## Electronic spin transport and spin precession in single g temperature

Nature 448, 571-574 DOI: 10.1038/nature06037

Citation Report

#	Article	IF	CITATIONS
3	Link to hereditary melanoma brightens mood for p16 gene. Science, 1994, 265, 1364-1365.	6.0	4
4	Magnetoresistance of graphene-based spin valves. Physical Review B, 2007, 76, .	1.1	49
5	Detection of a Spin Accumulation in Nondegenerate Semiconductors. Physical Review Letters, 2007, 99, 246604.	2.9	37
6	Formation of graphene on Ru(0001) surface. Chinese Physics B, 2007, 16, 3151-3153.	1.3	135
7	Preparation of Lateral Organic Spin-valve Devices with La0.7Sr0.3MnO3. Materials Research Society Symposia Proceedings, 2007, 1033, 1.	0.1	0
8	Gate-tunable graphene spin valve. Applied Physics Letters, 2007, 91, .	1.5	259
9	Injecting and controlling spins in organic materials. Journal of Materials Chemistry, 2007, 17, 4455.	6.7	79
10	Graphene Physics in Graphite. Advanced Materials, 2007, 19, 4559-4563.	11.1	176
11	Spintronics goes plastic. Nature Materials, 2007, 6, 803-804.	13.3	101
12	Carbon-based electronics. Nature Nanotechnology, 2007, 2, 605-615.	15.6	2,272
13	Combined absorption of light in the process of photoactivation of biosystems. Journal of Russian Laser Research, 2008, 29, 558-563.	0.3	3
14	Bandâ€like Transport in Surfaceâ€Functionalized Highly Solutionâ€Processable Graphene Nanosheets. Advanced Materials, 2008, 20, 3440-3446.	11.1	299
15	Deoxygenation of Exfoliated Graphite Oxide under Alkaline Conditions: A Green Route to Graphene Preparation. Advanced Materials, 2008, 20, 4490-4493.	11.1	1,629
16	Quantum modulation effect in a graphene-based magnetic tunnel junction. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 5054-5058.	0.9	20
17	Evidence of photoinduced charge transfer in C60/GaAs(100) bilayers by pump–probe measurements. Chemical Physics Letters, 2008, 466, 65-67.	1.2	7
18	Interface effects in spin-polarized metal/insulator layered structures. Surface Science Reports, 2008, 63, 400-425.	3.8	113
19	Spin transport in magnetic graphene superlattices. European Physical Journal B, 2008, 66, 245-250.	0.6	50
20	Tunable Graphene Single Electron Transistor. Nano Letters, 2008, 8, 2378-2383.	4.5	352

ATION REDO

ARTICLE IF CITATIONS # Magnetic Correlations at Graphene Edges: Basis for Novel Spintronics Devices. Physical Review 21 2.9 646 Letters, 2008, 100, 047209. Large Reversible Li Storage of Graphene Nanosheet Families for Use in Rechargeable Lithium Ion 4.5 2,694 Batteries. Nano Letters, 2008, 8, 2277-2282. 23 Coupling of spin and orbital motion of electrons in carbon nanotubes. Nature, 2008, 452, 448-452. 13.7 507 Spin surprise in carbon. Nature, 2008, 452, 419-420. 24 Spin Rabi flopping in the photocurrent of a polymer light-emitting diode. Nature Materials, 2008, 7, 25 13.3 140 723-728. 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 27 Long-range Josephson coupling through ferromagnetic graphene. Physical Review B, 2008, 78, . 1.1 34 Specular Andreev reflection and magnetoresistance in graphene-based ferromagnet-superconductor 28 1.5 double junctions. Applied Physics Letters, 2008, 92, 102513. Electronic and Magnetic Properties of Quasifreestanding Graphene on Ni. Physical Review Letters, 29 2.9 596 2008, 101, 157601. Shot Noise in Ballistic Graphene. Physical Review Letters, 2008, 100, 196802. 214 Transparent and conducting electrodes for organic electronics from reduced graphene oxide. 31 1.5 368 Applied Physics Letters, 2008, 92, . Theoretical prediction of perfect spin filtering at interfaces between close-packed surfaces of Ni or 1.1 186 Co and graphite or graphene. Physical Review B, 2008, 78, . Fundamentals of Spintronics in Metal and Semiconductor Systems. Nanostructure Science and 33 0.1 1 Technology, 2008, , 59-114. Spin Current in Metals and Superconductors. Journal of the Physical Society of Japan, 2008, 77, 031009. 145 Field emission from graphene based composite thin films. Applied Physics Letters, 2008, 93, . 35 1.5 258 Structure of chemically derived mono- and few-atomic-layer boron nitride sheets. Applied Physics 481 Letters, 2008, 93, . Self-Assembled Metal Atom Chains on Graphene Nanoribbons. Physical Review Letters, 2008, 101, 266105. 37 2.9 78 Half-Metallic Zigzag Carbon Nanotube Dots. ACS Nano, 2008, 2, 2243-2249.

		CITATION R	EPORT	
#	Article		IF	CITATIONS
39	Quantum and transport conductivities in monolayer graphene. Physical Review B, 2008,	77,.	1.1	32
40	Specular Andreev reflection and magnetoresistance in graphene-based ferromagnet–s hybrid systems. Journal of Physics Condensed Matter, 2008, 20, 335202.	uperconductor	0.7	9
41	Electric Property Evolution of Structurally Defected Multilayer Graphene. Nano Letters, 2 3092-3096.	008, 8,	4.5	178
42	Spin current, spin accumulation and spin Hall effect. Science and Technology of Advance 2008, 9, 014105.	d Materials,	2.8	147
43	Spin Accumulation and Spin Relaxation in a Large Open Quantum Dot. Physical Review L 101, 056602.	etters, 2008,	2.9	23
44	Energy gaps, magnetism, and electric-field effects in bilayer graphene nanoribbons. Phys 2008, 78, .	ical Review B,	1.1	143
45	Bottom-up Growth of Epitaxial Graphene on 6H-SiC(0001). ACS Nano, 2008, 2, 2513-25	18.	7.3	232
46	Prediction of very large values of magnetoresistance in a graphene nanoribbon device. N Nanotechnology, 2008, 3, 408-412.	ature	15.6	747
47	Spin transport in proximity-induced ferromagnetic graphene. Physical Review B, 2008, 7	7,.	1.1	449
48	Hyperfine Interactions in Graphene and Related Carbon Nanostructures. Nano Letters, 20 1011-1015.	008, 8,	4.5	99
49	Gate control of spin transport in multilayer graphene. Applied Physics Letters, 2008, 92,	212110.	1.5	72
50	Electron beam nanosculpting of suspended graphene sheets. Applied Physics Letters, 20	08, 93, .	1.5	526
51	Asymmetric Spin Gap Opening of Graphene on Cubic Boron Nitride (111) Substrate. Jour Chemistry C, 2008, 112, 12683-12686.	nal of Physical	1.5	23
52	Band-Gap Tuning in Magnetic Graphene Nanoribbons. Applied Physics Express, 0, 1, 064	004.	1.1	19
53	Electronic Spin Drift in Graphene Field-Effect Transistors. Physical Review Letters, 2008,	100, 236603.	2.9	150
54	Fabrication of graphene p-n-p junctions with contactless top gates. Applied Physics Lette	ers, 2008, 92, .	1.5	122
55	Single Molecule Electronics: Increasing Dynamic Range and Switching Speed Using Cross Species. Journal of the American Chemical Society, 2008, 130, 17309-17319.	s-Conjugated	6.6	136
56	Magnetotransport Properties of Fe/Pentacene/Co:TiO2Junctions with Fe Top Contact Ele Prepared by Thermal Evaporation and Pulsed Laser Deposition. Japanese Journal of Applie 2008, 47, 1184-1187.	ctrodes ed Physics,	0.8	17

	Сітатіс	n Report	
#	Article	IF	CITATIONS
57	Graphene in Multilayered CPP Spin Valves. IEEE Transactions on Magnetics, 2008, 44, 2624-2627.	1.2	65
58	Zone-Boundary Phonon in Graphene and Nanotube. Journal of the Physical Society of Japan, 2008, 77, 044703.	0.7	57
59	Coulomb oscillations in three-layer graphene nanostructures. New Journal of Physics, 2008, 10, 125029.	1.2	23
60	Spin Injection and Relaxation in a Mesoscopic Superconductor. Physical Review Letters, 2008, 100, 136601.	2.9	70
61	Electron transport in a ferromagnet-superconductor junction on graphene. Physical Review B, 2008, 78, .	1.1	57
62	Anisotropic Spin Relaxation in Graphene. Physical Review Letters, 2008, 101, 046601.	2.9	193
63	Controllable spin transport in ferromagnetic graphene junctions. Physical Review B, 2008, 77, .	1.1	138
64	Theory of electrical spin-detection at a ferromagnet/semiconductor interface. Physical Review B, 2008, 78, .	1.1	14
65	Signature of chirality in scanning-probe imaging of charge flow in graphene. Physical Review B, 2008, 77, .	1.1	14
66	Growth of atomically smooth MgO films on graphene by molecular beam epitaxy. Applied Physics Letters, 2008, 93, .	1.5	43
67	Transfer characteristics in graphene field-effect transistors with Co contacts. Applied Physics Letters, 2008, 93, 152104.	1.5	47
68	Planar-type spin valves based on low-molecular-weight organic materials with La0.67Sr0.33MnO3 electrodes. Applied Physics Letters, 2008, 92, 153304.	1.5	45
69	Magnetoresistance in bilayer graphene via ferromagnet proximity effects. Physical Review B, 2008, 77, .	1.1	25
70	Spin precession in lateral all-metal spin valves: Experimental observation and theoretical description. Physical Review B, 2008, 77, .	1.1	26
71	Large oscillating nonlocal voltage in multiterminal single-wall carbon nanotube devices. Physical Review B, 2008, 77, .	1.1	13
72	Oblique Hanle effect in semiconductor spin transport devices. Applied Physics Letters, 2008, 92, .	1.5	27
73	Spin Currents in Rough Graphene Nanoribbons: Universal Fluctuations and Spin Injection. Physical Review Letters, 2008, 100, 177207.	2.9	288
74	Supercurrent Switch in Graphene <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"&gt;<mml:mi>i€</mml:mi></mml:math> Junctions. Physical Review Letters, 2008, 100, 187004	. 2.9	78

#	Article	IF	CITATIONS
75	Andreev-Klein reflection in graphene ferromagnet-superconductor junctions. Physical Review B, 2008, 78, .	1.1	65
76	Spin Injection into Graphene at Room Temperature. Hyomen Kagaku, 2008, 29, 310-314.	0.0	3
77	Spin-Injection Phenomena and Applications. , 2009, , 93-153.		11
78	Wave-vector-dependent spin filtering and spin transport through magnetic barriers in graphene. Physical Review B, 2009, 80, .	1.1	65
79	Spin-polarized transport through a domain wall in magnetized graphene. Physical Review B, 2009, 80, .	1.1	15
80	Linear scaling between momentum and spin scattering in graphene. Physical Review B, 2009, 80, .	1.1	126
81	Bias-controlled sensitivity of ferromagnet/semiconductor electrical spin detectors. Physical Review B, 2009, 80, .	1.1	47
82	Power dependence of pure spin current injection by quantum interference. Physical Review B, 2009, 79,	1.1	6
83	Graphene grown on Co(0001) films and islands: Electronic structure and its precise magnetization dependence. Physical Review B, 2009, 80, .	1.1	142
84	Edge states interferometry and spin rotations in zigzag graphene nanoribbons. Physical Review B, 2009, 80, .	1.1	34
85	Ambipolar spin diffusion and D'yakonov-Perel' spin relaxation in GaAs quantum wells. Physical Review B, 2009, 79, .	1.1	42
86	Switching of electrical current by spin precession in the first Landau level of an inverted-gap semiconductor. Physical Review B, 2009, 80, .	1.1	16
87	Contributions to Hanle lineshapes in Fe/GaAs nonlocal spin valve transport. Applied Physics Letters, 2009, 94, 102511.	1.5	24
88	Gate-controlled nonvolatile graphene-ferroelectric memory. Applied Physics Letters, 2009, 94, .	1.5	234
89	Destruction of graphene by metal adatoms. Applied Physics Letters, 2009, 95, .	1.5	101
90	Multiterminal spin-dependent transport in ballistic carbon nanotubes. Physical Review B, 2009, 79, .	1.1	4
91	Thermospin effects in a quantum dot connected to ferromagnetic leads. Physical Review B, 2009, 79, .	1.1	164
92	Magnetotransport through graphene spin valves. Physical Review B, 2009, 79, .	1.1	26

	Сітаті	on Report	
#	Article	IF	CITATIONS
93	Hartman effect and spin precession in graphene. Physical Review B, 2009, 80, .	1.1	22
94	Controlling the efficiency of spin injection into graphene by carrier drift. Physical Review B, 2009, 79, .	1.1	77
95	Signatures of dynamically polarized nuclear spins in all-electrical lateral spin transport devices. Physical Review B, 2009, 80, .	1.1	39
96	Electric-field control of magnetic states, charge transfer, and patterning of adatoms on graphene: First-principles density functional theory calculations. Physical Review B, 2009, 80, .	1.1	25
97	Power-law singularity in the local density of states due to the point defect in graphene. Physical Review B, 2009, 80, .	1.1	14
98	Modeling spin transport with current-sensing spin detectors. Applied Physics Letters, 2009, 95, 152501.	1.5	6
99	X-ray magnetic circular dichroism studies of Fe doped fullerene and highly oriented pyrolytic graphite. Applied Physics Letters, 2009, 95, 182511.	1.5	2
100	Electrical Spin Injection into Silicon Using MgO Tunnel Barrier. Applied Physics Express, 0, 2, 053003.	1.1	74
101	Nanoelectromechanical device fabrications by 3-D nanotechnology using focused-ion beams. Science and Technology of Advanced Materials, 2009, 10, 034501.	2.8	18
102	Nanostructuring of epitaxial graphene layers on SiC by means of field-induced atomic force microscopy modification. Journal of Vacuum Science & Technology B, 2009, 27, 3149-3152.	1.3	15
103	TRANSVERSE SPIN TRANSPORT IN GRAPHENE. International Journal of Modern Physics B, 2009, 23, 2641-2646.	1.0	5
104	Electrical detection of spin precession in single layer graphene spin valves with transparent contacts. Applied Physics Letters, 2009, 94, .	1.5	141
105	Analysis of Degradation in Graphene-Based Spin Valves. Applied Physics Express, 2009, 2, 123004.	1.1	9
106	Reactivity of periodically rippled graphene grown on Ru(0001). Journal of Physics Condensed Matter, 2009, 21, 134002.	0.7	37
107	Electronic properties of graphene and graphene nanoribbons with â€~pseudo-Rashba' spin-orbit coupling. New Journal of Physics, 2009, 11, 115003.	1.2	56
108	Design of Carborane Molecular Architectures via Electronic Structure Computations. International Journal of Photoenergy, 2009, 2009, 1-9.	1.4	13
109	The structural and electrical evolution of graphene by oxygen plasma-induced disorder. Nanotechnology, 2009, 20, 375703.	1.3	96
110	Spin transport in graphite and graphene spin valves. Proceedings of SPIE, 2009, , .	0.8	8

#	Article	IF	CITATIONS
111	The effect of spin mixing on the quantum Hall effect in graphene. Journal of Physics Condensed Matter, 2009, 21, 405501.	0.7	0
112	Charge and spin Hall effect in graphene with magnetic impurities. Europhysics Letters, 2009, 88, 58001.	0.7	9
113	Information Processing With Pure Spin Currents in Silicon: Spin Injection, Extraction, Manipulation, and Detection. IEEE Transactions on Electron Devices, 2009, 56, 2343-2347.	1.6	34
114	Highâ€Performance Photoresponsive Organic Nanotransistors with Single‣ayer Graphenes as Twoâ€Dimensional Electrodes. Advanced Functional Materials, 2009, 19, 2743-2748.	7.8	115
115	Multilayer Hybrid Films Consisting of Alternating Graphene and Titania Nanosheets with Ultrafast Electron Transfer and Photoconversion Properties. Advanced Functional Materials, 2009, 19, 3638-3643.	7.8	294
116	Robustness of Spin Polarization in Grapheneâ€Based Spin Valves. Advanced Functional Materials, 2009, 19, 3711-3716.	7.8	70
117	Highly Ordered, Millimeterâ€Scale, Continuous, Singleâ€Crystalline Graphene Monolayer Formed on Ru (0001). Advanced Materials, 2009, 21, 2777-2780.	11.1	389
118	Tunneling conductance in a gapped graphene-based superconducting structure: Case of massive Dirac electrons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 3477-3482.	0.9	17
119	Spin-dependent transport in nanocomposite C:co films. Acta Materialia, 2009, 57, 4758-4764.	3.8	9
120	Computational study of carbon-based electronics. Journal of Computational Electronics, 2009, 8, 427-440.	1.3	13
121	A Study on Field Emission Characteristics of Planar Graphene Layers Obtained from a Highly Oriented Pyrolyzed Graphite Block. Nanoscale Research Letters, 2009, 4, 1218-1221.	3.1	55
122	Towards electron spin resonance of mechanically exfoliated graphene. Physica Status Solidi (B): Basic Research, 2009, 246, 2558-2561.	0.7	57
123	A spin of their own. Nature Materials, 2009, 8, 693-695.	13.3	147
124	Trilayer graphene is a semimetal with a gate-tunable band overlap. Nature Nanotechnology, 2009, 4, 383-388.	15.6	407
125	Spin-resolved quantum interference in graphene. Nature Physics, 2009, 5, 894-897.	6.5	50
126	Ferromagnet/superconductor heterostructures in graphene. Solid State Communications, 2009, 149, 1106-1110.	0.9	4
127	Dirac supercurrent in an asymmetric graphene-based SG1/FB/SG2 junction. Physica C: Superconductivity and Its Applications, 2009, 469, 157-161.	0.6	0
128	Dirac quasiparticle tunneling in a NG/ferromagnetic barrier/SG graphene junction. Physica C: Superconductivity and Its Applications, 2009, 469, 689-693.	0.6	15

#	Article	IF	CITATIONS
129	Dirac tunneling magnetoresistance in a double ferromagnetic graphene barrier structure. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 41, 1310-1314.	1.3	20
130	Surface transfer doping of semiconductors. Progress in Surface Science, 2009, 84, 279-321.	3.8	282
131	Preparation and electrochemical performance for methanol oxidation of pt/graphene nanocomposites. Electrochemistry Communications, 2009, 11, 846-849.	2.3	675
132	Spin currents and magnetoresistance of graphene-based magnetic junctions. European Physical Journal B, 2009, 67, 239-244.	0.6	28
133	Spin filter, spin amplifier and spin diode in graphene nanodisk. European Physical Journal B, 2009, 67, 543-549.	0.6	37
134	Spin-polarization and magnetoresistance in graphene-based resonant-tunnelling structures. European Physical Journal B, 2009, 68, 119-122.	0.6	5
135	Crossed Andreev reflection in graphene-based ferromagnet-superconductor structures. European Physical Journal B, 2009, 72, 217-223.	0.6	10
136	The electronic properties of graphene. Reviews of Modern Physics, 2009, 81, 109-162.	16.4	20,779
137	Magnetoresistive junctions based on epitaxial graphene and hexagonal boron nitride. Physical Review B, 2009, 80, .	1.1	109
138	Tuning the Electronic Structure of Graphene by an Organic Molecule. Journal of Physical Chemistry B, 2009, 113, 2-5.	1.2	219
139	Improving gas sensing properties of graphene by introducing dopants and defects: a first-principles study. Nanotechnology, 2009, 20, 185504.	1.3	913
140	Graphene-based Composite Thin Films for Electronics. Nano Letters, 2009, 9, 814-818.	4.5	639
141	Localized Spins on Graphene. Physical Review Letters, 2009, 102, 046801.	2.9	106
142	Electron-Hole Asymmetry of Spin Injection and Transport in Single-Layer Graphene. Physical Review Letters, 2009, 102, 137205.	2.9	130
143	Formation of quasi-free graphene on the Ni(111) surface with intercalated Cu, Ag, and Au layers. Physics of the Solid State, 2009, 51, 2390-2400.	0.2	61
144	Electrical Generation of Pure Spin Currents in a Two-Dimensional Electron Gas. Physical Review Letters, 2009, 102, 116802.	2.9	63
145	Topological winding properties of spin edge states in the Kane-Mele graphene model. Physical Review B, 2009, 80, .	1.1	23
146	All-Electric Spin Control in Interference Single Electron Transistors. Nano Letters, 2009, 9, 2897-2902.	4.5	39

#	Article	IF	CITATIONS
147	A One-step, Template-free Synthesis, Characterization, Optical and Magnetic Properties of Zn <sub>1â^'<i>x</i></sub> Mn <sub><i>x</i></sub> Te Nanosheets. Chemistry of Materials, 2009, 21, 326-335.	3.2	37
148	NONLOCAL ELECTRONIC SPIN DETECTION, SPIN ACCUMULATION AND THE SPIN HALL EFFECT. International Journal of Modern Physics B, 2009, 23, 2413-2438.	1.0	76
149	Film Edge Nonlocal Spin Valves. Nano Letters, 2009, 9, 2350-2353.	4.5	8
150	Is There a Rashba Effect in Graphene on <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"&gt;<mml:mn>3</mml:mn><mml:mi>d</mml:mi></mml:math> Ferromagnets?. Physical Review Letters, 2009, 102, 057602.	2.9	131
151	Band-structure topologies of graphene: Spin-orbit coupling effects from first principles. Physical Review B, 2009, 80, .	1.1	579
152	Spin-dependent transport in double ferromagnetic-gate graphene structures. Journal of Physics: Conference Series, 2009, 187, 012037.	0.3	3
153	Organic spin valves: the first organic spintronics devices. Journal of Materials Chemistry, 2009, 19, 1685-1690.	6.7	40
154	Application of quantum chemistry to nanotechnology: electron and spin transport in molecular devices. Chemical Society Reviews, 2009, 38, 2319.	18.7	119
155	B <sub>2</sub> C Graphene, Nanotubes, and Nanoribbons. Nano Letters, 2009, 9, 1577-1582.	4.5	154
156	Substrate-induced magnetism in epitaxial graphene buffer layers. Nanotechnology, 2009, 20, 275705.	1.3	22
157	Equilibrium spin current in ferromagnetic graphene junction. Journal of Applied Physics, 2009, 105, 103711.	1.1	12
158	Spin Channels in Functionalized Graphene Nanoribbons. Nano Letters, 2009, 9, 3425-3429.	4.5	103
159	Anisotropic Etching and Nanoribbon Formation in Single-Layer Graphene. Nano Letters, 2009, 9, 2600-2604.	4.5	483
160	Curvature-enhanced spin-orbit coupling in a carbon nanotube. Physical Review B, 2009, 80, .	1.1	91
161	Magnetism in graphene due to single-atom defects: dependence on the concentration and packing geometry of defects. Journal of Physics Condensed Matter, 2009, 21, 196002.	0.7	96
162	Graphene quantum dots: Beyond a Dirac billiard. Physical Review B, 2009, 79, .	1.1	170
163	Observation of excited states in a graphene quantum dot. Applied Physics Letters, 2009, 94, .	1.5	148
164	Impurity-Induced Spin-Orbit Coupling in Graphene. Physical Review Letters, 2009, 103, 026804.	2.9	461

#	Article	IF	CITATIONS
165	Spin Polarized Electron Transport near the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"&gt;<mml:mi>Si</mml:mi><mml:mo>/</mml:mo><mml:msub><mml:mi>SiO</mml:mi><mml:mn> Physical Review Letters, 2009, 103, 117202.</mml:mn></mml:msub></mml:math 	2 <mark /791	ı><∕mml:msu
166	Electronic and Magnetic Properties of Partially Open Carbon Nanotubes. Journal of the American Chemical Society, 2009, 131, 17919-17925.	6.6	47
167	<mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"&gt;<mml:mrow><mml:msub><mml:mrow><mml:mtext>Au</mml:mtext></mml:mrow><mml:mi adsorbed on graphene studied by first-principles calculations. Physical Review B, 2009, 80, .</mml:mi </mml:msub></mml:mrow></mml:math>	×n <td>i&gt;&lt;<b>/617</b>ml:msul</td>	i>< <b>/617</b> ml:msul
168	Dependence of resistivity on electron density and temperature in graphene. Physical Review B, 2009, 79,	1.1	34
169	Edge effects in bilayer graphene nanoribbons: <i>Ab initio</i> total-energy density functional theory calculations. Physical Review B, 2009, 79, .	1.1	58
170	Electronic spin transport in graphene field-effect transistors. Physical Review B, 2009, 80, .	1.1	183
171	The electronic properties of graphene and carbon nanotubes. NPG Asia Materials, 2009, 1, 17-21.	3.8	212
172	Topological Frustration in Graphene Nanoflakes: Magnetic Order and Spin Logic Devices. Physical Review Letters, 2009, 102, 157201.	2.9	237
173	Rashba spin-orbit interaction in graphene and zigzag nanoribbons. Physical Review B, 2009, 79, .	1.1	136
174	Evidence for Strain-Induced Local Conductance Modulations in Single-Layer Graphene on SiO <sub>2</sub> . Nano Letters, 2009, 9, 2542-2546.	4.5	127
175	Dirac electrons in graphene-based quantum wires and quantum dots. Journal of Physics Condensed Matter, 2009, 21, 344202.	0.7	37
176	Electron spin relaxation in graphene: The role of the substrate. Physical Review B, 2009, 80, .	1.1	222
177	Ab initiocalculation of transverse spin current in graphene nanostructures. Physical Review B, 2009, 79, .	1.1	43
178	Quantum Dot Behavior in Graphene Nanoconstrictions. Nano Letters, 2009, 9, 416-421.	4.5	225
179	Negative tunnel magnetoresistance and spin transport in ferromagnetic graphene junctions. Journal of Physics Condensed Matter, 2009, 21, 126001.	0.7	26
180	Tunneling transport in a graphene-based ferromagnet/insulator/d-wave superconductor junction. Europhysics Letters, 2009, 87, 27008.	0.7	19
181	Spin transport in single- and multi-layer graphene. , 2009, , .		6
182	Intrinsic and extrinsic corrugation of monolayer graphene deposited on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"&gt;<mml:msub><mml:mi>SiO</mml:mi><mml:mn>2</mml:mn></mml:msub>. Physical Review Letters 2009 102 076102</mml:math 	2.9	336

#	Article	IF	CITATIONS
183	Optical conductance and transmission in bilayer graphene. Journal of Applied Physics, 2009, 106, 043103.	1.1	12
184	Graphene on gold: Electron density of states studies by scanning tunneling spectroscopy. Applied Physics Letters, 2009, 95, .	1.5	50
185	Graphene for VLSI: FET and interconnect applications. , 2009, , .		23
186	Spin-Orbit-Mediated Spin Relaxation in Graphene. Physical Review Letters, 2009, 103, 146801.	2.9	249
187	Electric Field Control of Magnetoresistance in InP Nanowires with Ferromagnetic Contacts. Nano Letters, 2009, 9, 2704-2709.	4.5	32
188	Structure and Electronic Properties of Graphene Nanoislands on Co(0001). Nano Letters, 2009, 9, 2844-2848.	4.5	236
189	Electrical transport in high-quality graphene <i>pnp</i> junctions. New Journal of Physics, 2009, 11, 095008.	1.2	55
190	Spin-Polarized Transport on Zigzag Graphene Nanoribbon with a Single Defect. Journal of the Physical Society of Japan, 2009, 78, 094701.	0.7	13
191	Spin-switch effect from crossed Andreev reflection in superconducting graphene spin valves. Physical Review B, 2009, 80, .	1.1	66
192	Carbon-based electronics. , 2009, , 174-184.		17
193	Carbon nanotube: A novel material for applications. Journal of Physics: Conference Series, 2009, 187, 012002.	0.3	8
194	Inverse spin valve effect in multilayer graphene device. Journal of Physics: Conference Series, 2010, 232, 012002.	0.3	0
195	Abnormal humidity-dependent electrical properties of amorphous carbon/silicon heterojunctions. Applied Physics Letters, 2010, 97, .	1.5	12
196	General View of Graphenes. Journal of the Vacuum Society of Japan, 2010, 53, 61-65.	0.3	0
197	Present Status and Possibilities of Graphene Electron Transport. Journal of the Vacuum Society of Japan, 2010, 53, 85-93.	0.3	0
198	Spin filter effect and large magnetoresistance in the zigzag graphene nanoribbons. European Physical Journal B, 2010, 73, 139-143.	0.6	12
199	Tunneling Spin Injection into Single Layer Graphene. Physical Review Letters, 2010, 105, 167202.	2.9	422
200	Spintronics. Annual Review of Condensed Matter Physics, 2010, 1, 71-88.	5.2	527

# 201	ARTICLE Properties of graphene: a theoretical perspective. Advances in Physics, 2010, 59, 261-482.	IF 35.9	Citations 970
202	Graphene: Materially Better Carbon. MRS Bulletin, 2010, 35, 289-295.	1.7	191
203	Emergence of magnetism in graphene materials and nanostructures. Reports on Progress in Physics, 2010, 73, 056501.	8.1	1,026
204	Manipulation of Spin Transport in Graphene by Surface Chemical Doping. Physical Review Letters, 2010, 104, 187201.	2.9	168
205	Electronic and magnetic properties of the graphene–ferromagnet interface. New Journal of Physics, 2010, 12, 125004.	1.2	186
206	Exfoliation and Chemical Modification Using Microwave Irradiation Affording Highly Functionalized Graphene. ACS Nano, 2010, 4, 7499-7507.	7.3	150
207	Interconnects for Novel State Variables: Performance Modeling and Device and Circuit Implications. IEEE Transactions on Electron Devices, 2010, 57, 2711-2718.	1.6	18
208	Coherent Spin Manipulation in Molecular Semiconductors: Getting a Handle on Organic Spintronics. ChemPhysChem, 2010, 11, 3040-3058.	1.0	65
209	Current Trends in Shrinking the Channel Length of Organic Transistors Down to the Nanoscale. Advanced Materials, 2010, 22, 20-32.	11.1	83
210	Aqueousâ€Processable Noncovalent Chemically Converted Graphene–Quantum Dot Composites for Flexible and Transparent Optoelectronic Films. Advanced Materials, 2010, 22, 638-642.	11.1	288
211	Fully Rollable Transparent Nanogenerators Based on Graphene Electrodes. Advanced Materials, 2010, 22, 2187-2192.	11.1	290
212	Controllable Synthesis of Graphene and Its Applications. Advanced Materials, 2010, 22, 3225-3241.	11.1	375
213	Graphene Quantum Sheets: A New Material for Spintronic Applications. Advanced Materials, 2010, 22, 5531-5536.	11.1	63
214	Characterization, Direct Electrochemistry, and Amperometric Biosensing of Graphene by Noncovalent Functionalization with Picketâ€Fence Porphyrin. Chemistry - A European Journal, 2010, 16, 10771-10777.	1.7	108
215	A Radical Polymer as a Twoâ€Dimensional Organic Half Metal. Chemistry - A European Journal, 2010, 16, 12141-12146.	1.7	25
216	A facile approach to the fabrication of graphene/polystyrene nanocomposite by in situ microemulsion polymerization. Journal of Colloid and Interface Science, 2010, 350, 530-537.	5.0	168
217	Perfect switching of the spin polarization in a ferromagnetic gapless graphene/superconducting gapped graphene junction. Physica C: Superconductivity and Its Applications, 2010, 470, 31-36.	0.6	8
218	Josephson current in a double ferromagnetic layer SG/F1/F2/SG graphene sandwich. Physica C: Superconductivity and Its Applications, 2010, 470, 123-128.	0.6	0

	CITATION R	EPORT	
#	Article	IF	CITATIONS
219	Photo-excited carriers and optical conductance and transmission in graphene in the presence of phonon scattering. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 748-750.	1.3	7
220	Modeling the thermopower of ballistic graphene ribbons. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 2431-2435.	1.3	15
221	Transport characteristics of a single-layer graphene field-effect transistor grown on 4H-silicon carbide. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 2792-2795.	1.3	8
222	Rashba spin–orbit interaction effects on graphene quantum system. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 43, 207-210.	1.3	11
223	The improved electrocatalytic activity of palladium/graphene nanosheets towards ethanol oxidation by tin oxide. Electrochimica Acta, 2010, 56, 139-144.	2.6	78
224	Effect of single magnetic atom on spin-polarized transport of armchair graphene nanoribbons. Solid State Communications, 2010, 150, 1537-1541.	0.9	3
225	A molecular dynamics study of the mechanical properties of hydrogen functionalized graphene. Carbon, 2010, 48, 898-904.	5.4	442
226	Transformation of graphene into graphane in the absence of hydrogen. Carbon, 2010, 48, 981-986.	5.4	26
227	Preparation of graphene by the rapid and mild thermal reduction of graphene oxide induced by microwaves. Carbon, 2010, 48, 1146-1152.	5.4	939
228	Enhanced spin–orbit coupling in hydrogenated and fluorinated graphene. Carbon, 2010, 48, 1405-1409.	5.4	68
229	Production, properties and potential of graphene. Carbon, 2010, 48, 2127-2150.	5.4	1,502
230	Substrate-free synthesis of large area, continuous multi-layer graphene film. Carbon, 2010, 48, 2394-2400.	5.4	25
231	Viewing spin structures with soft X-ray microscopy. Materials Today, 2010, 13, 14-22.	8.3	21
232	Largeâ€Yield Preparation of Highâ€Electronicâ€Quality Graphene by a Langmuir–Schaefer Approach. Small, 2010, 6, 35-39.	5.2	78
233	Oscillatory spin-polarized tunnelling from silicon quantum wells controlled by electric field. Nature Materials, 2010, 9, 133-138.	13.3	40
234	Isotope effect in spin response of π-conjugated polymer films and devices. Nature Materials, 2010, 9, 345-352.	13.3	461
235	What makes the spin relax?. Nature Materials, 2010, 9, 288-290.	13.3	30
236	Pipe dreams. Nature Materials, 2010, 9, 290-290.	13.3	0

