i> , 2019, 6, 125093.	0.8	3
2475	Controllable Synthesis of Few-Layer Graphene on β -SiC(001). , 0, , .		0
2476	Introductory Chapter: Graphene and Its Applications. , 2019, , .		4
2477	Exfoliated Graphene Sheets: Polymer Nanoparticles as a Tool and Their Anti-Proliferative Activity. <i>ChemistrySelect</i> , 2019, 4, 13204-13209.	0.7	7
2478	Path towards graphene commercialization from lab to market. <i>Nature Nanotechnology</i> , 2019, 14, 927-938.	15.6	235
2479	Relative stabilities of various fully functionalized graphene polymorphs under mechanical strain and electric field. <i>Applied Surface Science</i> , 2019, 463, 1051-1057.	3.1	19
2480	Continuous Synthesis of Structurally Uniform Graphene Oxide Materials in a Model Taylor-Couette Flow Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 1167-1176.	1.8	16
2481	An improved method to null-fill H-plane radiation pattern of graphene patch THz antenna utilizing branch feeding microstrip line. <i>Optik</i> , 2019, 181, 21-27.	1.4	21
2482	Classic Carbon Nanostructures. , 2019, , 35-109.		1
2483	Raman Spectroscopy of Two-Dimensional Materials. <i>Springer Series in Materials Science</i> , 2019, , .	0.4	18
2484	Laser-derived graphene: A three-dimensional printed graphene electrode and its emerging applications. <i>Nano Today</i> , 2019, 24, 81-102.	6.2	138
2485	Self-supporting graphene oxide films preparation and characterization methods. <i>Vacuum</i> , 2019, 160, 1-11.	1.6	44
2486	Carbon nanocomposites for implant dentistry and bone tissue engineering. , 2019, , 47-63.		5
2487	Review of the Selected Carbon-Based Materials for Symmetric Supercapacitor Application. <i>Journal of Electronic Materials</i> , 2019, 48, 717-744.	1.0	54
2488	Mechanochemical Routes to Functionalized Graphene Nanofillers Tuned for Lightweight Carbon/Hydrocarbon Composites. <i>Macromolecular Materials and Engineering</i> , 2019, 304, 1800496.	1.7	16
2489	Synthesis of high-quality monolayer graphene by low-power plasma. <i>Current Applied Physics</i> , 2019, 19, 44-49.	1.1	4
2490	Epitaxial growth of graphene on V8C7 nanomeshes for highly efficient and stable hydrogen evolution reaction. <i>Journal of Catalysis</i> , 2019, 369, 47-53.	3.1	40

#	ARTICLE	IF	CITATIONS
2491	Interplay between Structural and Thermoelectric Properties in Epitaxial Sb ₂ Te ₃ Alloys. <i>Advanced Functional Materials</i> , 2019, 29, 1805184.	7.8	25
2492	Raman Imaging of Two Dimensional Materials. <i>Springer Series in Materials Science</i> , 2019, , 231-261.	0.4	0
2493	Surface interactions between 2D Ti ₃ C ₂ /Ti ₂ C MXenes and lysozyme. <i>Applied Surface Science</i> , 2019, 473, 409-418.	3.1	88
2494	Synthesis of few-layer WS ₂ by jet cavitation as anode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 775, 1251-1258.	2.8	23
2495	Template synthesis of novel monolayer B ₄ C ultrathin film. <i>Ceramics International</i> , 2019, 45, 2909-2916.	2.3	8
2496	Layer-by-Layer Graphene Growth on $\hat{1}^2$ -SiC/Si(001). <i>ACS Nano</i> , 2019, 13, 526-535.	7.3	14
2497	Alkyl phosphate modified graphene oxide as friction and wear reduction additives in oil. <i>Journal of Materials Science</i> , 2019, 54, 4626-4636.	1.7	30
2498	Atomic Properties and Electronic Structure. <i>Interface Science and Technology</i> , 2019, , 23-66.	1.6	3
2499	SYNTHESES OF LARGE-SIZED SINGLE CRYSTAL GRAPHENE: A REVIEW OF RECENT DEVELOPMENTS. <i>Surface Review and Letters</i> , 2019, 26, 1830007.	0.5	4
2500	New route: Conversion of coconut shell to graphite and graphene nano sheets. <i>Journal of King Saud University - Science</i> , 2020, 32, 189-190.	1.6	9
2501	Plasmonic wave propagation mode analysis of single and multi-layer graphene-pec structures. <i>Optik</i> , 2020, 200, 163365.	1.4	1
2502	Tuning electronic properties of epitaxial multilayer-graphene/4H-SiC(0001) by Joule heating decomposition in hydrogen. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 137, 109224.	1.9	5
2503	Research progress of graphene-based nanomaterials for the environmental remediation. <i>Chinese Chemical Letters</i> , 2020, 31, 1462-1473.	4.8	51
2504	High Stability of Epitaxial Graphene on a SiC Substrate. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900357.	0.7	1
2505	A Review of the Graphene Synthesis Routes and its Applications in Electrochemical Energy Storage. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2020, 45, 339-377.	6.8	47
2506	Recent advances in graphene based materials as anode materials in sodium-ion batteries. <i>Journal of Energy Chemistry</i> , 2020, 42, 91-107.	7.1	94
2507	Recovery from mechanical degradation of graphene by defect enlargement. <i>Nanotechnology</i> , 2020, 31, 085707.	1.3	6
2508	Effects of fluorination of carbon film and annealing conditions on side leakage current and current breakdown time of SiO ₂ /graphene/Cu/Ti/SiO ₂ /Si specimens. <i>Vacuum</i> , 2020, 172, 109037.	1.6	0

#	ARTICLE	IF	CITATIONS
2509	Functionalized graphene materials for hydrogen storage. <i>Journal of Materials Science</i> , 2020, 55, 1865-1903.	1.7	135
2510	Terahertz Nonlinear Optics of Graphene: From Saturable Absorption to High-Order Harmonics Generation. <i>Advanced Optical Materials</i> , 2020, 8, 1900771.	3.6	97
2511	Top-down synthesis of graphene nanoribbons using different sources of carbon nanotubes. <i>Carbon</i> , 2020, 158, 615-623.	5.4	33
2512	Extensive Fermi-Level Engineering for Graphene through the Interaction with Aluminum Nitrides and Oxides. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 1900399.	1.2	5
2513	Origin of layer decoupling in ordered multilayer graphene grown by high-temperature sublimation on C-face 4H-SiC. <i>APL Materials</i> , 2020, 8, .	2.2	4
2514	The effects of electron-phonon coupling and magnetic field on charge structure factors of armchair graphene nanoribbons. <i>Chemical Physics</i> , 2020, 530, 110592.	0.9	2
2515	A Self-Assembled Graphene Ribbon Device on SiC. <i>ACS Applied Electronic Materials</i> , 2020, 2, 204-212.	2.0	4
2516	The role of iodine in the enhancement of the supercapacitance properties of HI-treated flexible reduced graphene oxide film: an experimental study with insights from DFT simulations. <i>New Journal of Chemistry</i> , 2020, 44, 1418-1425.	1.4	13
2517	Direct observation of the geometric isomer selectivity of a reaction controlled <i>via</i> adsorbed bromine. <i>Nanoscale</i> , 2020, 12, 2726-2731.	2.8	11
2518	p-Type Epitaxial Graphene on Cubic Silicon Carbide on Silicon for Integrated Silicon Technologies. <i>ACS Applied Nano Materials</i> , 2020, 3, 830-841.	2.4	18
2519	Electronic and transport properties of zigzag phosphorene nanoribbons doped with ordered Si atoms. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126127.	0.9	8
2520	Carbon nanomaterials. , 2020, , 55-84.		5
2521	Molecular beam epitaxy fabrication of two-dimensional materials. , 2020, , 103-134.		4
2522	Transformation of the greenhouse gas carbon dioxide to graphene. <i>Journal of CO2 Utilization</i> , 2020, 36, 288-294.	3.3	40
2523	Very low-temperature growth of few-layer graphene by Ni-induced crystallization of amorphous carbon in vacuum. <i>Carbon</i> , 2020, 159, 37-44.	5.4	15
2524	High performance epoxy nanocomposites with enhanced thermal and mechanical properties by incorporating amine-terminated oligoimide-grafted graphene oxide. <i>High Performance Polymers</i> , 2020, 32, 569-587.	0.8	5
2525	Chemical doping of transition metal dichalcogenides (TMDCs) based field effect transistors: A review. <i>Superlattices and Microstructures</i> , 2020, 137, 106350.	1.4	37
2526	Fabrication and electrochemical properties of flexible transparent supercapacitor electrode materials based on cellulose nanofibrils and reduced graphene oxide. <i>Polymer Composites</i> , 2020, 41, 1135-1144.	2.3	14

#	ARTICLE	IF	CITATIONS
2527	Composites formed from tungsten trioxide and graphene oxide for the next generation of electrochromic interfaces. <i>Composites Communications</i> , 2020, 17, 115-122.	3.3	6
2528	Ultrafast Carrier Dynamics in Two-Dimensional Electron Gas-like K-Doped MoS ₂ . <i>Journal of Physical Chemistry C</i> , 2020, 124, 19187-19195.	1.5	0
2529	Overdoping Graphene Beyond the van Hove Singularity. <i>Physical Review Letters</i> , 2020, 125, 176403.	2.9	83
2530	An overview of industrial scalable production of graphene oxide and analytical approaches for synthesis and characterization. <i>Journal of Materials Research and Technology</i> , 2020, 9, 11587-11610.	2.6	111
2531	Decay, amplification and absorption of initial terahertz pulse in resonant two-level medium based on noninteracting array of zigzag nanotubes and armchair nanoribbons. <i>International Journal of Modern Physics B</i> , 2020, 34, 2050202.	1.0	2
2532	Synthesis of core-shell-like structure SnS ₂ -SnO ₂ integrated with graphene nanosheets for the electrochemical detection of furazolidone drug in furoxone tablet. <i>Journal of Molecular Liquids</i> , 2020, 313, 113554.	2.3	21
2533	Predicting a Novel Phase of 2D SiTe ₂ . <i>ACS Omega</i> , 2020, 5, 16848-16855.	1.6	4
2534	Sodium hydroxide mediated alumina nanoparticles from waste aluminum foil sheets – Biological impact and photo-catalytic efficacy on commercial dyes. <i>Materials Today: Proceedings</i> , 2020, 33, 2366-2374.	0.9	2
2535	In situ electrochemical exfoliation of embedded graphite to superficial graphene sheets for electroanalytical purposes. <i>Electrochimica Acta</i> , 2020, 354, 136762.	2.6	9
2536	Boron nitride switches for 5G and beyond. <i>Nature Electronics</i> , 2020, 3, 444-445.	13.1	4
2537	The effects of transition metal adatoms on the electronic properties of stanene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 124, 114365.	1.3	11
2538	High-contrast optical microscopy of graphene sheets. <i>Microscopy Research and Technique</i> , 2020, 83, 1132-1140.	1.2	1
2539	Synthesis of graphene. , 2020, , 181-221.		2
2540	Synthesis, characterization and antibacterial activity of a graphene oxide based NiO and starch composite material. <i>Journal of Dispersion Science and Technology</i> , 2022, 43, 559-571.	1.3	2
2541	Raman Spectroscopy Imaging of Exceptional Electronic Properties in Epitaxial Graphene Grown on SiC. <i>Nanomaterials</i> , 2020, 10, 2234.	1.9	10
2542	Impact of substitutional metallic dopants on the physical and electronic properties of germanene nanoribbons: A first principles study. <i>Results in Physics</i> , 2020, 18, 103333.	2.0	6
2543	The Blockchain Integrated Automatic Experiment Platform (BiaeP). <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9995-10000.	2.1	6
2544	Electronic interface and charge carrier density in epitaxial graphene on silicon carbide. A review on metal-graphene contacts and electrical gating. <i>APL Materials</i> , 2020, 8, .	2.2	6

#	ARTICLE	IF	CITATIONS
2545	Solar reduced graphene oxide coated sponge for oil and organic solvent adsorption studies. IOP Conference Series: Materials Science and Engineering, 2020, 872, 012123.	0.3	1
2546	Electronic and Transport Properties of Epitaxial Graphene on SiC and 3C-SiC/Si: A Review. Applied Sciences (Switzerland), 2020, 10, 4350.	1.3	11
2547	Twistronics in Graphene, from Transfer Assembly to Epitaxy. Applied Sciences (Switzerland), 2020, 10, 4690.	1.3	9
2548	Flame retardant, antistatic cotton fabrics crafted by layer-by-layer assembly. Cellulose, 2020, 27, 8457-8469.	2.4	25
2549	Engineering of Thermoplastic Elastomer with Graphene and Other Anisotropic Nanofillers. Engineering Materials, 2020, , .	0.3	6
2550	Nanoscale characterization of unintentional doping of atomically thin layered semiconductors by scanning nonlinear dielectric microscopy. Journal of Applied Physics, 2020, 128, .	1.1	4
2551	High micromechanical interlocking graphene oxide/carboxymethyl cellulose composite architectures for enhancing the interface adhesion between carbon fiber and epoxy. Composites Part A: Applied Science and Manufacturing, 2020, 139, 106092.	3.8	48
2552	Green reduction of graphene oxide using a mixture of chocolate and coffee powder. AIP Conference Proceedings, 2020, , .	0.3	4
2553	An Introduction to Graphene Materials. , 0, , .		0
2554	DFT study of electronic and electrical properties of stana-silicene as a novel 2D nanomaterial. Optical and Quantum Electronics, 2020, 52, 1.	1.5	3
2555	Photolithographic fabrication of planar on-chip micro-supercapacitors based on reduced graphene oxide films by modified liquid-air interface self-assembly. Ferroelectrics, 2020, 564, 146-152.	0.3	2
2556	Highly Ordered Boron Nitride/Epigraphene Epitaxial Films on Silicon Carbide by Lateral Epitaxial Deposition. ACS Nano, 2020, 14, 12962-12971.	7.3	14
2557	Optical excitations and thermoelectric properties of two-dimensional holey graphene. Physical Review B, 2020, 102, .	1.1	28
2558	Mechanical, electrical and thermal properties of graphene oxide-carbon nanotube/ ABS hybrid polymer nanocomposites. Journal of Polymer Research, 2020, 27, 1.	1.2	17
2559	Partial Pressure Assisted Growth of Single-Layer Graphene Grown by Low-Pressure Chemical Vapor Deposition: Implications for High-Performance Graphene FET Devices. ACS Omega, 2020, 5, 22109-22118.	1.6	6
2560	Visible region absorption in TMDs/phosphorene heterostructures for use in solar energy conversion applications. RSC Advances, 2020, 10, 31730-31739.	1.7	20
2561	Use of in-situ polymerization in the preparation of graphene / polymer nanocomposites. New Carbon Materials, 2020, 35, 336-343.	2.9	40
2562	Atomistic-Scale Simulations of the Graphene Growth on a Silicon Carbide Substrate Using Thermal Decomposition and Chemical Vapor Deposition. Chemistry of Materials, 2020, 32, 8306-8317.	3.2	27

#	ARTICLE	IF	CITATIONS
2563	Machine Learning-Based Detection of Graphene Defects with Atomic Precision. Nano-Micro Letters, 2020, 12, 181.	14.4	23
2564	Silicon Carbide Stacking-Order-Induced Doping Variation in Epitaxial Graphene. Advanced Functional Materials, 2020, 30, 2004695.	7.8	17
2565	High Layer Uniformity of Two-Dimensional Materials Demonstrated Surprisingly from Broad Features in Surface Electron Diffraction. Journal of Physical Chemistry Letters, 2020, 11, 8937-8943.	2.1	9
2566	Enhancing the photoelectrical performance of graphene/4H-SiC/graphene detector by tuning a Schottky barrier by bias. Applied Physics Letters, 2020, 117, .	1.5	11
2567	Current State of Porous Carbon for Wastewater Treatment. Processes, 2020, 8, 1651.	1.3	36
2568	<p>Ecospheric Decontamination Attained via Green Nanobiotechnological NiO-Based Nanocatalyst Derived from Nature's Biofactories</p>. International Journal of Nanomedicine, 2020, Volume 15, 8357-8367.	3.3	7
2569	Graphene Quality Assessment Using an Entropy Approach of SEM Images. Materials Science Forum, 0, 1004, 525-530.	0.3	0
2570	Adsorption of SF6 Decomposed Products on ZnO-Modified C3N: A Theoretical Study. Nanoscale Research Letters, 2020, 15, 186.	3.1	8
2571	Graphene for Radio Frequency Electronics. , 2020, , .		2
2572	Studies on covalent functionalization of single layer black phosphorus from GW calculations based on the many body perturbation theory. Electronic Structure, 2020, 2, 025005.	1.0	5
2573	Flexural modes of graphene resonators derived from the reactive empirical bond-order potential. Physical Review B, 2020, 101, .	1.1	3
2574	Large-area synthesis of a semiconducting silver monolayer via intercalation of epitaxial graphene. Physical Review B, 2020, 101, .	1.1	21
2575	Anisotropic Optical Properties of 2D Silicon Telluride. MRS Advances, 2020, 5, 1881-1889.	0.5	5
2576	Carbon-Based Composite Microwave Antennas. Electronics (Switzerland), 2020, 9, 590.	1.8	7
2577	Semiconductor to metal transition in two-dimensional gold and its van der Waals heterostack with graphene. Nature Communications, 2020, 11, 2236.	5.8	52
2578	Multiple growth of graphene from a pre-dissolved carbon source. Nanotechnology, 2020, 31, 345601.	1.3	5
2579	Selective linear etching of monolayer black phosphorus using electron beams*. Chinese Physics B, 2020, 29, 086801.	0.7	2
2580	Towards low- loss on-chip nanophotonics with coupled graphene and silicon carbide: a review. JPhys Materials, 2020, 3, 032005.	1.8	15

#	ARTICLE	IF	CITATIONS
2581	Engineering electronic thermal conductivity of hydrogenated bilayer boronitrene via impurity infection: Tight-binding theory. <i>Surface Science</i> , 2020, 700, 121677.	0.8	2
2582	Two-Dimensional Nature and the Meaning of the Density of States in Redox Monolayers. <i>Journal of Physical Chemistry C</i> , 2020, 124, 14918-14927.	1.5	6
2583	Electrochemically Exfoliated Graphene-Like Nanosheets for Use in Ceramic Nanocomposites. <i>Materials</i> , 2020, 13, 2656.	1.3	7
2584	Graphene: an exotic condensed matter and its impact on technology. <i>Emerging Materials Research</i> , 2020, 9, 564-617.	0.4	3
2585	Formation and trapping of CO ₂ due to the decomposition of amide solvents during the chemical reduction of graphene oxide by using the solvothermal method. <i>Diamond and Related Materials</i> , 2020, 108, 107966.	1.8	8
2586	DFT study on tailoring the structural, electronic and optical properties of bilayer graphene through metalloids intercalation. <i>Chemical Physics</i> , 2020, 536, 110828.	0.9	4
2587	Dual-band dual-polarization reconfigurable THz antenna based on graphene. <i>Applied Physics Express</i> , 2020, 13, 075007.	1.1	13
2588	Stress Field Characteristics and Collective Mechanical Properties of Defective Graphene. <i>Journal of Physical Chemistry C</i> , 2020, 124, 7421-7431.	1.5	6
2589	Authentication Protocols in Internet of Vehicles: Taxonomy, Analysis, and Challenges. <i>IEEE Access</i> , 2020, 8, 54314-54344.	2.6	73
2590	Inkjet-printed graphene Hall mobility measurements and low-frequency noise characterization. <i>Nanoscale</i> , 2020, 12, 6708-6716.	2.8	14
2591	Output-Constrained Robust Sliding Mode Based Nonlinear Active Suspension Control. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 10652-10662.	5.2	42
2592	Optical fiber surrounded by a graphene layer as an optical sensor. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	1.5	8
2593	Preparation of graphene. , 2020, , 39-171.		1
2594	Multidimensional graphene structures and beyond: Unique properties, syntheses and applications. <i>Progress in Materials Science</i> , 2020, 113, 100665.	16.0	61
2595	Mechanisms of graphene influence on cell differentiation. <i>Materials Today Chemistry</i> , 2020, 16, 100250.	1.7	28
2596	A Decomposition-Based Local Search for Large-Scale Many-Objective Vehicle Routing Problems With Simultaneous Delivery and Pickup and Time Windows. <i>IEEE Systems Journal</i> , 2020, 14, 5253-5264.	2.9	9
2597	Local Probes of Graphene Lattice Dynamics. <i>Small Methods</i> , 2020, 4, 1900817.	4.6	6
2598	Graphene oxide and reduced graphene oxide-based scaffolds in regenerative medicine. <i>International Journal of Pharmaceutics</i> , 2020, 580, 119226.	2.6	143

#	ARTICLE	IF	CITATIONS
2599	Fiber-shaped Supercapacitors: Advanced Strategies toward High-performances and Multi-functions. Chinese Journal of Polymer Science (English Edition), 2020, 38, 403-422.	2.0	13
2600	Recent Advancements on the CVD of Graphene on Copper from Ethanol Vapor. Journal of Carbon Research, 2020, 6, 14.	1.4	11
2601	Flat and safe under the graphene sheet. Nature Materials, 2020, 19, 583-584.	13.3	12
2602	Poly(methyl methacrylate)-Assisted Exfoliation of Graphite and Its Use in Acrylonitrile-Butadiene-Styrene Composites. Chemistry - A European Journal, 2020, 26, 6715-6725.	1.7	2
2603	Surface-enhanced Raman scattering from buffer layer under graphene on SiC in a wide energy range from visible to near-infrared. Japanese Journal of Applied Physics, 2020, 59, 040902.	0.8	6
2604	Emerging energy and environmental application of graphene and their composites: a review. Journal of Materials Science, 2020, 55, 7156-7183.	1.7	24
2605	Scanning nonlinear dielectric potentiometry for measurement of the potential induced by atomic dipole moments. , 2020, , 113-140.		0
2606	Effects of hydrogen/carbon molar ratio on graphene nano-flakes synthesis by a non-thermal plasma process. Diamond and Related Materials, 2020, 108, 107932.	1.8	6
2607	Structural and magnetic properties of a defective graphene buffer layer grown on SiC(0001): a DFT study. Physical Chemistry Chemical Physics, 2020, 22, 16096-16106.	1.3	7
2608	Electronic and electrical properties of two single-layer tetragonal silicon carbides. Chemical Physics Letters, 2020, 754, 137710.	1.2	5
2609	Surface modification of silicon carbide. , 2020, , 143-157.		1
2610	Mechanism of Highly Efficient Electron Emission from a Graphene/Oxide/Semiconductor Structure. ACS Applied Electronic Materials, 2020, 2, 2265-2273.	2.0	18
2611	Synthesis of heterostructures based on two-dimensional materials. , 2020, , 265-287.		2
2612	First principles study of sarin nerve gas adsorption on graphene nanoribbon with single molecule resolution. Materials Today: Proceedings, 2020, 28, 1985-1989.	0.9	3
2613	Remarkable thermal conductivity enhancement in Ag-decorated graphene nanocomposites based nanofluid by laser liquid solid interaction in ethylene glycol. Scientific Reports, 2020, 10, 10982.	1.6	25
2614	Wavefunctions and energy eigenvalues of charge carriers in zigzag carbon nanotubes and in armchair nanoribbons in the vicinity of Dirac point under the influence of longitudinal electric field. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 120, 114071.	1.3	7
2615	Dynamical Mass Generation in Graphene by Bicircular Laser Fields. Journal of Physics: Conference Series, 2020, 1508, 012004.	0.3	1
2616	Ultra-high mechanical flexibility of 2D silicon telluride. Applied Physics Letters, 2020, 116, .	1.5	13