#	Article	IF	CITATIONS
237	Extremely long quasiparticle spin lifetimes in superconducting aluminium using MgO tunnel spin injectors. Nature Materials, 2010, 9, 586-593.	13.3	102
238	Spin injection/detection using an organic-based magnetic semiconductor. Nature Materials, 2010, 9, 638-642.	13.3	209
239	Proposal for an all-spin logic device with built-in memory. Nature Nanotechnology, 2010, 5, 266-270.	15.6	643
240	Observation of second-harmonic generation induced by pure spin currents. Nature Physics, 2010, 6, 875-878.	6.5	50
241	Graphene Spintronics. Hyomen Kagaku, 2010, 31, 162-168.	0.0	1
243	Materials for Information Technology. International Journal of Materials Research, 2010, 101, 149-154.	0.1	14
244	Hyperfine interaction in spin response of organic devices. , 2010, , .		0
246	First-principles study of the structural and magnetic properties of graphene on a Fe/Ni(1 1 1) surface. Journal Physics D: Applied Physics, 2010, 43, 385002.	1.3	14
247	Mechanical Properties of Ni-Coated Single Graphene Sheet and Their Embedded Aluminum Matrix Composites. Communications in Theoretical Physics, 2010, 54, 143-147.	1.1	18
248	Spin current pumped by a rotating magnetic field in zigzag graphene nanoribbons. Journal of Physics Condensed Matter, 2010, 22, 445801.	0.7	6
249	Controllability of ferromagnetism in graphene. Applied Physics Letters, 2010, 97, .	1.5	42
250	Spin Control of Drifting Electrons Using Local Nuclear Polarization in Ferromagnet-Semiconductor Heterostructures. Physical Review Letters, 2010, 105, 137206.	2.9	9
251	First-principles study of substitutional metal impurities in graphene: structural, electronic and magnetic properties. New Journal of Physics, 2010, 12, 053012.	1.2	214
252	Features due to spin-orbit coupling in the optical conductivity of single-layer graphene. Physical Review B, 2010, 81, .	1.1	23
253	Magnetoresistance in ferromagnetic-metal/graphene/ferromagnetic-metal lateral junctions. Physical Review B, 2010, 82, .	1.1	13
254	Conserved spin and orbital phase along carbon nanotubes connected with multiple ferromagnetic contacts. Physical Review B, 2010, 81, .	1.1	29
255	Signatures of d-wave symmetry on thermal Dirac fermions in graphene-based F 1 d junctions. Journal of Applied Physics, 2010, 108, .	1.1	20
256	Tunneling spectroscopy of metal-oxide-graphene structure. Applied Physics Letters, 2010, 97, 032104.	1.5	13

#	Article	IF	CITATIONS
257	Spin polarized electron transport through a graphene nanojunction. Applied Physics Letters, 2010, 96, 132108.	1.5	25
258	Magnetism in graphene nanoribbons on Ni(111): First-principles density functional study. Physical Review B, 2010, 82, .	1.1	19
259	Magnetoresistance of lateral semiconductor spin valves. Journal of Applied Physics, 2010, 108, 123913.	1.1	4
260	Temperature dependence of the nonlocal voltage in an Fe/GaAs electrical spin-injection device. Physical Review B, 2010, 81, .	1.1	69
261	Dirac fermions in a graphene nanodisk and a graphene corner: Texture of vortices with an unusual winding number. Physical Review B, 2010, 81, .	1.1	26
262	Band Engineering and Magnetic Doping of Epitaxial Graphene on SiC (0001). Physical Review Letters, 2010, 104, 146801.	2.9	63
263	Electron spin relaxation in graphene from a microscopic approach: Role of electron-electron interaction. Physical Review B, 2010, 82, .	1.1	36
264	Spin injection and perpendicular spin transport in graphite nanostructures. Physical Review B, 2010, 81, .	1.1	30
265	Transfer lengths and spin injection from a three-dimensional ferromagnet into graphene. Physical Review B, 2010, 82, .	1.1	5
266	Quantum phase-space approach to the transport simulation in graphene devices. , 2010, , .		0
267	Unusual resistance hysteresis in n-layer graphene field effect transistors fabricated on ferroelectric Pb(Zr0.2Ti0.8)O3. Applied Physics Letters, 2010, 97, .	1.5	115
268	Quantum transport of Dirac fermions in graphene nanostructures. , 2010, , .		0
269	Scanning tunneling microscopy/spectroscopy and X-ray absorption spectroscopy studies of co adatoms and nanoislands on highly oriented pyrolytic graphite. , 2010, , .		0
270	Aromatic Molecules Doping in Single-Layer Graphene Probed by Raman Spectroscopy and Electrostatic Force Microscopy. Japanese Journal of Applied Physics, 2010, 49, 01AH04.	0.8	10
271	Band-Bending at the Graphene–SiC Interfaces: Effect of the Substrate. Japanese Journal of Applied Physics, 2010, 49, 01AH05.	0.8	10
272	Investigation of Spin-Dependent Transport Properties and Spin–Spin Interactions in a Copper-Phthalocyanine–Cobalt Nanocomposite System. Japanese Journal of Applied Physics, 2010, 49, 033002.	0.8	7
273	Electrostatic transfer of patterned epitaxial graphene from SiC(0001) to glass. New Journal of Physics, 2010, 12, 125016.	1.2	9
274	Tunable Nanoscale Graphene Magnetometers. Nano Letters, 2010, 10, 341-346.	4.5	59

#	Article	IF	CITATIONS
275	Ultrathin epitaxial cobalt films on graphene for spintronic investigations and applications. New Journal of Physics, 2010, 12, 103040.	1.2	74
276	Hyperfine-Field-Mediated Spin Beating in Electrostatically Bound Charge Carrier Pairs. Physical Review Letters, 2010, 104, 017601.	2.9	115
277	Electronic transport through a graphene-based ferromagnetic/normal/ferromagnetic junction. Journal of Physics Condensed Matter, 2010, 22, 035301.	0.7	27
278	Ion irradiation induced structural and electrical transition in graphene. Journal of Chemical Physics, 2010, 133, 234703.	1.2	70
279	Nanoelectronics in retrospect, prospect and principle. , 2010, , .		6
280	Tunable interfacial properties of epitaxial graphene on metal substrates. Applied Physics Letters, 2010, 96, .	1.5	118
281	Perfect spin-filter and spin-valve in carbon atomic chains. Applied Physics Letters, 2010, 96, 042104.	1.5	174
282	Coherent Control of Ballistic Photocurrents in Multilayer Epitaxial Graphene Using Quantum Interference. Nano Letters, 2010, 10, 1293-1296.	4.5	122
283	Hydrogen Bond Networks in Graphene Oxide Composite Paper: Structure and Mechanical Properties. ACS Nano, 2010, 4, 2300-2306.	7.3	674
284	Chemical vapour deposition of graphene on Ni(111) and Co(0001) and intercalation with Au to study Dirac-cone formation and Rashba splitting. Diamond and Related Materials, 2010, 19, 734-741.	1.8	36
285	Dispersion of graphene in ethanol using a simple solvent exchange method. Chemical Communications, 2010, 46, 7539.	2.2	153
286	Surface-Enhanced Raman Signal for Terbium Single-Molecule Magnets Grafted on Graphene. ACS Nano, 2010, 4, 7531-7537.	7.3	90
287	Spin-orbit interaction effects on magnetoresistance in graphene-based ferromagnetic double junctions. Applied Physics Letters, 2010, 96, 223102.	1.5	39
288	Chemistry under Cover: Tuning Metalâ^Graphene Interaction by Reactive Intercalation. Journal of the American Chemical Society, 2010, 132, 8175-8179.	6.6	310
289	Disorder-based graphene spintronics. Nanotechnology, 2010, 21, 345202.	1.3	30
290	Stability and Formation Mechanisms of Carbonyl- and Hydroxyl-Decorated Holes in Graphene Oxide. Journal of Physical Chemistry C, 2010, 114, 12053-12061.	1.5	129
291	Electron spin dynamics and electron spin resonance in graphene. Europhysics Letters, 2010, 92, 17002.	0.7	24
292	Effective time-reversal symmetry breaking in the spin relaxation in a graphene quantum dot. Physical Review B, 2010, 82, .	1.1	29

#	Article	IF	CITATIONS
293	Substrate Hybridization and Rippling of Graphene Evidenced by Near-Edge X-ray Absorption Fine Structure Spectroscopy. Journal of Physical Chemistry Letters, 2010, 1, 1247-1253.	2.1	60
294	Controlling Half-Metallicity of Graphene Nanoribbons by Using a Ferroelectric Polymer. ACS Nano, 2010, 4, 1345-1350.	7.3	89
295	Tunneling conductance of graphene ferromagnet-insulator-superconductor junctions. Physical Review B, 2010, 81, .	1.1	35
296	Spin polarization and giant magnetoresistance effect induced by magnetization in zigzag graphene nanoribbons. Physical Review B, 2010, 81, .	1.1	95
297	Spin-polarized transport in graphene nanoribbons with one paramagnetic lead and one ferromagnetic lead. Semiconductor Science and Technology, 2010, 25, 085011.	1.0	5
298	Electric Field Control of Spin Rotation in Bilayer Graphene. Nano Letters, 2010, 10, 4463-4469.	4.5	45
299	Electronic and magnetic properties of superlattices of graphene/graphane nanoribbons with different edge hydrogenation. Physical Review B, 2010, 82, .	1.1	47
300	Functionalization of Graphene <i>via</i> 1,3-Dipolar Cycloaddition. ACS Nano, 2010, 4, 3527-3533.	7.3	407
301	A photoemission study of interfaces between organic semiconductors and Co as well as Al2O3/Co contacts. Synthetic Metals, 2010, 160, 238-243.	2.1	20
302	Recent advances in organic spin-valve devices. Synthetic Metals, 2010, 160, 210-215.	2.1	41
303	Tunneling vs. giant magnetoresistance in organic spin valve. Synthetic Metals, 2010, 160, 216-222.	2.1	44
304	First-principles investigation of graphene fluoride and graphane. Physical Review B, 2010, 82, .	1.1	397
305	Density functional study of the Au-intercalated graphene/Ni(111) surface. Physical Review B, 2010, 82, .	1.1	61
306	Two-dimensional carbon nanostructures: Fundamental properties, synthesis, characterization, and potential applications. Journal of Applied Physics, 2010, 108, .	1.1	258
307	Graphene-Based Electronic Spin Lenses. Physical Review Letters, 2010, 105, 146803.	2.9	70
308	Mechanical properties of methyl functionalized graphene: a molecular dynamics study. Nanotechnology, 2010, 21, 115709.	1.3	116
309	Creation and Control of Spin Current in Solids. Japanese Journal of Applied Physics, 2010, 49, 110001.	0.8	20
310	Electronic structure of substitutionally Mn-doped graphene. New Journal of Physics, 2010, 12, 063020.	1.2	83

#	Article	IF	CITATIONS
311	Graphene and its one-dimensional patterns: from basic properties towards applications. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2010, 1, 033001.	0.7	6
312	Are Al2O3 and MgO tunnel barriers suitable for spin injection in graphene?. Applied Physics Letters, 2010, 97, .	1.5	82
313	Dual spin filter effect in a zigzag graphene nanoribbon. Physical Review B, 2010, 81, .	1.1	121
314	Spin-transport selectivity upon Co adsorption on antiferromagnetic graphene nanoribbons. Journal of Chemical Physics, 2010, 133, 124703.	1.2	45
315	Atomic carbon chains as spin-transmitters: An <i>ab initio</i> transport study. Europhysics Letters, 2010, 91, 37002.	0.7	28
316	A Theoretical Study on the Catalytic Synergetic Effects of Pt/Graphene Nanocomposites. Journal of Physical Chemistry C, 2010, 114, 19009-19015.	1.5	57
317	Spin–orbit coupling in a graphene bilayer and in graphite. New Journal of Physics, 2010, 12, 083063.	1.2	82
318	Spin-resolved scattering through spin-orbit nanostructures in graphene. Physical Review B, 2010, 81, .	1.1	97
319	Spin heat accumulation and its relaxation in spin valves. Physical Review B, 2010, 81, .	1.1	32
320	Time-of-flight spectroscopy via spin precession: The Larmor clock and anomalous spin dephasing in silicon. Physical Review B, 2010, 82, .	1.1	27
321	Tight-binding theory of the spin-orbit coupling in graphene. Physical Review B, 2010, 82, .	1.1	425
322	The effect of magnetic field and disorders on the electronic transport in graphene nanoribbons. Journal of Physics Condensed Matter, 2010, 22, 375303.	0.7	9
323	Conductance Anisotropy in Epitaxial Graphene Sheets Generated by Substrate Interactions. Nano Letters, 2010, 10, 1559-1562.	4.5	97
324	Fabry-Perot oscillations in the thermopower of ballistic graphene ribbons. , 2010, , .		0
325	Magnetotransport in an impurity-doped few-layer graphene spin valve. Physical Review B, 2010, 82, .	1.1	9
326	Spin transport in multiterminal devices: Large spin signals in devices with confined geometry. Physical Review B, 2010, 82, .	1.1	59
327	Magnetotransport and current-induced spin transfer torque in a ferromagnetically contacted graphene. Journal of Physics Condensed Matter, 2010, 22, 445302.	0.7	17
328	Physical limitations on delay and energy dissipation of interconnects for post-CMOS devices. , 2010, ,		6

#	Article	IF	CITATIONS
329	Magnetic properties of all-carbon graphene-fullerene nanobuds. Physical Chemistry Chemical Physics, 2011, 13, 5945.	1.3	27
330	Fabrication and Characterization of Networked Graphene Devices Based on Ultralarge Single-Layer Graphene Sheets. IEEE Nanotechnology Magazine, 2011, 10, 467-471.	1.1	4
331	Heat Transport in Graphene Ferromagnet-Insulator-Superconductor Junctions. Chinese Physics Letters, 2011, 28, 047401.	1.3	2
332	Another Spin on Graphene. Science, 2011, 332, 315-316.	6.0	8
333	On physical limits and challenges of interconnects for spin devices. , 2011, , .		1
334	Full electrical control of charge and spin conductance through interferometry of edge states in topological insulators. Physical Review B, 2011, 83, .	1.1	87
335	Strain-induced 0â€"ï€ transition in a zigzag graphene nanoribbon Josephson junction. Applied Physics Letters, 2011, 98, 122106.	1.5	14
336	Interconnection aspects of spin torque devices: Delay, energy-per-bit, and circuit size modeling. , 2011, ,		3
337	Synthesis of Nitrogen-Doped Graphene on Pt(111) by Chemical Vapor Deposition. Journal of Physical Chemistry C, 2011, 115, 10000-10005.	1.5	105
338	Single electron spintronics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 3150-3174.	1.6	20
339	Density Functional Theory Study of O <sub>2</sub> and NO Adsorption on Heteroatom-Doped Graphenes Including the van der Waals Interaction. Journal of Physical Chemistry C, 2011, 115, 10971-10978.	1.5	34
340	Plasma treatments to improve metal contacts in graphene field effect transistor. Journal of Applied Physics, 2011, 110, .	1.1	53
341	Growth mechanism and interface magnetic properties of Co nanostructures on graphite. Physical Review B, 2011, 84, .	1.1	25
342	Doping induced spin filtering effect in zigzag graphene nanoribbons with asymmetric edge hydrogenation. Applied Physics Letters, 2011, 98, .	1.5	91
343	Spin-dependent transport for armchair-edge graphene nanoribbons between ferromagnetic leads. Journal of Physics Condensed Matter, 2011, 23, 135304.	0.7	12
344	Exchange-Induced Electron Transport in Heavily Phosphorus-Doped Si Nanowires. Nano Letters, 2011, 11, 4730-4735.	4.5	17
345	Ferromagnetic Order from p-Electrons in Rubidium Oxide. Chemistry of Materials, 2011, 23, 1578-1586.	3.2	23
346	Electronic structure and magnetic properties of the graphene/Fe/Ni(111) intercalation-like system. Physical Chemistry Chemical Physics, 2011, 13, 7534.	1.3	110

		CITATION REPORT		
#	Article		IF	CITATIONS
347	Anomalous magnetic transport in ferromagnetic graphene junctions. Physical Review E	3, 2011, 83, .	1.1	39
348	Graphene Spin-Valve Device Grown Epitaxially on the Ni(111) Substrate: A First Princip of Physical Chemistry C, 2011, 115, 6019-6023.	les Study. Journal	1.5	42
349	Graphene Spintronic Devices with Molecular Nanomagnets. Nano Letters, 2011, 11, 26	534-2639.	4.5	371
350	Enhanced thermoelectric properties in graphene nanoribbons by resonant tunneling of Physical Review B, 2011, 83, .	electrons.	1.1	167
351	Covalent Chemistry for Graphene Electronics. Journal of Physical Chemistry Letters, 20	11, 2, 2487-2498.	2.1	131
352	Adsorption of gas molecules on transition metal embedded graphene: a search for high graphene-based catalysts and gas sensors. Nanotechnology, 2011, 22, 385502.	1-performance	1.3	280
353	Graphene-based Spin Caloritronics. Nano Letters, 2011, 11, 1369-1373.		4.5	183
354	Gate voltage induced spin-filtering effect in a junction based on zigzag graphene nano Physics Letters, 2011, 99, 243503.	ribbons. Applied	1.5	12
355	Electron spin diffusion at the interface of multiferroic oxides. Physical Review B, 2011,	84,.	1.1	5
356	Comparison between charge and spin transport in few-layer graphene. Physical Review	B, 2011, 83, .	1.1	76
357	Atmospheric stability and doping protection of noble-metal intercalated graphene on N Physics Letters, 2011, 98, 122111.	Ji(111). Applied	1.5	24
358	Half metallicity in BC2N nanoribbons: stability, electronic structures, and magnetism. N 3, 2583.	lanoscale, 2011,	2.8	33
359	Organic Spintronics. , 2011, , 109-142.			6
360	Strain-tunable spin transport in ferromagnetic graphene junctions. Applied Physics Let	ters, 2011, 98, .	1.5	46
361	Epitaxial growth and structural property of graphene on Pt(111). Applied Physics Lette 033101.	rs, 2011, 98,	1.5	223
362	In situ polymerization of graphene nanosheets and polyurethane with enhanced mecha thermal properties. Journal of Materials Chemistry, 2011, 21, 4222.	anical and	6.7	371
363	Underneath the fascinations of carbon nanotubes and graphene nanoribbons. Energy a Environmental Science, 2011, 4, 627.	and	15.6	74
364	Curvature-induced spin-orbit coupling and spin relaxation in a chemically clean single-la Physical Review B, 2011, 84, .	ayer graphene.	1.1	45

#	Article	IF	CITATIONS
365	A molecular dynamics study of the mechanical properties of graphene nanoribbon-embedded gold composites. Nanoscale, 2011, 3, 4307.	2.8	11
366	Fully spin-dependent transport of triangular graphene flakes. Physical Review B, 2011, 84, .	1.1	6
367	Manipulating fully spin-polarized edge currents in graphene ribbon. Physical Review B, 2011, 84, .	1.1	0
368	Spin dephasing and pumping in graphene due to random spin-orbit interaction. Physical Review B, 2011, 83, .	1.1	61
369	Epitaxially Integrating Ferromagnetic Fe <sub>1.3</sub> Ge Nanowire Arrays on Few-Layer Graphene. Journal of Physical Chemistry Letters, 2011, 2, 956-960.	2.1	17
370	Spin-polarized transport in zigzag graphene nanoribbons with Rashba spin–orbit interaction. Journal of Applied Physics, 2011, 110, 103702.	1.1	9
371	Graphene-based bipolar spin diode and spin transistor: Rectification and amplification of spin-polarized current. Physical Review B, 2011, 83, .	1.1	145
372	Graphene Spintronics: The Role of Ferromagnetic Electrodes. Nano Letters, 2011, 11, 151-155.	4.5	137
373	Observation of Long Spin-Relaxation Times in Bilayer Graphene at Room Temperature. Physical Review Letters, 2011, 107, 047206.	2.9	235
374	Graphene-based spin logic gates. Applied Physics Letters, 2011, 98, .	1.5	59
375	Spin-flip phenomena at the Co graphene Co interfaces. Applied Physics Letters, 2011, 98, .	1.5	12
376	Graphene Covalently Binding Aryl Groups: Conductivity Increases Rather than Decreases. ACS Nano, 2011, 5, 7945-7949.	7.3	89
377	Spin exchange interaction with tunable range between graphene quantum dots. Physical Review B, 2011, 84, .	1.1	12
378	Spin-dependent transport and spin-switching effect in graphene with magnetoelectric modulations. Journal of Applied Physics, 2011, 109, 053716.	1.1	7
379	Spin-polarized current and tunneling magnetoresistance in ferromagnetic gate bilayer graphene structures. Journal of Applied Physics, 2011, 109, 073717.	1.1	19
380	Spin transistor based on T-shaped graphene junctions. Journal of Applied Physics, 2011, 110, 033701.	1.1	8
381	Room temperature ferromagnetism in partially hydrogenated epitaxial graphene. Applied Physics Letters, 2011, 98, .	1.5	126
382	Fast electrical switching of spin injection in nonlocal spin transport devices. Applied Physics Letters, 2011, 98, 202104.	1.5	10

#	Article	IF	Citations
383	Structural and electronic properties of the graphene/Al/Ni(111) intercalation system. New Journal of Physics, 2011, 13, 113028.	1.2	103
384	Hybridization-induced oscillatory magnetic polarization of C60 orbitals at the C60/Fe(001) interface. Applied Physics Letters, 2011, 98, .	1.5	60
385	Toward Wafer Scale Fabrication of Graphene Based Spin Valve Devices. Nano Letters, 2011, 11, 2363-2368.	4.5	214
386	Angle-Resolved Photoemission Spectroscopy of Graphene, Graphite, and Related Compounds. , 2011, , 383-409.		4
387	Multilayer graphene nanoribbon under vertical electric field. Journal of Applied Physics, 2011, 110, 044309.	1.1	12
388	Electron transport in edge-disordered graphene nanoribbons. Physical Review B, 2011, 83, .	1.1	49
389	Direct Synthesis of Lithium-Intercalated Graphene for Electrochemical Energy Storage Application. ACS Nano, 2011, 5, 4345-4349.	7.3	120
390	Magnetic exchange mechanism for electronic gap opening in graphene. Europhysics Letters, 2011, 96, 27010.	0.7	8
391	Switching energy-delay of all spin logic devices. Applied Physics Letters, 2011, 98, .	1.5	93
392	Trapping of metal atoms in the defects on graphene. Journal of Chemical Physics, 2011, 135, 224704.	1.2	116
393	The hyperfine interaction role in the spin response of π-conjugated polymer films and spin valve devices. Synthetic Metals, 2011, 161, 598-603.	2.1	39
394	Landau levels, edge states, and strained magnetic waveguides in graphene monolayers with enhanced spin-orbit interaction. Physical Review B, 2011, 84, .	1.1	32
395	Spin-orbit interaction in curved graphene ribbons. Physical Review B, 2011, 83, .	1.1	29
396	The study of interaction between graphene and metals by Raman spectroscopy. Journal of Applied Physics, 2011, 109, 07C501.	1.1	110
398	Epitaxial Graphene on Metals. Nanoscience and Technology, 2011, , 189-234.	1.5	4
399	New directions in spintronics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 3027-3036.	1.6	32
400	Large yield production of high mobility freely suspended graphene electronic devices on a polydimethylglutarimide based organic polymer. Journal of Applied Physics, 2011, 109, .	1.1	88
401	Spin superconductor in ferromagnetic graphene. Physical Review B, 2011, 84, .	1.1	34

#	Article	IF	CITATIONS
402	sp-Electron Magnetic Clusters with a Large Spin in Graphene. ACS Nano, 2011, 5, 2440-2446.	7.3	80
403	Graphene: Status and prospects as a microwave material. , 2011, , .		1
404	Spin Polarized Electron Tunneling and Magnetoresistance in Molecular Junctions. Topics in Current Chemistry, 2011, 312, 275-302.	4.0	2
405	Multiple Spin State Analysis of Magnetic Nano Graphene. Journal of the Magnetics Society of Japan, 2011, 35, 360-365.	0.5	23
406	Electronic and Magnetic Properties of the Graphene- Ferromagnet Interfaces: Theory vs. Experiment. , 2011, , .		4
407	Basics of Carbon Nanotube and Its Applications-High expectations of technological innovation by carbon nanotube as new carbon material, and facing challenges for its practical applications Journal of MMIJ, 2011, 127, 61-68.	0.4	0
408	Interface Engineering in Organic Spintronics Devices. Hyomen Kagaku, 2011, 32, 152-157.	0.0	0
409	Graphene Nano-Flakes and Nano-Dots: Theory, Experiment and Applications. , 0, , .		5
410	Multiple Spin State Analysis in Radical Carbon Edge and Oxygen Edge Graphene-like Molecules. Journal of the Magnetics Society of Japan, 2011, 35, 414-419.	0.5	6
411	Enhanced spin injection efficiency and extended spin lifetimes in graphene spin valves. Proceedings of SPIE, 2011, , .	0.8	2
412	Magnetism in Dehydrogenated Armchair Graphene Nanoribbon. Journal of the Physical Society of Japan, 2011, 80, 044712.	0.7	6
414	Spin Signal in Metallic Lateral Spin Valves Made by a Multiple Angle Evaporation Technique. Applied Physics Express, 2011, 4, 063007.	1.1	18
415	Spin polarized quantum pump effect in zigzag graphene nanoribbons. JETP Letters, 2011, 93, 372-376.	0.4	11
416	Discrete breathers in deformed graphene. JETP Letters, 2011, 94, 539-543.	0.4	67
417	Ab initio calculations of chemical bond parameters and the band structure of a two-dimensional system: Graphene/MnO(001). Journal of Structural Chemistry, 2011, 52, 849-860.	0.3	6
418	Spin diffusion in -type (111) GaAs quantum wells. Solid State Communications, 2011, 151, 1322-1325.	0.9	3
419	Investigation of the influence on graphene by using electron-beam and photo-lithography. Solid State Communications, 2011, 151, 1574-1578.	0.9	49
420	Spin-polarized edge and magnetoresistance in graphene flake. Solid State Communications, 2011, 151, 1763-1766.	0.9	10

#	Article	IF	CITATIONS
421	Spin-polarized tunneling in a ferromagnetic graphene junction: Interplay between the exchange interaction and the orbital effect of the magnetic field. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 44, 327-332.	1.3	3
422	GMR effects in graphene-based Ferromagnetic/Normal/Ferromagnetic junctions. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 44, 647-653.	1.3	13
423	A wide-angle spin filter based on graphene with Rashba coupling and exchange field. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 44, 738-742.	1.3	3
424	Low-temperature synthesis of thin graphite sheets using plasma-assisted thermal chemical vapor deposition system. Materials Letters, 2011, 65, 1127-1130.	1.3	11
425	Modeling Interconnects for Post-CMOS Devices and Comparison With Copper Interconnects. IEEE Transactions on Electron Devices, 2011, 58, 1319-1328.	1.6	13
426	Effects of Magnetic Contacts on Magnetoresistance in FM/Graphene/FM Lateral Junctions. IEEE Transactions on Magnetics, 2011, 47, 2743-2745.	1.2	4
427	Work function modulation of AuCl4â^' molecule adsorbed on graphene: A first-principles simulation. Chemical Physics Letters, 2011, 516, 88-91.	1.2	3
428	Electrochemical sensor for dopamine based on a novel graphene-molecular imprinted polymers composite recognition element. Biosensors and Bioelectronics, 2011, 28, 291-297.	5.3	245
429	Giant Nonlocality Near the Dirac Point in Graphene. Science, 2011, 332, 328-330.	6.0	255
430	Graphene Sensors. IEEE Sensors Journal, 2011, 11, 3161-3170.	2.4	364
431	Molecular spintronics. Chemical Society Reviews, 2011, 40, 3336.	18.7	1,093
432	Monte Carlo simulation study of spin transport in single layer graphene. Journal of Applied Physics, 2011, 110, 043711.	1.1	15
433	Electrically tunable spin injector free from the impedance mismatch problem. Nature Materials, 2011, 10, 655-659.	13.3	324
434	Graphene field-effect transistors. Journal Physics D: Applied Physics, 2011, 44, 313001.	1.3	116
435	Inducing and optimizing magnetism in graphene nanomeshes. Physical Review B, 2011, 84, .	1.1	69
436	Giant Spin-Hall Effect Induced by the Zeeman Interaction in Graphene. Physical Review Letters, 2011, 107, 096601.	2.9	52
437	Spintronics devices from bilayer graphene in contact to ferromagnetic insulators. Physical Review B, 2011, 84, .	1.1	22
438	Time-dependent magnetotransport in a driven graphene spin valve. Physical Review B, 2011, 84, .	1.1	8

#	Article	IF	CITATIONS
439	Remarks on theoretical modelling of spin-dependent electronic transport in carbon nanotubes and graphene. Open Physics, 2011, 9, 369-371.	0.8	3
440	Localized electron states and magnetic properties at the interface of a two-dimensional graphene/MnO(001) system. Journal of Surface Investigation, 2011, 5, 754-763.	0.1	4
441	Electron and spin transport in adiabatic quantum pumps based on graphene nanoribbons. Journal of Experimental and Theoretical Physics, 2011, 113, 698-708.	0.2	1
442	Spin-switch effect in a graphene d-wave superconductor spin-valve. European Physical Journal B, 2011, 84, 83-88.	0.6	4
443	Preparation and characterisation of covalent polymer functionalized graphene oxide. Journal of Materials Chemistry, 2011, 21, 3455-3461.	6.7	309
444	Spin Relaxation in Single-Layer and Bilayer Graphene. Physical Review Letters, 2011, 107, 047207.	2.9	340
445	Electronic transport in two-dimensional graphene. Reviews of Modern Physics, 2011, 83, 407-470.	16.4	2,857
446	Formation and electronic properties of hydrogenated few layer graphene. Nanotechnology, 2011, 22, 185202.	1.3	74
447	Spin transport in a thin graphite flake. Journal of Materials Science, 2011, 46, 4614-4617.	1.7	3
448	Josephson Current in a Gapped Graphene Superconductor/Barrier/Superconductor Junction: Case of Massive Electrons. Journal of Low Temperature Physics, 2011, 165, 15-26.	0.6	6
449	Hydrazine reduced exfoliated graphene/graphene oxide layers andÂmagnetoconductance measurements of Ge-supported graphene layers. Applied Physics A: Materials Science and Processing, 2011, 103, 395-402.	1.1	32
450	A first-principles study on the electromechanical effect of graphene nanoribbon. Computer Physics Communications, 2011, 182, 99-102.	3.0	17
451	Transport through a strongly coupled graphene quantum dot in perpendicular magnetic field. Nanoscale Research Letters, 2011, 6, 253.	3.1	16
452	Preparation of Pt Ag alloy nanoisland/graphene hybrid composites and its high stability and catalytic activity in methanol electro-oxidation. Nanoscale Research Letters, 2011, 6, 551.	3.1	108
453	Growth and characterization of graphene by chemical reduction of graphene oxide in solution. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 2335-2338.	0.8	19
454	Disorder scattering in graphene nanoribbons. Physica Status Solidi (B): Basic Research, 2011, 248, 2598-2603.	0.7	11
455	Theory and model analysis of spin relaxation time in graphene — Could it be used for spintronics?. Physica Status Solidi (B): Basic Research, 2011, 248, 2631-2634.	0.7	11
456	Scanning tunneling microscopy and spectroscopy of graphene on insulating substrates. Physica Status Solidi (B): Basic Research, 2011, 248, 2423-2434.	0.7	35

# 457	ARTICLE Structural and Electronic Properties of Fluorographene. Small, 2011, 7, 965-969.	IF 5.2	CITATIONS
458	Effect of Nitrophenyl Functionalization on the Magnetic Properties of Epitaxial Graphene. Small, 2011, 7, 1175-1180.	5.2	65
459	Synthesis and Drugâ€Delivery Behavior of Chitosanâ€Functionalized Graphene Oxide Hybrid Nanosheets. Macromolecular Materials and Engineering, 2011, 296, 131-140.	1.7	328
460	Roomâ€Temperature Compressionâ€Induced Diamondization of Fewâ€Layer Graphene. Advanced Materials, 2011, 23, 3014-3017.	11.1	124
461	Progress in Modeling Graphene: The Novel Features of this Material. Advanced Materials, 2011, 23, 5324-5326.	11.1	3
462	A General Approach for the Growth of Metal Oxide Nanorod Arrays on Graphene Sheets and Their Applications. Chemistry - A European Journal, 2011, 17, 13912-13917.	1.7	66
463	Fabrication of metal-graphene hybrid materials by electroless deposition. Carbon, 2011, 49, 477-483.	5.4	104
464	The role of hydrocarbon concentration on the synthesis of large area few to multi-layer graphene structures. Chemical Physics Letters, 2011, 501, 390-395.	1.2	21
465	Band structures of carbon nanotube with spin–orbit coupling interaction. Physica B: Condensed Matter, 2011, 406, 104-107.	1.3	4
466	Exploring nanoscale magnetism in advanced materials with polarized X-rays. Materials Science and Engineering Reports, 2011, 72, 81-95.	14.8	18
467	Quantification and minimization of disorder caused by focused electron beam induced deposition of cobalt on graphene. Microelectronic Engineering, 2011, 88, 2063-2065.	1.1	5
468	Magnetoresistance in graphene-based multi-layers structure with the spatially modulated strength of spin–orbit interactions. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 884-888.	1.3	12
469	Effects of band gap opening on an n–p–n bilayer graphene junction. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 1061-1064.	1.3	2
470	Molecular spintronics. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 1295-1317.	1.3	67
471	Crossed Andreev reflection in graphene normal–superconductor–normal structures with pseudo-diffusive interfaces. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 1339-1343.	0.9	9
472	Controllable spin filter composed of ferromagnetic AB-stacking bilayer graphenes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 2858-2862.	0.9	9
473	Enhanced spin polarization in an asymmetric magnetic graphene superlattice. Solid State Communications, 2011, 151, 1131-1134.	0.9	12
474	Strain-induced pseudo-magnetic fields and charging effects on CVD-grown graphene. Surface Science, 2011, 605, 1649-1656.	0.8	57

# 475	ARTICLE Spin–orbit splitting in graphene on metallic substrates. Journal of Physics Condensed Matter, 2011, 23, 225502.	IF 0.7	CITATIONS 28
476	Nanometer-scale lithography on microscopically clean graphene. Nanotechnology, 2011, 22, 505303.	1.3	26
477	Electrical spin injection and transport in germanium. Physical Review B, 2011, 84, .	1.1	158
478	Spin relaxation properties in graphene due to its linear dispersion. Physical Review B, 2011, 84, .	1.1	68
479	Stable canted magnetization in Co thin films on highly oriented pyrolytic graphite induced by template defects. Applied Physics Letters, 2011, 99, .	1.5	9
480	Spin precession and inverted Hanle effect in a semiconductor near a finite-roughness ferromagnetic interface. Physical Review B, 2011, 84, .	1.1	174
481	Weak ferromagnetism of antiferromagnetic domains in graphene with defects. Physical Review B, 2011, 84, .	1.1	8
482	Spin Transport in theXXZChain at Finite Temperature and Momentum. Physical Review Letters, 2011, 107, 250602.	2.9	64
483	Controlling doping in graphene through a SiC substrate: A first-principles study. Physical Review B, 2011, 83, .	1.1	27
484	Scalable nanoimprint patterning of thin graphitic oxide sheets and <i>in situ</i> reduction. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2011, 29, 011023.	0.6	6
485	Graphene based nickel nanocrystal flash memory. Applied Physics Letters, 2011, 99, .	1.5	27
486	Edge shape effect on vibrational modes in graphene nanoribbons: A numerical study. Journal of Applied Physics, 2011, 109, .	1.1	33
487	Electron spin diffusion and transport in graphene. Physical Review B, 2011, 84, .	1.1	34
488	High Chern number quantum anomalous Hall phases in single-layer graphene with Haldane orbital coupling. Physical Review B, 2011, 84, .	1.1	40
489	Room-temperature spin-dependent tunneling through molecules. Applied Physics Letters, 2011, 98, 172501.	1.5	15
490	Spin transport in bilayer graphene. Journal of Applied Physics, 2011, 109, 013706.	1.1	15
491	Metallic and insulating adsorbates on graphene. Applied Physics Letters, 2011, 98, .	1.5	46
492	Transport in graphene tunnel junctions. Journal of Applied Physics, 2011, 109, .	1.1	22

		CITATION R	EPORT	
#	Article		IF	CITATIONS
493	Trends in charge transfer and spin alignment of metallocene on graphene. Physical Review	w B, 2011, 83, .	1.1	15
494	Effect of sublattice asymmetry and spin-orbit interaction on out-of-plane spin polarization photoelectrons. Physical Review B, 2011, 83, .	n of	1.1	17
495	Interacting electrons in graphene nanoribbons in the lowest Landau level. Physical Reviev	v B, 2011, 84, .	1.1	13
496	Canted magnetization in Fe thin films on highly oriented pyrolytic graphite. Journal of Ap 2011, 110, .	plied Physics,	1.1	7
497	The effect of doping on the energetics and quantum conductance in graphene nanoribbo metallocene adsorbate. Journal of Chemical Physics, 2011, 135, 124708.	ons with a	1.2	13
498	Nonlinear interaction of spin and charge currents in graphene. Physical Review B, 2011, 8	84,.	1.1	25
499	Magnetoresistance of Fe3O4-graphene-Fe3O4 junctions. Applied Physics Letters, 2011, 9	98, 052511.	1.5	17
500	Geometrical effects on spin injection: 3D spin drift diffusion model. Journal of Applied Phy 109, 124303.	ysics, 2011,	1.1	6
501	Epitaxial growth and characterization of graphene on free-standing polycrystalline 3C-SiC Applied Physics, 2011, 110, 014308.	C. Journal of	1.1	22
502	Direct graphene growth on MgO(111) by physical vapor deposition: interfacial chemistry formation. , 2011, , .	and band gap		6
503	Graphene as a non-magnetic spin current lens. Journal of Physics Condensed Matter, 201	.1, 23, 175302.	0.7	4
504	CVD Growth of Graphene on Three Types of Epitaxial Metal Films on Sapphire Substrate. Research Society Symposia Proceedings, 2011, 1284, 11.	Materials	0.1	0
505	First-principles study of an iron-based molecule grafted on graphene. Europhysics Letters 57001.	, 2011, 96,	0.7	6
506	Graphene for Magnetoresistive Junctions. Materials Research Society Symposia Proceedin 87.	ngs, 2011, 1284,	0.1	0
507	Transport Properties of Graphene with Nanoscale Lateral Resolution. Nanoscience and Te 2011, , 247-285.	chnology,	1.5	9
508	Reconfigurable nanoelectronics using graphene based spintronic logic gates. Proceeding 2011, , .	s of SPIE,	0.8	6
509	SHOT NOISE IN NORMAL-FERROMAGNETIC-NORMAL GRAPHENE. International Journal of B, 2011, 25, 3281-3288.	<sup>*</sup> Modern Physics	1.0	4
510	FANO-TYPE SPIN-FLIP MESOSCOPIC TRANSPORT THROUGH AN AHARONOV–BOHM IN RESPONDED BY AC MAGNETIC FIELDS. International Journal of Modern Physics B, 2011, 2	ITERFEROMETER 25, 1511-1530.	1.0	1

#	Article	IF	CITATIONS
511	Tunnel anisotropic magnetoresistance in graphene with Rashba spin–orbit interaction. Journal of Physics Condensed Matter, 2011, 23, 435302.	0.7	11
512	First-principles studies of Pb doping in graphene: stability, energy gap and spin–orbit splitting. New Journal of Physics, 2011, 13, 123018.	1.2	23
513	SPIN-ORBIT COUPLING IN GRAPHENE UNDER UNIAXIAL STRAIN: TIGHT-BINDING APPROACH AND FIRST-PRINCIPLES CALCULATIONS. Modern Physics Letters B, 2011, 25, 823-830.	1.0	5
514	Semiconductor–Metal Transition and Band-Gap Tuning in Quasi-Free-Standing Epitaxial Bilayer Graphene on SiC. Journal of the Physical Society of Japan, 2011, 80, 024705.	0.7	17
515	Silicon intercalation at the interface of graphene and Ir(111). Applied Physics Letters, 2012, 100, .	1.5	67
516	Structural Consequences of Duplicitous Chemical Relation of Cobalt and Fullerene in Mixture. Fullerenes Nanotubes and Carbon Nanostructures, 2012, 20, 328-335.	1.0	1
517	Energy spectrum and Landau levels in bilayer graphene with spin–orbit interaction. New Journal of Physics, 2012, 14, 093026.	1.2	27
518	Edge States of Monolayer and Bilayer Graphene Nanoribbons. Journal of the Physical Society of Japan, 2012, 81, 024704.	0.7	17
519	Electronic structures and vibrational properties of coronene on Ru(0001): first-principles study. Chinese Physics B, 2012, 21, 036801.	0.7	4
520	Modulation Effects of Periodic Potentials on the Electronic Properties of Bilayer Bernal Graphene: Tight-Binding Model. Journal of the Physical Society of Japan, 2012, 81, 014705.	0.7	2
521	Quantum oscillations and ferromagnetic hysteresis observed in iron filled multiwall carbon nanotubes. Nanotechnology, 2012, 23, 015707.	1.3	13
522	Magnon scattering in single and bilayer graphene intercalates. Journal of Applied Physics, 2012, 112, 114308.	1.1	1
523	Homogeneous pinhole free 1 nm Al2O3 tunnel barriers on graphene. Applied Physics Letters, 2012, 101, .	1.5	25
524	Ferromagnetic fluctuation in doped armchair graphene nanoribbons. Journal of Applied Physics, 2012, 112, 073922.	1.1	6
525	Molecular Spintronics. Solid State Phenomena, 0, 189, 95-127.	0.3	1
526	Spin separation in a zigzag graphene nanoribbon junction. Physical Review B, 2012, 86, .	1.1	9
527	Magnetoresistance and shot noise in graphene-based nanostructure with effective exchange field. Journal of Applied Physics, 2012, 112, 123719.	1.1	12
528	Spin polarization dependence of quasiparticle properties in graphene. Physical Review B, 2012, 85, .	1.1	5

		CITATION REPORT		
#	Article		IF	CITATIONS
529	Magnetoresistance in fcc Ni/graphene/fcc Ni(111) junctions. Physical Review B, 2012,	85,.	1.1	9
530	Evidence for spin memory in the electron phase coherence in graphene. Physical Revie	w B, 2012, 86, .	1.1	25
531	Effects of biaxial strains on the magnetic properties of Co-graphene heterojunctions. Ja Applied Physics, 2012, 111, .	ournal of	1.1	3
532	Unidirectional ripples in strained graphene nanoribbons with clamped edges at zero ar temperatures. Physical Review B, 2012, 86, .	nd finite	1.1	63
533	Testing the Elliott-Yafet spin-relaxation mechanism in KC8: A model system of biased g Review B, 2012, 85, .	raphene. Physical	1.1	14
534	Effect of gadolinium adatoms on the transport properties of graphene. Physical Reviev	v B, 2012, 86, .	1.1	16
535	Efficient spin injection in graphene using electron optics. Physical Review B, 2012, 86,		1.1	15
536	Formation of nitrogen-vacancy complexes during plasma-assisted nitrogen doping of e graphene on SiC(0001). Applied Physics Letters, 2012, 100, 233119.	pitaxial	1.5	11
537	Bias-dependent D'yakonov-Perel' spin relaxation in bilayer graphene. Physical F	leview B, 2012, 85, .	1.1	9
538	Electron spin relaxation in rippled graphene with low mobilities. Journal of Applied Phys 073709.	sics, 2012, 112,	1.1	12
539	Multi-oriented moir $\tilde{A}$ superstructures of graphene on Ir(111): experimental observat theoretical models. Journal of Physics Condensed Matter, 2012, 24, 314214.	ions and	0.7	60
540	Investigation of the inverted Hanle effect in highly doped Si. Physical Review B, 2012, 3	86,.	1.1	57
541	Direct graphene growth on Co <sub>3</sub> O <sub>4</sub> (111) by molecular beam Physics Condensed Matter, 2012, 24, 072201.	epitaxy. Journal of	0.7	18
542	Direct growth of graphene on nitride and oxide substrates. , 2012, , .			0
543	Spin transport in graphene: Fundamental concepts and practical implications. , 2012,			0
544	Effective Control of the Charge and Magnetic States of Transition-Metal Atoms on Sin Nitride. Physical Review Letters, 2012, 108, 206802.	gle-Layer Boron	2.9	135
545	SUBSTRATE MODULATED GRAPHENE QUANTUM DOTS. Modern Physics Letters B, 20	12, 26, 1250162.	1.0	2
546	Disorder-free sputtering method on graphene. AIP Advances, 2012, 2, .		0.6	31

	CHAHON R		
#	Article	IF	CITATIONS
547	Towards coherent spin precession in pure-spin current. Scientific Reports, 2012, 2, 628.	1.6	18
548	Ca intercalated bilayer graphene as a thinnest limit of superconducting C <sub>6</sub> Ca. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19610-19613.	3.3	132
549	New effects in graphene with high carrier mobility. Physics-Uspekhi, 2012, 55, 408-412.	0.8	9
550	Pure spin current generation in monolayer graphene by quantum pumping. Journal of Physics Condensed Matter, 2012, 24, 075302.	0.7	13
551	Precise control of single- and bi-layer graphene growths on epitaxial Ni(111) thin film. Journal of Applied Physics, 2012, 111, 064324.	1.1	21
552	Imaging spin properties using spatially varying magnetic fields. Journal of Applied Physics, 2012, 111, 013902.	1.1	5
553	Electronic and magnetic properties of oxygen patterned graphene superlattice. Journal of Applied Physics, 2012, 112, .	1.1	10
554	Applying Large-Area Molecular Technology to Improve Magnetoresistive Performance of Hybrid Molecular Spin Valves. Applied Physics Express, 2012, 5, 063006.	1.1	1
555	The electronic structure of ideal graphene. , 2012, , 1-22.		4
556	Electron states in a magnetic field. , 0, , 23-62.		0
557	Quantum transport via evanescent waves. , 0, , 63-76.		0
558	Edges, nanoribbons and quantum dots. , 0, , 103-133.		0
559	Optics and response functions. , 2012, , 161-184.		2
560	Crystal lattice dynamics, structure and thermodynamics. , 0, , 205-242.		1
561	Gauge fields and strain engineering. , 0, , 243-265.		0
562	Scattering mechanisms and transport properties. , 0, , 266-300.		0
563	Spin-inversion in nanoscale graphene sheets with a Rashba spin-orbit barrier. AIP Advances, 2012, 2, .	0.6	16
564	Effects of electrostatic potential on spin-inversion in nano-scale graphene sheets with a single Rashba spin-orbit barrier. Micro and Nano Letters, 2012, 7, 790.	0.6	3

		EPORT	
#	Article	IF	Citations
565	Discrete breathers in strained graphene. Nonlinear Theory and Its Applications IEICE, 2012, 3, 77-86.	0.4	2
566	Effects of Cu intercalation on the graphene/Ni(111) surface: Density-functional calculations. Journal of the Korean Physical Society, 2012, 61, 589-593.	0.3	5
567	Recent developments on graphene and graphene oxide based solid state gas sensors. Sensors and Actuators B: Chemical, 2012, 173, 1-21.	4.0	631
568	Giant Rashba splitting in graphene due to hybridization with gold. Nature Communications, 2012, 3, 1232.	5.8	330
569	Defects and localization in chemically-derived graphene. Physical Review B, 2012, 86, .	1.1	36
570	Magnetic Moment Formation in Graphene Detected by Scattering of Pure Spin Currents. Physical Review Letters, 2012, 109, 186604.	2.9	262
571	Generation of large spin currents in graphene using adiabatic quantum pumping. Journal of Applied Physics, 2012, 112, 073701.	1.1	8
572	Symmetry-dependent transport properties and bipolar spin filtering in zigzag <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"&gt;<mml:mi>α</mml:mi>-graphyne nanoribbons. Physical Review B, 2012, 86, .</mml:math 	1.1	59
573	On the origin of decay of spin current with temperature in organic spintronic devices. Organic Electronics, 2012, 13, 2653-2658.	1.4	24
574	Interaction of Graphene and Arenes with Noble Metals. Journal of Physical Chemistry C, 2012, 116, 14151-14162.	1.5	45
575	Bottom-up synthesis of large-scale graphene oxide nanosheets. Journal of Materials Chemistry, 2012, 22, 5676.	6.7	242
576	Amide Functionalization of Graphene and Carbon Nanotubes: Coverage- and Pattern-Dependent Electronic and Magnetic Properties. Journal of Physical Chemistry C, 2012, 116, 13722-13730.	1.5	20
577	Graphene-based ferromagnetic superconductors. Applied Physics Letters, 2012, 101, 252602.	1.5	8
578	Contact-induced spin polarization in graphene/ <i>h</i> -BN/Ni nanocomposites. Journal of Applied Physics, 2012, 112, .	1.1	20
579	Electrical Spin Injection into InN Semiconductor Nanowires. Nano Letters, 2012, 12, 4437-4443.	4.5	36
580	Size effect of spin-polarized transport in FM/Single-walled carbon nanotube/FM junctions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 3295-3300.	0.9	2
581	Spin-dependent transport properties through gapless graphene-based ferromagnet and gapped graphene-based superconductor junction. Journal of Applied Physics, 2012, 112, .	1.1	11
582	Electronic and Quantum Transport Properties of Heterobilayers of Graphene Nanoribbons and Zinc-Porphyrin Tapes. Journal of Physical Chemistry C, 2012, 116, 8167-8173.	1.5	6

	C	itation Report	
#	Article	IF	CITATIONS
583	Spin-polarized transport in graphene nanoribbon superlattices. Chinese Physics B, 2012, 21, 107202	. 0.7	9
584	Ferromagnetic Schottky junctions using diamond semiconductors. Diamond and Related Materials, 2012, 25, 159-162.	1.8	4
585	First-principles study on the atomic and electronic structures of graphene-protected magnetic Fe/Ni(111) thin film. Current Applied Physics, 2012, 12, S37-S40.	1.1	1
586	Dynamic spin injection into chemical vapor deposited graphene. Applied Physics Letters, 2012, 101,	. 1.5	43
587	Spin and charge zero-bias conductance peak in a graphene-based Fd junction. Journal of Applied Physics, 2012, 112, 113910.	1.1	5
588	Optimized spin relaxation length in few layer graphene at room temperature. , 2012, , .		7
589	Influence of electron-electron scattering on spin relaxation length in single and bilayer graphene. , 2012, , .		0
590	Controlled Positioning of Nanoparticles on Graphene by Noninvasive AFM Lithography. Langmuir, 2012, 28, 12400-12409.	1.6	13
591	Tunable synthesis of carbon nanosheet/silicon nanowire hybrids for field emission applications. Diamond and Related Materials, 2012, 26, 83-88.	1.8	11
592	Graphene-diamond interface: Gap opening and electronic spin injection. Physical Review B, 2012, 85	. 1.1	95
593	Carrier-mediated long-range ferromagnetism in electron-doped Fe-C <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"&gt;<mml:msub><mml:mrow /&gt;<mml:mn>4</mml:mn></mml:mrow </mml:msub>and Fe-N<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"&gt;<mml:msub><mml:mrow< td=""><td>1.1</td><td>50</td></mml:mrow<></mml:msub></mml:math </mml:math 	1.1	50
594	Elliot-Yafet Mechanism in Graphene. Physical Review Letters, 2012, 108, 206808.	., 00, . 2.9	114
595	Intersubunit Electron Transfer (IET) in Quantum Dots/Graphene Complex: What Features Does IET Endow the Complex with?. Journal of Physical Chemistry C, 2012, 116, 15833-15838.	1.5	28
596	Discrete breather clusters in strained graphene. Europhysics Letters, 2012, 100, 36005.	0.7	67
597	Manifestation of the shape and edge effects in spin-resolved transport through graphene quantum dots. Physical Review B, 2012, 85, .	1.1	24
598	Microstructure evolution of diazonium functionalized graphene: A potential approach to change graphene electronic structure. Journal of Materials Chemistry, 2012, 22, 2063-2068.	6.7	38
599	Evidence for Spin-Flip Scattering and Local Moments in Dilute Fluorinated Graphene. Physical Review Letters, 2012, 108, 226602.	2.9	115
600	Valley-dependent tunneling in a monolayer gapped graphene without strain. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 1617-1622.	1.3	5

		CITATION REPORT		
#	Article		IF	Citations
601	Integrating functional oxides with graphene. Solid State Communications, 2012, 152,	1365-1374.	0.9	37
602	Bipolar-unipolar transition in thermospin transport through a graphene-based transisto Physics Letters, 2012, 101, 083117.	br. Applied	1.5	17
603	First-Principles Investigation of Bilayer Fluorographene. Journal of Physical Chemistry C 19240-19245.	, 2012, 116,	1.5	43
604	Hydrogen-induced reversal of spin alignment in graphene supported on Ni(111) surfac B, 2012, 86, .	e. Physical Review	1.1	12
605	Graphene supported nano particles of Pt–Ni for CO oxidation. Applied Surface Scien 7795-7800.	ce, 2012, 258,	3.1	49
606	Simulation of ripples in single layer graphene sheets and study of their vibrational and properties. Computational Materials Science, 2012, 51, 96-102.	elastic	1.4	18
607	Ultimate strength, ripples, sound velocities, and density of phonon states of strained g Computational Materials Science, 2012, 53, 194-203.	graphene.	1.4	40
608	Graphene: An Emerging Electronic Material. Advanced Materials, 2012, 24, 5782-5825		11.1	718
609	Spin rotator and shot noise in graphene-based multi-barrier nanostructure. European F Journal B, 2012, 85, 1.	hysical	0.6	3
610	Graphene quantum dots: emergent nanolights for bioimaging, sensors, catalysis and p devices. Chemical Communications, 2012, 48, 3686.	hotovoltaic	2.2	1,845
611	Graphene field-effect transistors. Journal Physics D: Applied Physics, 2012, 45, 019501		1.3	29
612	Graphene and Its Synthesis. , 2012, , 415-438.			10
613	Transport through graphene quantum dots. Reports on Progress in Physics, 2012, 75,	126502.	8.1	143
614	Enabling graphene-based technologies: Toward wafer-scale production of epitaxial gra Bulletin, 2012, 37, 1149-1157.	phene. MRS	1.7	45
615	Adsorption of cobalt on graphene: Electron correlation effects from a quantum chemic perspective. Physical Review B, 2012, 86, .	cal	1.1	71
616	Dynamic RKKY interaction in graphene. Physical Review B, 2012, 85, .		1.1	43
617	Spin-dependent electron transport in graphene junctions in the presence of Rashba sp interaction. Journal of Applied Physics, 2012, 112, .	in-orbit	1.1	13
618	Spin Dynamics and Relaxation in Graphene Nanoribbons: Electron Spin Resonance Pro 2012, 6, 7615-7623.	bing. ACS Nano,	7.3	35

#	Article	IF	Citations
619	HALF-METALLIC SILICENE AND GERMANENE NANORIBBONS: TOWARDS HIGH-PERFORMANCE SPINTRONICS DEVICE. Nano, 2012, 07, 1250037.	0.5	105
620	Alternative State Variables for Graphene Transistors. , 2012, , 93-111.		0
621	Transport of Novel State Variables. , 2012, , 113-136.		0
622	Production and processing of graphene and 2d crystals. Materials Today, 2012, 15, 564-589.	8.3	866
623	Contact-induced spin relaxation in Hanle spin precession measurements. Physical Review B, 2012, 86, .	1.1	82
624	Long-distance spin transport in high-mobility graphene on hexagonal boron nitride. Physical Review B, 2012, 86, .	1.1	189
625	Electron spin relaxation in graphene with random Rashba field: comparison of the D'yakonov–Perel' and Elliott–Yafet-like mechanisms. New Journal of Physics, 2012, 14, 033015.	1.2	87
626	Electronic Energy Band and Transport Properties in Monolayer Graphene with Periodically Modulated Magnetic Vector Potential and Electrostatic Potential. Communications in Theoretical Physics, 2012, 57, 315-319.	1.1	5
627	Spin-polarized transport in a normal/ferromagnetic/normal zigzag graphene nanoribbon junction. Chinese Physics B, 2012, 21, 017203.	0.7	12
628	Strain enhanced spin polarization in graphene with Rashba spin-orbit coupling and exchange effects. Journal of Applied Physics, 2012, 111, 033705.	1.1	12
629	The universal definition of spin current. Scientific Reports, 2012, 2, 388.	1.6	25
630	Nonequilibrium Green's function techniques in current–voltage calculations of nanoscale materials. Indian Journal of Physics, 2012, 86, 977-987.	0.9	7
631	Spin polarization and magnetoresistance through a ferromagnetic barrier in bilayer graphene. Journal of Physics Condensed Matter, 2012, 24, 045303.	0.7	9
632	Observation of resistively detected hole spin resonance and zero-field pseudo-spin splitting in epitaxial graphene. Nature Communications, 2012, 3, 996.	5.8	63
633	Magnetoresistance in graphene-based ferromagnetic/ferromagnetic barrier/superconductor junction. Journal of Applied Physics, 2012, 111, .	1.1	5
634	Electrically-Generated Pure Spin Current in Graphene. Japanese Journal of Applied Physics, 2012, 51, 08KA01.	0.8	1
635	Spin-dependent transport induced by magnetization in zigzag graphene nanoribbons coupled to one-dimensional leads. Chinese Physics B, 2012, 21, 017305.	0.7	1
636	Iron-mediated growth of epitaxial graphene on SiC and diamond. Carbon, 2012, 50, 5099-5105.	5.4	34
#	Article	IF	CITATIONS
-----	---	-----	-----------
637	Second harmonic generation in multilayer graphene induced by direct electric current. Physical Review B, 2012, 85, .	1.1	105
638	Facile fabrication of graphene devices through metalloporphyrin induced photocatalytic reduction. RSC Advances, 2012, 2, 4120.	1.7	19
639	Topological insulator-graphene junction for spin transport. Applied Physics Letters, 2012, 101, 243102.	1.5	2
640	Liquid phase growth of graphene on silicon carbide. Carbon, 2012, 50, 5076-5084.	5.4	18
641	Perpendicular magnetic anisotropy of cobalt films intercalated under graphene. Applied Physics Letters, 2012, 101, .	1.5	82
642	Experimental evidence on the Altshuler-Aronov-Spivak interference of the topological surface states in the exfoliated Bi2Te3 nanoflakes. Applied Physics Letters, 2012, 100, .	1.5	18
643	Spintronics with graphene. MRS Bulletin, 2012, 37, 1245-1254.	1.7	112
644	Analytical models of approximations for wave functions and energy dispersion in zigzag graphene nanoribbons. Journal of Applied Physics, 2012, 111, 074318.	1.1	8
645	Size-Selected Epitaxial Nanoislands Underneath Graphene Moiré on Rh(111). ACS Nano, 2012, 6, 151-158.	7.3	105
646	Spin-orbit coupling in graphene structures. , 2012, , .		1
647	Analytical dispersion relations of three graphynes. Physica B: Condensed Matter, 2012, 407, 4387-4390.	1.3	14
648	Graphene nanoring as a tunable source of polarized electrons. Nanotechnology, 2012, 23, 205202.	1.3	20
649	DFT investigations of the hydrogenation effect on silicene/graphene hybrids. Journal of Physics Condensed Matter, 2012, 24, 485502.	0.7	42
650	Graphene Doped Molecularly Imprinted Electrochemical Sensor for Uric Acid. Analytical Letters, 2012, 45, 2717-2727.	1.0	25
651	Wigner crystallization of quadratically dispersing electrons in graphene. International Journal of Quantum Chemistry, 2012, 112, 1725-1736.	1.0	0
652	Strainâ€induced ripples in graphene nanoribbons with clamped edges. Physica Status Solidi (B): Basic Research, 2012, 249, 1393-1398.	0.7	45
653	Tunable Spin–Orbit Interaction in Trilayer Graphene Exemplified in Electric-Double-Layer Transistors. Nano Letters, 2012, 12, 2212-2216.	4.5	19
654	Graphene As a Tunnel Barrier: Graphene-Based Magnetic Tunnel Junctions. Nano Letters, 2012, 12, 3000-3004.	4.5	199

		CITATION R	EPORT	
#	Article		IF	CITATIONS
655	Ni/graphene/Ni nanostructures for spintronic applications. Nanoscale, 2012, 4, 986.		2.8	46
656	Long Spin Relaxation Times in Wafer Scale Epitaxial Graphene on SiC(0001). Nano Let 1498-1502.	ters, 2012, 12,	4.5	121
657	Temperature dependent spin precession measurements in trilayer graphene utilizing c contacts. Journal of Vacuum Science and Technology B:Nanotechnology and Microelec 30, 03D115.	o/graphene ctronics, 2012,	0.6	8
658	Spintronics and pseudospintronics in graphene and topological insulators. Nature Mat 409-416.	terials, 2012, 11,	13.3	934
659	Enhancement of spin injection from ferromagnet to graphene with a Cu interfacial lay Physics Letters, 2012, 101, .	er. Applied	1.5	20
660	Graphene-Based Normal/Ferromagnetic/Normal Junction as a Polarizer. International Jo Theoretical Physics, 2012, 51, 1989-1996.	ournal of	0.5	4
661	Nonlinear detection of spin currents in graphene with non-magnetic electrodes. Natur 8, 313-316.	e Physics, 2012,	6.5	46
662	Graphene oxide and its reduction: modeling and experimental progress. RSC Advances	s, 2012, 2, 2643.	1.7	463
663	Spin and valley dependent electronic transport in strain engineered graphene. Journal Physics, 2012, 111, .	of Applied	1.1	36
664	Layerâ€Controlled and Waferâ€Scale Synthesis of Uniform and Highâ€Quality Graphe Polycrystalline Nickel Catalyst. Advanced Functional Materials, 2012, 22, 3153-3159.	ne Films on a	7.8	93
665	Covalent Functionalization of Strained Graphene. ChemPhysChem, 2012, 13, 1463-14	169.	1.0	38
666	Highly efficient spin transport in epitaxial graphene on SiC. Nature Physics, 2012, 8, 5	57-561.	6.5	392
667	Tuning the magnetic and transport properties of metal adsorbed graphene by co-adso 1,2-dichlorobenzene. Physical Chemistry Chemical Physics, 2012, 14, 11626.	rption with	1.3	20
668	Spin Transport in High-Quality Suspended Graphene Devices. Nano Letters, 2012, 12,	3512-3517.	4.5	145
669	Giant magnetoresistance in silicene nanoribbons. Nanoscale, 2012, 4, 3111.		2.8	216
670	Atomic and electronic structure of simple metal/graphene and complex metal/graphene interfaces. Physical Review B, 2012, 85, .	e/metal	1.1	72
671	Clustering and magnetic anisotropy of Fe adatoms on graphene. Physical Review B, 20	)12, 85, .	1.1	29
672	Magnetic structure of hydrogen-induced defects on graphene. Physical Review B, 2012	2, 85, .	1.1	46

#	Article	IF	CITATIONS
673	Investigation on microstructure and thermal properties of graphene-nanoplatelet/palmitic acid composites. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	4
674	The preparation of graphene hybrid films decorated with poly[2-methoxy-5-(2′-ethyl-hexyloxy)-1,4-phenylene vinylene] particles prepared by non-solvent induced precipitation. Carbon, 2012, 50, 216-224.	5.4	28
675	The effect of downstream plasma treatments on graphene surfaces. Carbon, 2012, 50, 395-403.	5.4	95
676	Strong spin–orbit splitting in graphene with adsorbed Au atoms. Carbon, 2012, 50, 297-305.	5.4	76
677	Influence of chemisorption on the thermal conductivity of graphene nanoribbons. Carbon, 2012, 50, 421-428.	5.4	49
678	Covalent functionalization of graphene with organosilane and its use as a reinforcement in epoxy composites. Composites Science and Technology, 2012, 72, 737-743.	3.8	342
679	Excellent electrochemical performance of graphene-silver nanoparticle hybrids prepared using a microwave spark assistance process. Electrochimica Acta, 2012, 74, 207-214.	2.6	43
680	Local structures and magnetic properties of FullereneCo systems studied by XAFS and XMCD analyses. Journal of Electron Spectroscopy and Related Phenomena, 2012, 185, 32-38.	0.8	2
681	Atomic and electronic structures of divacancy in graphene nanoribbons. Physica B: Condensed Matter, 2012, 407, 204-208.	1.3	7
682	Spin transport and relaxation in graphene. Journal of Magnetism and Magnetic Materials, 2012, 324, 369-381.	1.0	128
683	Tunnel spin injection into graphene using Al2O3 barrier grown by atomic layer deposition on functionalized graphene surface. Journal of Magnetism and Magnetic Materials, 2012, 324, 849-852.	1.0	31
684	Graphene Nanoribbon Spin Interconnects for Nonlocal Spin-Torque Circuits: Comparison of Performance and Energy Per Bit With CMOS Interconnects. IEEE Transactions on Electron Devices, 2012, 59, 51-59.	1.6	16
685	Velocities of sound and the densities of phonon states in a uniformly strained flat graphene sheet. Physics of the Solid State, 2012, 54, 866-874.	0.2	34
686	Free-standing optoelectronic graphene–CdS–graphene oxide composite paper produced by vacuum-assisted self-assembly. Applied Physics A: Materials Science and Processing, 2012, 106, 779-784.	1.1	8
688	Spin-Controlled Superconductivity and Tunable Triplet Correlations in Graphene Nanostructures. Physical Review Letters, 2013, 111, 046602.	2.9	46
689	Ferromagnetic Schottky junctions using half-metallic Co2MnSi/diamond heterostructures. Applied Physics Letters, 2013, 103, 052408.	1.5	8
690	Spin valve effect of NiFe/graphene/NiFe junctions. Nano Research, 2013, 6, 373-380.	5.8	79
691	The graphene/Au/Ni interface and its application in the construction of a graphene spin filter. Nanotechnology, 2013, 24, 295201.	1.3	16

#	Article	IF	CITATIONS
692	Enhanced magnetoresistance in graphene nanostructure modulated by effective exchange field and Fermi velocity. Journal of Applied Physics, 2013, 113, 183704.	1.1	11
693	An investigation on high-temperature electrical transport properties of graphene-oxide nano-thinfilms. Applied Surface Science, 2013, 280, 903-908.	3.1	17
694	Interaction between graphene layers and the mechanisms of graphite's superlubricity and self-retraction. Nanoscale, 2013, 5, 6736.	2.8	53
695	Spin filtering in graphene nanoribbons with Mn-doped boron nitride inclusions. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2013, 178, 1347-1351.	1.7	21
696	The transport of spin electron through a right-angle graphene nanojunction. Physica B: Condensed Matter, 2013, 409, 30-34.	1.3	0
697	Multiple Extraction Spin Valves for Spintronic Circuits. IEEE Transactions on Magnetics, 2013, 49, 4367-4370.	1.2	1
698	Spin orientation transition across the single-layer graphene/nickel thin film interface. Journal of Materials Chemistry C, 2013, 1, 5533.	2.7	32
699	Effect of temperature, electric and magnetic field on spin relaxation in bilayer graphene. Journal of Computational Electronics, 2013, 12, 448-453.	1.3	2
700	Transport through quantum spin Hall insulator/metal junctions in graphene ribbons. Journal of Computational Electronics, 2013, 12, 63-75.	1.3	13
701	Spin Pumping in Permalloy/Graphene and Permalloy/Graphite Interfaces. IEEE Transactions on Magnetics, 2013, 49, 3147-3150.	1.2	9
702	Electronic and spin transport properties of graphene nanoribbon mediated by metal adatoms: a study by the QUAMBO–NEGF approach. Journal of Physics Condensed Matter, 2013, 25, 105302.	0.7	7
703	Spin-Dependent Electron Transport in an Armchair Graphene Nanoribbon Subject to Charge and Spin Biases. Chinese Physics Letters, 2013, 30, 017201.	1.3	4
704	Theoretical assessment of graphene-metal contacts. Journal of Chemical Physics, 2013, 138, 244701.	1.2	58
705	Spin-resolved photoemission and <i>ab initio</i> theory of graphene/SiC. Physical Review B, 2013, 88, .	1.1	11
706	Soluble Reduced Graphene Oxide Sheets Grafted with Polypyridylruthenium-Derivatized Polystyrene Brushes as Light Harvesting Antenna for Photovoltaic Applications. ACS Nano, 2013, 7, 7992-8002.	7.3	36
707	Electrical Spin Injection and Detection in Mn <sub>5</sub> Ge <sub>3</sub> /Ge/Mn <sub>5</sub> Ge <sub>3</sub> Nanowire Transistors. Nano Letters, 2013, 13, 4036-4043.	4.5	54
708	Coherent transmission of nodal Dirac fermions through a graphene-based superconducting double barrier junction. Applied Physics A: Materials Science and Processing, 2013, 111, 619-628.	1.1	1
709	The deposition of Au–Pt core–shell nanoparticles on reduced graphene oxide and their catalytic activity. Nanotechnology, 2013, 24, 295402.	1.3	40