#	ARTICLE	IF	CITATIONS
2617	Revisiting the Feldâ€™s Friendship Paradox in Online Social Networks. IEEE Access, 2020, 8, 24062-24071.	2.6	0
2618	Electronic and Phonon Instabilities in Bilayer Graphene under Applied External Bias. Materials Today: Proceedings, 2020, 20, 373-382.	0.9	4
2619	Thermal conductivity of defective graphene: an efficient molecular dynamics study based on graphics processing units. Nanotechnology, 2020, 31, 215708.	1.3	24
2620	Reviewâ€™Recent Advances in Carbon Nanomaterials as Electrochemical Biosensors. Journal of the Electrochemical Society, 2020, 167, 037555.	1.3	272
2621	Wafer-scale transfer-free process of multi-layered graphene grown by chemical vapor deposition. Materials Research Express, 2020, 7, 035001.	0.8	3
2622	Synthesis and optoelectronics of mixed-dimensional Bi/Te binary heterostructures. Nanoscale Horizons, 2020, 5, 847-856.	4.1	28
2623	TRIBOLOGICAL PERFORMANCE OF MODIFIED FLOCCULENT GRAPHITE AS LUBRICANT ADDITIVES. Surface Review and Letters, 2020, 27, 1950108.	0.5	3
2624	Defect-mediated intercalation of dysprosium on buffer layer graphene supported by SiC(0001) substrate. Chemical Physics Letters, 2020, 742, 137162.	1.2	3
2625	Removing contaminants from transferred CVD graphene. Nano Research, 2020, 13, 599-610.	5.8	43
2626	Emerging challenges in the thermal management of cellulose nanofibril-based supercapacitors, lithium-ion batteries and solar cells: A review. Carbohydrate Polymers, 2020, 234, 115888.	5.1	112
2627	Adsorption of dyes onto modified titanium dioxide. , 2020, , 85-160.		2
2628	Substrate induced nanoscale resistance variation in epitaxial graphene. Nature Communications, 2020, 11, 555.	5.8	19
2629	Production and processing of graphene and related materials. 2D Materials, 2020, 7, 022001.	2.0	333
2630	Accurate Determination of Interlayer Resistivity of 2-D Layered Systems: Graphene Case Study. IEEE Transactions on Electron Devices, 2020, 67, 627-632.	1.6	2
2631	Facile Production of Graphenic Microsheets and Their Assembly via Water-Based, Surfactant-Aided Mechanical Deformations. ACS Applied Materials & Interfaces, 2020, 12, 8944-8951.	4.0	6
2632	Phonon and Thermal Properties of Quasi-Two-Dimensional FePS ₃ and MnPS ₃ Antiferromagnetic Semiconductors. ACS Nano, 2020, 14, 2424-2435.	7.3	58
2633	An Integro-Differential Time-Domain Scheme for Electromagnetic Field Modeling in HTS Materials. IEEE Transactions on Magnetics, 2020, 56, 1-4.	1.2	1
2634	Oxidation of graphene with variable defects: alternately symmetrical escape and self-restructuring of carbon rings. Nanoscale, 2020, 12, 10140-10148.	2.8	20

#	ARTICLE	IF	CITATIONS
2653	Effect of defect guided out-of-plane deformations on the mechanical properties of graphene. Fullerenes Nanotubes and Carbon Nanostructures, 2021, 29, 83-99.	1.0	6
2654	Effect of Barium Hexaferrites and Thermally Reduced Graphene Oxide on EMI Shielding Properties in Polymer Composites. Journal of Superconductivity and Novel Magnetism, 2021, 34, 201-210.	0.8	25
2655	The effect of the geometry and content of the modified carbon nanotubes on the thermal properties of the composite phase-change materials. Journal of Thermal Analysis and Calorimetry, 2021, 143, 103-112.	2.0	5
2656	Challenges and prospects about the graphene role in the design of photoelectrodes for sunlight-driven water splitting. RSC Advances, 2021, 11, 14374-14398.	1.7	8
2657	Electronic Properties of SiB Nanoribbons in Density Functional Theory. Silicon, 2022, 14, 1431-1438.	1.8	0
2658	Electronic properties of monolayer graphene doped with nitrogen and boron atoms. AIP Conference Proceedings, 2021, , .	0.3	4
2659	Solution-processed two-dimensional materials for next-generation photovoltaics. Chemical Society Reviews, 2021, 50, 11870-11965.	18.7	96
2660	Doping isolated one-dimensional antiferromagnetic semiconductor vanadium tetrasulfide (VS_4) nanowires with carriers induces half-metallicity. Journal of Materials Chemistry C, 2021, 9, 3122-3128.	2.7	8
2661	Structure-Property Relationships in 3D Graphene-based Macrostructures. Chemistry in the Environment, 2021, , 41-56.	0.2	0
2662	Traction separation laws of graphene grain boundaries. Physical Chemistry Chemical Physics, 2021, 23, 14284-14295.	1.3	2
2663	A survey on pristine and intercalation doped graphene nanoribbon interconnect for future VLSI circuits. AIMS Materials Science, 2021, 8, 247-260.	0.7	1
2664	Recent progress and challenges based on two-dimensional material photodetectors. Nano Express, 2021, 2, 012001.	1.2	31
2665	Graphene oxide-based nanocomposites for adsorptive removal of water pollutants. , 2021, , 431-448.		3
2666	Anisotropic Transient Disorder of Colloidal, Two-Dimensional CdSe Nanoplatelets upon Optical Excitation. Nano Letters, 2021, 21, 1288-1294.	4.5	8
2667	Classification and application of nanomaterials for foodborne pathogens analysis. , 2021, , 79-99.		0
2668	Graphene- A Promising Material for Realizing Active and Passive Terahertz Radiators. Lecture Notes in Electrical Engineering, 2021, , 89-101.	0.3	0
2669	Graphene-based nanocomposites for biomedical engineering application. , 2021, , 197-224.		0
2670	Graphene-based metal matrix nanocomposites: Recent development and challenges. Journal of Composite Materials, 2021, 55, 2369-2413.	1.2	26

#	ARTICLE	IF	CITATIONS
2671	Graphene-based nanocomposite for hydrogen storage application. , 2021, , 57-78.		5
2672	Hexagonal Boron Nitride (h-BN) in Solutes Separation. Springer Series on Polymer and Composite Materials, 2021, , 163-191.	0.5	7
2673	Applications of Carbon Nanomaterials as Electrical Interconnects and Thermal Interface Materials. , 2021, , 31-60.		0
2674	Electronic transport in bilayer graphene. , 2021, , 51-84.		0
2675	Stacking Relations and Substrate Interaction of Graphene on Copper Foil. Advanced Materials Interfaces, 2021, 8, 2002025.	1.9	4
2676	Prediction of Graphene Oxide Functionalization Using Gradient Boosting: Implications for Material Chemical Composition Identification. ACS Applied Nano Materials, 2021, 4, 3167-3174.	2.4	10
2677	Low-Temperature Growth of Graphene on a Semiconductor. Journal of Physical Chemistry C, 2021, 125, 4243-4252.	1.5	6
2678	High-Quality Few-Layer Graphene on Single-Crystalline SiC thin Film Grown on Affordable Wafer for Device Applications. Nanomaterials, 2021, 11, 392.	1.9	10
2679	Nanostructured Graphene on $\hat{1}^2$ -SiC/Si(001): Atomic and Electronic Structures, Magnetic and Transport Properties (Brief Review). JETP Letters, 2021, 113, 176-193.	0.4	3
2680	On the electronic properties of defective graphene buffer layer on $6H\hat{1}^2$ -SiC(0001). Computational Condensed Matter, 2021, 26, e00538.	0.9	1
2681	Stacking Order Effects on the Electronic and Optical Properties of Graphene/Transition Metal Dichalcogenide Van der Waals Heterostructures. ACS Applied Electronic Materials, 2021, 3, 1671-1680.	2.0	12
2682	Lateral Interfaces between Monolayer MoS2 Edges and Armchair Graphene Nanoribbons on Au(111). ACS Nano, 2021, 15, 6699-6708.	7.3	4
2683	Scalable chemical vapor deposited graphene field-effect transistors for bio/chemical assay. Applied Physics Reviews, 2021, 8, .	5.5	10
2684	Tuning the electronic and optical properties of two-dimensional gallium nitride by chemical functionalization. Vacuum, 2021, 185, 110008.	1.6	17
2685	Modification of thin carbon films by UVc light. Journal of Physics: Conference Series, 2021, 1859, 012008.	0.3	0
2686	Recent Progress in Radio-Frequency Sensing Platforms with Graphene/Graphene Oxide for Wireless Health Care System. Applied Sciences (Switzerland), 2021, 11, 2291.	1.3	2
2687	2D Nb ₂ SiTe ₄ and Nb ₂ GeTe ₄ : promising thermoelectric figure of merit and gate-tunable thermoelectric performance. Nanotechnology, 2021, 32, 245203.	1.3	10
2688	Fabrication of Graphene Based Durable Intelligent Personal Protective Clothing for Conventional and Non-Conventional Chemical Threats. Nanomaterials, 2021, 11, 940.	1.9	11

#	ARTICLE	IF	CITATIONS
2689	Synthesis of Wafer-Scale Graphene with Chemical Vapor Deposition for Electronic Device Applications. <i>Advanced Materials Technologies</i> , 2021, 6, 2000744.	3.0	46
2690	Montmorillonite-Based Two-Dimensional Nanocomposites: Preparation and Applications. <i>Molecules</i> , 2021, 26, 2521.	1.7	22
2691	Six Decades of Research on 2D Materials: Progress, Dead Ends, and New Horizons. , 2021, , .		0
2692	Graphene coating on a nickel-copper alloy (Monel 400) for microbial corrosion resistance: Electrochemical and surface characterizations. <i>Corrosion Science</i> , 2021, 182, 109299.	3.0	37
2693	Exceptional piezoelectricity, high thermal conductivity and stiffness and promising photocatalysis in two-dimensional MoSi ₂ N ₄ family confirmed by first-principles. <i>Nano Energy</i> , 2021, 82, 105716.	8.2	303
2694	Laser-assisted graphene growth directly on silicon. <i>Nanotechnology</i> , 2021, 32, 305601.	1.3	7
2696	Doping and Stress Induced Raman Shifts in Pd-Decorated CVD Grown Graphene. <i>ECS Journal of Solid State Science and Technology</i> , 0, , .	0.9	3
2697	Raman spectra and infrared intensities of graphene-like clusters in compared to epitaxial graphene on SiC. <i>Indian Journal of Physics</i> , 0, , 1.	0.9	0
2698	Magneto-Optical Effects in Various Crystalline Materials, Films, and Meso- and Nanostructures. <i>Crystallography Reports</i> , 2021, 66, 323-348.	0.1	5
2699	Effect of Extrinsic Disorder on the Magnetoresistance Response of Gated Single-Layer Graphene Devices. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 26152-26160.	4.0	5
2700	Pristine Graphene Insertion at the Metal/Semiconductor Interface to Minimize Metal-Induced Gap States. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 22828-22835.	4.0	8
2701	Angle-resolved photoemission spectroscopy studies of electron-electron interactions in graphene. <i>Current Applied Physics</i> , 2021, 30, 27-39.	1.1	3
2702	Investigation of edge states in artificial graphene nano-flakes. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 225003.	0.7	5
2703	Enhancement of the photocurrents injected in gapped graphene by the orthogonally polarized two-color laser field. <i>Optics Express</i> , 2021, 29, 17387.	1.7	3
2704	Atomistic Band-Structure Computation for Investigating Coulomb Dephasing and Impurity Scattering Rates of Electrons in Graphene. <i>Nanomaterials</i> , 2021, 11, 1194.	1.9	6
2706	Graphene preparation and graphite exfoliation. <i>Turkish Journal of Chemistry</i> , 2021, 45, 493-519.	0.5	45
2707	Drug Carriers Based on Graphene Oxide and Hydrogel: Opportunities and Challenges in Infection Control Tested by Amoxicillin Release. <i>Materials</i> , 2021, 14, 3182.	1.3	14
2708	Fabrication of Reduced Graphene Oxide Thin Films on Corona Treated Silicon Substrates. <i>Thin Solid Films</i> , 2021, 728, 138693.	0.8	4