#	Article	IF	CITATIONS
710	Transition Metal Adsorption Promotes Patterning and Doping of Graphene by Electron Irradiation. Journal of Physical Chemistry C, 2013, 117, 17644-17649.	1.5	9
711	Carbon-based spintronics. Science China: Physics, Mechanics and Astronomy, 2013, 56, 207-221.	2.0	20
712	Strain engineering of magnetic states of vacancy-decorated hexagonal boron nitride. Applied Physics Letters, 2013, 103, .	1.5	47
713	Landau Levels and Edge States in Graphene with Strong Spin-Orbit Coupling. NATO Science for Peace and Security Series B: Physics and Biophysics, 2013, , 97-117.	0.2	0
714	Obtaining High Localized Spin Magnetic Moments by Fluorination of Reduced Graphene Oxide. ACS Nano, 2013, 7, 6729-6734.	7.3	94
715	A graphene-based large area surface-conduction electron emission display. Carbon, 2013, 56, 255-263.	5.4	43
716	Formation and field emission of patterned zinc oxide-adhering graphene cathodes. Vacuum, 2013, 89, 57-61.	1.6	15
717	Enhanced response to molecular adsorption of structurally defective graphene. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, 030602.	0.6	5
718	Tunable wavevector and spin filtering in graphene induced by resonant tunneling. Applied Physics Letters, 2013, 103, .	1.5	11
719	Spin polarization study of graphene on the Ni(111) surface by density functional theory calculations with a semiempirical long-range dispersion correction. Journal of Applied Physics, 2013, 114, 143713.	1.1	13
720	Carbon materials with quasi-graphene layers: The dielectric, percolation properties and the electronic transport mechanism. Chinese Physics B, 2013, 22, 037701.	0.7	15
721	Nitrogen-induced local spin polarization in graphene on cobalt. Journal of Magnetism and Magnetic Materials, 2013, 342, 144-148.	1.0	2
722	Enhanced spin accumulation at room temperature in graphene spin valves with amorphous carbon interfacial layers. Applied Physics Letters, 2013, 103, .	1.5	30
723	Revealing the ultrafast process behind the photoreduction of graphene oxide. Nature Communications, 2013, 4, 2560.	5.8	132
724	Realization of ferromagnetic graphene oxide with high magnetization by doping graphene oxide with nitrogen. Scientific Reports, 2013, 3, 2566.	1.6	97
725	Magneto-optical conductivity of graphene on polar substrates. Physical Review B, 2013, 88, .	1.1	43
726	Spin Transfer Torque in a Graphene Lateral Spin Valve Assisted by an External Magnetic Field. Nano Letters, 2013, 13, 5177-5181.	4.5	42
727	Role of MgO barriers for spin and charge transport in Co/MgO/graphene nonlocal spin-valve devices. Physical Review B, 2013, 88, .	1.1	71

#	Article	IF	Citations
728	SiC <sub>2</sub> Siligraphene and Nanotubes: Novel Donor Materials in Excitonic Solar Cells. Nano Letters, 2013, 13, 5431-5436.	4.5	205
729	Epitaxy of MgO magnetic tunnel barriers on epitaxial graphene. Nanotechnology, 2013, 24, 475708.	1.3	5
730	Spin-injection into epitaxial graphene on silicon carbide. Journal of Crystal Growth, 2013, 378, 385-387.	0.7	2
731	Chemically Engineered Graphene-Based 2D Organic Molecular Magnet. ACS Nano, 2013, 7, 10011-10022.	7.3	47
732	Spin Transport and Magnetic Correlation Parameters for Graphene-like Nanocarbon Sheets Doped with Nitrogen. Journal of Physical Chemistry C, 2013, 117, 27105-27113.	1.5	19
733	Spin conductance of diffusive graphene nanoribbons: A probe of zigzag edge magnetization. Physical Review B, 2013, 88, .	1.1	11
734	High-temperature ferromagnetism of helical carbon nanotubes. AIP Advances, 2013, 3, .	0.6	13
735	Strong many-body effects in silicene-based structures. Physical Review B, 2013, 88, .	1.1	67
736	ESR study of spin relaxation in graphene. Chemical Physics Letters, 2013, 557, 118-122.	1.2	45
737	Magnetic Moment and Anisotropy of Individual Co Atoms on Graphene. Physical Review Letters, 2013, 111, 236801.	2.9	116
738	Interface-Induced Room-Temperature Ferromagnetism in Hydrogenated Epitaxial Graphene. Physical Review Letters, 2013, 111, 166101.	2.9	84
739	Nonlocal magnetoresistance due to Lorentz force in linear transport region in bulk silicon. Applied Physics Letters, 2013, 103, .	1.5	17
740	Graphene-Based Magnetic Tunnel Junctions. IEEE Transactions on Magnetics, 2013, 49, 4343-4346.	1.2	34
741	Electron spin relaxation in bilayer graphene. Physical Review B, 2013, 87, .	1.1	10
742	Amorphous silicon-graphene anodes for lithium ion batteries. , 2013, , .		0
743	Monitoring of magnetism in passivated/terminated zigzag-edged triangular-shaped nanodisks. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	1
744	Hydrogenated BN monolayers: A first principles study. European Physical Journal B, 2013, 86, 1.	0.6	10
745	Rashba spin-orbit interaction in graphene armchair nanoribbons. European Physical Journal B, 2013, 86, 1.	0.6	21

#	Article	IF	Citations
746	Graphene $\hat{a} {\in} ``$ Properties and Characterization. , 2013, , 39-82.		7
747	Effect of spin-orbit couplings in graphene with and without potential modulation. Physical Review B, 2013, 88, .	1.1	36
748	Vertical organic spin valves in perpendicular magnetic fields. Physical Review B, 2013, 88, .	1.1	49
749	Vertical graphene spin valve with Ohmic contacts. Nanoscale, 2013, 5, 8894.	2.8	45
750	Indirect exchange of magnetic impurities in zigzag graphene ribbon. Journal of Applied Physics, 2013, 113, .	1.1	6
751	A unified theory of spin-relaxation due to spin-orbit coupling in metals and semiconductors. Scientific Reports, 2013, 3, 3233.	1.6	56
752	A trigonal planar network in hydrogenated epitaxial graphene: a ferromagnetic semiconductor. Journal of Materials Chemistry C, 2013, 1, 2696.	2.7	6
753	Intercalation of metals and silicon at the interface of epitaxial graphene and its substrates. Chinese Physics B, 2013, 22, 096803.	0.7	12
754	Organic spin-valves: from unipolar to bipolar devices. Physical Chemistry Chemical Physics, 2013, 15, 7967.	1.3	12
755	2D electronics: Graphene and beyond. , 2013, , .		17
756	Spin Transport in Bilayer Graphene Armchair Nanoribbon: A Monte Carlo Simulation Study. IEEE Transactions on Electron Devices, 2013, 60, 3734-3740.	1.6	2
757	Field effect transport properties of electrochemically prepared graphene quantum dots. , 2013, , .		2
758	Using Optical Anisotropy as a Quality Factor To Rapidly Characterize Structural Qualities of Large-Area Graphene Films. Analytical Chemistry, 2013, 85, 1605-1614.	3.2	11
759	Applications of Graphene. , 2013, , 333-437.		9
760	Properties of Graphene. , 2013, , 61-127.		9
761	Graphene and its derivatives for cell biotechnology. Analyst, The, 2013, 138, 72-86.	1.7	48
762	Epitaxial magnetic layers grown by MBE. , 2013, , 487-507.		4
763	Functional Hybrid Systems Based on Large-Area High-Quality Graphene. Accounts of Chemical Research, 2013, 46, 2193-2201.	7.6	28

#	Article	IF	CITATIONS
764	On chemical bonding and electronic structure of graphene–metal contacts. Chemical Science, 2013, 4, 494-502.	3.7	59
765	Rashba spin-orbit interaction and birefringent electron optics in graphene. Physical Review B, 2013, 87,	1.1	49
766	Electrical Detection of Spin Precession in Freely Suspended Graphene Spin Valves on Cross‣inked Poly(methyl methacrylate). Small, 2013, 9, 156-160.	5.2	39
767	Spin polarization of single-layer graphene epitaxially grown on Ni(111) thin film. Carbon, 2013, 61, 134-139.	5.4	16
768	Effects of external magnetic fields and Rashba spin-orbit coupling on spin conductance in graphene. Superlattices and Microstructures, 2013, 64, 418-426.	1.4	5
769	Fluorination Effects on Electronic and Magnetic Properties of Silicene/Graphene Hybrids. Journal of the Physical Society of Japan, 2013, 82, 104711.	0.7	13
770	Preparation of lateral spin-valve structure using doped conducting polymer poly(3,4-ethylenedioxythiophene) poly(styrenesulfonate). Organic Electronics, 2013, 14, 1869-1873.	1.4	10
771	Graphene oxide foams and their excellent adsorption ability for acetone gas. Materials Research Bulletin, 2013, 48, 3553-3558.	2.7	38
772	Structural and electronic properties of graphene-based junctions for spin-filtering: The graphene/Al/Ni(111) intercalation-like system. Applied Surface Science, 2013, 267, 8-11.	3.1	14
773	Colossal enhancement of spin–orbit coupling in weakly hydrogenated graphene. Nature Physics, 2013, 9, 284-287.	6.5	384
774	Spin splitting of Dirac fermions in aligned and rotated graphene on Ir(111). Physical Review B, 2013, 87, .	1.1	38
775	Electrical Spin Injection and Detection in Silicon Nanowires through Oxide Tunnel Barriers. Nano Letters, 2013, 13, 430-435.	4.5	26
776	Hanle effect missing in a prototypical organic spintronic device. Applied Physics Letters, 2013, 102, .	1.5	51
777	Electromechanical switching in graphene nanoribbons. Carbon, 2013, 51, 102-109.	5.4	32
778	Spin diffusion in fullerene-based devices: Morphology effect. Physical Review B, 2013, 87, .	1.1	49
779	Enhancement of spin relaxation time in hydrogenated graphene spin-valve devices. Physical Review B, 2013, 87, .	1.1	58
780	Localized States Influence Spin Transport in Epitaxial Graphene. Physical Review Letters, 2013, 110, 067209.	2.9	61
781	Electronic and optical properties of fluorinated graphene: A many-body perturbation theory study. Physical Review B, 2013, 87, .	1.1	67

#	Article	IF	CITATIONS
782	Progress, Challenges, and Opportunities in Two-Dimensional Materials Beyond Graphene. ACS Nano, 2013, 7, 2898-2926.	7.3	4,062
783	Vibrational properties and Raman spectra of different edge graphene nanoribbons, studied by first-principles calculations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 399-404.	0.9	12
784	Defect-Mediated Spin Relaxation and Dephasing in Graphene. Physical Review Letters, 2013, 110, 156601.	2.9	87
785	Crystalline CoFeB/Graphite Interfaces for Carbon Spintronics Fabricated by Solid Phase Epitaxy. Advanced Functional Materials, 2013, 23, 4933-4940.	7.8	7
786	Spin polarization switching in monolayer graphene through a Rashba multi-barrier structure. Applied Physics Letters, 2013, 102, .	1.5	18
787	Grapheneâ€Based Nanomaterials: Synthesis, Properties, and Optical and Optoelectronic Applications. Advanced Functional Materials, 2013, 23, 1984-1997.	7.8	257
788	Controlling the local chemical reactivity of graphene through spatial functionalization. Carbon, 2013, 60, 84-93.	5.4	32
789	Communicating Novel Computational State Variables: Post-CMOS Logic. IEEE Nanotechnology Magazine, 2013, 7, 15-23.	0.9	2
790	Impact of Electron-Impurity Scattering on the Spin Relaxation Time in Graphene: A First-Principles Study. Physical Review Letters, 2013, 110, 156602.	2.9	40
791	Charge-Carrier Screening in Single-Layer Graphene. Physical Review Letters, 2013, 110, 146802.	2.9	58
792	Annealing-induced magnetic moments detected by spin precession measurements in epitaxial graphene on SiC. Physical Review B, 2013, 87, .	1.1	24
793	Graphene–ferromagnet interfaces: hybridization, magnetization and charge transfer. Nanoscale, 2013, 5, 1902.	2.8	45
794	The effect of a copper interfacial layer on spin injection from ferromagnet to graphene. Applied Physics A: Materials Science and Processing, 2013, 111, 339-345.	1.1	4
795	Dual origin of defect magnetism in graphene and its reversible switching by molecular doping. Nature Communications, 2013, 4, 2010.	5.8	230
796	Spin-Orbit Coupling in Hydrogenated Graphene. Physical Review Letters, 2013, 110, 246602.	2.9	154
797	Spin transport in graphene spin–orbit barrier structure. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 632-636.	0.9	13
798	Chemical Gradients on Graphene To Drive Droplet Motion. ACS Nano, 2013, 7, 4746-4755.	7.3	142
799	Magnetic Coupling of Porphyrin Molecules Through Graphene. Advanced Materials, 2013, 25, 3473-3477.	11.1	72

IF

CITATIONS

800	Novel Carbon-Based Nanomaterials. , 2013, , 61-87.		5
801	Spin injection properties in trilayer graphene lateral spin valves. Applied Physics Letters, 2013, 102, 033105.	1.5	20
802	Layer-by-layer assembly of vertically conducting graphene devices. Nature Communications, 2013, 4, 1921.	5.8	95
803	Electronic and magnetic properties of adsorbed H2 on graphene with atomic defects: Ab initio study. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 52, 127-135.	1.3	11
804	Dynamical spin polarization in single-layer graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 54, 133-137.	1.3	5
805	Spin-dependent thermoelectric effects in graphene-based spin valves. Nanoscale, 2013, 5, 200-208.	2.8	64
806	A theoretical investigation on the possible improvement of spin-filter effects by an electric field for a zigzag graphene nanoribbon with a line defect. Carbon, 2013, 60, 94-101.	5.4	56
807	Dynamically generated pure spin current in single-layer graphene. Physical Review B, 2013, 87, .	1.1	62
808	Detection of spin currents by a three-terminal zigzag graphene nanoribbon junction. Journal of Physics Condensed Matter, 2013, 25, 035303.	0.7	1
809	Control of Schottky Barriers in Single Layer MoS <sub>2</sub> Transistors with Ferromagnetic Contacts. Nano Letters, 2013, 13, 3106-3110.	4.5	346
810	Correlation effects in disordered conductors with spin accumulation. Physical Review B, 2013, 87, .	1.1	0
811	Carrier transport in the V[TCNE]x(TCNE = tetracyanoethylene;xâ^1⁄4 2) organic-based magnet. Journal of Physics Condensed Matter, 2013, 25, 196001.	0.7	14
812	Characterization of metal oxide layers grown on CVD graphene. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2013, 31, .	0.9	7
813	Ballistic collective group delay and its Goos–HÃ <b>¤</b> chen component in graphene. Journal of Physics Condensed Matter, 2013, 25, 355301.	0.7	9
814	Sulfur dioxide adsorbed on graphene and heteroatom-doped graphene: a first-principles study. European Physical Journal B, 2013, 86, 1.	0.6	79
815	Solution-processable graphene nanomeshes with controlled pore structures. Scientific Reports, 2013, 3, 1996.	1.6	83
816	Magnetic and electronic properties of Fe3O4/graphene heterostructures: First principles perspective. Journal of Applied Physics, 2013, 113, .	1.1	6

817The design of spin filter junction in zigzag graphene nanoribbons with asymmetric edge1.433hydrogenation. Organic Electronics, 2013, 14, 3240-3248.1.433

ARTICLE

#

#	Article	IF	CITATIONS
818	Thermally induced spin transport in two-dimensional ferromagnetic gapped graphene. Europhysics Letters, 2013, 101, 57008.	0.7	5
819	Electrical Spin Injection into Graphene through Monolayer Hexagonal Boron Nitride. Applied Physics Express, 2013, 6, 073001.	1.1	92
820	Origami-based spintronics in graphene. Europhysics Letters, 2013, 104, 47001.	0.7	23
821	Electric field driven magnetic phase transition in graphene nanoflakes. Applied Physics Letters, 2013, 103, .	1.5	19
822	Graphene mediated domain formation in exchange coupled graphene/Co <sub>3</sub> O <sub>4</sub> (111)/Co(0001) trilayers. Journal of Physics Condensed Matter, 2013, 25, 472203.	0.7	7
823	Large local Hall effect in pin-hole dominated multigraphene spin-valves. Nanotechnology, 2013, 24, 015703.	1.3	10
824	Low-damage high-throughput grazing-angle sputter deposition on graphene. Applied Physics Letters, 2013, 103, 033109.	1.5	16
825	Effect of Cu interfacial layer thickness on spin-injection efficiency in NiFe/Cu/graphene spin valves. Journal of Applied Physics, 2013, 113, 203909.	1.1	1
826	A systematic approach to interpreting Hanle spin precession data in non-local spin valves. , 2013, , .		1
827	Spin rectification in thermally driven XXZ spin chain via the spin-Seebeck effect. Europhysics Letters, 2013, 104, 37006.	0.7	11
828	Spin Relaxation in Weak Localization Regime in Multilayer Graphene Spin Valves. Japanese Journal of Applied Physics, 2013, 52, 040205.	0.8	4
829	Characterization of MgO Thin Films Grown on Carbon Materials by Molecular Beam Epitaxy. Japanese Journal of Applied Physics, 2013, 52, 070208.	0.8	1
830	Spin gapless armchair graphene nanoribbons under magnetic field and uniaxial strain. Chinese Physics B, 2013, 22, 087303.	0.7	1
831	Controllable valley and spin transport in ferromagnetic silicene junctions. Physical Review B, 2013, 87,	1.1	184
832	Spin transport and magnetoresistance in Thue-Morse graphene superlattice with two ferromagnetic graphene electrodes. Journal of Applied Physics, 2013, 114, 163715.	1.1	12
833	Boltzmann conductivity of ferromagnetic graphene with magnetic impurities. Physical Review B, 2013, 88, .	1.1	6
834	Performance modeling for interconnects for conventional and emerging switches. , 2013, , .		0
835	Fluorine-induced local magnetic moment in graphene: A hybrid DFT study. Physical Review B, 2013, 87, .	1.1	38

	CITATION RE	PORT	
#	Article	IF	CITATIONS
836	Detection of spinons via spin transport. Physical Review B, 2013, 88, .	1.1	27
837	Charge and spin Hall effect in spin chiral ferromagnetic graphene. Applied Physics Letters, 2013, 103, 132409.	1.5	5
838	Organic spintronics. , 2013, , 535-576.		0
839	Observation of conduction electron spin resonance in boron-doped diamond. Physical Review B, 2013, 87, .	1.1	13
840	Atomic simulation of the formation and mechanical behavior of carbon nanoscrolls. Journal of Applied Physics, 2013, 113, .	1.1	27
841	Integrating MBE materials with graphene to induce novel spin-based phenomena. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, 04D105.	0.6	12
842	Structure and magnetic properties of ultra thin textured EuO films on graphene. Applied Physics Letters, 2013, 103, 131601.	1.5	22
843	Magnetic ordering of implanted Mn in HOPG substrates. Physical Review B, 2013, 88, .	1.1	2
844	Proximity Effects Induced in Graphene by Magnetic Insulators: First-Principles Calculations on Spin Filtering and Exchange-Splitting Gaps. Physical Review Letters, 2013, 110, 046603.	2.9	287
845	Anisotropic intrinsic spin relaxation in graphene due to flexural distortions. Physical Review B, 2013, 88, .	1.1	30
846	Effect of <i>in situ</i> deposition of Mg adatoms on spin relaxation in graphene. Physical Review B, 2013, 87, .	1.1	20
847	Anisotropic RKKY interaction in spin-polarized graphene. Physical Review B, 2013, 87, .	1.1	23
848	Effect of uniaxial strain on ferromagnetic instability and formation of localized magnetic states on adatoms in graphene. Physical Review B, 2013, 87, .	1.1	21
849	Rashba-induced spin scattering at graphene edges. Journal of Applied Physics, 2013, 114, .	1.1	8
850	Strong spin-dependent negative differential resistance in composite graphene superlattices. Physical Review B, 2013, 88, .	1.1	25
851	QUANTUM MONTE CARLO STUDY OF MAGNETIC CORRELATION IN GRAPHENE NANORIBBONS AND QUANTUM DOTS. Modern Physics Letters B, 2013, 27, 1330016.	1.0	0
852	A novelapprochof graphene-based composite thin films for electronics applications. , 2013, , .		0
853	Suppression of the Hanle Effect in Organic Spintronic Devices. Physical Review Letters, 2013, 111, 016601.	2.9	60

#	Article	IF	CITATIONS
854	Magnetic anisotropy in the boron nitride monolayer doped by 3d transitional metal substitutes at boron-site. Journal of Applied Physics, 2013, 113, .	1.1	7
855	Smooth MgO films grown on graphite and graphene by pulsed laser deposition. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, .	0.6	6
856	Introduction to carbon-based nanostructures. , 0, , 1-10.		0
857	Electronic properties of carbon-based nanostructures. , 0, , 11-90.		0
858	Large anisotropic magnetoresistance in grapheneâ€based junctions. Physica Status Solidi - Rapid Research Letters, 2013, 7, 997-1000.	1.2	4
859	Graphene and Graphene Nanomesh Spintronics. Electronics (Switzerland), 2013, 2, 368-386.	1.8	30
860	Spin torque on the surface of graphene in the presence of spin orbit splitting. AIP Advances, 2013, 3, 062127.	0.6	7
861	Microstructure fabrication process induced modulations in CVD graphene. AIP Advances, 2014, 4, 127143.	0.6	3
863	Electrochemical ascorbic acid/hydroquinone detection on graphene electrode and the electro-active site study. Journal of Experimental Nanoscience, 2014, 9, 452-462.	1.3	6
864	Spin and valley transports in junctions of Dirac fermions. New Journal of Physics, 2014, 16, 085005.	1.2	38
865	Magnetization and spin-polarized conductance of asymmetrically hydrogenated graphene nanoribbons: significance of sigma bands. Journal Physics D: Applied Physics, 2014, 47, 485004.	1.3	3
866	Morphology, chemical composition, and electrical characteristics of hybrid (Ni-C) nanocomposite structures grown on the van der Waals GaSe(0001) surface. Physics of the Solid State, 2014, 56, 2118-2130.	0.2	2
867	Single 3 <i>d</i> transition metal atoms on multi-layer graphene systems: electronic configurations, bonding mechanisms and role of the substrate. New Journal of Physics, 2014, 16, 062001.	1.2	23
868	Observation of spin-charge conversion in chemical-vapor-deposition-grown single-layer graphene. Applied Physics Letters, 2014, 105, .	1.5	23
869	Techniques for Production of Large Area Graphene for Electronic and Sensor Device Applications. Graphene and 2D Materials, 2014, 1, .	2.0	0
870	Valley selection rule in a Y-shaped zigzag graphene nanoribbon junction. Chinese Physics B, 2014, 23, 087202.	0.7	4
871	Electric- and exchange-field controlled transport through silicene barriers: Conductance gap and near-perfect spin polarization. Applied Physics Letters, 2014, 105, .	1.5	38
872	Probing the electronic band structure of ferromagnets with spin injection and extraction. Physical Review B, 2014, 90, .	1.1	8

#	Article	IF	CITATIONS
875	Magnetoresistance effects in multilayer graphene as grown on ferromagnetic substrates and implications for spin filtering. , 2014, , .		0
876	NONLINEAR SPIN WAVES IN GRAPHENE STRUCTURES. Spin, 2014, 04, 1450005.	0.6	1
877	Kwant: a software package for quantum transport. New Journal of Physics, 2014, 16, 063065.	1.2	862
878	Quantum corrections to the conductivity of disordered graphene on SiC \$(000overline {1})\$ : weak localization and current-bias dependent electron–electron interactions. New Journal of Physics, 2014, 16, 013024.	1.2	2
879	Half metal in two-dimensional hexagonal organometallic framework. Nanoscale Research Letters, 2014, 9, 2414.	3.1	30
880	Enhanced pore size of graphene by modification for water purification. Materials Technology, 2014, 29, 252-256.	1.5	2
881	A spin beam splitter in graphene through the Goos–HÃ <b>¤</b> chen shift. Applied Physics Letters, 2014, 105, .	1.5	27
882	Electron-electron interaction, weak localization and spin valve effect in vertical-transport graphene devices. Applied Physics Letters, 2014, 104, 153114.	1.5	9
883	Giant enhancement of spin detection sensitivity in (Ga,Mn)As/GaAs Esaki diodes. Physical Review B, 2014, 89, .	1.1	20
884	Spin transport and precession in graphene measured by nonlocal and three-terminal methods. Applied Physics Letters, 2014, 104, .	1.5	36
885	Shape of the Hanle curve in spin-transport structures in the presence of an ac drive. Physical Review B, 2014, 90, .	1.1	4
886	Origins of Nonlocality Near the Neutrality Point in Graphene. Physical Review Letters, 2014, 112, 116601.	2.9	41
887	Spin caloritronics in graphene with Mn. Applied Physics Letters, 2014, 104, .	1.5	18
888	Diffusion of fluorine adatoms on doped graphene. Applied Physics Letters, 2014, 105, 121606.	1.5	14
889	Spin Relaxation Mechanism in Graphene: Resonant Scattering by Magnetic Impurities. Physical Review Letters, 2014, 112, 116602.	2.9	185
890	Spin drift in highly doped n-type Si. Applied Physics Letters, 2014, 104, 092409.	1.5	26
891	Nontrivial spin structure of graphene on Pt(111) at the Fermi level due to spin-dependent hybridization. Physical Review B, 2014, 90, .	1.1	38
892	Optimized fabrication and characterization of carbon nanotube spin valves. Journal of Applied Physics, 2014, 115, .	1.1	25

#	Article	IF	CITATIONS
893	Large-scale fabrication of BN tunnel barriers for graphene spintronics. Journal of Applied Physics, 2014, 116, 074306.	1.1	45
894	Spin orbit splitting of the photon induced Fano resonance in an oscillating graphene electrostatic barrier. Journal of Applied Physics, 2014, 115, 133705.	1.1	2
895	Graphene on Crystalline Metal Surfaces. , 0, , 691-736.		0
896	Graphene spintronics. , 2014, , 324-340.		0
897	Graphene with adatoms: Tuning the magnetic moment with an applied voltage. Applied Physics Letters, 2014, 105, 052404.	1.5	5
898	Effect of contacts on spin lifetime measurements in graphene. Physical Review B, 2014, 89, .	1.1	40
899	Spin injection and detection in a graphene lateral spin valve using an yttrium-oxide tunneling barrier. Applied Physics Express, 2014, 7, 085101.	1.1	6
900	ORGANIC SPINTRONICS: PAST, PRESENT AND FUTURE. Spin, 2014, 04, 1440013.	0.6	10
901	The improved piezoelectric properties of ZnO nanorods with oxygen plasma treatment on the single layer graphene coated polymer substrate. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 455-459.	0.8	26
902	Electrical Spin Injection into High Mobility 2D Systems. Physical Review Letters, 2014, 113, 236602.	2.9	37
903	Spintronics with graphene-hexagonal boron nitride van der Waals heterostructures. Applied Physics Letters, 2014, 105, 212405.	1.5	43
904	Valley- and spin-switch effects in molybdenum disulfide superconducting spin valve. Physical Review B, 2014, 90, .	1.1	38
905	Manifestation of two-channel nonlocal spin transport in the shapes of Hanle curves. Physical Review B, 2014, 90, .	1.1	1
906	Spin relaxation in Cu and Al spin conduits. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 986-990.	0.8	5
907	Out-of-plane magnetoresistance in ferromagnet/graphene/ferromagnet spin-valve junctions. Physical Review B, 2014, 89, .	1.1	35
908	Sputtering of cobalt film with perpendicular magnetic anisotropy on disorder-free graphene. AIP Advances, 2014, 4, .	0.6	9
909	Spin-Valley Filtering in Strained Graphene Structures with Artificially Induced Carrier Mass and Spin-Orbit Coupling. Physical Review Letters, 2014, 113, 046601.	2.9	98
910	Suppression of contact-induced spin dephasing in graphene/MgO/Co spin-valve devices by successive oxygen treatments. Physical Review B, 2014, 90, .	1.1	35

	CIIA	TON REPORT	
#	Article	IF	CITATIONS
911	Spin relaxation of a diffusively moving carrier in a random hyperfine field. Physical Review B, 2014, 90, .	1.1	11
912	Spin-Current Autocorrelations from Single Pure-State Propagation. Physical Review Letters, 2014, 112, 120601.	2.9	94
913	Magnetic defects in chemically converted graphene nanoribbons: electron spin resonance investigation. AIP Advances, 2014, 4, .	0.6	10
914	Tight-binding model for adatoms on graphene: Analytical density of states, spectral function, and induced magnetic moment. Physical Review B, 2014, 89, .	1.1	22
915	Spin relaxation related to edge scattering in graphene. Physical Review B, 2014, 90, .	1.1	28
916	Tuning the Influence of Microscopic Decoherence on the Superconducting Proximity Effect in a Graphene Andreev Interferometer. Physical Review Letters, 2014, 112, 126803.	2.9	12
917	Magnetoresistance in multilayer fullerene spin valves: A first-principles study. Physical Review B, 2014, 90, .	1.1	20
918	Spin transport in graphene nanostructures. Physical Review B, 2014, 90, .	1.1	17
919	Physical and electrical properties of graphene grown under different hydrogen flow in low pressure chemical vapor deposition. Nanoscale Research Letters, 2014, 9, 546.	3.1	39
920	Technological Developments and Future Perspectives on Graphene-Based Metamaterials. Neurosurgery, 2014, 74, 499-516.	0.6	28
921	Spin Transport Goes Ballistic. Physics Magazine, 2014, 7, .	0.1	4
922	Direct Measurement of Spin Polarization in Ferromagnetic-C <sub>60</sub> Interfaces Using Point-Contact Andreev Reflection. IEEE Transactions on Magnetics, 2014, 50, 1-4.	1.2	3
923	Charge Transport and Hot-Phonon Activation inÂGraphene. Journal of Computational and Theoretical Transport, 2014, 43, 162-182.	0.3	9
924	Spin polarization of Co(0001)/graphene junctions from first principles. Journal of Physics Condensed Matter, 2014, 26, 104204.	0.7	15
925	Charge Transport Dilemma of Solution-Processed Nanomaterials. Chemistry of Materials, 2014, 26, 134-152.	3.2	106
926	Plasma resonances effect in terahertz modulator based on double graphene layer. Optics Communications, 2014, 312, 11-15.	1.0	1
927	Effect of temperature, electric and magnetic field on spin relaxation in single layer graphene: A Monte Carlo simulation study. Current Applied Physics, 2014, 14, 516-520.	1.1	11
928	Chlorine molecule adsorbed on graphene and doped graphene: A first-principle study. Physica B: Condensed Matter, 2014, 436, 54-58.	1.3	20

#	Article	IF	CITATIONS
929	Plasma-based chemical modification of epitaxial graphene with oxygen functionalities. Surface and Coatings Technology, 2014, 241, 8-12.	2.2	20
930	Topological insulator based spin valve devices: Evidence for spin polarized transport of spin-momentum-locked topological surface states. Solid State Communications, 2014, 191, 1-5.	0.9	59
931	Graphene Covered on Microfiber Exhibiting Polarization and Polarization-dependent Saturable Absorption. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 55-61.	1.9	13
932	Intercalation strategies in clay/polymer hybrids. Progress in Polymer Science, 2014, 39, 443-485.	11.8	248
933	Grapheneviasonication assisted liquid-phase exfoliation. Chemical Society Reviews, 2014, 43, 381-398.	18.7	976
934	Identifying the magnetic properties of graphene oxide. Applied Physics Letters, 2014, 104, .	1.5	64
935	Optical spin injection in graphene with Rashba spin-orbit interaction. Physical Review B, 2014, 89, .	1.1	22
936	Controllable Synthesis of Doped Graphene and Its Applications. Small, 2014, 10, 2975-2991.	5.2	58
937	Kondo effect of a cobalt adatom on a zigzag graphene nanoribbon. Physical Review B, 2014, 89, .	1.1	19
938	Absence of hyperfine effects in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:msup><mml:mrow /&gt;<mml:mn>13</mml:mn></mml:mrow </mml:msup>C-graphene spin-valve devices. Physical Review B, 2014. 89</mml:math 	1.1	23
939	Extrinsic Spin Hall Effect Induced by Resonant Skew Scattering in Graphene. Physical Review Letters, 2014, 112, 066601.	2.9	105
940	Magnetization dynamics of cobalt grown on graphene. Journal of Applied Physics, 2014, 115, .	1.1	12
941	Assembled β-Co(OH)2 Nanoparticles on Reduced Graphene Oxide for Enhanced Magnetism. Journal of Superconductivity and Novel Magnetism, 2014, 27, 787-791.	0.8	1
942	Graphene's cousin: the present and future of graphane. Nanoscale Research Letters, 2014, 9, 26.	3.1	73
943	Controllable growth of 1–7 layers of graphene by chemical vapour deposition. Carbon, 2014, 73, 252-258.	5.4	125
944	Spin-Orbit Interaction and Isotropic Electronic Transport in Graphene. Physical Review Letters, 2014, 112, 136602.	2.9	38
945	Electrical detection of charge-current-induced spin polarization due to spin-momentum locking in Bi2Se3. Nature Nanotechnology, 2014, 9, 218-224.	15.6	391
946	Resistive switching in manganite/graphene hybrid planar nanostructures. Applied Physics Letters, 2014, 102408.	1.5	6

#	Article	IF	CITATIONS
947	Structural and electronic properties of MnO3(4) superhalogen clusters embedded in graphene. Chemical Physics Letters, 2014, 601, 16-20.	1.2	24
948	Enhanced electrocatalytic performance on polymer-stabilized graphene decorated with alloy nanoparticles for ethanol oxidation reaction in alkaline media. Applied Catalysis B: Environmental, 2014, 158-159, 119-128.	10.8	45
949	Spin caloritronics in graphene. Solid State Communications, 2014, 191, 30-34.	0.9	5
950	Intrinsic electron spin relaxation due to the D'yakonov–Perel' mechanism in monolayer MoS2. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1336-1340.	0.9	28
952	On-chip synthesis of circularly polarized emission of light with integrated photonic circuits. Optics Letters, 2014, 39, 2553.	1.7	14
953	Vertical Graphene Spin Valves Based on La <sub>2/3</sub> Sr <sub>1/3</sub> MnO <sub>3</sub> Electrodes. ACS Applied Materials & Interfaces, 2014, 6, 1187-1192.	4.0	24
954	Spin-Dependent Quantum Interference in Nonlocal Graphene Spin Valves. Nano Letters, 2014, 14, 2952-2956.	4.5	7
955	Pattern recognition approach to quantify the atomic structure of graphene. Carbon, 2014, 74, 363-366.	5.4	4
956	Spin lifetime of itinerant electrons in chemically synthesized graphene multi-layers. Carbon, 2014, 74, 346-351.	5.4	15
957	Edge proximity-induced magnetoresistance and spin polarization in ferromagnetic gated bilayer graphene nanoribbon. Journal of Magnetism and Magnetic Materials, 2014, 357, 29-34.	1.0	8
958	Improvement of Spin Transfer Torque in Asymmetric Graphene Devices. ACS Nano, 2014, 8, 3807-3812.	7.3	22
959	The first decade of organic spintronics research. Chemical Communications, 2014, 50, 1781-1793.	2.2	167
960	Sub-10nm patterning by focused He-ion beam milling for fabrication of downscaled graphene nano devices. Microelectronic Engineering, 2014, 114, 70-77.	1.1	91
961	Spin Injection and Voltage Effects in Magnetic Nanopillars and Its Applications. , 2014, , 107-176.		2
962	Homoepitaxial tunnel barriers with functionalized graphene-on-graphene for charge and spin transport. Nature Communications, 2014, 5, 3161.	5.8	67
963	Anionogenic Mixed Valency in KxBa1–xO2â~δ. Inorganic Chemistry, 2014, 53, 496-502.	1.9	4
964	Spin-dependent Goos–HÃ <b>¤</b> chen shift and spin beam splitter in gate-controllable ferromagnetic graphene. Physica B: Condensed Matter, 2014, 437, 71-75.	1.3	4
965	High-Performance Molybdenum Disulfide Field-Effect Transistors with Spin Tunnel Contacts. ACS Nano, 2014, 8, 476-482.	7.3	187

		CITATION REP	ORT	
#	Article		IF	CITATIONS
966	Strain-modulation of spin-dependent transport in graphene. Applied Physics Letters, 2014	4, 105, 172407.	1.5	3
967	First-principles study of carrier-induced ferromagnetism in bilayer and multilayer zigzag g nanoribbons. Applied Physics Letters, 2014, 104, .	raphene	1.5	12
968	Magnetic transitions in graphene derivatives. Nano Research, 2014, 7, 1507-1518.		5.8	39
969	Voltage-controlled inversion of tunnel magnetoresistance in epitaxial nickel/graphene/Mg junctions. Applied Physics Letters, 2014, 105, .	O/cobalt	1.5	51
970	Effects of symmetry and spin configuration on spin-dependent transport properties of iron-phthalocyanine-based devices. Journal of Applied Physics, 2014, 116, .		1.1	25
971	Graphene spin diode: Strain-modulated spin rectification. Applied Physics Letters, 2014, 1	.05, 052409.	1.5	12
972	Spin conductance and tunnelling magnetoresistance in a fractal graphene superlattice w ferromagnetic graphene electrodes. Journal Physics D: Applied Physics, 2014, 47, 185301	th two	1.3	11
973	Tailoring the Magnetism of Co Atoms on Graphene through Substrate Hybridization. Phys Letters, 2014, 113, 177201.	sical Review	2.9	62
974	Rectifying, giant magnetoresistance, spin-filtering, newgative differential resistance, and effects in single-molecule magnet Mn(dmit) 2 -based molecular device with graphene nar electrodes. Organic Electronics, 2014, 15, 3615-3623.	switching Ioribbon	1.4	13
975	Scanning Tunneling Microscope and Photoemission Spectroscopy Investigations of Bism Epitaxial Graphene on SiC(0001). Journal of Physical Chemistry C, 2014, 118, 24995-249	uth on 99.	1.5	20
976	Sulfonated Graphene Oxide Platelets in Nafion Nanocomposite Membrane: Advantages fo in Direct Methanol Fuel Cells. Journal of Physical Chemistry C, 2014, 118, 24357-24368.	or Application	1.5	85
977	Electron spin diffusion in monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:msub><mml:mi>MoSPhysical Review B, 2014, 89, .</mml:mi></mml:msub></mml:math 	:mi> <mml:mn>2<td>∎.¤<td>:msub&gt;</td></td></mml:mn>	∎.¤ <td>:msub&gt;</td>	:msub>
978	Spin-induced band modifications of graphene through intercalation of magnetic iron ator Nanoscale, 2014, 6, 3824-3829.	ns.	2.8	51
979	Spin density waves in periodically strained graphene nanoribbons. Nanoscale, 2014, 6, 42	85-4291.	2.8	6
980	Selective catalytic burning of graphene by SiOxlayer depletion. Nanoscale, 2014, 6, 1474	-1479.	2.8	3
981	Direct synthesis of phosphorus and nitrogen co-doped monolayer graphene with air-stabl characteristics. Physical Chemistry Chemical Physics, 2014, 16, 20392-20397.	e n-type	1.3	39
982	Self-assembled magnetic nanoparticles of Prussian blue on graphene. RSC Advances, 201 18061-18064.	4, 4,	1.7	5
983	Transition between one-dimensional and zero-dimensional spin transport studied by Hanl Physical Review B, 2014, 89, .	e precession.	1.1	10

#	Article	IF	CITATIONS
984	Graphene–Environmental and Sensor Applications. Lecture Notes in Nanoscale Science and Technology, 2014, , 159-224.	0.4	3
985	Giant spin Hall effect in graphene grown by chemical vapour deposition. Nature Communications, 2014, 5, 4748.	5.8	179
986	Electrical Detection of Spin-Polarized Surface States Conduction in (Bi <sub>0.53</sub> Sb <sub>0.47</sub> ) <sub>2</sub> Te <sub>3</sub> Topological Insulator. Nano Letters, 2014, 14, 5423-5429.	4.5	150
987	Graphene spintronics: Spin injection and proximity effects from first principles. Physical Review B, 2014, 90, .	1.1	43
988	Valley- and spin-filter in monolayer MoS2. Solid State Communications, 2014, 199, 52-55.	0.9	16
989	Path of the current flow at the metal contacts of graphene field-effect transistors with distorted transfer characteristics. Applied Physics Letters, 2014, 105, 033112.	1.5	10
990	Photoinduced pure spin-current injection in graphene with Rashba spin-orbit interaction. Physical Review B, 2014, 90, .	1.1	17
991	Efficient Spin Injection into Graphene through a Tunnel Barrier: Overcoming the Spin-Conductance Mismatch. Physical Review Applied, 2014, 2, .	1.5	39
992	Spin-filtering, giant magnetoresistance, rectifying and negative differential resistance effects in planar four-coordinate Fe complex with graphene nanoribbon electrodes. Journal of Chemical Physics, 2014, 140, 044311.	1.2	27
993	Synthesis of reduced graphene oxide–TiO2 nanoparticle composite systems and its application in hydrogen production. International Journal of Hydrogen Energy, 2014, 39, 16282-16292.	3.8	96
994	A nanoscopic approach to studying evolution in graphene wettability. Carbon, 2014, 80, 784-792.	5.4	64
995	Review on graphene spintronic, new land for discovery. Superlattices and Microstructures, 2014, 74, 123-145.	1.4	39
996	Nanosecond Spin Lifetimes in Single- and Few-Layer Graphene–hBN Heterostructures at Room Temperature. Nano Letters, 2014, 14, 6050-6055.	4.5	149
997	Graphene's potential in materials science and engineering. RSC Advances, 2014, 4, 28987-29011.	1.7	60
998	Negative Magnetoresistance in a Vertical Single-Layer Graphene Spin Valve at Room Temperature. ACS Applied Materials & Interfaces, 2014, 6, 2493-2496.	4.0	43
999	Crack-Free Growth and Transfer of Continuous Monolayer Graphene Grown on Melted Copper. Chemistry of Materials, 2014, 26, 4984-4991.	3.2	54
1000	Applications of Carbon Nanotubes and Graphene in Spin Electronics. , 2014, , 253-278.		3
1001	Monte Carlo simulation studies of spin transport in graphene armchair nanoribbons. Physica B: Condensed Matter, 2014, 450, 116-120.	1.3	4

#	Article	IF	CITATIONS
1002	Half-Metallicity in MnPSe <sub>3</sub> Exfoliated Nanosheet with Carrier Doping. Journal of the American Chemical Society, 2014, 136, 11065-11069.	6.6	353
1003	Strong ferromagnetism of reduced graphene oxide. Carbon, 2014, 78, 559-565.	5.4	73
1004	Epitaxial graphene on SiC: from carrier density engineering to quasi-free standing graphene by atomic intercalation. Journal Physics D: Applied Physics, 2014, 47, 094013.	1.3	50
1005	Current-based detection of nonlocal spin transport in graphene for spin-based logic applications. Journal of Applied Physics, 2014, 115, 17B741.	1.1	5
1006	Pseudospin-driven spin relaxation mechanism inÂgraphene. Nature Physics, 2014, 10, 857-863.	6.5	86
1007	Graphene spintronics. Nature Nanotechnology, 2014, 9, 794-807.	15.6	1,290
1008	Nonlinear Valley and Spin Currents from Fermi Pocket Anisotropy in 2D Crystals. Physical Review Letters, 2014, 113, 156603.	2.9	80
1009	Effects of the channel material parameters on the spin-torque critical current of lateral spin valves. Superlattices and Microstructures, 2014, 75, 468-476.	1.4	3
1010	Detectable spin–orbit splitting in Ni doped graphene. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 3196-3199.	0.9	1
1011	Intrinsic ferromagnetism in hexagonal boron nitride nanosheets. Journal of Chemical Physics, 2014, 140, 204701.	1.2	24
1012	Anisotropic quantum transport in monolayer graphene in the presence of Rashba spin–orbit coupling. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 56, 227-230.	1.3	7
1013	Spin-dependent barrier effects on the transport properties of graphene-based normal metal/ferromagnetic barrier/d-wave superconductor junction. Journal of Magnetism and Magnetic Materials, 2014, 362, 36-41.	1.0	5
1014	Electronic transport of a large scale system studied by renormalized transfer matrix method: Application to armchair graphene nanoribbons between quantum wires. Computer Physics Communications, 2014, 185, 856-861.	3.0	7
1015	Nanotechnology for Water Treatment and Purification. Lecture Notes in Nanoscale Science and Technology, 2014, , .	0.4	29
1016	Tunable electronic and magnetic properties of graphene-like ZnO monolayer upon doping and CO adsorption: a first-principles study. Journal of Materials Chemistry A, 2014, 2, 13129-13135.	5.2	76
1017	Graphene spintronics: puzzling controversies and challenges for spin manipulation. Journal Physics D: Applied Physics, 2014, 47, 094011.	1.3	95
1018	Effect of microscopic ripples on spin relaxation length in single-layer graphene. Journal of Nanostructure in Chemistry, 2014, 4, 1.	5.3	1
1019	The role of the Rashba coupling in spin-current of monolayer gapped graphene. European Physical Journal B, 2014, 87, 1.	0.6	6

#	Article	IF	CITATIONS
1020	From spin-polarized interfaces to giant magnetoresistance in organic spin valves. Physical Review B, 2014, 89, .	1.1	15
1021	Generation of spin polarization in graphene by the spin–orbit interaction and a magnetic barrier. Journal Physics D: Applied Physics, 2014, 47, 435302.	1.3	6
1022	Single-molecule magnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:msub><mml:mi mathvariant="normal"&gt;Mn<mml:mn>12</mml:mn></mml:mi </mml:msub>on graphene. Physical Review B, 2014, 90, .</mml:math 	1.1	12
1023	Heat transport of graphene-based normal metal–ferromagnetic barrier-superconductor junctions. Solid State Communications, 2014, 200, 42-47.	0.9	Ο
1024	Effect of electric field and magnetic field on spin transport in bilayer graphene armchair nanoribbons: A Monte Carlo simulation study. Current Applied Physics, 2014, 14, 1526-1530.	1.1	8
1025	Thermal conductivity of graphene nanoribbons with defects and nitrogen doping. Reactive and Functional Polymers, 2014, 79, 29-35.	2.0	32
1026	Modelling of Plasmonic and Graphene Nanodevices. Springer Theses, 2014, , .	0.0	9
1027	Perfect spin-filter, spin-valve, switching and negative differential resistance in an organic molecular device with graphene leads. RSC Advances, 2014, 4, 18522-18528.	1.7	24
1028	Morphology-controlled graphene nanosheets as anode material for lithium-ion batteries. Electrochimica Acta, 2014, 132, 172-179.	2.6	55
1029	Direct synthesis of RGO/Cu2O composite films on Cu foil for supercapacitors. Journal of Alloys and Compounds, 2014, 586, 745-753.	2.8	103
1030	Atomistic simulations of divacancy defects in armchair graphene nanoribbons: Stability, electronic structure, and electron transport properties. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 416-420.	0.9	23
1031	Graphene for Electron Devices: The Panorama of a Decade. IEEE Journal of the Electron Devices Society, 2014, 2, 77-104.	1.2	25
1032	An electronic structure perspective of graphene interfaces. Nanoscale, 2014, 6, 3444.	2.8	76
1033	Conductance and Fano factor in normal/ferromagnetic/normal bilayer graphene junction. Journal of Physics Condensed Matter, 2014, 26, 255302.	0.7	5
1034	Pt loaded on truncated hexagonal pyramid WC/graphene for oxygen reduction reaction. Nano Energy, 2014, 8, 52-61.	8.2	47
1035	Spin-dependent transport and current-induced spin transfer torque in a strained graphene spin valve. Physical Review B, 2014, 89, .	1.1	15
1036	Improving SO2 gas sensing properties of graphene by introducing dopant and defect: A first-principles study. Applied Surface Science, 2014, 313, 405-410.	3.1	102
1037	Future perspectives for spintronic devices. Journal Physics D: Applied Physics, 2014, 47, 193001.	1.3	392

#	Article	IF	CITATIONS
1038	Spin-polarized bandgap of graphene induced by alternative chemisorption with MgO (1 1 1) substrate. Carbon, 2014, 77, 208-214.	5.4	9
1039	Scattering in graphene associated with charged out-of-plane impurities. Journal of Applied Physics, 2014, 116, .	1.1	16
1040	Electronic Band Structure and Properties of Graphene. , 2014, , 23-46.		0
1041	Graphene-based Mid-infrared Photodetectors and Spin Transport Devices. Journal of the Vacuum Society of Japan, 2014, 57, 451-456.	0.3	0
1042	Spin disorder scattering in a ferromagnetic insulator-on-graphene structure. Physica Status Solidi (B): Basic Research, 2014, 251, 407-414.	0.7	3
1043	Electron spin lifetime in chemically synthesized graphene sheets. Physica Status Solidi (B): Basic Research, 2014, 251, 2521-2524.	0.7	3
1044	Nanosecond spin lifetimes in bottom-up fabricated bilayer graphene spin-valves with atomic layer deposited Al2O3 spin injection and detection barriers. Physica Status Solidi (B): Basic Research, 2015, 252, 2395-2400.	0.7	5
1045	Spin diffusion in ultracold spin-orbit-coupled mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:mmultiscripts> <mml:mi mathvariant="normal"&gt;K <mml:mprescripts></mml:mprescripts> <mml:none /&gt; <mml:mn>40</mml:mn> <mml:math>gas_Physical Review A_2015_92</mml:math></mml:none </mml:mi </mml:mmultiscripts>	1.0	6
1046	Observation of anomalous Hanle spin precession line shapes resulting from interaction with localized states. Physical Review B, 2015, 91, .	1.1	3
1047	Stability and magnetization of free-standing and graphene-embedded iron membranes. Physical Review B, 2015, 91, .	1.1	16
1048	Transport across a carbon nanotube quantum dot contacted with ferromagnetic leads: Experiment and nonperturbative modeling. Physical Review B, 2015, 91, .	1.1	16
1049	Gate-induced enhancement of spin-orbit coupling in dilute fluorinated graphene. Physical Review B, 2015, 91, .	1.1	7
1050	Highly spin-polarized Dirac fermions at the graphene/Co interface. Physical Review B, 2015, 91, .	1.1	41
1051	Theory of spin-orbit-induced spin relaxation in functionalized graphene. Physical Review B, 2015, 92, .	1.1	20
1052	Master equation based steady-state cluster perturbation theory. Physical Review B, 2015, 92, .	1.1	6
1053	Graphene on transition-metal dichalcogenides: A platform for proximity spin-orbit physics and optospintronics. Physical Review B, 2015, 92, .	1.1	268
1054	Spin relaxation in hydrogenated graphene. Physical Review B, 2015, 92, .	1.1	15
1055	Spin- and valley-dependent transport through arrays of ferromagnetic silicene junctions. Physical Review B, 2015, 92, .	1.1	60

#	Article	IF	CITATIONS
1056	24â~ʿμmspin relaxation length in boron nitride encapsulated bilayer graphene. Physical Review B, 2015, 92,	1.1	80
1057	Ferromagnetism and perfect spin filtering in transition-metal-doped graphyne nanoribbons. Physical Review B, 2015, 92, .	1.1	39
1058	Resonant Scattering by Magnetic Impurities as a Model for Spin Relaxation in Bilayer Graphene. Physical Review Letters, 2015, 115, 196601.	2.9	29
1059	Spin-Current to Charge-Current Conversion and Magnetoresistance in a Hybrid Structure of Graphene and Yttrium Iron Garnet. Physical Review Letters, 2015, 115, 226601.	2.9	127
1060	Adiabatic quantum pump in a zigzag graphene nanoribbon junction. Chinese Physics B, 2015, 24, 117202.	0.7	2
1061	Spin relaxation in graphene with self-assembled cobalt porphyrin molecules. Physical Review B, 2015, 92, .	1.1	7
1062	Variation of the character of spin-orbit interaction by Pt intercalation underneath graphene on Ir(111). Physical Review B, 2015, 92, .	1.1	20
1063	Perfect spin filtering effect and negative differential behavior in phosphorus-doped zigzag graphene nanoribbons. Scientific Reports, 2015, 5, 15966.	1.6	28
1064	Correlating spin transport and electrode magnetization in a graphene spin valve: Simultaneous magnetic microscopy and non-local measurements. Applied Physics Letters, 2015, 107, 142406.	1.5	5
1065	Intrinsic and extrinsic defects in a family of coal-derived graphene quantum dots. Applied Physics Letters, 2015, 107, .	1.5	25
1066	Controllable intrinsic DC spin/valley Hall conductivity in ferromagnetic silicene: Exploring a fully spin/valley polarized transport. Superlattices and Microstructures, 2015, 88, 442-449.	1.4	7
1067	On the Structural and Chemical Characteristics of Co/Al2O3/graphene Interfaces for Graphene Spintronic Devices. Scientific Reports, 2015, 5, 14332.	1.6	8
1068	The Raman redshift of graphene impacted by gold nanoparticles. AIP Advances, 2015, 5, .	0.6	96
1069	Visualizing chemical states and defects induced magnetism of graphene oxide by spatially-resolved-X-ray microscopy and spectroscopy. Scientific Reports, 2015, 5, 15439.	1.6	31
1070	Charge transport of graphene ferromagnetic-insulator-superconductor junction with pairing state of broken time reversal symmetry. AIP Advances, 2015, 5, 047112.	0.6	4
1071	Counting graphene layers based on the light-shielding effect of Raman scattering from a substrate. Applied Physics Letters, 2015, 107, .	1.5	4
1072	Multi-state and non-volatile control of graphene conductivity with surface electric fields. Applied Physics Letters, 2015, 107, .	1.5	8
1073	Magnetic phase diagram of graphene nanorings in an electric field. Journal of Physics Condensed Matter, 2015, 27, 406002.	0.7	3

#	Article	IF	CITATIONS
1074	Chemical Bonding of Transitionâ€Metal Co <sub>13</sub> Clusters with Graphene. ChemPhysChem, 2015, 16, 3700-3710.	1.0	18
1075	In Situ SR-XPS Observation of Ni-Assisted Low-Temperature Formation of Epitaxial Graphene on 3C-SiC/Si. Nanoscale Research Letters, 2015, 10, 421.	3.1	14
1076	Fork stamping of pristine carbon nanotubes onto ferromagnetic contacts for spin-valve devices. Physica Status Solidi (B): Basic Research, 2015, 252, 2496-2502.	0.7	9
1077	Magnetic Properties of a Bottomâ€Up Synthesis Analogous Graphene with Nâ€Doped Zigzag Edges. Advanced Electronic Materials, 2015, 1, 1500084.	2.6	6
1078	Controllable Synthesis of 3D Hollowâ€Carbonâ€Spheres/Grapheneâ€Flake Hybrid Nanostructures from Polymer Nanocomposite by Selfâ€Assembly and Feasibility for Lithiumâ€Ion Batteries. Particle and Particle Systems Characterization, 2015, 32, 874-879.	1.2	18
1079	Induced spin polarization effect in graphene by ferromagnetic nanocontact. Journal of Applied Physics, 2015, 117, .	1.1	5
1080	Spin transport properties in lower n-acene–graphene nanojunctions. Physical Chemistry Chemical Physics, 2015, 17, 11292-11300.	1.3	22
1081	Hydrogenated Graphene as a Homoepitaxial Tunnel Barrier for Spin and Charge Transport in Graphene. ACS Nano, 2015, 9, 6747-6755.	7.3	36
1082	Tuning the deposition of molecular graphene nanoribbons by surface functionalization. Nanoscale, 2015, 7, 12807-12811.	2.8	34
1083	A graphene spin diode based on Rashba SOI. Journal of Magnetism and Magnetic Materials, 2015, 385, 129-132.	1.0	5
1084	The Hartman effect in monolayer graphene with Rashba spin–orbit interaction. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 74, 30-33.	1.3	9
1085	Generalized Hamiltonian for a graphene subjected to arbitrary in-plane strains. Functional Materials Letters, 2015, 08, 1530001.	0.7	6
1086	Spin-dependent Seebeck effect and spin caloritronics in magnetic graphene. Physical Review B, 2015, 91, .	1.1	60
1087	Controllable spin polarization and spin filtering in a zigzag silicene nanoribbon. Journal of Applied Physics, 2015, 117, .	1.1	32
1088	Electronic structure and magnetic properties of graphene/Co composite. Carbon, 2015, 91, 298-303.	5.4	21
1089	Spin transport in hydrogenated graphene. 2D Materials, 2015, 2, 022002.	2.0	81
1090	Spin-Dependent Bandgap Structures and Spin Filtering in Graphene With Multiple Ferromagnetic Barriers. IEEE Transactions on Magnetics, 2015, 51, 1-3.	1.2	0
1091	Blown Bubble Assembly of Graphene Oxide Patches for Transparent Electrodes in Carbon–Silicon Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 28330-28336.	4.0	5

#	Article	IF	CITATIONS
1092	Tunneling magnetoresistance based on a Cr/graphene/Cr magnetotunnel junction. Chinese Physics B, 2015, 24, 117201.	0.7	1
1093	Enhanced spin–orbit coupling in dilute fluorinated graphene. 2D Materials, 2015, 2, 044009.	2.0	60
1094	Role of edge dehydrogenation in magnetization and spin transport of zigzag graphene nanoribbons with line defects. Organic Electronics, 2015, 27, 212-220.	1.4	5
1095	Two-Dimensional Layered Materials-Based Spintronics. Spin, 2015, 05, 1540011.	0.6	10
1096	Electrically controllable spin pumping in graphene via rotating magnetization. Journal Physics D: Applied Physics, 2015, 48, 295004.	1.3	8
1097	Exchange-Dominated Pure Spin Current Transport in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"&gt;<mml:mrow><mml:msub><mml:mrow><mml:mi>Alq</mml:mi></mml:mrow><mml:mrow><mm Physical Review Letters, 2015, 115, 086601</mm </mml:mrow></mml:msub></mml:mrow></mml:math 	l:mn>3 <td>ាក់រី<mark>គ</mark>្រីពាព&gt; <!--៣</td--></td>	ាក់រី <mark>គ</mark> ្រីពាព> ៣</td
1098	Strain-induced asymmetric modulation of band gap in narrow armchair-edge graphene nanoribbon. Modern Physics Letters B, 2015, 29, 1550224.	1.0	2
1099	Strong Interplay between the Electron Spin Lifetime in Chemically Synthesized Graphene Multilayers and Surfaceâ€Bound Oxygen. Chemistry - A European Journal, 2015, 21, 770-777.	1.7	11
1100	Study on temperature-dependent carrier transport for bilayer graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 69, 115-120.	1.3	4
1101	Magnetotransport across the metal–graphene hybrid interface and its modulation by gate voltage. Nanoscale, 2015, 7, 5516-5524.	2.8	5
1102	Low Schottky Barrier Black Phosphorus Field‣ffect Devices with Ferromagnetic Tunnel Contacts. Small, 2015, 11, 2209-2216.	5.2	111
1103	Tunable Piezoresistivity of Nanographene Films for Strain Sensing. ACS Nano, 2015, 9, 1622-1629.	7.3	246
1104	Electrical spin injection and transport in semiconductor nanowires: challenges, progress and perspectives. Nanoscale, 2015, 7, 4325-4337.	2.8	52
1105	Spin Hanle effect in mesoscopic superconductors. Physical Review B, 2015, 91, .	1.1	11
1106	Highly reduced graphene oxide supported Pt nanocomposites as highly efficient catalysts for methanol oxidation. Chemical Communications, 2015, 51, 2418-2420.	2.2	37
1107	Robust magnetic moments on the basal plane of the graphene sheet effectively induced by OH groups. Scientific Reports, 2015, 5, 8448.	1.6	49
1108	Giant magnetism in punched zigzag-edged triangular-shaped graphene nanodisks. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	0
1109	Dynamical spin injection at a quasi-one-dimensional ferromagnet-graphene interface. Applied Physics Letters, 2015, 106, .	1.5	12

#	Article	IF	CITATIONS
1110	Observation of Single-Spin Dirac Fermions at the Graphene/Ferromagnet Interface. Nano Letters, 2015, 15, 2396-2401.	4.5	82
1111	Magnetotransport properties of spin-valve structures with Mg spacer layers. Applied Physics Letters, 2015, 106, 032412.	1.5	1
1112	Nanoporous graphene materials by low-temperature vacuum-assisted thermal process for electrochemical energy storage. Journal of Power Sources, 2015, 284, 146-153.	4.0	42
1113	Spin caloritronics in graphene. Journal of Applied Physics, 2015, 117, .	1.1	5
1114	Tunable Fermi level and hedgehog spin texture in gapped graphene. Nature Communications, 2015, 6, 7610.	5.8	48
1115	Spin pumping blocked by single-layer graphene. Applied Physics Express, 2015, 8, 073009.	1.1	2
1116	Nonlocal ordinary magnetoresistance in indium arsenide. Journal of Magnetism and Magnetic Materials, 2015, 385, 292-294.	1.0	1
1117	Spin and charge transport in graphene-based spin transport devices with Co/MgO spin injection and spin detection electrodes. Synthetic Metals, 2015, 210, 42-55.	2.1	10
1118	Revisiting the measurement of the spin relaxation time in graphene-based devices. Physical Review B, 2015, 91, .	1.1	41
1119	Atomic-Scale Interfacial Magnetism in Fe/Graphene Heterojunction. Scientific Reports, 2015, 5, 11911.	1.6	30
1120	Geometric Stability, Electronic Structure and Reactivity of Pt <sub>4</sub> Cluster Supported on Defective Graphene. Integrated Ferroelectrics, 2015, 159, 57-65.	0.3	6
1121	Characterization of covalently-grafted polyisocyanate chains onto graphene oxide for polyurethane composites with improved mechanical properties. Chemical Engineering Journal, 2015, 281, 869-883.	6.6	145
1122	Magnetic transport properties of DBTAA-based nanodevices with graphene nanoribbon electrodes. Organic Electronics, 2015, 25, 308-316.	1.4	25
1123	Graphene spintronics: the European Flagship perspective. 2D Materials, 2015, 2, 030202.	2.0	243
1124	Spin transport enhancement by controlling the Ag growth in lateral spin valves. Journal Physics D: Applied Physics, 2015, 48, 215003.	1.3	7
1125	First-principles study on electronic and magnetic properties of MnO3superhalogen cluster-doped bilayer graphene. Journal Physics D: Applied Physics, 2015, 48, 325002.	1.3	1
1126	Electronic and transmission properties of magnetotunnel junctions of cobalt/iron intercalated bilayer two dimensional sheets. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2661-2666.	0.9	1
1127	All Spin Logic: A Micromagnetic Perspective. IEEE Transactions on Magnetics, 2015, 51, 1-10.	1.2	5

		CITATION R	EPORT	
#	Article		IF	CITATIONS
1128	Electric field effect in ultrathin zigzag graphene nanoribbons. Chinese Physics B, 2015,	24, 076104.	0.7	5
1129	Magnetic transport properties of a trigonal graphene sandwiched between graphene n electrodes. Carbon, 2015, 93, 335-341.	anoribbon	5.4	12
1130	Spin transport in a Zigzag normal/ferromagnetic graphene junction. Chinese Physics B,	, 2015, 24, 057202.	0.7	1
1131	Electron Spin Relaxation of Hole and Electron Polarons in π-Conjugated Porphyrin Arra Implications. Journal of Physical Chemistry B, 2015, 119, 7681-7689.	ys: Spintronic	1.2	18
1132	Adsorption of RuSex (x=1–5) cluster on Se-doped graphene: First principle calculatio Surface Science, 2015, 347, 808-815.	ns. Applied	3.1	5
1133	In situ growth of capping-free magnetic iron oxide nanoparticles on liquid-phase exfolia Nanoscale, 2015, 7, 8995-9003.	ated graphene.	2.8	6
1134	Proposal for a graphene-based all-spin logic gate. Applied Physics Letters, 2015, 106, .		1.5	30
1135	A graphene-based electrochemical sensor for sensitive determination of cyanazine. Jou Analytical Chemistry, 2015, 70, 384-391.	rnal of	0.4	13
1136	Charge, spin and thermal transport of graphene-based FNF multilayer. Physica B: Condo 2015, 468-469, 61-65.	ensed Matter,	1.3	0
1137	Model for spin waves and lasing in monolayer graphene films. Proceedings of SPIE, 201	.5,,.	0.8	1
1138	Polarized spin and valley transport across ferromagnetic silicene junctions. Journal of A Physics, 2015, 117, .	pplied	1.1	38
1139	Computational study of adsorption of cobalt on benzene and coronene. Molecular Phy 1858-1864.	sics, 2015, 113,	0.8	11
1140	Transient dynamics of magnetic Co–graphene systems. Nanoscale, 2015, 7, 10030-1	10038.	2.8	12
1141	Determination of the Schottky barrier height of ferromagnetic contacts to few-layer ph Applied Physics Letters, 2015, 106, .	iosphorene.	1.5	23
1142	Geometric stability and reaction activity of Pt clusters adsorbed graphene substrates for oxidation. Physical Chemistry Chemical Physics, 2015, 17, 11598-11608.	or catalytic CO	1.3	20
1144	Novel green method of preparation of a poly (ethylene oxide)/graphene nanocomposit salt assisted dispersion. RSC Advances, 2015, 5, 30555-30563.	e using organic	1.7	15
1145	Long distance spin communication in chemical vapour deposited graphene. Nature Co 2015, 6, 6766.	mmunications,	5.8	202
1146	Strong interface-induced spin–orbit interaction in graphene on WS2. Nature Commu 8339.	inications, 2015, 6,	5.8	314

#	Article	IF	CITATIONS
1147	Nitrogen-tuned transition metal Co adatom embedded graphene. Chemical Physics Letters, 2015, 638, 47-51.	1.2	1
1148	Spin amplification by controlled symmetry breaking for spin-based logic. 2D Materials, 2015, 2, 034001.	2.0	15
1149	Generation of fully spin-polarized currents in three-terminal graphene-based transistors. RSC Advances, 2015, 5, 87411-87415.	1.7	12
1150	Ferromagnetic tunnel contacts to graphene: Contact resistance and spin signal. Journal of Applied Physics, 2015, 117, .	1.1	12
1151	Spin-dependent Seebeck effects in a graphene nanoribbon coupled to two square lattice ferromagnetic leads. Journal of Applied Physics, 2015, 117, .	1.1	20
1152	Palladium dimers adsorbed on graphene: A DFT study. AIP Conference Proceedings, 2015, , .	0.3	1
1153	Low temperature growth of Co2MnSi films on diamond semiconductors by ion-beam assisted sputtering. Journal of Applied Physics, 2015, 117, 17D719.	1.1	3
1154	Magnetotransport properties of a few-layer graphene-ferromagnetic metal junctions in vertical spin valve devices. Journal of Applied Physics, 2015, 117, .	1.1	20
1155	Spin-current diode with a ferromagnetic semiconductor. Applied Physics Letters, 2015, 106, .	1.5	10
1156	Impurity-induced magnetic moments on the graphene-lattice Hubbard model: An inhomogeneous cluster dynamical mean-field theory study. Physical Review B, 2015, 91, .	1.1	15
1157	Spin-orbit coupling in fluorinated graphene. Physical Review B, 2015, 91, .	1.1	56
1158	Spin and energy currents in integrable and nonintegrable spin-12chains: A typicality approach to real-time autocorrelations. Physical Review B, 2015, 91, .	1.1	48
1159	Magnetic property and possible half-metal behavior in Co-doped graphene. Journal of Applied Physics, 2015, 117, 084311.	1.1	12
1160	Quantum Hall conductance of graphene combined with charge-trap memory operation. Nanotechnology, 2015, 26, 345202.	1.3	6
1161	Two-Dimensional Atomic Crystals: Paving New Ways for Nanoelectronics. Journal of Electronic Materials, 2015, 44, 4080-4097.	1.0	6
1162	Synthesis of quasi-core–shell Co-doped ZnO/graphene nanoparticles. Materials Letters, 2015, 161, 286-288.	1.3	7
1163	Influence of interlayer coupling and intra-layer Coulomb interaction on electronic transport in bilayer graphene. Current Applied Physics, 2015, 15, 1205-1215.	1.1	1
1164	Enhanced nonlocal Andreev reflection in F S F graphene spin-valve. Physica C: Superconductivity and Its Applications, 2015, 519, 124-129.	0.6	3

		CITATION R	EPORT	
#	Article		IF	CITATIONS
1165	Transition metal adatoms on graphene: A systematic density functional study. Carbon, 2015	5, 95, 525-534.	5.4	144
1166	Device Model for Graphene Spin Valves. IEEE Transactions on Electron Devices, 2015, 62, 34	126-3432.	1.6	6
1167	Silicene spintronics $\hat{a} \in$ " A concise review. Chinese Physics B, 2015, 24, 087201.		0.7	32
1168	Observation of negative refraction of Dirac fermions in graphene. Nature Physics, 2015, 11,	925-929.	6.5	181
1169	Long-distance transport of magnon spin information in a magnetic insulator at roomÂtempe Nature Physics, 2015, 11, 1022-1026.	erature.	6.5	598
1170	Fermi velocity modulation of spin-dependent transport in graphene. Journal Physics D: Appli 2015, 48, 355304.	ed Physics,	1.3	3
1171	Externally controlled selective spin transfer through a two-terminal bridge setup. European F Journal B, 2015, 88, 1.	Physical	0.6	6
1172	On the intrinsic ripples and negative thermal expansion of graphene. Carbon, 2015, 95, 239	-249.	5.4	24
1173	Large area epitaxial germanane for electronic devices. 2D Materials, 2015, 2, 035012.		2.0	47
1174	Electron States of Uniaxially Strained Graphene. Nano Letters, 2015, 15, 7943-7948.		4.5	18
1175	Giant fluctuations of local magnetoresistance of organic spin valves. Synthetic Metals, 2015 13-16.	i, 208,	2.1	0
1176	Electrical contacts to two-dimensional semiconductors. Nature Materials, 2015, 14, 1195-1	205.	13.3	1,318
1177	Searching for magnetism in pyrrolic N-doped graphene synthesized via hydrothermal reactic Carbon, 2015, 84, 460-468.	ın.	5.4	112
1178	Equilibrium spin current in graphene with Rashba spin-orbit coupling. Scientific Reports, 201	.5, 4, 6464.	1.6	23
1179	Spatial variation of a giant spin–orbit effect induces electron confinement in graphene on Nature Physics, 2015, 11, 43-47.	ÂPbÂislands.	6.5	126
1180	Spin transport in non-magnetic nano-structures induced by non-local spin injection. Physica Low-Dimensional Systems and Nanostructures, 2015, 68, 239-263.	E:	1.3	28
1181	A valley beam splitter of massive Dirac electrons. RSC Advances, 2015, 5, 8371-8376.		1.7	11
1182	Curvature effect on spin polarization in a three-terminal geometry in presence of Rashba spi interaction. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 3	n–orbit 361-366.	0.9	23