#	ARTICLE	IF	CITATIONS
2709	Monolayer Iridium Sulfide Halides with High Mobility Transport Anisotropy and Highly Efficient Light Harvesting. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6007-6013.	2.1	9
2710	Conversion of <i>Lagenaria Siceraria</i> peel to reduced graphene oxide doped with zinc oxide nanoparticles for supercapacitor applications. <i>Semiconductor Physics, Quantum Electronics and Optoelectronics</i> , 2021, 24, 115-123.	0.3	2
2711	Non-conventional bell-shaped diffuse scattering in low-energy electron diffraction from high-quality epitaxial 2D-materials. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	5
2712	The role of charge distribution on the friction coefficients of epitaxial graphene grown on the Si-terminated and C-terminated faces of SiC. <i>Carbon</i> , 2021, 178, 125-132.	5.4	3
2713	Preparation of few-layered graphene using K-THF-GICs with the addition of alcohol. <i>Tanso</i> , 2021, 2021, 87-94.	0.1	0
2714	Electromagnetic Scattering from a Graphene Disk: Helmholtz-Galerkin Technique and Surface Plasmon Resonances. <i>Mathematics</i> , 2021, 9, 1429.	1.1	10
2715	Graphene nanocomposites: A review on processes, properties, and applications. <i>Journal of Industrial Textiles</i> , 2022, 51, 3718S-3766S.	1.1	22
2716	Work function modulation of graphene with binary mixture of Cu and C60F36. <i>Carbon</i> , 2021, 179, 172-179.	5.4	8
2717	Development and characterization of multiwalled carbon nanotube-reinforced microwave sintered hybrid aluminum metal matrix composites: An experimental investigation on mechanical and tribological performances. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2021, 235, 2310-2323.	0.7	1
2718	Chromatographic Approach to Isolate Exfoliated Graphene. <i>Langmuir</i> , 2021, 37, 9378-9384.	1.6	2
2719	Graphene, Graphene-Derivatives and Composites: Fundamentals, Synthesis Approaches to Applications. <i>Journal of Composites Science</i> , 2021, 5, 181.	1.4	28
2720	Ultrahigh stiffness and anisotropic Dirac cones in BeN4 and MgN4 monolayers: a first-principles study. <i>Materials Today Nano</i> , 2021, 15, 100125.	2.3	23
2721	Fabrication of a Sensitive and Stable NiO Uric Acid Biosensor Using Ag Nanowires and Reduced Graphene Oxide. <i>Energies</i> , 2021, 14, 4696.	1.6	1
2722	Recent advances in graphene-based micro-supercapacitors: Processes and applications. <i>Journal of Materials Research</i> , 2021, 36, 4102-4119.	1.2	7
2723	Low-Temperature Graphene Growth and Shrinkage Dynamics from Petroleum Asphaltene on CuO Nanoparticle. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 12001-12010.	1.8	0
2724	Flow characteristics of low pressure chemical vapor deposition in the micro-channel. <i>Physics of Fluids</i> , 2021, 33, 082012.	1.6	2
2725	Tuning electronic structure and optical properties of monolayer GeAs and GeAs2 by alloying with nitrogen and phosphorus elements. <i>Physica B: Condensed Matter</i> , 2021, 614, 413033.	1.3	3
2726	Wafer-scale integration of graphene for waveguide-integrated optoelectronics. <i>Applied Physics Letters</i> , 2021, 119, 050501.	1.5	7

#	ARTICLE	IF	CITATIONS
2727	Interface construction for charge transportation of ZnO/graphene multilayer films. <i>Functional Materials Letters</i> , 2021, 14, 2150027.	0.7	0
2728	Synthesis and Characterization of Nitrogen-Doped Graphene Nanowalls by Plasma-Enhanced Chemical Vapor Deposition for High Voltage Supercapacitors: Effects of Carbon Sources. <i>Journal of the Electrochemical Society</i> , 2021, 168, 080505.	1.3	5
2729	Synthesis, characterisation and thermo-physical properties of highly stable graphene oxide-based aqueous nanofluids for potential low-temperature direct absorption solar applications. <i>Scientific Reports</i> , 2021, 11, 16549.	1.6	21
2730	Ultrafast Plasmon Thermalization in Epitaxial Graphene Probed by Time-Resolved THz Spectroscopy. <i>Advanced Functional Materials</i> , 2021, 31, 2105763.	7.8	8
2731	Synthesis and Raman characterization of wood sawdust ash, and wood sawdust ash-derived graphene. <i>Diamond and Related Materials</i> , 2021, 117, 108496.	1.8	12
2732	The effect of Cl- and N-doped MoS ₂ and WS ₂ coated on epitaxial graphene in gas-sensing applications. <i>Surfaces and Interfaces</i> , 2021, 25, 101200.	1.5	14
2733	Application of supercritical fluid in the synthesis of graphene materials: a review. <i>Journal of Nanoparticle Research</i> , 2021, 23, 1.	0.8	5
2734	Preparation of N-TiO ₂ /RGO nanocomposites through sol-gel method. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 1913-1922.	1.2	5
2735	Pt-Pd Bimetallic Nanocomposites Catalyst Formed on Graphene Surface: Preparation and high-performance for Methanol Electro-Oxidation. <i>International Journal of Electrochemical Science</i> , 0, , ArticleID:210828.	0.5	1
2736	Adsorption Mechanisms of Alkali Metal, Alkaline Earth Metal, and Halogen Atoms on Van der Waals Materials. <i>Journal of Physical Chemistry C</i> , 2021, 125, 19259-19267.	1.5	4
2737	Ultrahigh thermal conductivity and strength in direct-gap semiconducting graphene-like BC ₆ N: A first-principles and classical investigation. <i>Carbon</i> , 2021, 182, 373-383.	5.4	38
2738	ZnO/Ag/graphene transparent conductive oxide film with ultrathin Ag layer. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2021, 39, .	0.6	1
2739	A First-Principles Study of Transport Properties in Armchair Germanene Nanoribbon Field Effect Transistors Subject to Metallic Dopants. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 091016.	0.9	1
2740	Broad background in electron diffraction of 2D materials as a signature of their superior quality. <i>Nanotechnology</i> , 2021, 32, 505706.	1.3	3
2741	Large-Area MoS ₂ via Colloidal Nanosheet Ink for Integrated Memtransistor. <i>Small Methods</i> , 2021, 5, 2100558.	4.6	8
2742	A Review of Graphene: Material Synthesis from Biomass Sources. <i>Waste and Biomass Valorization</i> , 2022, 13, 1385-1429.	1.8	34
2743	Development of Graphene-Based Polymeric Nanocomposites: A Brief Overview. <i>Polymers</i> , 2021, 13, 2978.	2.0	28
2744	Electric field induced injection and shift currents in zigzag graphene nanoribbons. <i>Physical Review B</i> , 2021, 104, .	1.1	6

#	ARTICLE	IF	CITATIONS
2745	Dynamics and Decoherence of Polaron in Monolayer Graphene Under Magnetic Field. Journal of Low Temperature Physics, 2021, 205, 29-44.	0.6	1
2746	The potential of stanene with transition metal adsorbed as a promising gas sensor: A first-principles study. Results in Physics, 2021, 28, 104617.	2.0	11
2747	Chemical vapor deposition of graphene by ethanol decomposition and its smooth transfer. Journal of Materials Research, 2021, 36, 3258.	1.2	0
2748	A review of gas sensors based on carbon nanomaterial. Carbon Letters, 2022, 32, 339-364.	3.3	45
2749	Enhanced Absorption with Graphene-Coated Silicon Carbide Nanowires for Mid-Infrared Nanophotonics. Nanomaterials, 2021, 11, 2339.	1.9	7
2750	Bloch's Band Structures of a Pair of Interacting Electrons in Graphene. Journal of the Physical Society of Japan, 2021, 90, 104702.	0.7	1
2751	Influence of surface and subsurface Co-Ir alloy on the electronic properties of graphene. Carbon, 2021, 183, 251-258.	5.4	2
2752	Metal induced charge transfer doping in graphene-ruthenium hybrid interconnects. Carbon, 2021, 183, 999-1011.	5.4	10
2753	Highly sensitive on-line detection of trace Pb ²⁺ based on tapered fiber integrated with black phosphorus. Optical Fiber Technology, 2021, 66, 102668.	1.4	6
2754	Exploring tensile piezoelectricity and bending flexoelectricity of diamane monolayers by machine learning. Carbon, 2021, 185, 558-567.	5.4	13
2755	Raman and IR spectra of a 2D Thiophene-Tetrathia-Annulene monolayer calculated via density-functional theory. Materials Chemistry and Physics, 2022, 275, 125181.	2.0	1
2756	Direct Growth of Graphene/Graphene Oxide Heterostructures on Polar Oxide Substrates. Springer Series in Materials Science, 2021, , 587-601.	0.4	0
2757	Synthesis of graphene and other two-dimensional materials. , 2021, , 1-79.		4
2758	Magnetotransport in hybrid InSe/monolayer graphene on SiC. Nanotechnology, 2021, 32, 155704.	1.3	3
2759	Emerging hybrids derived from polythiophene and graphene. , 2021, , 129-156.		0
2760	Alkyl Titanate-Modified Graphene Oxide as Friction and Wear Reduction Additives in PAO Oil. ACS Omega, 2021, 6, 3840-3846.	1.6	9
2761	A comprehensive review on selected graphene synthesis methods: from electrochemical exfoliation through rapid thermal annealing towards biomass pyrolysis. Journal of Materials Chemistry C, 2021, 9, 6722-6748.	2.7	54
2763	Graphene/Reduced Graphene Oxide as Electrode Materials for Supercapacitors. Springer Series in Materials Science, 2020, , 271-296.	0.4	14