		CITATION RE	PORT	
# 1183	ARTICLE The nature of the Fe–graphene interface at the nanometer level. Nanoscale, 2015, 7	, 2450-2460.	IF 2.8	CITATIONS
1184	High performance current and spin diode of atomic carbon chain between transversely ribbon electrodes. Scientific Reports, 2014, 4, 6157.	y symmetric	1.6	32
1185	Spin-Based Computing: Device Concepts, Current Status, and a Case Study on a High- Microprocessor. Proceedings of the IEEE, 2015, 103, 106-130.	Performance	16.4	111
1186	Graphite Oxide and Aromatic Amines: Size Matters. Advanced Functional Materials, 20	15, 25, 263-269.	7.8	44
1187	The dynamics of Fe intercalation on pure and nitrogen doped graphene grown on Pt(1 adsorption. Surface Science, 2015, 634, 49-56.	11) probed by CO	0.8	6
1188	Quantum Monte Carlo study of magnetic and superconducting properties of graphene Methods in the Applied Sciences, 2015, 38, 4487-4494.	e. Mathematical	1.2	4
1189	Tuning spin polarization and spin transport of zigzag graphene nanoribbons by line de Chemistry Chemical Physics, 2015, 17, 638-643.	fects. Physical	1.3	29
1190	Interlayer dependent polarity of magnetoresistance in graphene spin valves. Journal of Chemistry C, 2015, 3, 298-302.	Materials	2.7	36
1191	Enhanced Tunnel Spin Injection into Graphene using Chemical Vapor Deposited Hexag Nitride. Scientific Reports, 2014, 4, 6146.	onal Boron	1.6	142
1192	Voltage-driven spintronic logic gates in graphene nanoribbons. Scientific Reports, 201	4, 4, 6320.	1.6	27
1193	Substrate-induced band structure and electronic properties in graphene/Al2O3(0001) Surface Science, 2015, 632, 111-117.	interface.	0.8	6
1194	Graphene-Graphene Oxide Floating Gate Transistor Memory. Small, 2015, 11, 311-318		5.2	44
1195	Electrochemical sensor based on magnetic graphene oxide@gold nanoparticles-molect polymers for determination of dibutyl phthalate. Talanta, 2015, 131, 354-360.	ular imprinted	2.9	116
1196	Science and technology roadmap for graphene, related two-dimensional crystals, and l Nanoscale, 2015, 7, 4598-4810.	nybrid systems.	2.8	2,452
1197	Graphene via Molecule-Assisted Ultrasound-Induced Liquid-Phase Exfoliation: A Supran Approach. ChemistrySelect, 2016, 1, .	ıolecular	0.7	0
1198	Homoepitaxial graphene tunnel barriers for spin transport. AIP Advances, 2016, 6, .		0.6	7
1199	Thermal Transport of Flexural and In-Plane Phonons Modulated by Bended Graphene N Journal of Nanomaterials, 2016, 2016, 1-7.	anoribbons.	1.5	3
1200	Enhanced End-Contacts by Helium Ion Bombardment to Improve Graphene-Metal Cont Nanomaterials, 2016, 6, 158.	acts.	1.9	6

#	Article	IF	CITATIONS
1201	Organic Spintronics. , 2016, , .		2
1202	Graphene and monolayer transition-metal dichalcogenides: properties and devices. Journal of Materials Research, 2016, 31, 845-877.	1.2	15
1203	Supramolecular Approaches to Graphene: From Selfâ€Assembly to Moleculeâ€Assisted Liquidâ€Phase Exfoliation. Advanced Materials, 2016, 28, 6030-6051.	11.1	154
1204	Twoâ€dimensional monolayer designs for spintronics applications. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2016, 6, 441-455.	6.2	64
1205	Generalized Synthesis of Hierarchical Transition Metal Dichalcogenide Nanosheets from Polyoxometalates. ChemNanoMat, 2016, 2, 665-670.	1.5	2
1206	Organic Spin Valves: A Review. Advanced Functional Materials, 2016, 26, 3881-3898.	7.8	93
1207	Spin susceptibilities in armchair graphene nanoribbons with Rashba spin–orbit coupling. Journal of Physics Condensed Matter, 2016, 28, 325301.	0.7	1
1208	The Unique Current-Direction Dependent On-Off Switching in BiSbTeSe <sub>2</sub> Topological Insulator Based Spin Valve Transistors. IEEE Electron Device Letters, 2016, , 1-1.	2.2	7
1209	Inversion of Spin Signal and Spin Filtering in Ferromagnet   Hexagonal Boron Nitride-Graphene van der Waals Heterostructures. Scientific Reports, 2016, 6, 21168.	1.6	79
1210	Spin-filter and negative differential resistance effect in zigzag-edged bilayer graphene nanoribbon devices. AIP Advances, 2016, 6, .	0.6	5
1211	Efficient spin-filter and negative differential resistance behaviors in FeN4 embedded graphene nanoribbon device. Journal of Applied Physics, 2016, 119, .	1.1	8
1212	Using domain walls to perform non-local measurements with high spin signal amplitudes. Applied Physics Letters, 2016, 109, 042405.	1.5	3
1213	Large enhancement of positive magnetoresistance by Ce doping in Si epitaxial thin films. Applied Physics Letters, 2016, 109, 112101.	1.5	0
1214	Determination of the spin-lifetime anisotropy in graphene using oblique spin precession. Nature Communications, 2016, 7, 11444.	5.8	76
1215	Dynamic RKKY interaction between magnetic moments in graphene nanoribbons. Physical Review B, 2016, 94, .	1.1	4
1216	Switchable graphene-substrate coupling through formation/dissolution of an intercalated Ni-carbide layer. Scientific Reports, 2016, 6, 19734.	1.6	31
1217	Spin injection and detection up to room temperature in Heusler alloy/ <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:mrow><mml:mi>n</mml:mi></mml:mrow>spin valves. Physical Review B, 2016, 94, .</mml:math 	na∎thr⊳-GaAs	5 49
1218	Spin-Dependent Transport in Fe/GaAs(100)/Fe Vertical Spin-Valves. Scientific Reports, 2016, 6, 29845.	1.6	12

#	Article	IF	CITATIONS
1219	Spin injection and inverse Edelstein effect in the surface states of topological Kondo insulator SmB6. Nature Communications, 2016, 7, 13485.	5.8	37
1220	Strain engineering in monolayer WS2, MoS2, and the WS2/MoS2 heterostructure. Applied Physics Letters, 2016, 109, .	1.5	132
1221	Crossover to the anomalous quantum regime in the extrinsic spin Hall effect of graphene. Physical Review B, 2016, 94, .	1.1	14
1222	Spectroscopic studies of the physical origin of environmental aging effects on doped graphene. Journal of Applied Physics, 2016, 119, .	1.1	8
1223	Non-equilibrium tunneling in zigzag graphene nanoribbon break-junction results in spin filtering. Journal of Applied Physics, 2016, 119, .	1.1	3
1224	Nanosecond spin relaxation times in single layer graphene spin valves with hexagonal boron nitride tunnel barriers. Applied Physics Letters, 2016, 109, 122411.	1.5	41
1225	Rashba splitting of 100 meV in Au-intercalated graphene on SiC. Applied Physics Letters, 2016, 108, .	1.5	24
1226	Perspectives for spintronics in 2D materials. APL Materials, 2016, 4, .	2.2	171
1227	Spin relaxation in graphene nanoribbons in the presence of substrate surface roughness. Journal of Applied Physics, 2016, 120, .	1.1	8
1228	Graphene grown out of diamond. Applied Physics Letters, 2016, 109, 162105.	1.5	16
1229	Tunnelling anisotropic magnetoresistance at La0.67Sr0.33MnO3-graphene interfaces. Applied Physics Letters, 2016, 108, 112405.	1.5	4
1230	Clean and smooth transfer of high quality CVD graphene using cyclododecane. , 2016, , .		0
1231	Micro/Nano Material-Based Biosensors. , 2016, , 151-185.		0
1233	Spin transport in epitaxial graphene on the C-terminated (0001Â <sup>-</sup> )-face of silicon carbide. Applied Physics Letters, 2016, 109, .	1.5	5
1234	Pressure effect on the spin-dependent electronic structure of Au intercalated h-BN/graphene/h-BN. Journal of Physics Condensed Matter, 2016, 28, 505004.	0.7	1
1235	Gate-Tunable Spin Transport and Giant Electroresistance in Ferromagnetic Graphene Vertical Heterostructures. Scientific Reports, 2016, 6, 25253.	1.6	3
1236	Localized vibrations of graphene nanoribbons. Low Temperature Physics, 2016, 42, 703-710.	0.2	7
1237	Unconventional magnetisation texture in graphene/cobalt hybrids. Scientific Reports, 2016, 6, 24783.	1.6	38

#	Article	IF	CITATIONS
1238	Contact induced spin relaxation in graphene spin valves with Al2O3 and MgO tunnel barriers. APL Materials, 2016, 4, .	2.2	30
1239	First principle study of the attachment of graphene onto non-doped and doped diamond (111). Diamond and Related Materials, 2016, 66, 52-60.	1.8	14
1240	Novel Excitonic Solar Cells in Phosphorene–TiO <sub>2</sub> Heterostructures with Extraordinary Charge Separation Efficiency. Journal of Physical Chemistry Letters, 2016, 7, 1880-1887.	2.1	51
1241	Structural state and magnetic properties of multilayer-graphene/Fe composites. Physics of Metals and Metallography, 2016, 117, 143-150.	0.3	5
1242	Enhancement of the corrosion protection performance and cathodic delamination resistance of epoxy coating through treatment of steel substrate by a novel nanometric sol-gel based silane composite film filled with functionalized graphene oxide nanosheets. Corrosion Science, 2016, 109, 182-205.	3.0	305
1243	Adsorption-enhanced spin–orbit coupling of buckled honeycomb silicon. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 83, 141-145.	1.3	0
1244	Long Spin Diffusion Length in Few-Layer Graphene Flakes. Physical Review Letters, 2016, 117, 147201.	2.9	37
1245	Magnetic two-dimensional systems. Current Opinion in Solid State and Materials Science, 2016, 20, 388-395.	5.6	11
1246	The opposite induced magnetic moment in narrow zigzag graphene nanoribbons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 3738-3742.	0.9	4
1247	NaSn <sub>2</sub> As <sub>2</sub> : An Exfoliatable Layered van der Waals Zintl Phase. ACS Nano, 2016, 10, 9500-9508.	7.3	39
1248	Tunable band gap, magnetoresistance and pseudo-magnetoresistance in silicene-based nanodevices. Superlattices and Microstructures, 2016, 100, 214-227.	1.4	5
1249	Effect of uniaxial strain on the electronic transport through disordered graphene p–n junctions. Modern Physics Letters B, 2016, 30, 1650337.	1.0	3
1250	Strain controlled ferromagnetic–ferrimagnetic transition and vacancy formation energy of defective graphene. Nanotechnology, 2016, 27, 435206.	1.3	9
1251	Detection Kondo effect in graphene quantum dots. , 2016, , .		2
1252	Strain engineering of magnetic state in vacancy-doped phosphorene. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 3270-3277.	0.9	26
1253	Functionalization effect on a Pt/carbon nanotube composite catalyst: a first-principles study. Physical Chemistry Chemical Physics, 2016, 18, 22687-22692.	1.3	13
1254	Room-temperature spin transport in InAs nanowire lateral spin valve. RSC Advances, 2016, 6, 75736-75740.	1.7	3
1255	Polymer Devices with Graphene: Solar Cells and Ultracapacitors. , 2016, , 209-226.		1

#	Article	IF	CITATIONS
1256	Longitudinal and transverse vibration control of electronic conductance of a ladder-like graphene nanoribbon. Superlattices and Microstructures, 2016, 97, 591-597.	1.4	4
1257	Optoelectronic and Transport Properties of Gapped Graphene. , 2016, , 489-504.		2
1258	Direct coupling between charge current and spin polarization by extrinsic mechanisms in graphene. Physical Review B, 2016, 94, .	1.1	27
1259	Holographonics. Materials Today, 2016, 19, 368-369.	8.3	2
1260	Contact-Induced Spin Relaxation in Graphene Nonlocal Spin Valves. Physical Review Applied, 2016, 6, .	1.5	27
1261	Atomistic switch of giant magnetoresistance and spin thermopower in graphene-like nanoribbons. Scientific Reports, 2016, 6, 36762.	1.6	8
1262	Anisotropic Elliott–Yafet theory and application to KC <sub>8</sub> potassium intercalated graphite. Physica Status Solidi (B): Basic Research, 2016, 253, 2505-2508.	0.7	1
1263	The magnetization orientation of Fe ultrathin layers in contact with graphene. Physical Chemistry Chemical Physics, 2016, 18, 33233-33239.	1.3	7
1265	Tuning Magnetic States of Planar Graphene/ <i>h-</i> BN Monolayer Heterostructures via Interface Transition Metal-Vacancy Complexes. Journal of Physical Chemistry C, 2016, 120, 23529-23535.	1.5	8
1266	A review on organic spintronic materials and devices: II. Magnetoresistance in organic spin valves and spin organic light emitting diodes. Journal of Science: Advanced Materials and Devices, 2016, 1, 256-272.	1.5	14
1267	Tunable spin–orbit coupling and symmetry-protected edge states in graphene/WS <sub>2</sub> . 2D Materials, 2016, 3, 031012.	2.0	135
1268	Tunable anomalous Andreev reflection and triplet pairings in spin-orbit-coupled graphene. Physical Review B, 2016, 94, .	1.1	45
1269	Electrical spin injection and detection in high mobility 2DEG systems. Journal of Physics Condensed Matter, 2016, 28, 453003.	0.7	7
1270	Controlling spin polarization in graphene by cloaking magnetic and spin-orbit scatterers. Physical Review B, 2016, 94, .	1.1	1
1271	Spin dynamics in bilayer graphene: Role of electron-hole puddles and Dyakonov-Perel mechanism. Physical Review B, 2016, 94, .	1.1	4
1272	A valley and spin filter based on gapped graphene. Journal of Physics Condensed Matter, 2016, 28, 285302.	0.7	9
1273	Blown-Bubble Assembly and in Situ Fabrication of Sausage-like Graphene Nanotubes Containing Copper Nanoblocks. Nano Letters, 2016, 16, 4917-4924.	4.5	13
1274	Selective growth of graphene in layer-by-layer via chemical vapor deposition. Nanoscale, 2016, 8, 14633-14642.	2.8	10

#	Article	IF	CITATIONS
1275	Wet Chemical Fabrication of Graphene and Graphene Oxide and Spectroscopic Characterization. , 2016, , 337-352.		0
1276	Proximity-Induced Spin Polarization of Graphene in Contact with Half-Metallic Manganite. ACS Nano, 2016, 10, 7532-7541.	7.3	44
1277	Experimental Demonstration of xor Operation in Graphene Magnetologic Gates at Room Temperature. Physical Review Applied, 2016, 5, .	1.5	58
1278	Impact of Tunnel-Barrier Strength on Magnetoresistance in Carbon Nanotubes. Physical Review Applied, 2016, 5, .	1.5	6
1279	Determining graphene's induced band gap with magnetic and electric emitters. Physical Review B, 2016, 93, .	1.1	5
1280	Spin transport in fully hexagonal boron nitride encapsulated graphene. Physical Review B, 2016, 93, .	1.1	44
1281	Optical signatures of electric-field-driven magnetic phase transitions in graphene quantum dots. Physical Review B, 2016, 93, .	1.1	14
1282	Effective gating and tunable magnetic proximity effects in two-dimensional heterostructures. Physical Review B, 2016, 93, .	1.1	85
1283	Gate-Tunable Spin-Charge Conversion and the Role of Spin-Orbit Interaction in Graphene. Physical Review Letters, 2016, 116, 166102.	2.9	70
1284	Physical properties of low-dimensional <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"&gt;<mml:mrow><mml:msup><mml:mrow><mml:mi>s</mml:mi><mml:mi>p</mml:mi>carbon nanostructures. Reviews of Modern Physics, 2016, 88, .</mml:mrow></mml:msup></mml:mrow></mml:math>	/> <b>1614ml:</b> m	ro1⁄60xmml:n
1285	Thermal spin injection and interface insensitivity in permalloy/aluminum metallic nonlocal spin valves. Physical Review B, 2016, 94, .	1.1	13
1286	Eighty-Eight Percent Directional Guiding of Spin Currents with 90 μm Relaxation Length in Bilayer Graphene Using Carrier Drift. Nano Letters, 2016, 16, 4825-4830.	4.5	54
1287	Spin diffusion and non-local spin-valve effect in an exfoliated multilayer graphene with a Co electrode. Nanotechnology, 2016, 27, 335201.	1.3	2
1289	Spin- and valley-dependent miniband structure and transport in silicene superlattices. Physical Review B, 2016, 93, .	1.1	56
1290	Electronic transport and localization in nitrogen-doped graphene devices using hyperthermal ion implantation. Physical Review B, 2016, 93, .	1.1	22
1291	Robust band gap and half-metallicity in graphene with triangular perforations. Physical Review B, 2016, 93, .	1.1	7
1292	Effects of Dephasing on Spin Lifetime in Ballistic Spin-Orbit Materials. Physical Review Letters, 2016, 116, 086602.	2.9	54
1293	Spin Manipulation in Graphene by Chemically Induced Pseudospin Polarization. Physical Review Letters, 2016, 116, 106601.	2.9	19
#	Article	IF	Citations
------	--	-----	-----------
1294	Creation of localized spins in graphene by ring-opening of epoxy derived hydroxyl. Scientific Reports, 2016, 6, 26862.	1.6	18
1295	The electronic structure and spin states of 2D graphene/VX <sub>2</sub> (X = S, Se) heterostructures. Physical Chemistry Chemical Physics, 2016, 18, 33047-33052.	1.3	49
1296	A two-dimensional spin field-effect switch. Nature Communications, 2016, 7, 13372.	5.8	168
1297	Theory of proximity-induced exchange coupling in graphene on hBN/(Co, Ni). Physical Review B, 2016, 94, .	1.1	74
1298	Structural and electronic properties of epitaxial multilayer h-BN on Ni(111) for spintronics applications. Scientific Reports, 2016, 6, 23547.	1.6	80
1299	Spin relaxation and the Kondo effect in transition metal dichalcogenide monolayers. Journal of Physics Condensed Matter, 2016, 28, 505002.	0.7	2
1300	Room-Temperature Spin Filtering in Metallic Ferromagnet–Multilayer Graphene–Ferromagnet Junctions. ACS Nano, 2016, 10, 10357-10365.	7.3	44
1301	Electronic properties of mutually embedded h-BN and graphene: A first principles study. Chemical Physics Letters, 2016, 666, 33-37.	1.2	11
1302	Anisotropic Hanle line shape via magnetothermoelectric phenomena. Physical Review B, 2016, 94, .	1.1	24
1303	Origin and Magnitude of †Designer' Spin-Orbit Interaction in Graphene on Semiconducting Transition Metal Dichalcogenides. Physical Review X, 2016, 6, .	2.8	140
1304	Spin dynamics and relaxation in graphene dictated by electron-hole puddles. Scientific Reports, 2016, 6, 21046.	1.6	67
1305	Femtomagnetism in graphene induced by core level excitation of organic adsorbates. Scientific Reports, 2016, 6, 24603.	1.6	21
1306	Towards the reality of spin field effect transistor utilizing a graphene channel with spin-splitting. Materials Research Express, 2016, 3, 105004.	0.8	1
1307	Spin Hall Effect and Origins of Nonlocal Resistance in Adatom-Decorated Graphene. Physical Review Letters, 2016, 117, 176602.	2.9	61
1308	Graphene-multiferroic interfaces for spintronics applications. Scientific Reports, 2016, 6, 31346.	1.6	32
1309	Highly defective graphite for scalable synthesis of nitrogen doped holey graphene with high volumetric capacitance. Journal of Power Sources, 2016, 334, 104-111.	4.0	30
1310	Perfect Spin-filtering in graphene monolayer-bilayer superlattice with zigzag boundaries. Scientific Reports, 2016, 6, 25361.	1.6	6
1311	Tunable magnetism in metal adsorbed fluorinated nanoporous graphene. Scientific Reports, 2016, 6, 31841.	1.6	12

#	Article	IF	Citations
1312	Tunable valley filtering in graphene with intervalley coupling. Europhysics Letters, 2016, 114, 37008.	0.7	5
1313	Spin Lifetimes Exceeding 12 ns in Graphene Nonlocal Spin Valve Devices. Nano Letters, 2016, 16, 3533-3539.	4.5	214
1314	Graphene based nanofluids and nanolubricants – Review of recent developments. Renewable and Sustainable Energy Reviews, 2016, 63, 346-362.	8.2	222
1315	Large spin-filtering effect in Ti-doped defective zigzag graphene nanoribbon. Physical Chemistry Chemical Physics, 2016, 18, 16224-16228.	1.3	9
1316	Nitrogen Doped Graphene as Metal Free Electrocatalyst for Efficient Oxygen Reduction Reaction in Alkaline Media and Its Application in Anion Exchange Membrane Fuel Cells. Journal of the Electrochemical Society, 2016, 163, F848-F855.	1.3	76
1317	Electrohydrodynamic jet printing and a preliminary electrochemistry test of graphene micro-scale electrodes. Journal of Micromechanics and Microengineering, 2016, 26, 045010.	1.5	16
1318	Molecular beam epitaxy growth of SrO buffer layers on graphite and graphene for the integration of complex oxides. Journal of Crystal Growth, 2016, 447, 5-12.	0.7	6
1319	Graphene as a chain extender of polyurethanes for biomedical applications. RSC Advances, 2016, 6, 58628-58640.	1.7	27
1320	Electronic spin transport in dual-gated bilayer graphene. NPG Asia Materials, 2016, 8, e274-e274.	3.8	39
1321	Spin filter for arbitrary spins by substrate engineering. Journal of Physics Condensed Matter, 2016, 28, 335301.	0.7	8
1322	Tuning the Electronic Properties of Rotated Graphene on Ni(111) by Nickel Carbide Intercalation. Journal of Physical Chemistry C, 2016, 120, 1546-1555.	1.5	8
1323	Adiabatically twisting a magnetic molecule to generate pure spin currents in graphene. Journal of Physics Condensed Matter, 2016, 28, 035305.	0.7	5
1324	Ferrimagnetism of Ti-Adsorbed Graphene. IEEE Transactions on Magnetics, 2016, 52, 1-3.	1.2	1
1325	Electronic and optical properties of surface hydrogenated armchair graphene nanoribbons: a theoretical study. RSC Advances, 2016, 6, 11786-11794.	1.7	8
1326	Complex Magnetic Exchange Coupling between Co Nanostructures and Ni(111) across Epitaxial Graphene. ACS Nano, 2016, 10, 1101-1107.	7.3	27
1327	Chemically integrated hierarchical hybrid zinc cobaltate/reduced graphene oxide microspheres as an enhanced lithium-ion battery anode. RSC Advances, 2016, 6, 4914-4924.	1.7	11
1328	Valley Seebeck effect in gate tunable zigzag graphene nanoribbons. Carbon, 2016, 99, 451-455.	5.4	28
1329	Anatomy and Giant Enhancement of the Perpendicular Magnetic Anisotropy of Cobalt–Graphene Heterostructures. Nano Letters, 2016, 16, 145-151.	4.5	120

#	Article	IF	Citations
1330	Nitrogen Doping Position-Dependent Rectification of Spin-Polarized Current and Realization of Multifunction in Zigzag Graphene Nanoribbons with Asymmetric Edge Hydrogenation. Journal of Electronic Materials, 2016, 45, 1165-1174.	1.0	6
1331	The classical and quantum dynamics of molecular spins on graphene. Nature Materials, 2016, 15, 164-168.	13.3	109
1332	Current-Induced Spin Polarization in Topological Insulator–Graphene Heterostructures. Nano Letters, 2016, 16, 2595-2602.	4.5	58
1333	Manipulating spin-polarized photocurrents in 2D transition metal dichalcogenides. Proceedings of the United States of America, 2016, 113, 3746-3750.	3.3	63
1334	Structure and Spin-Polarized Transport of Co Atomic Chains on Graphene with Topological Line Defects. Journal of Cluster Science, 2016, 27, 875-882.	1.7	3
1335	Advances in Nanomaterials. Advanced Structured Materials, 2016, , .	0.3	5
1336	The Synthesis, Properties, and Applications of Heteroatom-Doped Graphenes. Advanced Structured Materials, 2016, , 103-133.	0.3	3
1337	Effect of baseâ€deposited graphene oxide on the thermal stabilization of poly(vinyl chloride). Polymer International, 2016, 65, 125-132.	1.6	10
1338	Spintronics with graphene quantum dots. Physica Status Solidi - Rapid Research Letters, 2016, 10, 75-90.	1.2	22
1339	Strong interfacial exchange field in the graphene/EuS heterostructure. Nature Materials, 2016, 15, 711-716.	13.3	292
1340	Surface energy and wettability of van der Waals structures. Nanoscale, 2016, 8, 5764-5770.	2.8	167
1341	Spin polarisation using gate voltage through a Rashba barrier in graphene. Journal Physics D: Applied Physics, 2016, 49, 105305.	1.3	2
1342	Ferromagnetic properties in low-doped zigzag graphene nanoribbons. Journal of Physics Condensed Matter, 2016, 28, 086001.	0.7	7
1343	Effective nonlocal spin injection through low-resistance oxide junctions. Journal of Magnetism and Magnetic Materials, 2016, 405, 145-149.	1.0	6
1344	Thermal free entanglement of π-electronic spin and Landau-sublattice states in Rashba monolayer graphene. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 023101.	0.9	6
1345	Spin-dependent transport properties in a pyrene–graphene nanoribbon device. RSC Advances, 2016, 6, 16634-16639.	1.7	13
1346	Adsorption isotherms of H2 on defected graphene: DFT and Monte Carlo studies. International Journal of Hydrogen Energy, 2016, 41, 5522-5530.	3.8	24
1347	Magnetism and magnetic transport properties of the polycrystalline graphene nanoribbon heterojunctions. Carbon, 2016, 98, 204-212.	5.4	32

	Сіта	TION REPORT	
#	Article	IF	CITATIONS
1348	Half metallicity and magnetism in graphene containing monovacancies decorated with Carbon/Nitrogen adatom. Journal of Alloys and Compounds, 2016, 663, 100-106.	2.8	14
1349	Spin filtering and rectifying effects in the zinc methyl phenalenyl molecule between graphene nanoribbon leads. Organic Electronics, 2016, 28, 244-251.	1.4	57
1350	Electrically controllable spin conductance of zigzag silicene nanoribbons in the presence of anti-ferromagnetic exchange field. Solid State Communications, 2016, 226, 33-38.	0.9	16
1351	Moving graphene devices from lab to market: advanced graphene-coated nanoprobes. Nanoscale, 2016 8, 8466-8473.	, 2 <b>.</b> 8	31
1352	Nonadiabatic pure spin pumping in zigzag graphene nanoribbons with proximity induced ferromagnetism. Journal of Magnetism and Magnetic Materials, 2016, 398, 264-269.	1.0	5
1353	Electronic and Transport Properties of Graphene. Springer Theses, 2016, , 5-34.	0.0	0
1354	Quantum interference effects in chemical vapor deposited graphene. Current Applied Physics, 2016, 16 31-36.	' 1.1	5
1355	Two-Dimensional MnO2/Graphene Interface: Half-Metallicity and Quantum Anomalous Hall State. Journal of Physical Chemistry C, 2016, 120, 2119-2125.	1.5	29
1356	Preparation of graphene nanosheets by shear-assisted supercritical CO 2 exfoliation. Chemical Engineering Journal, 2016, 284, 78-84.	6.6	91
1357	Spin Transport in Carbon Nanotubes and Graphene: Experiments and Theory. , 2016, , 681-706.		1
1358	Theoretical Investigation of the Interfaces and Mechanisms of Induced Spin Polarization of 1D Narrow Zigzag Graphene- and h-BN Nanoribbons on a SrO-Terminated LSMO(001) Surface. Journal of Physical Chemistry A, 2017, 121, 680-689.	1.1	1
1359	Doping with Graphitic Nitrogen Triggers Ferromagnetism in Graphene. Journal of the American Chemical Society, 2017, 139, 3171-3180.	6.6	202
1360	The direct exchange mechanism of induced spin polarization of low-dimensional π-conjugated carbon- and h-BN fragments at LSMO(001) MnO-terminated interfaces. Journal of Magnetism and Magnetic Materials, 2017, 440, 23-29.	1.0	2
1361	Structural and electronic properties of arsenic nitrogen monolayer. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 1102-1106.	0.9	28
1362	Magnetic transport property of NiFe/WSe2/NiFe spin valve structure. Journal of Magnetism and Magnetic Materials, 2017, 432, 10-13.	1.0	38
1363	Strain effect on spin polarization in a graphene junction. Journal Physics D: Applied Physics, 2017, 50, 135302.	1.3	2
1364	Spin electronic manipulation based on zigzag-edgegraphene nanojunction with a line defect. IOP Conference Series: Materials Science and Engineering, 2017, 167, 012040.	0.3	0
1365	Half-metallicity and spin-polarization transport properties in transition-metal atoms single-edge-terminated zigzag α-graphyne nanoribbons. Organic Electronics, 2017, 44, 168-175.	1.4	46

#	Article	IF	CITATIONS
1366	Magnetic coupling between 3d transition metal adatoms on graphene supported by metallic substrates. Carbon, 2017, 116, 599-605.	5.4	14
1367	Bioinspired Ultrastable Lignin Cathode via Graphene Reconfiguration for Energy Storage. ACS Sustainable Chemistry and Engineering, 2017, 5, 3553-3561.	3.2	51
1368	Graphene- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt; <mml:msub> <mml:mi>WS </mml:mi> <mml:mn>2 heterostructures for tunable spin injection and spin transport. Physical Review B, 2017, 95, .</mml:mn></mml:msub></mml:math 	nn <b>ъ.</b> t/mml	:msub>
1369	Impurity scattering and size quantization effects in a single graphene nanoflake. Physical Review B, 2017, 95, .	1.1	8
1370	Large positive in-plane magnetoresistance induced by localized states at nanodomain boundaries in graphene. Nature Communications, 2017, 8, 14453.	5.8	27
1371	Magnetism in a graphene- 4fâ^'3d hybrid system. Physical Review B, 2017, 95, .	1.1	22
1372	Modulation of the electronic and mechanical properties of phagraphene via hydrogenation and fluorination. Physical Chemistry Chemical Physics, 2017, 19, 11771-11777.	1.3	35
1373	Graphene spin valve: An angle sensor. Journal of Magnetism and Magnetic Materials, 2017, 432, 135-139.	1.0	16
1374	The effect of Rashba spin–orbit coupling on the spin- and valley-dependent electronic heat capacity of silicene. RSC Advances, 2017, 7, 10650-10659.	1.7	14
1375	Theoretical perspective on structural, electronic and magnetic properties of 3d metal tetraoxide clusters embedded into single and di-vacancy graphene. Applied Surface Science, 2017, 408, 21-33.	3.1	37
1376	Magnetism in pristine and chemically reduced graphene oxide. Journal of Applied Physics, 2017, 121, .	1.1	58
1377	Spin precession in anisotropic media. Physical Review B, 2017, 95, .	1.1	46
1378	Current-induced Rashba spin orbit torque in silicene. Journal of Magnetism and Magnetic Materials, 2017, 432, 554-558.	1.0	6
1379	Spin filter properties of armchair graphene nanoribbons with substitutional Fe atoms. Molecular Physics, 2017, 115, 2231-2241.	0.8	10
1380	Spin polarization properties of thiophene molecule adsorbed to the edge of zigzag graphene nanoribbon. Synthetic Metals, 2017, 226, 46-49.	2.1	11
1381	The effect of different hydrogen terminations on the structural and electronic properties in the triangular array graphene nanomeshes. RSC Advances, 2017, 7, 8927-8935.	1.7	3
1382	Spin magnetic susceptibility of ferromagnetic silicene in the presence of Rashba spin-orbit coupling. AIP Advances, 2017, 7, 035211.	0.6	3
1383	Prospects of spintronics based on <scp>2D</scp> materials. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2017, 7, e1313.	6.2	161

# 1384	ARTICLE Spin transport and tunneling magnetoresistance in Thue-Morse bilayer graphene superlattice with	IF 1.3	CITATIONS 6
1001	two ferromagnetic electrodes. Physica B: Condensed Matter, 2017, 516, 18-26.	110	,
1385	2017, 4, 025074.	2.0	121
1386	Stable configurations of graphene on silicon. Applied Surface Science, 2017, 414, 25-33.	3.1	10
1387	Theoretical investigation of adsorption of gas molecules on Li metal adsorbed at H-site of graphene: A search for graphene based gas sensors. Surfaces and Interfaces, 2017, 8, 83-90.	1.5	9
1388	Tunable gap opening and spin polarization of two dimensional graphene/hafnene van der Waals heterostructures. Carbon, 2017, 120, 121-127.	5.4	32
1389	Graphene: Synthesis and Functionalization. Nanostructure Science and Technology, 2017, , 101-132.	0.1	2
1390	Spin- and valley-dependent electronic band structure and electronic heat capacity of ferromagnetic silicene in the presence of strain, exchange field and Rashba spin-orbit coupling. Journal of Magnetism and Magnetic Materials, 2017, 439, 203-212.	1.0	31
1391	Magnetic order and noncollinear spin transport of domain walls based on zigzag graphene nanoribbons. Journal of Applied Physics, 2017, 121, 174303.	1.1	8
1392	Landau quantization of Dirac fermions in graphene and its multilayers. Frontiers of Physics, 2017, 12, 1.	2.4	52
1393	Electronic and magnetic properties of 4d series transition metal substituted graphene: A first-principles study. Carbon, 2017, 120, 265-273.	5.4	135
1394	Graphene on cubic-SiC. Progress in Materials Science, 2017, 89, 1-30.	16.0	30
1395	Room-Temperature Ferromagnetism in Two-Dimensional Fe <sub>2</sub> Si Nanosheet with Enhanced Spin-Polarization Ratio. Nano Letters, 2017, 17, 2771-2777.	4.5	200
1396	Quantum imaging of current flow in graphene. Science Advances, 2017, 3, e1602429.	4.7	185
1397	Key role of rotated domains in oxygen intercalation at graphene on Ni(1 1 1). 2D Materials, 2017, 4, 025106.	2.0	26
1398	Coordination nanosheets (CONASHs): strategies, structures and functions. Chemical Communications, 2017, 53, 5781-5801.	2.2	144
1399	Electronic optical, properties and widening band gap of graphene with Ge doping. Optical and Quantum Electronics, 2017, 49, 1.	1.5	39
1400	CMOS- compatible fabrication method of graphene-based micro devices. Materials Science in Semiconductor Processing, 2017, 67, 92-97.	1.9	16
1401	Perfect Spin Filter in a Tailored Zigzag Graphene Nanoribbon. Nanoscale Research Letters, 2017, 12, 357.	3.1	15

#	Article	IF	CITATIONS
1402	Alloyed quaternary/binary core/shell quantum dot-graphene oxide nanocomposite: Preparation, characterization and application as a fluorescence "switch ON―probe for environmental pollutants. Journal of Alloys and Compounds, 2017, 720, 70-78.	2.8	19
1403	Gate-tunable black phosphorus spin valve with nanosecond spin lifetimes. Nature Physics, 2017, 13, 888-893.	6.5	119
1404	Spin-Polarized Tunneling through Chemical Vapor Deposited Multilayer Molybdenum Disulfide. ACS Nano, 2017, 11, 6389-6395.	7.3	53
1405	Graphene and Related Materials for Resistive Random Access Memories. Advanced Electronic Materials, 2017, 3, 1600195.	2.6	175
1406	Ab initio calculations for structural, electronic and magnetic behaviors of nitrogenized monolayer graphene decorated with 5d transition metal atoms. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 93, 26-38.	1.3	12
1407	Structural, electronic, and magnetic behaviors of 5d transition metal atom substituted divacancy graphene: A first-principles study. Chinese Physics B, 2017, 26, 056301.	0.7	6
1408	Large spin accumulation and crystallographic dependence of spin transport in single crystal gallium nitride nanowires. Nature Communications, 2017, 8, 15722.	5.8	28
1409	Spin FET Based on Graphene Nanoribbon in the Presence of Surface Roughness. IEEE Transactions on Electron Devices, 2017, 64, 3437-3442.	1.6	0
1410	Nanoscale investigations of soft breakdown events in few layered fluorinated graphene. , 2017, , .		0
1411	The role of contact resistance in graphene field-effect devices. Progress in Surface Science, 2017, 92, 143-175.	3.8	192
1412	Magnetoresistance of vertical Co-graphene-NiFe junctions controlled by charge transfer and proximity-induced spin splitting in graphene. 2D Materials, 2017, 4, 031004.	2.0	73
1413	Spin-flip reflection at the normal metal-spin superconductor interface. Physical Review B, 2017, 95, .	1.1	10
1415	Enhanced magnetic properties of cobalt-doped graphene nanoribbons. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	2
1416	Core-Shell Composite Synthesized through In Situ Polymerization in Emulsion with High Electrical Conductivity Sensitive to Humidity. Particle and Particle Systems Characterization, 2017, 34, 1600423.	1.2	8
1417	Nonlocal magnon spin transport in NiFe2O4 thin films. Applied Physics Letters, 2017, 110, 132406.	1.5	41
1418	Spin relaxation 1/f noise in graphene. Physical Review B, 2017, 95, .	1.1	6
1419	Manipulating intrinsic behaviors of graphene by substituting alkaline earth metal atoms in its structure. RSC Advances, 2017, 7, 16360-16370.	1.7	49
1420	Graphene, hexagonal boron nitride, and their heterostructures: properties and applications. RSC Advances, 2017, 7, 16801-16822.	1.7	500

#	ARTICLE Electronic structure of the <mml:math< th=""><th>IF</th><th>CITATIONS</th></mml:math<>	IF	CITATIONS
1421	xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:mrow><mml:mrow><mml:mi>Co</mml:mi><mml:m mathvariant="normal"&gt;S<mml:mn>2</mml:mn></mml:m </mml:mrow> interface and its possible use for electrical spin injection in a single <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:mrow><mml:mi>Mo<td>1.1 (<td>l:mo&gt;16</td></td></mml:mi></mml:mrow></mml:math </mml:mrow>	1.1 ( <td>l:mo&gt;16</td>	l:mo>16
1422	Review B, 2017, 95, . Effects of highly crystalline and conductive polyaniline/graphene oxide composites on the corrosion protection performance of a zinc-rich epoxy coating. Chemical Engineering Journal, 2017, 320, 363-375.	6.6	265
1423	Strain Controlled Ferromagnetic-Antiferromagnetic Transformation in Mn-Doped Silicene for Information Transformation Devices. Journal of Physical Chemistry Letters, 2017, 8, 1484-1488.	2.1	55
1424	Spin to Charge Interconversion Phenomena in the Interface and Surface States. Journal of the Physical Society of Japan, 2017, 86, 011001.	0.7	43
1425	Single-electron transport in graphene-like nanostructures. Physics Reports, 2017, 669, 1-42.	10.3	22
1426	Energy gap of extended states in SiC-doped graphene nanoribbon: Ab initio calculations. Applied Surface Science, 2017, 400, 1-5.	3.1	5
1427	Modulation of the magnetic properties in zigzag-edge graphene nanoribbons by connection sites. Organic Electronics, 2017, 41, 376-383.	1.4	7
1428	Roomâ€Temperature Quantum Transport Signatures in Graphene/LaAlO <sub>3</sub> /SrTiO <sub>3</sub> Heterostructures. Advanced Materials, 2017, 29, 1603488.	11.1	12
1429	Quantized photonic spin Hall effect in graphene. Physical Review A, 2017, 95, .	1.0	90
1430	Nucleation of Graphene Layers on Magnetic Oxides: Co <sub>3</sub> O <sub>4</sub> (111) and Cr <sub>2</sub> O <sub>3</sub> (0001) from Theory and Experiment. Journal of Physical Chemistry Letters, 2017, 8, 188-192.	2.1	11
1431	Oxidant mediated one-step complete conversion of multi-walled carbon nanotubes to graphene quantum dots and their bioactivity against mammalian and bacterial cells. Journal of Materials Chemistry B, 2017, 5, 785-796.	2.9	37
1432	Dual-channel current valve in a three terminal zigzag graphene nanoribbon junction. Journal of Physics Condensed Matter, 2017, 29, 055304.	0.7	0
1433	Optospintronics in Graphene <i>via</i> Proximity Coupling. ACS Nano, 2017, 11, 11678-11686.	7.3	73
1434	The structural, magnetic and electronic properties of p-type and n-type doped monolayer WS 2 systems. Superlattices and Microstructures, 2017, 112, 619-627.	1.4	14
1435	Nonlocal magnon-polaron transport in yttrium iron garnet. Physical Review B, 2017, 96, .	1.1	63
1436	Effect of room temperature lattice vibration on the electron transport in graphene nanoribbons. Applied Physics Letters, 2017, 111, 133107.	1.5	53
1437	Fabricating an epoxy composite coating with enhanced corrosion resistance through impregnation of functionalized graphene oxide-co-montmorillonite Nanoplatelet. Corrosion Science, 2017, 129, 38-53.	3.0	129
1438	Rapidly annealed nanoporous graphene materials for electrochemical energy storage. Journal of Materials Chemistry A, 2017, 5, 23720-23726.	5.2	13

#	Article	IF	CITATIONS
1439	Monte Carlo study of electron relaxation in graphene with spin polarized, degenerate electron gas in presence of electron-electron scattering. Semiconductor Science and Technology, 2017, 32, 125006.	1.0	2
1440	Contamination-free graphene by chemical vapor deposition in quartz furnaces. Scientific Reports, 2017, 7, 9927.	1.6	70
1441	Anomalous Nonlocal Resistance and Spin-Charge Conversion Mechanisms in Two-Dimensional Metals. Physical Review Letters, 2017, 119, 136804.	2.9	15
1442	Magnetics and spintronics on two-dimensional composite materials of graphene/hexagonal boron nitride. Materials Today Physics, 2017, 3, 93-117.	2.9	56
1443	Nonlocal magnetoresistance measurements of the organic zero-gap conductor αâ^'(BEDTâ^'TTF)2I3. Physical Review B, 2017, 95, .	1.1	3
1444	Theoretical Design of Robust Ferromagnetism and Bipolar Semiconductivity in Graphene-Based Nanoroads. Journal of Physical Chemistry C, 2017, 121, 24824-24830.	1.5	5
1445	Electronic properties of single-layer tungsten disulfide on epitaxial graphene on silicon carbide. Nanoscale, 2017, 9, 16412-16419.	2.8	39
1446	Polarity tuning of spin-orbit-induced spin splitting in two-dimensional transition metal dichalcogenides. Journal of Applied Physics, 2017, 122, .	1.1	31
1447	Spin precession and spin Hall effect in monolayer graphene/Pt nanostructures. 2D Materials, 2017, 4, 041008.	2.0	36
1448	Synthesis of graphene oxide nanosheets functionalized by green corrosion inhibitive compounds to fabricate a protective system. Corrosion Science, 2017, 127, 240-259.	3.0	116
1449	Gate-Driven Pure Spin Current in Graphene. Physical Review Applied, 2017, 8, .	1.5	39
1450	Two-Dimensional Graphene–Gold Interfaces Serve as Robust Templates for Dielectric Capacitors. ACS Applied Materials & Interfaces, 2017, 9, 34213-34220.	4.0	28
1451	Model spin-orbit coupling Hamiltonians for graphene systems. Physical Review B, 2017, 95, .	1.1	143
1452	Monte Carlo method for studies of spin relaxation in degenerate electron gas: Application to monolayer graphene. Journal of Applied Physics, 2017, 122, 045704.	1.1	3
1453	Large room temperature spin-to-charge conversion signals in a few-layer graphene/Pt lateral heterostructure. Nature Communications, 2017, 8, 661.	5.8	46
1454	A patterned single layer graphene resistance temperature sensor. Scientific Reports, 2017, 7, 8811.	1.6	117
1455	Bias induced up to 100% spin-injection and detection polarizations in ferromagnet/bilayer-hBN/graphene/hBN heterostructures. Nature Communications, 2017, 8, 248.	5.8	97
1456	Magnetotransport in heterostructures of transition metal dichalcogenides and graphene. Physical Review B, 2017, 96, .	1.1	69

#	Article	IF	CITATIONS
1457	Spin Hall Effect and Weak Antilocalization in Graphene/Transition Metal Dichalcogenide Heterostructures. Nano Letters, 2017, 17, 5078-5083.	4.5	91
1458	Dissipationless spin-valley current in zigzag-edge graphene ribbons with a net magnetization. Physical Review B, 2017, 95, .	1.1	9
1459	Extrinsic Spin–Orbit Coupling-Induced Large Modulation of Gilbert Damping Coefficient in CoFeB Thin Film on the Graphene Stack with Different Defect Density. Journal of Physical Chemistry C, 2017, 121, 17442-17449.	1.5	8
1460	A spin current rectifier. International Journal of Modern Physics B, 2017, 31, 1750230.	1.0	0
1461	Magnetization distribution and spin transport of graphene/h-BN/graphene nanoribbon-based magnetic tunnel junction. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 2949-2958.	0.9	6
1462	Transport properties of silicene-based ferromagnetic-insulator-superconductor junction. Journal of Applied Physics, 2017, 122, 043906.	1.1	7
1463	Unconventional magnetic anisotropy in one-dimensional Rashba system realized by adsorbing Gd atom on zigzag graphene nanoribbons. Nanoscale, 2017, 9, 11657-11666.	2.8	15
1464	Gate-dependent spin Hall induced nonlocal resistance and the symmetry of spin-orbit scattering in Au-clustered graphene. Physical Review B, 2017, 95, .	1.1	7
1465	Probing Electron Spin Resonance in Monolayer Graphene. Physical Review Letters, 2017, 119, 066802.	2.9	29
1466	Dimensional Confinement in Carbonâ€based Structures – From 3D to 1D. Annalen Der Physik, 2017, 529, 1700051.	0.9	6
1467	Simulations on the Influence of Spatially Varying Spin Transport Parameters on the Measured Spin Lifetime in Graphene Non-Local Spin Valves. Physica Status Solidi (B): Basic Research, 2017, 254, 1700293.	0.7	6
1468	Graphene Spintronics. , 2017, , 197-218.		1
1469	Giant Valley-Isospin Conductance Oscillations in Ballistic Graphene. Nano Letters, 2017, 17, 5389-5393.	4.5	20
1470	Band structure and edge states of star-like zigzag graphene nanoribbons. Chinese Physics B, 2017, 26, 117301.	0.7	0
1471	Tailoring perpendicular magnetic anisotropy with graphene oxide membranes. RSC Advances, 2017, 7, 52938-52944.	1.7	3
1472	Graphene. Springer Handbooks, 2017, , 363-391.	0.3	2
1473	Strontium Oxide Tunnel Barriers for High Quality Spin Transport and Large Spin Accumulation in Graphene. Nano Letters, 2017, 17, 7578-7585.	4.5	20
1474	Externally controlled high degree of spin polarization and spin inversion in a conducting junction: Two new approaches. Scientific Reports, 2017, 7, 14313.	1.6	42

ARTICLE IF CITATIONS Structural defects influence on the conductance of strained zigzag graphene nanoribbon. Physica E: 1475 1.3 2 Low-Dimensional Systems and Nanostructures, 2017, 93, 216-223. Spin conversion on the nanoscale. Nature Physics, 2017, 13, 829-832. 1476 6.5 Magnetic and electronic crossovers in graphene nanoflakes. Physical Review B, 2017, 95, . 1477 1.1 24 A retrospect on the role of piezoelectric nanogenerators in the development of the green world. RSC 1478 Advances, 2017, 7, 33642-33670. Intervalley dark trion states with spin lifetimes of 150 ns in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WSe</mml:mi><mml:mn>2</mml:mn1/msub></mr 1479 Physical Review B, 2017, 95, . Electrical gate control of spin current in van der Waals heterostructures at room temperature. 1480 5.8 224 Nature Communications, 2017, 8, 16093. Giant magnetoresistance and anomalous transport in phosphorene-based multilayers with 1481 1.1 18 noncollinear magnetization. Physical Review B, 2017, 95, . Zero-bias conductance anomaly in graphene dots. Japanese Journal of Applied Physics, 2017, 56, 06GE07. 1482 0.8 Processes of energy migration in mixed europium $\hat{e}$ "lanthanum magnesium borate nanocrystals. 1483 0.5 3 Spectroscopy Letters, 2017, 50, 399-403. Strong Modulation of Spin Currents in Bilayer Graphene by Static and Fluctuating Proximity Exchange 1484 66 Fields. Physical Review Letters, 2017, 118, 187201. Spin relaxation in corrugated graphene. Physical Review B, 2017, 95, . 1485 1.1 16 Interface-induced phenomena in magnetism. Reviews of Modern Physics, 2017, 89, . 1486 16.4 672 Electron Spin Dynamics of Twoâ€Dimensional Layered Materials. Advanced Functional Materials, 2017, 27, 1487 7.8 13 1604040. Annealing Free, High Quality CVD Graphene Growth and Transfer. Springer Proceedings in Physics, 1488 0.1 2017, , 325-330. Proximity induced room temperature ferromagnetism in graphene probed with spin currents. 2D 1489 2.0 138 Materials, 2017, 4, 014001. The role of Rashba spin-orbit coupling in valley-dependent transport of Dirac fermions. Physica B: 1490 Condensed Matter, 2017, 504, 52-57 Andreev reflection and bound states in topological insulator based planar and step Josephson 1491 1.33 junctions. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 85, 238-247. The electronic and magnetic properties of corrugated zigzag graphene nanoribbons with divacancy 1492 1.3 defects. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 85, 302-307.

#	Article	IF	CITATIONS
1493	Conductance Oscillations in a Graphene/Nanocluster Hybrid Material: Toward Largeâ€Area Singleâ€Electron Devices. Advanced Materials, 2017, 29, 1604837.	11.1	17
1494	Redox control of magnetic transport properties of a single anthraquinone molecule with different contacted geometries. Carbon, 2017, 113, 18-25.	5.4	40
1495	Interlayer quality dependent graphene spin valve. Journal of Magnetism and Magnetic Materials, 2017, 422, 322-327.	1.0	15
1496	Effect of impurity doping on AFM magnetization in graphene: A tight-binding model approach. International Journal of Computational Materials Science and Engineering, 2017, 06, 1850001.	0.5	0
1497	Two-channel model for spin-relaxation noise. Physical Review B, 2017, 96, .	1.1	2
1498	Intuitive approach to the unified theory of spin relaxation. Physical Review B, 2017, 96, .	1.1	12
1499	Novel conductance step in carbon nanotube with wing-like zigzag graphene nanoribbons. Chinese Physics B, 2017, 26, 116101.	0.7	0
1500	Scale-invariant large nonlocality in polycrystalline graphene. Nature Communications, 2017, 8, 2198.	5.8	17
1501	Tuning the tunneling magnetoresistance by using fluorinated graphene in graphene based magnetic junctions. AIP Advances, 2017, 7, 125008.	0.6	9
1502	Efficient spin-filtering, magnetoresistance and negative differential resistance effects of a one-dimensional single-molecule magnet Mn(dmit)2-based device with graphene nanoribbon electrodes. AIP Advances, 2017, 7, .	0.6	2
1503	6. Graphene via Molecule-Assisted Ultrasound- Induced Liquid-Phase Exfoliation: A Supramolecular Approach. , 2017, , .		0
1504	Magnetoresistance Effect in NiFe/BP/NiFe Vertical Spin Valve Devices. Advances in Condensed Matter Physics, 2017, 2017, 1-6.	0.4	11
1505	Large Proximity-Induced Spin Lifetime Anisotropy in Transition-Metal Dichalcogenide/Graphene Heterostructures. Nano Letters, 2017, 17, 7528-7532.	4.5	158
1506	Epitaxial ferromagnetic single clusters and smooth continuous layers on large area MgO/CVD graphene substrates. Materials Research Express, 2018, 5, 025606.	0.8	1
1507	Nanomechanical control of spin current flip using monovacancy graphene. Carbon, 2018, 133, 218-223.	5.4	10
1508	Half-metallic ferromagnetism prediction in MoS <sub>2</sub> -based two-dimensional superlattice from first-principles. Modern Physics Letters B, 2018, 32, 1850098.	1.0	4
1509	Fabrication of thin films of two-dimensional triangular antiferromagnet Ag2CrO2 and their transport properties. AlP Advances, 2018, 8, .	0.6	6
1510	Recent advancements in 2D-materials interface based magnetic junctions for spintronics. Journal of Magnetism and Magnetic Materials, 2018, 457, 110-125.	1.0	29

#	Article	IF	CITATIONS
1511	Magnetotransport properties of microstructured AlCu2Mn Heusler alloy thin films in the amorphous and crystalline phase. Journal of Magnetism and Magnetic Materials, 2018, 456, 281-287.	1.0	4
1512	Manipulating Spins at Molecular Level: An Insight into the Ferromagnet-Organic Interface. Materials and Energy, 2018, , 1-61.	2.5	3
1513	Room-temperature superparamagnetism due to giant magnetic anisotropy in MoSdefected single-layer MoS2. Journal of Physics Condensed Matter, 2018, 30, 155802.	0.7	8
1514	Modulating electronic and optical properties of black phosphorous carbide monolayers by molecular doping. Applied Surface Science, 2018, 448, 270-280.	3.1	11
1515	One-step solid state synthesis of PtCo nanocubes/graphene nanocomposites as advanced oxygen reduction reaction electrocatalysts. Journal of Catalysis, 2018, 362, 85-93.	3.1	29
1516	Spin related transport in two pyrene and Triphenylene graphene nanodisks using NEGF method. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 101, 208-211.	1.3	3
1517	Modeling the oblique spin precession in lateral spin valves for accurate determination of the spin lifetime anisotropy: Effect of finite contact resistance and channel length. Physical Review B, 2018, 97,	1.1	9
1518	Optically Unraveling the Edge Chiralityâ€Dependent Band Structure and Plasmon Damping in Graphene Edges. Advanced Materials, 2018, 30, e1800367.	11.1	16
1519	Structural evolution dynamics in fusion of sumanenes and corannulenes: defects formation and self-healing mechanism. Nano Futures, 2018, 2, 025001.	1.0	0
1520	Proximity effect induced spin filtering and gap opening in graphene by half-metallic monolayer Cr2C ferromagnet. Carbon, 2018, 132, 25-31.	5.4	39
1521	Spin-valleytronics of silicene based nanodevices (SBNs). Journal of Magnetism and Magnetic Materials, 2018, 456, 199-203.	1.0	6
1522	Spin and Charge Nernst Effects in Four-Terminal Ferromagnetic Graphene. Spin, 2018, 08, 1840001.	0.6	2
1523	Spin transport in high-mobility graphene on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:msub><mml:mi>WS</mml:mi><mml:mn>2substrate with electric-field tunable proximity spin-orbit interaction. Physical Review B, 2018, 97, .</mml:mn></mml:msub></mml:math 	nn <b>⊵.</b> ≰/mml	:mՖՖb>
1524	Friction induced structural transformations of water monolayers at graphene/Cu interfaces. Physical Chemistry Chemical Physics, 2018, 20, 4137-4143.	1.3	8
1525	Valley dependent transport in graphene L junction. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 99, 160-168.	1.3	7
1526	Independent gate control of injected and detected spin currents in CVD graphene nonlocal spin valves. AIP Advances, 2018, 8, 015129.	0.6	4
1527	Magnetoâ€Optical Modulation of Photonic Spin Hall Effect of Graphene in Terahertz Region. Advanced Optical Materials, 2018, 6, 1701212.	3.6	67
1528	Effect of different substitution position on the switching behavior in single-molecule device with carbon nanotube electrodes. Chemical Physics, 2018, 500, 74-79.	0.9	7

#	Article	IF	CITATIONS
1529	Island shape, size and interface dependency on electronic and magnetic properties of graphene hexagonal-boron nitride (h-BN) in-plane hybrids. Journal of Physics and Chemistry of Solids, 2018, 115, 187-198.	1.9	10
1530	Triangular lattice atomic layer of Sn(1 × 1) at graphene/SiC(0001) interface. Applied Physics Express, 2018, 11, 015202.	1.1	15
1531	Hot Electrons and Hot Spins at Metal–Organic Interfaces. Advanced Functional Materials, 2018, 28, 1706105.	7.8	12
1532	The effects of Rashba spin-orbit coupling on spin-polarized transport in hexagonal graphene nano-rings and flakes. Solid State Communications, 2018, 271, 62-65.	0.9	0
1533	Strained zigzag graphene nanoribbon devices with vacancies as perfect spin filters. Journal of Molecular Modeling, 2018, 24, 35.	0.8	7
1534	The anisotropic tunneling behavior of spin transport in graphene-based magnetic tunneling junction. Journal of Magnetism and Magnetic Materials, 2018, 453, 101-106.	1.0	7
1535	Detection of valley currents in graphene nanoribbons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 534-539.	0.9	1
1536	Spin transport in two-layer-CVD-hBN/graphene/hBN heterostructures. Physical Review B, 2018, 97, .	1.1	21
1537	Giant Magnetoresistance in Organic Spin Valves. Materials and Energy, 2018, , 1-62.	2.5	1
1538	DFT calculations of graphene monolayer in presence of Fe dopant and vacancy. Physica B: Condensed Matter, 2018, 541, 6-13.	1.3	28
1539	Azulene-like molecular devices with high spin filtering, strong spin rectifying, and giant magnetoresistance effects. Organic Electronics, 2018, 59, 113-120.	1.4	10
1540	Spin polarization of graphene and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:mrow><mml:mi>h</mml:mi><mml:mo>â^'mathvariant="bold"&gt;BN</mml:mo></mml:mrow> on Co(0001) and Ni(111) observed by spin-polarized surface positronium spectroscopy. Physical Review B, 2018, 97</mml:math 	)> <mml:m 1.1</mml:m 	<sup>ii</sup> 13
1541	Tunneling and Resistive Switching in Organic Spin Valves. Materials and Energy, 2018, , 225-280.	2.5	0
1542	Organic-based Magnetically Ordered Films. Materials and Energy, 2018, , 125-168.	2.5	2
1543	Spin-dependent transport properties of AA-stacked bilayer graphene nanoribbon. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 102, 117-122.	1.3	6
1544	Spin transport in graphene/transition metal dichalcogenide heterostructures. Chemical Society Reviews, 2018, 47, 3359-3379.	18.7	150
1545	Electrical contacts to thin layers of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+δ</sub> . Applied Physics Express, 2018, 11, 053201.	1.1	4
1546	A facile approach to fabricating ultrathin layers of reduced graphene oxide on planar solids. Carbon, 2018, 134, 62-70.	5.4	18

#	Article	IF	CITATIONS
1547	Robust spin-valley polarization in commensurate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:mrow><mml:mi>Mo</mml:mi><mml:msub><mml:mi mathvariant="normal"&gt;S<mml:mn>2</mml:mn></mml:mi </mml:msub></mml:mrow> /graphene heterostructures. Physical Review B, 2018, 97, .</mml:math 	1.1	27
1548	First-principle study of single TM atoms X (X=Fe, Ru or Os) doped monolayer WS2 systems. Superlattices and Microstructures, 2018, 117, 155-162.	1.4	14
1549	Time-evolution of the electrical characteristics of MoS <sub>2</sub> field-effect transistors after electron beam irradiation. Physical Chemistry Chemical Physics, 2018, 20, 9038-9044.	1.3	17
1550	Spin Injection into Graphene from Heusler Alloy Co <sub>2</sub> MnGe (111) Surface: A First Principles Study. Materials Science Forum, 0, 914, 111-116.	0.3	2
1551	Spin-transfer torque generated in graphene based topological insulator heterostructures. Scientific Reports, 2018, 8, 4343.	1.6	15
1552	Spin current and second harmonic generation in non-collinear magnetic systems: the hydrodynamic model. Journal of Physics Condensed Matter, 2018, 30, 165801.	0.7	3
1553	Graphene based superconducting junctions as spin sources for spintronics. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 96, 23-29.	1.3	4
1554	1D ferromagnetic edge contacts to 2D graphene/h-BN heterostructures. 2D Materials, 2018, 5, 014001.	2.0	26
1555	Selective gas adsorption and l–V response of monolayer boron phosphide introduced by dopants: A first-principle study. Applied Surface Science, 2018, 427, 176-188.	3.1	47
1556	Effect of Ti doping on spin injection and relaxation in few-layer graphene. Carbon, 2018, 127, 568-575.	5.4	6
1557	Thermoelectric spin voltage in graphene. Nature Nanotechnology, 2018, 13, 107-111.	15.6	72
1558	Magnetic graphene/Ni-nano-crystal hybrid for small field magnetoresistive effect synthesized via electrochemical exfoliation/deposition technique. Journal of Materials Science: Materials in Electronics, 2018, 29, 4171-4178.	1.1	15
1559	Computational Research of Electronic and Magnetic Properties of Nonmetal Doping of Graphene-Like ZnO Monolayer. Journal of Superconductivity and Novel Magnetism, 2018, 31, 1833-1840.	0.8	6
1560	First principles study of magnetism induced by topological frustration of bowtie-shaped graphene nanoflake. Carbon, 2018, 127, 432-436.	5.4	14
1561	Formation of localized magnetic states in graphene in hollow-site adsorbed adatoms. Superlattices and Microstructures, 2018, 113, 291-300.	1.4	7
1562	Highly aligned graphene oxide/waterborne polyurethane fabricated by in-situ polymerization at low temperature. E-Polymers, 2018, 18, 75-84.	1.3	11
1563	Probing magnetic coupling between LnPc <sub>2</sub> (Ln = Tb, Er) molecules and the graphene/Ni (111) substrate with and without Au-intercalation: role of the dipolar field. Nanoscale, 2018, 10, 277-283.	2.8	25
1564	Topological phase and chiral edge states of bilayer graphene with staggered sublattice potentials and Hubbard interaction. Journal of Physics Communications, 2018, 2, 095004.	0.5	2

#	Article	IF	CITATIONS
1565	Graphene/Boron Nitride Heterostructures: Direct Growth by Scalable and Industrially Practical Methods. , 2018, , 145-154.		0
1566	Bipolar magnetism in a two-dimensional NbS <sub>2</sub> semiconductor with high Curie temperature. Journal of Materials Chemistry C, 2018, 6, 11401-11406.	2.7	35
1567	On the influence of dilute charged impurity and perpendicular electric field on the electronic phase of phosphorene: Band gap engineering. Europhysics Letters, 2018, 124, 27001.	0.7	29
1568	Controlled engineering of spin-polarized transport properties in a zigzag graphene nanojunction. Europhysics Letters, 2018, 124, 17005.	0.7	12
1569	Site- and spin-dependent coupling at the highly ordered <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:mi>h</mml:mi> -BN/Co(0001) interface. Physical Review B, 2018, 98, .</mml:math 	1.1	15
1570	A Molecular Dynamics Study of the Mechanical Properties of Twisted Bilayer Graphene. Micromachines, 2018, 9, 440.	1.4	20
1571	Efficient spin injection into graphene through trilayer hBN tunnel barriers. Journal of Applied Physics, 2018, 124, .	1.1	11
1572	Modified spin–orbit couplings in uniaxially strained graphene. European Physical Journal B, 2018, 91, 1.	0.6	8
1573	Screening of long-range Coulomb interaction in graphene nanoribbons: Armchair versus zigzag edges. Physical Review B, 2018, 98, .	1.1	12
1574	Spin-dependent properties in zigzag graphene nanoribbons with phenyl-edge defects. Physical Review B, 2018, 98, .	1.1	34
1575	Layered Topological Insulators and Semimetals forÂMagnetoresistance Type Sensors. Advanced Quantum Technologies, 2019, 2, 1800039.	1.8	10
1576	Unconventional charge and spin-dependent transport properties of a graphene nanoribbon with line-disorder. Europhysics Letters, 2018, 124, 57003.	0.7	9
1577	Nonlinear Electrical Spin Conversion in a Biased Ferromagnetic Tunnel Contact. Physical Review Applied, 2018, 10, .	1.5	21
1578	Quantum Monte Carlo study on the structures and energetics of cyclic and linear carbon clusters <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal"&gt;C<mml:mi>n</mml:mi></mml:mi </mml:msub></mml:math> ( <mml:math) (<="" 1="" etqq1="" td="" tj=""><td>).7<b>&amp;⊕</b>314 r</td><td>gB5 /Overloc</td></mml:math)>	).7 <b>&amp;⊕</b> 314 r	gB5 /Overloc
1579	Physical Review A, 2010, 90, . Spin-orbit coupling in graphene, silicene and germanene: dependence on the configuration of full hydrogenation and fluorination. Bulletin of Materials Science, 2018, 41, 1.	0.8	13
1580	Room temperature spin injection into SiC via Schottky barrier. Applied Physics Letters, 2018, 113, 222402.	1.5	5
1581	Tailoring emergent spin phenomena in Dirac material heterostructures. Science Advances, 2018, 4, eaat9349.	4.7	65
1582	Intercalation Mechanisms of Fe Atoms underneath A Graphene Monolayer on Ru(0001). Journal of Physical Chemistry C, 2018, 122, 22903-22910.	1.5	7

#	Article	IF	CITATIONS
1583	Spin field-effect transistor action via tunable polarization of the spin injection in a Co/MgO/graphene contact. Applied Physics Letters, 2018, 113, 132403.	1.5	14
1584	Investigation on photoluminescence emission of (reduced) graphene oxide paper. IOP Conference Series: Materials Science and Engineering, 2018, 292, 012097.	0.3	12
1585	Investigating the mechanical properties of graphene and silicene and the fracture behavior of pristine and hydrogen functionalized silicene. Journal of Materials Science: Materials in Electronics, 2018, 29, 20522-20529.	1.1	6
1586	Spin Absorption by <i>In Situ</i> Deposited Nanoscale Magnets on Graphene Spin Valves. Physical Review Applied, 2018, 10, .	1.5	7
1587	Tunnel-Field-Effect Spin Filter from Two-Dimensional Antiferromagnetic Stanene. Physical Review Applied, 2018, 10, .	1.5	17
1588	Carrier Drift Control of Spin Currents in Graphene-Based Spin-Current Demultiplexers. Physical Review Applied, 2018, 10, .	1.5	4
1589	Molecular spintronics: the role of spin-dependent hybridization. Journal Physics D: Applied Physics, 2018, 51, 473001.	1.3	43
1590	Electrical spin polarization through spin–momentum locking in topological-insulator nanostructures. Chinese Physics B, 2018, 27, 097307.	0.7	4
1591	Spin-current diodes based on germanene and stanene subjected to local exchange fields. Applied Physics Letters, 2018, 113, .	1.5	17
1592	Chirality-sorted carbon nanotube films as high capacity electrode materials. RSC Advances, 2018, 8, 30600-30609.	1.7	9
1593	Enhanced Magnetism by Temperature Induced Defects in Reduced Graphene Oxide Prepared From Coconut Shells. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	19
1594	First-principles study of plutonium adsorption on perfect and defective graphene and hexagonal boron nitride. Materials Research Express, 2018, 5, 055041.	0.8	3
1595	Large nonlocality in macroscopic Hall bars made of epitaxial graphene. Physical Review B, 2018, 98, .	1.1	4
1596	Interface sensitivity on spin transport through a three-terminal graphene nanoribbon. Superlattices and Microstructures, 2018, 120, 650-658.	1.4	11
1597	Enhanced magnetic properties and tunable Dirac point of graphene/Mn-doped monolayer MoS <sub>2</sub> heterostructures. Journal of Physics Condensed Matter, 2018, 30, 305304.	0.7	6
1598	Temperature dependence of static spin conductivity of gapped graphene. Computational Condensed Matter, 2018, 16, e00313.	0.9	0
1599	Understanding the non-covalent interaction mediated modulations on the electronic structure of quasi-zero-dimensional graphene nanoflakes. Physical Chemistry Chemical Physics, 2018, 20, 18718-18728.	1.3	2
1600	Van der Waals Spin Valves. Physical Review Letters, 2018, 121, 067701.	2.9	132