#	ARTICLE	IF	CITATIONS
2764	Transition Metal Oxide/Graphene/Reduced Graphene Oxide Composites as Electrode Materials for Supercapacitors. Springer Series in Materials Science, 2020, , 297-331.	0.4	15
2765	Bio-Inspired Engineering of 3D Carbon Nanostructures. Springer Series in Biomaterials Science and Engineering, 2016, , 365-420.	0.7	1
2766	Photoemission Studies of Graphene on SiC: Growth, Interface, and Electronic Structure. , 2008, , 159-170.		24
2767	The electronic band structure of graphene. , 2018, , 674-682.		1
2768	Towards electronic devices based on epigraphene. , 2018, , 730-740.		1
2769	Organic Chemistry of Graphene Framework. , 2015, , 337-360.		5
2770	Synthesis of Graphene. , 2015, , 1-11.		1
2772	Ultrasound-Assisted Synthesis, Exfoliation and Functionalisation of Graphene Derivatives. Carbon Nanostructures, 2019, , 63-103.	0.1	3
2773	Conduction mechanisms in epitaxial NiO/Graphene gas sensors. Sensors and Actuators B: Chemical, 2020, 325, 128797.	4.0	14
2774	Spatial Confinement Approach Using Ni to Modulate Local Carbon Supply for the Growth of Uniform Transfer-Free Graphene Monolayers. Journal of Physical Chemistry C, 2020, 124, 23094-23105.	1.5	7
2775	Electronic Structure of Double-Layer Epitaxial Graphene on SiC(0001) Modified by Gd Intercalation. Journal of Physical Chemistry C, 2020, 124, 28132-28138.	1.5	8
2776	Covalent Immobilization of Gold Nanoparticles on Graphene. Journal of Physical Chemistry C, 2019, 123, 3512-3516.	1.5	14
2777	CHAPTER 14. Graphene-Based Biosensors for Food Analysis. Food Chemistry, Function and Analysis, 2016, , 327-353.	0.1	1
2778	Scars in Dirac fermion systems: the influence of an Aharonov-Bohm flux. New Journal of Physics, 2017, 19, 013018.	1.2	9
2779	Effect of Ag nanoparticles on wafer-scale quasi-free-standing graphene characterization by surface enhanced Raman spectroscopy. Materials Research Express, 2020, 7, 106412.	0.8	2
2780	Robustness of persistent currents in two-dimensional Dirac systems with disorder. Physical Review B, 2017, 96, .	1.1	9
2781	Probing the structural transition from buffer layer to quasifreestanding monolayer graphene by Raman spectroscopy. Physical Review B, 2019, 99, .	1.1	13
2782	Growth and stability of Pb intercalated phases under graphene on SiC. Physical Review Materials, 2020, 4, .	0.9	14

#	ARTICLE	IF	CITATIONS
2783	Quantization of massive Dirac billiards and unification of nonrelativistic and relativistic chiral quantum scars. <i>Physical Review Research</i> , 2019, 1, .	1.3	13
2784	Dynamical and Static Charge Structure Factors of Doped Zigzag Nanotubes. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 051004.	0.9	2
2785	Synthesis and potential applications of nanoporous graphene: A review. <i>Proceedings of the Nature Research Society</i> , 0, 2, .	0.0	17
2788	Optical Absorption and Raman Scattering Studies of Few-Layer Epitaxial Graphene Grown on 4H-SiC Substrates. <i>Acta Physica Polonica A</i> , 2009, 116, 835-837.	0.2	5
2789	All-Solid-Sate pH Sensing Material Based on Cysteic Acid/Graphene Oxide Nanocomposites. , 2015, , .		2
2790	Graphene Epitaxially Grown on Vicinal 4H-SiC(0001) Substrates. <i>E-Journal of Surface Science and Nanotechnology</i> , 2009, 7, 29-34.	0.1	3
2791	Physics of Graphene. <i>Hyomen Kagaku</i> , 2008, 29, 296-303.	0.0	3
2792	Graphene films synthesized by chemical vapor deposition with ethanol. <i>Transactions of the Materials Research Society of Japan</i> , 2011, 36, 359-362.	0.2	4
2793	Graphene Systems: Methods of Fabrication and Treatment, Structure Formation, and Functional Properties. <i>Progress in Physics of Metals</i> , 2010, 11, 95-138.	0.5	13
2794	Ortogonal dizinler kullanarak kimyasal buhar ÅÅ¶ktÅ¼rme yÅ¶ntemi ile bÅ¼yÅ¼tÅ¼len grafenin ana etkiler analizi. <i>Journal of the Faculty of Engineering and Architecture of Gazi University</i> , 2018, 2018, .	0.3	1
2795	Performance Characterization of Schottky Tunneling Graphene Field Effect Transistor at 60 nm Gate Length. <i>Sains Malaysiana</i> , 2017, 46, 1089-1095.	0.3	2
2797	Comprehensive Review on Graphene Oxide for Use in Drug Delivery System. <i>Current Medicinal Chemistry</i> , 2020, 27, 3665-3685.	1.2	92
2798	Bio-reduction of Graphene Oxide: Catalytic Applications of (Reduced) GO in Organic Synthesis. <i>Current Organic Synthesis</i> , 2020, 17, 164-191.	0.7	9
2799	Density Functional Theory Calculations on Interface Structures and Adsorption Properties of Graphenes: A Review. <i>The Open Nanoscience Journal</i> , 2009, 3, 34-55.	1.8	9
2800	Fluorescence detection system based on silicon quantum dotsâ€“polysilane nanocomposites. <i>EXPRESS Polymer Letters</i> , 2016, 10, 990-1002.	1.1	10
2802	Recent Advances in Two-Dimensional Magnets: Physics and Devices towards Spintronic Applications. <i>Research</i> , 2020, 2020, 1768918.	2.8	58
2803	Progress in Preparation of Graphene. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2011, 26, 561-570.	0.6	18
2804	Epitaxial Growth of Graphene and Their Applications in Devices. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2011, 26, 1009-1019.	0.6	16

#	ARTICLE	IF	CITATIONS
2805	Graphene and CNT Field Effect Transistors Based Biosensor Models. Advances in Computer and Electrical Engineering Book Series, 2017, , 294-333.	0.2	2
2806	Analytical Modeling of Bilayer Graphene Based Biosensor. Journal of Biosensors & Bioelectronics, 2013, 04, .	0.4	3
2807	Quantitative Photocatalytic Activity under Visible Light with Mn-ACF/TiO ₂ . Journal of the Korean Ceramic Society, 2016, 53, 343-348.	1.1	5
2808	Band Gap Effects in a Two-Dimensional Regular Polygonal Graphene-Like Structure. Crystal Structure Theory and Applications, 2014, 03, 10-21.	0.3	4
2809	Band Gap Opening of Graphene by Noncovalent π - π Interaction with Porphyrins. Graphene, 2013, 02, 102-108.	0.3	18
2810	Heteroatom Doped Multi-Layered Graphene Material for Hydrogen Storage Application. Graphene, 2016, 05, 39-50.	0.3	30
2811	Synthesis and Fabrication of Graphene and Graphene Oxide: A Review. Open Journal of Composite Materials, 2019, 09, 207-229.	0.4	106
2812	The Preparation of Alumina Particles Wrapped in Few-layer Graphene Sheets and Their Application to Dye-sensitized Solar Cells. Bulletin of the Korean Chemical Society, 2011, 32, 1579-1582.	1.0	5
2813	Synthesis of Highly Dispersed and Conductive Graphene Sheets by Exfoliation of Preheated Graphite in a Sealed Bath and its Applications to Polyimide Nanocomposites. Bulletin of the Korean Chemical Society, 2014, 35, 2049-2056.	1.0	12
2814	Synthesis and applications of graphene electrodes. Carbon Letters, 2012, 13, 1-16.	3.3	33
2815	Graphene field-effect transistor for radio-frequency applications : review. Carbon Letters, 2012, 13, 17-22.	3.3	9
2816	Characterization of chemical vapor deposition-grown graphene films with various etchants. Carbon Letters, 2012, 13, 44-47.	3.3	11
2817	Comprehensive review on synthesis and adsorption behaviors of graphene-based materials. Carbon Letters, 2012, 13, 73-87.	3.3	39
2818	Parametric Study of Methanol Chemical Vapor Deposition Growth for Graphene. Carbon Letters, 2012, 13, 205-211.	3.3	15
2819	Overlook of current chemical vapor deposition-grown large single-crystal graphene domains. Carbon Letters, 2014, 15, 151-161.	3.3	3
2820	Transparent and Electrically Conductive Films from Chemically Derived Graphene. , 0, , .		1
2821	Graphene Etching on Well-Defined Solid Surfaces. , 0, , .		1
2822	Theoretical Studies on Formation, Property Tuning and Adsorption of Graphene Segments. , 0, , .		2

#	ARTICLE	IF	CITATIONS
2823	Bacterial Interaction with Graphene Particles and Surfaces. , 0, , .		6
2824	Graphene and Its Industrial Applications $\frac{1}{2}$ C A Review. International Journal of Materials Engineering, 2020, 10, 1-12.	1.0	11
2825	Synthesis and characterization of graphene from rice husks. Tanso, 2016, 2016, 182-190.	0.1	7
2826	Preparation and Properties of Polystyrene/Graphene Nanofiller Nanocomposites via Latex Technology. Porrima, 2015, 39, 468-474.	0.0	2
2827	A Study on Synthesis of Polyurethane/Functionalized Graphene Nanocomposites by In-situ Intercalation Method. Elastomers and Composites, 2012, 47, 238-245.	0.1	4
2828	Electronic structure of twisted bilayer graphene. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 157302.	0.2	3
2829	Nature of Graphene Edges: A Review. Japanese Journal of Applied Physics, 2011, 50, 070101.	0.8	113
2830	Structural Analysis and Direct Imaging of Rotational Stacking Faults in Few-Layer Graphene Synthesized from Solid Botanical Precursor. Japanese Journal of Applied Physics, 2011, 50, 070106.	0.8	2
2831	Theoretical Study of Population Inversion in Graphene under Pulse Excitation. Japanese Journal of Applied Physics, 2011, 50, 070116.	0.8	19
2832	Vacuum Annealing Formation of Graphene on Diamond C(111) Surfaces Studied by Real-Time Photoelectron Spectroscopy. Japanese Journal of Applied Physics, 2012, 51, 11PF02.	0.8	13
2833	Reversible CO ₂ storage and efficient separation using Ca decorated porphyrin-like porous C ₂₄ N ₂₄ fullerene: a DFT study. RSC Advances, 2021, 11, 34402-34409.	1.7	4
2834	One-pot three-component tandem annulation of 4-hydroxycoumarin with aldehyde and aromatic amines using graphene oxide as an efficient catalyst. Scientific Reports, 2021, 11, 19891.	1.6	9
2835	Dense (non-hollow) carbon nanospheres: synthesis and electrochemical energy applications. Materials Today Nano, 2021, 16, 100147.	2.3	11
2836	Fluid descriptions of quantum plasmas. Reviews of Modern Plasma Physics, 2021, 5, 1.	2.2	16
2837	Amphiphilicity of Intricate Layered Graphene/g-C ₃ N ₄ Nanosheets. Journal of Physical Chemistry B, 2021, 125, 11697-11708.	1.2	5
2838	Disorders in graphene: types, effects and control techniques—a review. Carbon Letters, 2022, 32, 431-450.	3.3	9
2839	Structure and electronic properties of MoSi ₂ P ₄ monolayer. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 420, 127751.	0.9	12
2840	Circuits, Applications and Outlook. Integrated Circuits and Systems, 2009, , 247-262.	0.2	0

#	ARTICLE	IF	CITATIONS
2841	THz Emission from Coherently Controlled Photocurrents in Epitaxial Graphene. , 2009, , .		1
2842	Geometric PhaseGeometric phase and Related Phenomena in Quantum Nanosystems. , 2009, , 4194-4209.		0
2843	Optical Measurement of the Phase-Breaking Length in Graphene. , 2010, , .		1
2844	Temperature-Dependent Coherently Controlled Photocurrent Generation in Epitaxial Graphene. , 2010, , .		0
2845	Nobel prize committee under fire. Nature, 0, , .	13.7	3
2846	Magnetic properties and excited states of thegraphene quantum dots. Wuli Xuebao/Acta Physica Sinica, 2011, 60, 047105.	0.2	2
2847	Preparation of graphene on different-polarity 6H-SiC substrates and the study of their electronic structures. Wuli Xuebao/Acta Physica Sinica, 2011, 60, 047302.	0.2	6
2848	Mode-locked Fiber Laser with Few-Layer Epitaxial Graphene Grown on 6H-SiC Substrates. , 2011, , .		2
2849	Chemical reactivity of graphene. , 2011, , 243-264.		0
2851	Growth and characterization of graphene on SiO ₂ /Si substrate. Wuli Xuebao/Acta Physica Sinica, 2012, 61, 037302.	0.2	7
2852	Graphene. , 2012, , 579-595.		0
2854	Grafeno: el alÃ³tropa mÃ¡s prometedor del carbono. Acta Universitaria, 2012, 22, 20-23.	0.2	1
2855	Anisotropic Electronic Transport of Graphene on a Nano-Patterned Substrate. Applied Science and Convergence Technology, 2012, 21, 279-285.	0.3	1
2856	Electronic Transport in Graphene. , 2012, , 59-94.		0
2857	Process in preparation of metal-catalyzed graphene. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 028201.	0.2	6
2859	PECCS Measurements in Nanostructure FETs. SpringerBriefs in Physics, 2013, , 83-97.	0.2	0
2860	Recent progress in preparation of material and device of two-dimensional MoS ₂ . Wuli Xuebao/Acta Physica Sinica, 2013, 62, 056801.	0.2	4
2862	Carbon-Based Nanostructures. Integrated Analytical Systems, 2014, , 3-31.	0.4	0

#	ARTICLE	IF	CITATIONS
2863	Wide Field Imaging Analysis of Graphene. Korean Journal of Optics and Photonics, 2013, 24, 143-147.	0.1	2
2864	Carbon-Based Zero-, One-, and Two-Dimensional Materials for Device Application. , 2013, , 655-676.		0
2867	Fabrication and Characterization of Transparent Conductive Film based on Bacterial Cellulose. Korean Chemical Engineering Research, 2013, 51, 766-773.	0.2	1
2868	Grapheneâ€™Two-Dimensional Crystal. Nanoscience and Technology, 2014, , 3-27.	1.5	0
2869	Epitaxial growth of graphene on silicon carbide (SiC). , 2014, , 177-198.		6
2870	Graphene (or Reduced Graphite Oxide Nanosheets). , 2014, , 954-963.		0
2871	Transferred Graphene. , 2014, , 1-10.		0
2872	MoirÃ© Patterns Observed in Bi Layer Graphene Irradiated with High Energetic Protons. Challenges and Advances in Computational Chemistry and Physics, 2014, , 271-279.	0.6	0
2873	Applications in Other Fields. , 2014, , 347-408.		0
2874	Nanotechnology: Novel Emerging Concepts. , 2015, , 245-265.		0
2875	Device Architecture and Biosensing Applications for Attractive One- and Two-Dimensional Nanostructures. , 2015, , 41-70.		1
2876	The Effect of Dangling Bonds on Electronic Structure for Graphene Nanoribbons. Applied Physics, 2015, 05, 53-60.	0.0	0
2877	Optimization Process of Hummers with Large Diameter Graphite. , 2015, , .		0
2878	Synthesis, Modification and Characterization of Nanocarbon Electrodes for Determination of Nucleic Acids. , 2015, , 1-35.		0
2880	Synthesis, Modification, and Characterization of Nanocarbon Electrodes for Determination of Nucleic Acids. , 2016, , 241-281.		0
2881	Synthesis and Characterization of CdSe/graphene Nanocomposites and their Catalytic Reusability Studies under Visible Light Radiation. Journal of the Korean Ceramic Society, 2015, 52, 502-507.	1.1	0
2882	Surface Electronic Structure. , 2016, , 3896-3907.		0
2885	Dielectric properties of graphene/poly(vinyl alcohol)/poly (vinylidene fluoride) nanocomposites films. Wuli Xuebao/Acta Physica Sinica, 2016, 65, 188101.	0.2	2

#	ARTICLE	IF	CITATIONS
2886	Synthesis of Graphene. , 2016, , 4027-4037.		1
2887	Progress in Surface Properties and the Surface Testing of Graphene. Journal of Advances in Physical Chemistry, 2016, 05, 48-57.	0.1	0
2889	Growth, study, and device application prospects of graphene on SiC substrates. Nanosystems: Physics, Chemistry, Mathematics, 2016, , 30-36.	0.2	3
2890	Graphene 2.0. Physics and High Technology, 2016, 25, 38-41.	0.1	0
2892	9 Preparation and Processing of Graphene and SWCNTs. , 2016, , 151-172.		0
2893	Tunneling Transport Between Transition Metal Dichalcogenides. Springer Theses, 2017, , 49-64.	0.0	0
2895	Addressing ai»¿ Single Molecular Spini»¿ with Graphene-Based Nanoarchitectures. Advances in Atom and Single Molecule Machines, 2017, , 165-184.	0.0	0
2896	Electronic Structure and Persistent Current in Graphene Rings. Applied Physics, 2017, 07, 71-76.	0.0	0
2897	Defect Characterization and Metrology. , 2017, , 631-678.		0
2899	The study of stoner ferromagnetic phase transition of a gapped armchair graphene nanoribbon. Journal of Physics and Chemistry of Solids, 2017, 111, 383-390.	1.9	1
2900	Synthesis and characterization of esmeraldine reinforced with graphene. Contemporary Engineering Sciences, 2018, 11, 4845-4855.	0.2	0
2901	Structure and band structure of epitaxial graphene on hexagonal silicon carbide. , 2018, , 689-715.		0
2902	Electronic transport properties of epigraphene. , 2018, , 716-722.		0
2903	Introduction to epigraphene and overview. , 2018, , 665-673.		1
2904	Transport properties of epigraphene in magnetic field. , 2018, , 723-729.		0
2905	Graphene Preparation Methods Traceability, Research Progress and Development Status. Material Sciences, 2018, 08, 202-221.	0.0	0
2906	Synthesis of Graphene Using Polystyrene and the Effect of Boron Oxide on the Synthesis of Graphene. Korean Journal of Materials Research, 2018, 28, 279-285.	0.1	0
2907	Characterization of a graphene-based terahertz hot-electron bolometer. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
2908	Graphene and Graphene Oxide as Nanofiller for Polymer Blends. Carbon Nanostructures, 2019, , 231-257.	0.1	1
2909	Clean transfer of chemical vapor deposition graphene film. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 096801.	0.2	4
2910	Croissance et caractérisation de graphène au Pôle CNFM de Lille. J3eA, 2019, 18, 1003.	0.0	0
2911	Production of Few-Layer Graphene in Synthetic Oil Using a Rod Drum Mill. Advanced Materials & Technologies, 2019, , 059-068.	0.2	0
2912	Structural and Physical Properties of Epitaxial Graphene. Nihon Kessho Gakkaishi, 2019, 61, 35-42.	0.0	0
2913	Graphene Growth with Solid Precursor-Polyethylene. Korean Journal of Materials Research, 2019, 29, 304-310.	0.1	0
2915	Nghiên cứu hiệu ứng hấp thụ ánh sáng của pha pha phân tán-không-truyền dẫn nano Penta-graphene đã ứng dụng trong các lĩnh vực. Tạp Chí Khoa Học = Journal of Science, 2020, 56(2), 21.	0.1	1
2917	One-Step Formation of Reduced Graphene Oxide from Insulating Polymers Induced by Laser Writing Method. Crystals, 2021, 11, 1308.	1.0	11
2918	Graphene and Its Composites. Engineering Materials, 2021, , 21-35.	0.3	1
2919	The effect of catalytic copper pretreatments on CVD graphene growth at different stages. Nanotechnology, 2021, 32, 095607.	1.3	1
2920	Temperature effect on the porosity of hydroxyapatite scaffolds and its use in tissue engineering. Revista De Ciencias Tecnológicas, 2020, 3, 213-221.	0.0	0
2921	A Sensitive Electrochemical Sensor Based on Graphene/Pt Nanoparticles for Simultaneous Determination of Tyrosine and Tryptophan in the Presence of 5-hydroxytryptophan. International Journal of Electrochemical Science, 0, , 12599-12609.	0.5	3
2922	Robust and Extraordinary Electron Transport in 2D Hexagonal Lattice Topological Insulator in the presence of random potential barrier. , 2020, , .		1
2924	Graphene. Springer Handbooks, 2020, , 1171-1198.	0.3	2
2925	Defect Dynamics in Graphene. International Journal of Applied Nanotechnology Research, 2020, 5, 26-34.	1.1	0
2927	Two-Dimensional Crystals: Graphene, Silicene, Germanene, and Stanene. Springer Handbooks, 2020, , 243-266.	0.3	0
2928	Ảnh hưởng của dinh dưỡng cá tra đến sự sinh sản của cá tra (Lacepede, 1802). Tạp Chí Khoa Học = Journal of Science, 2020, 56(Aquaculture), 224.	0.1	1
2929	Anisotropic Nanofillers in TPE. Engineering Materials, 2020, , 17-99.	0.3	0

#	ARTICLE	IF	CITATIONS
2930	A Short Review on Graphene Nanoribbon Interconnect. , 2020, , .		2
2931	Molten Ga-Pd alloy catalyzed interfacial growth of graphene on dielectric substrates. Applied Surface Science, 2022, 576, 151806.	3.1	2
2932	Multidimensional graphene nanostructures â€“ synthesis and applications. Pure and Applied Chemistry, 2020, 92, 1929-1936.	0.9	2
2933	Terahertz and Infrared Photodetection Using p-i-n Multiple-Graphene-Layer Structures *. , 2020, , 289-306.		0
2934	Negative Terahertz Dynamic Conductivity in Electrically Induced Lateral p-i-n Junction in Graphene *. , 2020, , 353-361.		0
2935	Device Model for Graphene Bilayer Field-Effect Transistor *. , 2020, , 17-40.		0
2938	Magnetic Anisotropy of Graphene-Coated Ultrathin Iron Layers on a Substrate of Hexagonal Boron Nitride Gr/Fe/h-BN. Physics of the Solid State, 2020, 62, 2203-2207.	0.2	0
2939	Size-dependent mechanical properties of twin graphene. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, 2021, 235, 4-11.	0.5	1
2940	Recent advances and challenges of metalâ€“organic framework/graphene-based composites. Composites Part B: Engineering, 2022, 230, 109532.	5.9	66
2941	ZIF-8 Coupling with Reduced Graphene Oxide to Enhance the Electrochemical Sensing of Dopamine. Journal of the Electrochemical Society, 2021, 168, 116517.	1.3	21
2942	Increasing the Rate of Magnesium Intercalation Underneath Epitaxial Graphene on 6Hâ€“SiC(0001). Advanced Materials Interfaces, 2021, 8, 2101598.	1.9	6
2943	Wettability of Penta-Graphene: A Molecular Dynamics Simulation Approach. Journal of Physical Chemistry C, 2022, 126, 1590-1599.	1.5	4
2944	Monolayer penta-BCN: A promising candidate for harmful gases detection. Sensors and Actuators A: Physical, 2022, 334, 113326.	2.0	13
2945	Graphene : An Out Standing Material. Journal of Solar Energy Research Updates, 0, 6, .	0.0	0
2946	Ultrafast carrier dynamics in graphene and graphene nanostructures. Terahertz Science & Technology, 2020, 13, 135-148.	0.5	1
2947	Facile and Continuous Synthesis of Graphene Nanoflakes in RF Thermal Plasma. SSRN Electronic Journal, 0, , .	0.4	0
2948	TÃnh chá»t Ä“iá»n tá» cá»sa dÃÿ nano penta-graphene biÃ“n rÃ“ng cÆ“a sai há»ng dá»ng khuyá»t. Tap Chi Khoa Hoc = Journal of Science, 2021, 57, 70-77.	0.1	0
2949	Periodic Nanoarray of Graphene pnâ€“junctions on Silicon Carbide Obtained by Hydrogen Intercalation. Advanced Functional Materials, 2022, 32, .	7.8	10

#	ARTICLE	IF	CITATIONS
2950	Review of Recent Advances in Graphene-Based Field-Effect-Transistor Biosensors: A Review on Biosensor Designing Strategy. Journal of the Electrochemical Society, 2022, 169, 027509.	1.3	9
2951	Six Decades of Research on 2D Materials: Progress, Dead Ends, and New Horizons. IEEE Journal of the Electron Devices Society, 2022, 10, 443-451.	1.2	4
2953	Recent advances on graphene-based materials as cathode materials in lithium-sulfur batteries. International Journal of Hydrogen Energy, 2022, 47, 8630-8657.	3.8	21
2954	Scanning probe analysis of twisted graphene grown on a graphene/silicon carbide template. Nanotechnology, 2022, 33, 155603.	1.3	4
2955	Fabrication of MnO ₂ Nanocomposite on GO Functionalized with Advanced Electrode Material for Supercapacitors. Journal of Nanomaterials, 2022, 2022, 1-7.	1.5	6
2956	Substitutional transition metal doping in MoSi ₂ N ₄ monolayer: structural, electronic and magnetic properties. Physical Chemistry Chemical Physics, 2022, 24, 3035-3042.	1.3	10
2957	Graphene-based semiconductor nanocrystals for optoelectronics devices. , 2022, , 383-406.		0
2958	Direct van der Waals epitaxy of multiband-emitting InGaN-based LEDs on graphene for phosphor-free white light illumination. Journal of Alloys and Compounds, 2022, 902, 163712.	2.8	4
2959	Mechanisms for Graphene Growth on SiO ₂ Using Plasma-Enhanced Chemical Vapor Deposition: A Density Functional Theory Study. ACS Applied Materials & Interfaces, 2022, 14, 9492-9503.	4.0	6
2960	Application of Graphene-Related Materials in Organic Solar Cells. Materials, 2022, 15, 1171.	1.3	18
2961	Enhanced absorption in black phosphorene on adsorption of Li and K for use in energy conversion applications. Optical and Quantum Electronics, 2022, 54, 1.	1.5	4
2962	The Synergistic Properties and Gas Sensing Performance of Functionalized Graphene-Based Sensors. Materials, 2022, 15, 1326.	1.3	13
2963	Graphene: A Multifunctional Nanomaterial with Versatile Applications. Advances in Materials Science and Engineering, 2021, 2021, 1-8.	1.0	17
2964	Realization of electronic grade graphene and h-BN. , 2022, , 119-157.		0
2965	Significantly Enhanced Thermoelectric Performance of Van Der Waals Interface Coupling Molecular Junction with Nitrogen-Doped Graphene Nanoribbon Electrodes. SSRN Electronic Journal, 0, , .	0.4	0
2966	Carbonaceous Nanomaterials for Electrochemical Biosensing. , 2022, , .		0
2967	Principles and Biomedical Application of Graphene Family Nanomaterials. Advances in Experimental Medicine and Biology, 2022, 1351, 3-22.	0.8	0
2968	Nanomaterials for sensors: Synthesis and applications. , 2022, , 121-168.		4

#	ARTICLE	IF	CITATIONS
2969	Fabrication of 3d Self-Supported Mos2-Co-P/Nickel Foam Electrode for Adsorption-Electrochemical Removal of Cr(â€¦). SSRN Electronic Journal, 0, , .	0.4	0
2970	Co/Mg Self-Propagating Combustion Synthesis of Few-Layer Graphene for Supercapacitors. SSRN Electronic Journal, 0, , .	0.4	0
2971	Revisit the Hydrated Cationâ€™s Interaction at the Interface: A New View of Dynamics and Statistics. Langmuir, 2022, 38, 2401-2408.	1.6	5
2972	Progress on Optical Fiber Biochemical Sensors Based on Graphene. Micromachines, 2022, 13, 348.	1.4	13
2973	Direct comparison of ohmic contact properties between graphene and metal source/drain electrodes. Journal of the Korean Physical Society, 0, , 1.	0.3	1
2974	Evaluation of synthesized polyaniline nanofibres as corrosion protection film coating on copper substrate by electrophoretic deposition. Journal of Materials Science, 2022, 57, 6085-6101.	1.7	51
2975	Highly anisotropic mechanical and optical properties of 2D NbOX2 (X=Cl, Br, I) revealed by first-principle. Nanotechnology, 2022, 33, 275701.	1.3	7
2976	Coexistence of Canted Antiferromagnetism and Bond Order in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle^{1/2} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 0 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ Graphene. Physical Review Letters, 2022, 128, 106803.	2.9	10
2977	Reactively sintered TiB2-based heteromodulus UHT ceramics with in-situ formed graphene for machinable concentrated solar light absorbers. Ceramics International, 2022, 48, 17828-17836.	2.3	9
2978	Graphene Oxide-Based Multi-Component Antimicrobial Hydrogels. Bulletin of the Chemical Society of Japan, 2022, 95, 713-720.	2.0	3
2979	Review of graphene for the generation, manipulation, and detection of electromagnetic fields from microwave to terahertz. 2D Materials, 2022, 9, 022002.	2.0	10
2980	Preparation of graphene by supercritical CO2 circulating exfoliation with a jet cavitation. Journal of Supercritical Fluids, 2022, 186, 105605.	1.6	4
2981	Spintronic phase transition of graphene/BN/graphene van de Waals heterostructures. Results in Physics, 2022, 35, 105344.	2.0	4
2982	The significance of graphene based composite hydrogels as smart materials: A review on the fabrication, properties, and its applications. FlatChem, 2022, 33, 100352.	2.8	30
2983	Recent advances in superhydrophobic polyurethane: Preparations and applications. Advances in Colloid and Interface Science, 2022, 303, 102644.	7.0	51
2984	Facile and continuous synthesis of graphene nanoflakes in RF thermal plasma. Carbon, 2022, 193, 51-67.	5.4	11
2985	Self-propagating combustion synthesis of few-layer graphene for supercapacitors from CO and Mg. Journal of Alloys and Compounds, 2022, 908, 164652.	2.8	4
2986	Electronic transport properties and quantum localization effects monitored by selective functionalization in Bernal bilayer graphene. Physical Review B, 2021, 104, .	1.1	1

#	ARTICLE	IF	CITATIONS
2987	Observation of high-order moiré effect and multiple Dirac fermions replicas in graphene-SiC heterostructures. Physical Review B, 2021, 104, .	1.1	5
2988	Structural Investigation of the Synthesized Few-Layer Graphene from Coal under Microwave. Nanomaterials, 2022, 12, 57.	1.9	8
2989	Electronic and optical properties of TMDs/Hg _{0.33} Cd _{0.66} Te. Journal of Materials Science: Materials in Electronics, 2022, 33, 11542.	1.1	0
2990	Fabrication of reduced graphene oxide with high electrical conductivity by thermal-assisted photoreduction of electrochemically-exfoliated graphene oxide. Japanese Journal of Applied Physics, 2022, 61, SL1012.	0.8	1
2991	Effect of vacancy defect and dopants on the sensitivity of germanene to H ₂ CO. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 142, 115268.	1.3	11
2992	Ultrafast Transient Absorption Spectroscopy of Inkjet-Printed Graphene and Aerosol Gel Graphene Films: Effect of Oxygen and Morphology on Carrier Relaxation Dynamics. Journal of Physical Chemistry C, 2022, 126, 7949-7955.	1.5	1
2993	Anomalies at the Dirac Point in Graphene and Its Hole-Doped Compositions. Physical Review Letters, 2022, 128, 166401.	2.9	3
2998	Advanced sensors based on carbon nanomaterials. , 2022, , 259-268.		5
2999	Graphene Technology and integration with semiconductor electronics. Theoretical and Computational Chemistry, 2022, , 1-40.	0.2	1
3000	Room-Temperature Infrared Photodetectors with Zero-Dimensional and New Two-Dimensional Materials. Coatings, 2022, 12, 609.	1.2	4
3001	Mechanical, optical, and thermoelectric properties of semiconducting $ZnIn_2$		

#	ARTICLE	IF	CITATIONS
3009	Laminar Flow-Assisted Metal Etching for the Preparation of High-Quality Transfer-Free Graphene. <i>Chemistry of Materials</i> , 2022, 34, 5471-5483.	3.2	0
3010	Superconducting Proximity Effect in d -Wave Cuprate/Graphene Heterostructures. <i>Annalen Der Physik</i> , 2022, 534, .	0.9	8
3011	A review on graphene and its derivatives as the forerunner of the two-dimensional material family for the future. <i>Journal of Materials Science</i> , 2022, 57, 12236-12278.	1.7	22
3012	Band gap formation of 2D material in graphene: Future prospect and challenges. <i>Results in Engineering</i> , 2022, 15, 100474.	2.2	20
3013	Preparation of Highly Stable and Electrochemically Active Three-dimensional Interconnected Graphene Frameworks from Jute Sticks. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	1.7	16
3014	Surface charge-transfer doping a quantum-confined silver monolayer beneath epitaxial graphene. <i>Physical Review B</i> , 2022, 105, .	1.1	6
3015	Recent advances on graphene: Synthesis, properties and applications. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 160, 107051.	3.8	90
3016	Dirac Cones in Graphene Grown on a Half-Filled 4d-Band Transition Metal. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
3017	High-Quality Monocrystal Graphene for Sound Pressure Sensing. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
3018	Dirac Cones in Graphene Grown on a Half-Filled 4d-Band Transition Metal. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
3019	Graphene on SiC. , 2022, , 65-97.		2
3020	Experimental Investigation into a New Method of scalable production of Reduced Graphene Oxide for potential industrial graphene nanocomposite manufacture. <i>Journal of Physics: Conference Series</i> , 2022, 2198, 012054.	0.3	0
3021	Momentum microscopy of Pb-intercalated graphene on SiC: Charge neutrality and electronic structure of interfacial Pb. <i>Physical Review Research</i> , 2022, 4, .	1.3	10
3022	Microscopic mechanism of hydrogen intercalation: On the conversion of the buffer layer on SiC to graphene. <i>Physical Review B</i> , 2022, 105, .	1.1	6
3023	Two-dimensional diamonds from sp^2 -to- sp^3 phase transitions. <i>Nature Reviews Materials</i> , 2022, 7, 814-832.	23.3	28
3024	First-principles predictions of tunable half metallicity in zigzag GaN nanoribbons with possible applications in CO detection and spintronics. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 405002.	1.3	4
3025	Effect of Germanium Surface Orientation on Graphene Chemical Vapor Deposition and Graphene-Induced Germanium Nanofaceting. <i>Chemistry of Materials</i> , 2022, 34, 6769-6778.	3.2	4
3026	Electronic, transport, magnetic, and optical properties of graphene nanoribbons and their optical sensing applications: A comprehensive review. <i>Luminescence</i> , 2023, 38, 909-953.	1.5	9

#	ARTICLE	IF	CITATIONS
3027	A review on the alternative of indium tin oxide coated glass substrate in flexible and bendable organic optoelectronic device. <i>Polymers for Advanced Technologies</i> , 2022, 33, 3078-3111.	1.6	14
3028	Beyond CMOS. , 2021, , .		2
3029	Molecular dynamics simulation of mechanical properties of graphene reinforced natural rubber composites. <i>IOP Conference Series: Materials Science and Engineering</i> , 2022, 1248, 012058.	0.3	0
3030	Sustainable remediation of toxic industrial pollutant via NiO/ZrO ₂ /Mn ₃ O ₄ biomimetic nano-photocatalysts. <i>International Journal of Environmental Science and Technology</i> , 0, , .	1.8	1
3031	Recent Progress on Graphene-Based Nanocomposites for Electrochemical Sodium-Ion Storage. <i>Nanomaterials</i> , 2022, 12, 2837.	1.9	4
3032	Basic aspects of gold nanoparticle photo-functionalization using oxides and 2D materials: control of light confinement, heat-generation, and charge separation in nanospace. <i>Journal of Chemical Physics</i> , 0, , .	1.2	1
3033	A review of top-down and bottom-up synthesis methods for the production of graphene, graphene oxide and reduced graphene oxide. <i>Journal of Materials Science</i> , 2022, 57, 14543-14578.	1.7	35
3034	Octadecylamine and serine-derived carbon dots-modified silica gel for reversed phase/hydrophilic interaction liquid chromatography. <i>Microchemical Journal</i> , 2022, 183, 107987.	2.3	7
3035	Synthesis and applications of graphene and graphene-based nanocomposites: Conventional to artificial intelligence approaches. <i>Frontiers in Environmental Chemistry</i> , 0, 3, .	0.7	8
3036	Graphene Film Growth on Silicon Carbide by Hot Filament Chemical Vapor Deposition. <i>Nanomaterials</i> , 2022, 12, 3033.	1.9	3
3037	Graphene-based terahertz optoelectronics. <i>Optics and Laser Technology</i> , 2023, 157, 108558.	2.2	11
3038	Recent Advances in Modeling and Experimental Prediction of Properties of Graphene Reinforced Natural Rubber Composites: A Review (Part 1). <i>Nanoscience and Technology</i> , 2022, , .	0.6	0
3039	Use of Nano composites in industries. <i>Brilliance</i> , 2022, 2, 125-133.	0.3	0
3040	Improving the Sensing Properties of Graphene MEMS Pressure Sensor by Low-Temperature Annealing in Atmosphere. <i>Sensors</i> , 2022, 22, 8082.	2.1	2
3041	The rise of boron nitride nanotubes for applications in energy harvesting, nanoelectronics, quantum materials, and biomedicine. <i>Journal of Materials Research</i> , 2022, 37, 4605-4619.	1.2	5
3042	Effects of anisotropy on magnetic and thermodynamic properties of a graphene cluster monolayer. <i>Phase Transitions</i> , 2022, 95, 823-836.	0.6	12
3043	Atomistic Simulations of Defects Production under Ion Irradiation in Epitaxial Graphene on SiC. <i>Physica Status Solidi - Rapid Research Letters</i> , 2023, 17, .	1.2	1
3044	Vertical structure of Sb-intercalated quasifreestanding graphene on SiC(0001). <i>Physical Review B</i> , 2022, 106, .	1.1	3

#	ARTICLE	IF	CITATIONS
3045	Application of Grazing-Incidence X-ray Methods to Study Terrace-Stepped SiC Surface for Graphene Growth. <i>Materials</i> , 2022, 15, 7669.	1.3	0
3046	An overview on room-temperature chemiresistor gas sensors based on 2D materials: Research status and challenge. <i>Composites Part B: Engineering</i> , 2023, 248, 110378.	5.9	21
3047	Study on compensation behaviors and hysteresis characteristics of a graphene-like trilayer with sandwich structure. , 2022, 171, 207429.		13
3048	Electronic properties and magnetism of CrCl ₃ nanoribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 564, 170105.	1.0	4
3049	Epitaxial growth of elemental 2D materials. , 2022, , .		0
3050	High-performance thermoelectric monolayer $\hat{3}$ -GeSe and its group-IV monochalcogenide isostructural family. <i>Chemical Engineering Journal</i> , 2023, 454, 140242.	6.6	16
3051	Ultrahigh strength and negative thermal expansion and low thermal conductivity in graphyne nanosheets confirmed by machine-learning interatomic potentials. <i>FlatChem</i> , 2022, 36, 100446.	2.8	11
3052	A DFT Based Approach to Sense the SF ₆ Decomposed Gases Using Ni-doped WS ₂ Monolayer. <i>IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)</i> , 2023, 40, 621-631.	2.1	2
3053	Preparation, properties and applications of two-dimensional superlattices. <i>Materials Horizons</i> , 2023, 10, 722-744.	6.4	4
3054	Preparation and characterization of steel slag-based low, medium, and high-temperature composite phase change energy storage materials. <i>Journal of Energy Storage</i> , 2023, 57, 106309.	3.9	7
3055	Electrochemical sensor based on laser-induced preparation of MnOx/rGO composites for simultaneous recognition of hydroquinone and catechol. <i>Microchemical Journal</i> , 2023, 185, 108234.	2.3	14
3056	Innovations in the synthesis of graphene nanostructures for bio and gas sensors. , 2023, 145, 213234.		9
3057	Thermal stability of thin hexagonal boron nitride grown by MOVPE on epigraphene. <i>Journal of Crystal Growth</i> , 2023, 603, 127030.	0.7	1
3058	Towards Molecular Electronics. , 2022, , 261-275.		0
3059	Finite element modeling on micro-machining of graphene-reinforced aluminum matrix composites. <i>International Journal of Advanced Manufacturing Technology</i> , 0, , .	1.5	0
3060	Quantum Hall phase in graphene engineered by interfacial charge coupling. <i>Nature Nanotechnology</i> , 2022, 17, 1272-1279.	15.6	17
3061	Breaking of Inversion Symmetry and Interlayer Electronic Coupling in Bilayer Graphene Heterostructure by Structural Implementation of High Electric Displacement Fields. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 11571-11580.	2.1	5
3062	An epitaxial graphene platform for zero-energy edge state nanoelectronics. <i>Nature Communications</i> , 2022, 13, .	5.8	5

#	ARTICLE	IF	CITATIONS
3063	Topological and Spectral Properties of Wavy Zigzag Nanoribbons. <i>Molecules</i> , 2023, 28, 152.	1.7	5
3064	Graphene FETs with high and low mobilities have universal temperature-dependent properties. <i>Nanotechnology</i> , 2023, 34, 125702.	1.3	4
3065	High quality epitaxial graphene on 4H-SiC by face-to-face growth in ultra-high vacuum. <i>Nanotechnology</i> , 2023, 34, 105601.	1.3	3
3066	Approaches, attributes and applications of matrix nanocomposites – a review. <i>Cogent Engineering</i> , 2022, 9, .	1.1	2
3067	The Synthesis of Carbon Nanoparticles in a Compression Reactor in the Atmosphere of Buffer Gases. <i>Siberian Journal of Physics</i> , 2022, 17, 29-46.	0.1	0
3068	Effect of magnetic and electric field interaction on non-classical properties of graphene coherent states. <i>European Physical Journal Plus</i> , 2022, 137, .	1.2	0
3069	Dirac cones in graphene grown on a half-filled 4d-band transition metal. <i>Carbon</i> , 2023, 205, 294-301.	5.4	7
3070	A review of the synthesis, properties, and applications of 2D transition metal dichalcogenides and their heterostructures. <i>Materials Chemistry and Physics</i> , 2023, 297, 127332.	2.0	29
3072	High-performance hybrid graphene-perovskite photodetector based on organic nano carbon source-induced graphene interdigital electrode film on quartz substrate. <i>Carbon</i> , 2023, 204, 547-554.	5.4	4
3073	Graphene-Fundamentals. , 2023, , 1-30.		0
3074	Graphene-Based Drug Delivery System. , 2023, , 189-210.		0
3075	Properties and applications of shape-stabilized phase change energy storage materials based on porous material support – A review. <i>Materials Today Sustainability</i> , 2023, 21, 100336.	1.9	12
3076	Preparation and multilayer transfer of high-quality monocrystalline graphene grown on centimeter-Cu (111) substrate. <i>Vacuum</i> , 2023, 210, 111855.	1.6	1
3077	Core-level photoelectron spectroscopy study on the buffer-layer formed in approximately atmospheric pressure argon on n-type and semi-insulating SiC(0001). <i>Surface Science</i> , 2023, 733, 122292.	0.8	0
3078	Many-body spectral statistics of relativistic quantum billiard systems. <i>Physical Review Research</i> , 2023, 5, .	1.3	0
3079	Electrochemical production of two-dimensional atomic layer materials and their application for energy storage devices. <i>Chemical Physics Reviews</i> , 2023, 4, .	2.6	0
3080	A review of low-cost approaches to synthesize graphene and its functional composites. <i>Journal of Materials Science</i> , 2023, 58, 4359-4383.	1.7	5
3081	Efficient strategies to produce Graphene and functionalized graphene materials: A review. <i>Applied Surface Science Advances</i> , 2023, 14, 100386.	2.9	11

#	ARTICLE	IF	CITATIONS
3082	Water absorption behavior of functionalized graphene reinforced PVA based composite crosslinked using citric acid. <i>Materials Today: Proceedings</i> , 2023, , .	0.9	0
3083	The Efficiency Study of Graphene Synthesis on Copper Substrate via Chemical Vapor Deposition Method with Methanol Precursor. <i>Nanomaterials</i> , 2023, 13, 1136.	1.9	2
3084	Role of temperature and Ar flow on the uniformity of epitaxial graphene grown on SiC. <i>Bulletin of Materials Science</i> , 2023, 46, .	0.8	1
3085	Global phase diagram of charge-neutral graphene in the quantum Hall regime for generic interactions. <i>Physical Review B</i> , 2023, 107, .	1.1	4
3086	Strain effects on the electronic and magnetic properties of Cr ₂ TaC ₂ and Cr ₂ TaC ₂ O ₂ monolayers. <i>Applied Physics Letters</i> , 2023, 122, .	1.5	5
3087	Two-dimensional silicon nanomaterials for optoelectronics. <i>Journal of Semiconductors</i> , 2023, 44, 041101.	2.0	1
3088	Joint Intercalation of Ultrathin Fe and Co Films under a Graphene Buffer Layer on a SiC(0001) Single Crystal. <i>JETP Letters</i> , 2023, 117, 363-369.	0.4	0
3090	Transmission in Graphene through Tilted Barrier in Laser Field. <i>Annalen Der Physik</i> , 2023, 535, .	0.9	2
3091	Synthesis and Applications of Graphene and Its Nanocomposites. <i>Composites Science and Technology</i> , 2023, , 39-87.	0.4	0
3095	Polymer/graphene-derived nanocomposites as advanced marine antifouling coatings. , 2023, , 193-230.		2
3098	Spin-diversified quasiparticle behaviors in rare-rare-earth La- and Eu-adsorbed germanene materials. , 2023, , 263-280.		0
3099	Ab Initio Study of the Electronic and Energy Properties of Diamond Carbon. , 0, , .		1
3108	Coating of Graphene on ITO Via Cyclic Voltammetry. <i>Lecture Notes in Networks and Systems</i> , 2023, , 415-421.	0.5	0
3110	Adsorptive Removal of Pollutants Using Graphene-based Materials for Water Purification. <i>Springer Series in Materials Science</i> , 2023, , 179-244.	0.4	2
3118	Detection of Dissolved Gas in Transformer Oil Using Pt-Doped WTe ₂ Based Sensor: A First Principles Study. , 2023, , .		0
3129	Engineered Two-Dimensional Materials-Based Smart Biosensors for Point-of-Care Diagnosis. , 2023, , 499-517.		0
3135	Probing charge traps at the 2D semiconductor/dielectric interface. <i>Nanoscale</i> , 2023, 15, 16818-16835.	2.8	1
3141	Nanocarbons: Diamond, Fullerene, Nanotube, Graphite, and Graphene Aerogels. <i>Springer Handbooks</i> , 2023, , 941-970.	0.3	1

#	ARTICLE	IF	CITATIONS
3142	Continuum Mechanics Applied for Studying Instabilities in Nanoparticles. Advanced Structured Materials, 2023, , 429-456.	0.3	0
3151	Comparative characterization of structural alignment within turbostratic CVD graphene by means of Raman scattering and allometric scaling. Indian Journal of Physics, 0, , .	0.9	0
3159	Devices and circuits for HF applications based on 2D materials. , 2023, , .		0