#	Article	IF	CITATIONS
1601	Negative differential resistance, perfect spin-filtering effect and tunnel magnetoresistance in vanadium-doped zigzag blue phosphorus nanoribbons. Physical Chemistry Chemical Physics, 2018, 20, 21105-21112.	1.3	18
1602	Microscopic Linear Response Theory of Spin Relaxation and Relativistic Transport Phenomena in Graphene. Condensed Matter, 2018, 3, 18.	0.8	9
1603	Enhanced gas-sensing performance of graphene by doping transition metal atoms: A first-principles study. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2965-2973.	0.9	34
1604	Dipolar magnetism in assembled Co nanoparticles on graphene. Physical Chemistry Chemical Physics, 2018, 20, 20629-20634.	1.3	6
1605	Strained Graphene Structures: From Valleytronics to Pressure Sensing. NATO Science for Peace and Security Series A: Chemistry and Biology, 2018, , 3-17.	0.5	2
1606	Electrical spin injection, transport, and detection in graphene-hexagonal boron nitride van der Waals heterostructures: progress and perspectives. 2D Materials, 2018, 5, 032004.	2.0	56
1607	Graphene and Spintronics, the Good Match?. , 2018, , 137-156.		2
1608	Probing tunneling spin injection into graphene via bias dependence. Physical Review B, 2018, 98, .	1.1	9
1609	Theoretical investigation of the defect position effect on the NLO properties of N and B doped graphenes. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 367, 39-44.	2.0	3
1610	Transition metals adsorption and conductivity modification in carbon nanotubes: analytical modeling and DFT study. Adsorption, 2018, 24, 575-583.	1.4	7
1611	Functionalized graphene. , 2018, , 545-584.		4
1612	Nanomaterials history, classification, unique properties, production and market. , 2018, , 341-384.		68
1613	In-situ electrodeposition of conductive polypyrrole-graphene oxide composite coating for corrosion protection of 304SS bipolar plates. Journal of Alloys and Compounds, 2019, 770, 35-47.	2.8	81
1614	Hybrid spintronic materials: Growth, structure and properties. Progress in Materials Science, 2019, 99, 27-105.	16.0	55
1615	Flexible Logic Circuits by using Van Der Waals Contacted Graphene Field-Effect Transistors. , 2019, , .		3
1616	Charge-to-Spin Conversion by the Rashba–Edelstein Effect in Two-Dimensional van der Waals Heterostructures up to Room Temperature. Nano Letters, 2019, 19, 5959-5966.	4.5	143
1617	Tuning the electronic and magnetic properties of Mn-doped graphene by gas adsorption and effect of external electric field: First-principles study. International Journal of Modern Physics B, 2019, 33, 1950166.	1.0	5
1618	Two-dimensional spintronics for low-power electronics. Nature Electronics, 2019, 2, 274-283.	13.1	334

	CITATION R	EPORT	
#	Article	IF	CITATIONS
1619	Perspectives on exfoliated two-dimensional spintronics. Journal of Semiconductors, 2019, 40, 081508.	2.0	20
1620	Chemical functionalization of the ZnO monolayer: structural and electronic properties. RSC Advances, 2019, 9, 21831-21843.	1.7	33
1621	Removal enhancement of acid navy blue dye by GO - TiO2 nanocomposites synthesized using sonication method. Materials Chemistry and Physics, 2019, 238, 121906.	2.0	34
1622	Functionalization of graphene layers and advancements in device applications. Carbon, 2019, 152, 954-985.	5.4	110
1623	Electrically controlled spin-switch and evolution of Hanle spin precession in graphene. 2D Materials, 2019, 6, 035042.	2.0	12
1624	Molecular dynamics simulation of the resonant frequency of graphene nanoribbons. Ferroelectrics, 2019, 549, 87-95.	0.3	0
1625	Large spin-relaxation anisotropy in bilayer-graphene/ <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt; <mml:msub> <mml:mi>WS </mml:mi> <mml:mn>2 heterostructures. Physical Review B, 2019, 100, .</mml:mn></mml:msub></mml:math 	mn <b>». 1</b> /mm	l:me@ub>
1626	Van der Waals Heterostructures for Highâ€Performance Device Applications: Challenges and Opportunities. Advanced Materials, 2020, 32, e1903800.	11.1	304
1627	Scaling of the Nonlocal Spin and Baseline Resistances in Graphene Lateral Spin Valves. IEEE Transactions on Electron Devices, 2019, 66, 5003-5010.	1.6	5
1630	Van der Waals magnets: Wonder building blocks for twoâ€dimensional spintronics?. InformaÄnÃ- Materiály, 2019, 1, 479-495.	8.5	91
1631	Large Multidirectional Spin-to-Charge Conversion in Low-Symmetry Semimetal MoTe <sub>2</sub> at Room Temperature. Nano Letters, 2019, 19, 8758-8766.	4.5	81
1632	Intrinsic Controllable Magnetism of Graphene Grown on Fe. Journal of Physical Chemistry C, 2019, 123, 26870-26876.	1.5	10
1633	Two-Dimensional Flexible High Diffusive Spin Circuits. Nano Letters, 2019, 19, 666-673.	4.5	38
1634	Tunable Spin Characteristic Properties in Spin Valve Devices Based on Hybrid Organic–Inorganic Perovskites. Advanced Materials, 2019, 31, e1904059.	11.1	40
1635	Proximity magnetoresistance in graphene induced by magnetic insulators. Physical Review B, 2019, 100, .	1.1	15
1636	Serial and parallel spin circuits at the molecular scale with two atomic-vacancies in graphene: Amplification of spin-filtering effect. Carbon, 2019, 154, 357-362.	5.4	2
1637	Thermal gradients and anomalous Nernst effects in membrane-supported nonlocal spin valves. Physical Review B, 2019, 100, .	1.1	7
1638	Study of edge states and conductivity in spin-orbit coupled bilayer graphene. European Physical Journal B, 2019, 92, 1.	0.6	2

#	Article	IF	Citations
1639	Independent Geometrical Control of Spin and Charge Resistances in Curved Spintronics. Nano Letters, 2019, 19, 6839-6844.	4.5	11
1640	Nanoparticle-Induced Anomalous Hall Effect in Graphene. Nano Letters, 2019, 19, 7112-7118.	4.5	25
1641	Universal Spin Diffusion Length in Polycrystalline Graphene. Nano Letters, 2019, 19, 7418-7426.	4.5	15
1642	Selected graphenelike zigzag nanoribbons with chemically functionalized edges: Implications for electronic and magnetic properties. Physical Review B, 2019, 100, .	1.1	11
1643	Pure spin current in antiferromagnetic insulators. Physical Review B, 2019, 100, .	1.1	17
1644	Spin-orbit coupling in elemental two-dimensional materials. Physical Review B, 2019, 100, .	1.1	45
1645	Kondo effect due to a hydrogen impurity in graphene: A multichannel Kondo problem with diverging hybridization. Physical Review B, 2019, 100, .	1.1	5
1646	Improvements of mechanical properties of multilayer open-hole graphene papers. Journal of Applied Physics, 2019, 126, 104301.	1.1	7
1647	Enhanced anticorrosion performance of PPY-graphene oxide/PPY-camphorsulfonic acid composite coating for 304SS bipolar plates in proton exchange membrane fuel cell. Journal of Industrial and Engineering Chemistry, 2019, 80, 497-507.	2.9	38
1648	Thermal, electric and spin transport in superconductor/ferromagnetic-insulator structures. Progress in Surface Science, 2019, 94, 100540.	3.8	64
1649	Nanocarbons: Preparation, assessments, and applications in structural engineering, spintronics, gas sensing, EMI shielding, and cloaking in X-band. , 2019, , 171-285.		12
1650	Covalently Copper(II) Porphyrin Cross-Linked Graphene Oxide: Preparation and Catalytic Activity. Catalysis Letters, 2019, 149, 713-722.	1.4	37
1651	Influence of composition on the external quantum efficiency of reduced graphene oxide/carbon nanoparticle based photodetector used for human body IR detection. RSC Advances, 2019, 9, 18996-19005.	1.7	6
1652	Uniaxial strain induced topological phase transition in bismuth–tellurohalide–graphene heterostructures. Nanoscale, 2019, 11, 12704-12711.	2.8	10
1653	Hanle spin precession in a two-terminal lateral spin valve. Applied Physics Letters, 2019, 114, 242401.	1.5	10
1654	Circuit-model analysis for spintronic devices with chiral molecules as spin injectors. Physical Review B, 2019, 99, .	1.1	3
1655	Prediction of Selective Formation of Chair- and Boat-Type Hydrogenated Graphene via Birch Reduction. Chemistry of Materials, 2019, 31, 4584-4590.	3.2	1
1656	Magnetotransport through ac driven ferromagnetic graphene nanoribbons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 2662-2667.	0.9	0

		CITATION REPORT		
#	Article		IF	Citations
1657	Magnetic skyrmions in atomic thin CrI3 monolayer. Applied Physics Letters, 2019, 114	, <b>.</b>	1.5	59
1658	Hydrogenation-controlled mechanical properties in graphene helicoids: exceptional distribution-dependent behavior. Physical Chemistry Chemical Physics, 2019, 21, 1242	3-12433.	1.3	17
1659	Spin-orbit torque from a ferromagnetic metal. Physical Review B, 2019, 99, .		1.1	49
1660	Generating pure spin current with spin-dependent Seebeck effect in ferromagnetic zig nanoribbons. Journal of Physics Condensed Matter, 2019, 31, 315301.	zag graphene	0.7	10
1661	Realization of Ambient-Stable Room-Temperature Ferromagnetism by Low-Temperature Graphene Oxide Nanoribbons. ACS Nano, 2019, 13, 6341-6347.	e Annealing of	7.3	24
1662	Interfacial spin Hall effect and spin swapping in Fe-Au bilayers from first principles. Phys 2019, 99, .	sical Review B,	1.1	15
1663	Valley polarization enhancement and oscillation in asymmetric T junctions. Physics Let General, Atomic and Solid State Physics, 2019, 383, 1967-1971.	ters, Section A:	0.9	2
1664	Long spin diffusion lengths in doped conjugated polymers due to enhanced exchange Electronics, 2019, 2, 98-107.	coupling. Nature	13.1	62
1665	Spintronics and magnetic field effects in organic semiconductors and devices. , 2019, ,	385-427.		1
1666	Noncollinear magnetism in Lithium-doped zigzag graphene nanoribbons. Journal of Ma Magnetic Materials, 2019, 480, 101-107.	gnetism and	1.0	5
1667	Enhanced thermoelectric properties of graphene-based ferromagnetic-superconductor Andreev reflection effect. Materials Research Express, 2019, 6, 065021.	junctions,	0.8	1
1668	Valley current and spin-valley filter in topological domain wall. Journal of Applied Physic 123904.	s, 2019, 125,	1.1	12
1669	Heterostructures of graphene and hBN: Electronic, spin-orbit, and spin relaxation proper first principles. Physical Review B, 2019, 99, .	erties from	1.1	47
1670	Physics of Graphene: Basic to FET Application. , 2019, , 29-63.			0
1671	Nanoelectronics with proximitized materials. Solid-State Electronics, 2019, 155, 93-98		0.8	1
1672	Synthesis of carbon-doped boron nitride nanosheets and enhancement of their room-t ferromagnetic properties. Journal of Alloys and Compounds, 2019, 792, 1206-1212.	emperature	2.8	11
1673	Spin communication over 30 <i>µ</i> m long channels of chemical vapor deposited g <sub>2</sub> . 2D Materials, 2019, 6, 034003.	raphene on SiO	2.0	36
1674	Spin polarization in graphene nanoribbons functionalized with nitroxide. Journal of Mo Modeling, 2019, 25, 58.	ecular	0.8	10

#	Article	IF	Citations
1675	Spin-filter effect by introducing an edge vacancy on armchair graphene nanoribbons with oxygen termination. Japanese Journal of Applied Physics, 2019, 58, 045001.	0.8	1
1676	The effect of structural defects on the electron transport of MoS2 nanoribbons based on density functional theory. Journal of Theoretical and Applied Physics, 2019, 13, 55-62.	1.4	5
1677	Tuning spin–orbit coupling in 2D materials for spintronics: a topical review. Journal of Physics Condensed Matter, 2019, 31, 193001.	0.7	48
1678	Oxidation of h-BN on strongly and weakly interacting metal surfaces. Nanotechnology, 2019, 30, 234004.	1.3	5
1679	The Thermal, Electrical and Thermoelectric Properties of Graphene Nanomaterials. Nanomaterials, 2019, 9, 218.	1.9	52
1680	Comparative study of electron transfer on various graphene-metallic contacts. Modern Physics Letters B, 2019, 33, 1950384.	1.0	1
1682	Effect of the low-resistance tunnel barriers induced inhomogeneous spin current distribution in graphene crossed configuration lateral spin valve. AIP Advances, 2019, 9, 115005.	0.6	3
1683	Characterizing the maximum number of layers in chemically exfoliated graphene. Scientific Reports, 2019, 9, 19480.	1.6	14
1684	Investigating the spin-orbit interaction in van der Waals heterostructures by means of the spin relaxation anisotropy. APL Materials, 2019, 7, .	2.2	7
1685	Proximity exchange coupling in a Fe/MgO/Si tunnel contact detected by the inverted Hanle effect. Physical Review B, 2019, 100, .	1.1	5
1686	Extrinsic spin-orbit coupling and spin relaxation in phosphorene. Physical Review B, 2019, 100, .	1.1	10
1687	Observation of giant spin–orbit interaction in graphene and heavy metal heterostructures. RSC Advances, 2019, 9, 31797-31805.	1.7	12
1688	Experimental and theoretical study of Tetrakis(dimethylamino)ethylene induced magnetism in otherwise nonmagnetic graphene derivatives. Materials Chemistry and Physics, 2019, 222, 132-138.	2.0	7
1689	Self-organization of ultra-thin uranium film. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 477-481.	0.9	0
1690	Direct observation of unusual interfacial Dzyaloshinskii-Moriya interaction in graphene/NiFe/Ta heterostructures. Physical Review B, 2019, 99, .	1.1	22
1691	Room-Temperature Spin Hall Effect in Graphene/MoS <sub>2</sub> van der Waals Heterostructures. Nano Letters, 2019, 19, 1074-1082.	4.5	186
1692	Rapid synthesis of graphene by chemical vapor deposition using liquefied petroleum gas as precursor. Carbon, 2019, 145, 462-469.	5.4	23
1693	Graphene Surface Reinforcement of Iron. Nanomaterials, 2019, 9, 59.	1.9	18

	ARTICLE	IF	CITATIONS
1694	On the Ferromagnetism and Band Tailoring of Crl <sub>3</sub> Single Layer. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800410.	1.2	20
1695	Spin-dependent transport properties of a graphene electrode-single quintuple bond [PhCrCrPh] molecule junction. Molecular Physics, 2019, 117, 768-775.	0.8	1
1696	Surface spin accumulation due to the inverse spin Hall effect in WS <sub>2</sub> crystals. 2D Materials, 2019, 6, 011007.	2.0	15
1697	Effect of hole doping and strain modulations on electronic structure and magnetic properties in ZnO monolayer. Applied Surface Science, 2019, 467-468, 22-29.	3.1	32
1698	Tunable mechanical, electronic and magnetic properties of monolayer C3N nanoribbons by external fields. Carbon, 2019, 143, 14-20.	5.4	29
1699	Spin relaxation in disordered graphene: Interplay between puddles and defect-induced magnetism. Journal of Physics and Chemistry of Solids, 2019, 128, 169-178.	1.9	5
1700	Carbon atomic chains in a spin thermoelectric device. Journal of Magnetism and Magnetic Materials, 2020, 497, 165980.	1.0	9
1701	Magnetic field effect on strained graphene junctions. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 115, 113672.	1.3	4
1702	Effect of atomic passivation at Ni-MoS2 interfaces on contact behaviors. Current Applied Physics, 2020, 20, 132-136.	1.1	5
1703	Spin-Dependent Electronic and Thermoelectric Transport Properties for a Sawtoothlike Graphene Nanoribbon Coupled to Two Ferromagnetic Leads. Journal of Low Temperature Physics, 2020, 198, 56-69.	0.6	3
1704	Unveiling multiferroic proximity effect in graphene. 2D Materials, 2020, 7, 015020.	2.0	7
1706	Introduction to Carbon-Based Nanostructures. , 2020, , 1-10.		0
1707	The New Family of Two-Dimensional Materials and van der Waals Heterostructures. , 2020, , 70-91.		0
1708	Quantum Transport: General Concepts. , 2020, , 92-119.		0
1709	Klein Tunneling and Ballistic Transport in Graphene and Related Materials. , 2020, , 120-144.		0
1710	Quantum Transport in Disordered Graphene-Based Materials. , 2020, , 145-209.		0
1711	Recent advances in two-dimensional ferromagnetism: materials synthesis, physical properties and device applications. Nanoscale, 2020, 12, 2309-2327.	2.8	67
1712	Amino-functionalization on graphene oxide sheets using an atomic layer amidation technique. Journal of Materials Chemistry C, 2020, 8, 700-705.	2.7	5

#	Article	IF	CITATIONS
1715	Electronic Properties of Carbon-Based Nanostructures. , 2020, , 11-69.		0
1716	Quantum Hall Effects in Graphene. , 2020, , 210-236.		0
1717	Spin-Related Phenomena. , 2020, , 237-277.		0
1718	Ab Initio and Multiscale Quantum Transport in Graphene-Based Materials. , 2020, , 293-353.		0
1722	Tunable electronic and magnetic properties of graphene/carbon-nitride van der Waals heterostructures. Applied Surface Science, 2020, 505, 144450.	3.1	61
1723	Manipulation of valley isospins in strained graphene for valleytronics. Carbon, 2020, 157, 578-582.	5.4	17
1724	Tunnelling magnetoresistance and spin filtration effect in functionalized graphene sheet with CrO2 as electrode: An ab-initio study. Journal of Magnetism and Magnetic Materials, 2020, 497, 166073.	1.0	9
1725	Spin multiple functional devices in zigzag-edged graphyne nanoribbons based molecular nanojunctions. Journal of Magnetism and Magnetic Materials, 2020, 498, 166223.	1.0	9
1726	Morphology and magnetism of Fe on graphene and thick graphite grown on SiC. Applied Surface Science, 2020, 505, 144209.	3.1	3
1727	Graphene/Halfâ€Metallic Heusler Alloy: A Novel Heterostructure toward Highâ€Performance Graphene Spintronic Devices. Advanced Materials, 2020, 32, 1905734.	11.1	16
1728	Spin insulatronics. Physics Reports, 2020, 885, 1-27.	10.3	83
1729	Recent advances in preparation and application of laser-induced graphene in energy storage devices. Materials Today Energy, 2020, 18, 100569.	2.5	43
1730	Exploring optoelectronic properties of ZnO monolayers originated from NaCl- and GeP-like polymorphs: A first-principles study. Results in Physics, 2020, 19, 103367.	2.0	9
1731	Facile Î <sup>3</sup> -ray irradiation synthesis of Pt/GA nanocomposite for catalytic reduction of 4-nitrophenol. Green Energy and Environment, 2021, 6, 734-742.	4.7	15
1732	Preparing dangling bonds by nanoholes on graphene oxide nanosheets and their enhanced magnetism. RSC Advances, 2020, 10, 36378-36385.	1.7	9
1733	Spin dependent group delay time in graphene with a time-periodic potential. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126734.	0.9	4
1734	Highly Ordered and Polycrystalline Graphene on Co(0001) Intercalated by Oxygen. Journal of Physical Chemistry C, 2020, 124, 17103-17110.	1.5	3
1735	First-principles study on stability, electronic and optical properties of Janus-functionalized ZnO monolayer and bilayer for optoelectronic device. Vacuum, 2020, 181, 109749.	1.6	6

#	Article	IF	CITATIONS
1736	Modeling and implementation of spin diode based on two dimensional materials using Monte Carlo sampling method. Circuit World, 2020, ahead-of-print, .	0.7	2
1737	Large exchange splitting in monolayer graphene magnetized by an antiferromagnet. Nature Electronics, 2020, 3, 604-611.	13.1	36
1738	Two-dimensional spintronic circuit architectures on large scale graphene. Carbon, 2020, 161, 892-899.	5.4	32
1739	Spin polarization of graphene on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt; <mml:mrow> <mml:msub> <mml:mi>Co</mml:mi> <mml:n observed by spin-polarized surface positronium spectroscopy. Physical Review B, 2020, 102, .</mml:n </mml:msub></mml:mrow></mml:math 	וח <b>ז:ג</b> <td>l:ໝn&gt;</td>	l:ໝn>
1740	Voltammetric Study of the Electrocatalytic Oxidation of Formaldehyde on Ptâ^'Pd Coâ€catalyst Supported on Reduced Graphene Oxide ¶. Electroanalysis, 2020, 32, 2733-2744.	1.5	3
1741	Spin and valley dependent transport in a monolayer MoS2 superlattice with extrinsic Rashba spin-orbit interaction. Journal of Magnetism and Magnetic Materials, 2020, 514, 167256.	1.0	6
1742	Polyacrylonitrile Infused in a Modified Honeycomb Aluminum Alloy Bipolar Plate and Its Acid Corrosion Resistance. ACS Omega, 2020, 5, 16976-16985.	1.6	13
1743	Thermoelectric transport properties of ferromagnetic graphene with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt; <mml:mrow> <mml:mi>C</mml:mi> <mml:mi>T</mml:mi> -invariant quantum spin Hall effect. Physical Review B, 2020, 102, .</mml:mrow></mml:math 	<td>ow<b>r</b>&gt; </td>	ow <b>r</b> >
1744	Cryogenic Materials and Circuit Integration for Quantum Computers. Journal of Electronic Materials, 2020, 49, 6844-6858.	1.0	2
1745	Synthesis and characterization of WS2/graphene/SiC van der Waals heterostructures via WO3â^'x thin film sulfurization. Scientific Reports, 2020, 10, 17334.	1.6	15
1746	Origin of the Giant Spin-Detection Efficiency in Tunnel-Barrier-Based Electrical Spin Detectors. Physical Review Applied, 2020, 14, .	1.5	4
1747	Graphitic-nitrogen-enhanced ferromagnetic couplings in nitrogen-doped graphene. Physical Review B, 2020, 102, .	1.1	19
1748	Ultimate Spin Currents in Commercial Chemical Vapor Deposited Graphene. ACS Nano, 2020, 14, 12771-12780.	7.3	33
1750	Spin Relaxation ins-Wave Superconductors in the Presence of Resonant Spin-Flip Scatterers. Physical Review Letters, 2020, 125, 087001.	2.9	4
1751	Optimal architecture for ultralow noise graphene transistors at room temperature. Nanoscale, 2020, 12, 17762-17768.	2.8	12
1752	Preparation of spintronically active ferromagnetic contacts based on Fe, Co and Ni Graphene nanosheets for Spin-Field Effect Transistor. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2020, 261, 114772.	1.7	12
1753	Observation of magnetic domains in graphene magnetized by controlling temperature, strain and magnetic field. Scientific Reports, 2020, 10, 21325.	1.6	8
1754	Robust Spin Interconnect with Isotropic Spin Dynamics in Chemical Vapor Deposited Graphene Layers and Boundaries. ACS Nano, 2020, 14, 15864-15873.	7.3	12

#	Article	IF	CITATIONS
1755	Graphene-Based One-Dimensional Terahertz Phononic Crystal: Band Structures and Surface Modes. Nanomaterials, 2020, 10, 2205.	1.9	4
1756	Layer-by-layer-stacked graphene/graphene-island supercapacitor. AIP Advances, 2020, 10, 055202.	0.6	6
1757	Nonlocal Spin Dynamics in the Crossover from Diffusive to Ballistic Transport. Physical Review Letters, 2020, 124, 196602.	2.9	17
1758	Suppression of Donor-Driven Spin Relaxation in Strained <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"&gt;<mml:msub><mml:mi>Si</mml:mi><mml:mrow><mml:mn>0.1</mml:mn></mml:mrow>Physical Review Applied. 2020. 13</mml:msub></mml:math 	1.5 msub> <n< td=""><td>nmi:msub&gt;&lt;</td></n<>	nmi:msub><
1759	Ultralong Spin Lifetime in Light Alkali Atom Doped Graphene. ACS Nano, 2020, 14, 7492-7501.	7.3	8
1760	<i>Colloquium</i> : Spintronics in graphene and other two-dimensional materials. Reviews of Modern Physics, 2020, 92, .	16.4	265
1761	The electronic structure of ideal graphene. , 2020, , 1-23.		0
1762	Characterization of magnetic states of graphene quantum dots of different shapes by application of electric field. Materials Today: Proceedings, 2020, 26, 2069-2072.	0.9	4
1765	Electron states in a magnetic field. , 2020, , 24-62.		1
1766	Quantum transport via evanescent waves. , 2020, , 63-76.		0
1767	The Klein paradox and chiral tunneling. , 2020, , 77-107.		0
1768	Edges, nanoribbons, and quantum dots. , 2020, , 108-140.		0
1769	Point defects. , 2020, , 141-167.		0
1770	Optics and response functions. , 2020, , 168-192.		0
1771	The Coulomb problem. , 2020, , 193-212.		0
1772	Crystal lattice dynamics, structure, and thermodynamics. , 2020, , 213-256.		0
1773	Gauge fields and strain engineering. , 2020, , 257-278.		0
1774	Scattering mechanisms and transport properties. , 2020, , 279-325.		0

#	Article	IF	CITATIONS
1775	Spin effects and magnetism. , 2020, , 326-350.		0
1776	Graphene on hexagonal boron nitride. , 2020, , 351-378.		0
1777	Twisted bilayer graphene. , 2020, , 379-388.		0
1778	Many-body effects in graphene. , 2020, , 389-400.		0
1781	Proposal for Unambiguous Electrical Detection of Spin-Charge Conversion in Lateral Spin Valves. Physical Review Letters, 2020, 124, 236803.	2.9	14
1782	Recent breakthroughs in two-dimensional van der Waals magnetic materials and emerging applications. Nano Today, 2020, 34, 100902.	6.2	49
1783	Thermoelectric properties of graphene-like nanoribbon studied from the perspective of symmetry. Scientific Reports, 2020, 10, 9105.	1.6	7
1784	Electrically Controlled Spin Injection from Giant Rashba Spin–Orbit Conductor BiTeBr. Nano Letters, 2020, 20, 4782-4791.	4.5	27
1785	2D materials for spintronic devices. Npj 2D Materials and Applications, 2020, 4, .	3.9	269
1786	Layered topological semimetals for spintronics. , 2020, , 273-298.		0
1786 1787	Layered topological semimetals for spintronics. , 2020, , 273-298. Electrical properties and applications. , 2020, , 173-249.		0
1786 1787 1788	Layered topological semimetals for spintronics. , 2020, , 273-298.        Electrical properties and applications. , 2020, , 173-249.        Review on spintronics: Principles and device applications. Journal of Magnetism and Magnetic Materials, 2020, 509, 166711.	1.0	0 1 711
1786 1787 1788 1788	Layered topological semimetals for spintronics. , 2020, , 273-298.        Electrical properties and applications. , 2020, , 173-249.        Review on spintronics: Principles and device applications. Journal of Magnetism and Magnetic Materials, 2020, 509, 166711.        Electro-absorption spectra of magnetic states of diamond shaped graphene quantum dots. Materials Today: Proceedings, 2020, 26, 2058-2061.	1.0	0 1 711 5
1786 1787 1788 1789 1790	Layered topological semimetals for spintronics. , 2020, , 273-298.        Electrical properties and applications. , 2020, , 173-249.        Review on spintronics: Principles and device applications. Journal of Magnetism and Magnetic Materials, 2020, 509, 166711.        Electro-absorption spectra of magnetic states of diamond shaped graphene quantum dots. Materials Today: Proceedings, 2020, 26, 2058-2061.        Structures, Mobilities, and Electronic Properties of Functionalized Silicene: Superhalogen BO <sub> 2</sub>	1.0 0.9 1.9	0 1 711 5 14
1786 1787 1788 1789 1790	Layered topological semimetals for spintronics. , 2020, , 273-298.        Electrical properties and applications. , 2020, , 173-249.        Review on spintronics: Principles and device applications. Journal of Magnetism and Magnetic Materials, 2020, 509, 166711.        Electro-absorption spectra of magnetic states of diamond shaped graphene quantum dots. Materials Today: Proceedings, 2020, 26, 2058-2061.        Structures, Mobilities, and Electronic Properties of Functionalized Silicene: Superhalogen BO <sub>2         Experimental Observation of Strong Exciton Effects in Graphene Nanoribbons. Nano Letters, 2020, 20, 20, 20, 20, 20, 20, 20, 20,</sub>	1.0 0.9 1.9 4.5	0 1 711 5 14
1786 1787 1788 1789 1790 1791	Layered topological semimetals for spintronics. , 2020, , 273-298.        Electrical properties and applications. , 2020, , 173-249.        Review on spintronics: Principles and device applications. Journal of Magnetism and Magnetic Materials, 2020, 509, 166711.        Electro-absorption spectra of magnetic states of diamond shaped graphene quantum dots. Materials Today: Proceedings, 2020, 26, 2058-2061.        Structures, Mobilities, and Electronic Properties of Functionalized Silicene: Superhalogen BO <sub>2</sub> Adsorption. Inorganic Chemistry, 2020, 59, 5041-5049.        Experimental Observation of Strong Exciton Effects in Graphene Nanoribbons. Nano Letters, 2020, 20, 20, 2093-3002.        Topological spinâ€"valley filtering effects based on hybrid silicene-like nanoribbons. New Journal of Physics, 2020, 22, 053034.	1.0 0.9 1.9 4.5	0 1 711 5 14 52 20
1786 1787 1788 1789 1790 1791 1792	Layered topological semimetals for spintronics., 2020, , 273-298.        Electrical properties and applications., 2020, , 173-249.        Review on spintronics: Principles and device applications. Journal of Magnetism and Magnetic Materials, 2020, 509, 166711.        Electro-absorption spectra of magnetic states of diamond shaped graphene quantum dots. Materials Today: Proceedings, 2020, 26, 2058-2061.        Structures, Mobilities, and Electronic Properties of Functionalized Silicene: Superhalogen BO <sub>2</sub> Adsorption. Inorganic Chemistry, 2020, 59, 5041-5049.        Experimental Observation of Strong Exciton Effects in Graphene Nanoribbons. Nano Letters, 2020, 20, 20, 293-3002.        Topological spinâc <sup>Ci</sup> valley filtering effects based on hybrid silicene-like nanoribbons. New Journal of Physics, 2020, 22, 053034.        Enhanced Valley Zeeman Splitting in Fe-Doped Monolayer MoS <sub>2</sub> . ACS Nano, 2020, 14, 4636-4645.	1.0 0.9 1.9 4.5 1.2 7.3	0 1 711 5 14 52 20 69

#	Article	IF	CITATIONS
1795	Gate tunability of highly efficient spin-to-charge conversion by spin Hall effect in graphene proximitized with WSe2. APL Materials, 2020, 8, .	2.2	42
1796	Selfâ€Adhesive Polyimide (PI)@Reduced Graphene Oxide (RGO)/PI@Carbon Nanotube (CNT) Hierarchically Porous Electrodes: Maximizing the Utilization of Electroactive Materials for Organic Liâ€Ion Batteries. Energy Technology, 2020, 8, 2000397.	1.8	18
1797	Electronic response of phagraphene membranes to excess charge carriers. Solid State Communications, 2020, 318, 113979.	0.9	3
1798	Growth and properties of magnetic two-dimensional transition-metal chalcogenides. , 2020, , 227-251.		3
1799	Optoelectronic and photoelectric properties and applications of graphene-based nanostructures. Materials Today Physics, 2020, 13, 100196.	2.9	42
1800	Magnetism and spintronics in graphene. , 2020, , 103-150.		0
1801	Magnetism and spintronics in graphene oxide. , 2020, , 151-181.		2
1802	Switchable crossed spin conductance in a graphene-based junction: The role of spin-orbit coupling. Scientific Reports, 2020, 10, 2009.	1.6	2
1803	Separation of Spin and Charge Transport in Pristine <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"&gt;<mml:mrow><mml:mi>ï€</mml:mi></mml:mrow> -Conjugated Polymers. Physical Review Letters, 2020, 124, 067702.</mml:math 	2.9	14
1804	Magnetic properties of graphene. , 2020, , 137-161.		11
1805	Infrared barriering behavior of reduced graphene oxide aerogel/ antimony tin oxide-polyaniline hybrids. Ceramics International, 2020, 46, 10971-10978.	2.3	3
1806	Introduction: carbon and carbon nanomaterials. , 2020, , 23-45.		2
1807	Quantum Transport beyond DC. , 2020, , 278-292.		0
1809	Metal-graphene interfaces in epitaxial and bulk systems: A review. Progress in Materials Science, 2020, 110, 100652.	16.0	114
1810	Adiabatic and non-adiabatic quantum charge and spin pumping in zigzag and armchair graphene nanoribbons. Journal of Applied Physics, 2020, 127, 164303.	1.1	4
1811	Influence of interface induced valley-Zeeman and spin-orbit couplings on transport in heterostructures of graphene on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:msub> <mml:mi>WSe</mml:mi> <mml:mn>2<td> m∏&gt;<td>l:msub&gt;</td></td></mml:mn></mml:msub></mml:math>	 m∏> <td>l:msub&gt;</td>	l:msub>
1812	Influence of the velocity barrier on the massive Dirac electron transport in a monolayer MoS2 quantum structure. Frontiers of Physics, 2020, 15, 1.	2.4	7
1813	Gate-Tunable Reversible Rashba–Edelstein Effect in a Few-Layer Graphene/2H-TaS <sub>2</sub> Heterostructure at Room Temperature. ACS Nano, 2020, 14, 5251-5259.	7.3	50

<b>?</b> Τ

#	Article	IF	CITATIONS
1814	Universal Design Platform for an Extended Class of Photonic Dirac Cones. Physical Review Applied, 2020, 13, .	1.5	12
1815	Single-layer graphene on epitaxial FeRh thin films. Applied Surface Science, 2020, 514, 145923.	3.1	9
1816	Spintronics in Two-Dimensional Materials. Nano-Micro Letters, 2020, 12, 93.	14.4	78
1817	Bipolar magnetic semiconductor properties and spin-dependent Seebeck effects induced by nanoscale graphene domains doped into armchair boron nitride nanoribbons. Chemical Physics Letters, 2020, 748, 137386.	1.2	2
1818	Rapid chemical vapor deposition of graphene using methanol as a precursor. Carbon Letters, 2021, 31, 307-313.	3.3	6
1819	Gate controllable optical spin current generation in zigzag graphene nanoribbon. Carbon, 2021, 173, 565-571.	5.4	17
1820	Synchrotron X-ray standing wave Characterization of atomic arrangement at interface between transferred graphene and I±-Al2O3(0001). Surface Science, 2021, 704, 121749.	0.8	7
1821	Spin susceptibilities of doped bilayer graphene in the presence of magnetic ordering. Solid State Communications, 2021, 323, 114074.	0.9	1
1822	2D Polarized Materials: Ferromagnetic, Ferrovalley, Ferroelectric Materials, and Related Heterostructures. Advanced Materials, 2021, 33, e2004469.	11.1	45
1823	Adsorption of C6H6 and C7H8 onto pristine and metal (Pd, Pt)-mediated ZnO monolayers: Electronic and gas sensing properties. Applied Surface Science, 2021, 542, 148767.	3.1	29
1824	Spin transport in multilayer graphene away from the charge neutrality point. Carbon, 2021, 172, 474-479.	5.4	3
1825	Spin injection characteristics of Py/graphene/Pt by gigahertz and terahertz magnetization dynamics driven by femtosecond laser pulse. AIP Advances, 2021, 11, 015321.	0.6	3
1826	High magnetoresistance and perfect spin filtering effect in silicane/germanene based magnetic Li <sub>0.5</sub> Crl <sub>3</sub>   Si/Ge   Li <sub>0.5</sub> Crl <sub>3</sub> tunnel junctions. Journal of Materials Chemistry C, 2021, 9, 13799-13809.	2.7	3
1827	Femtosecond laser-induced spin dynamics in single-layer graphene/CoFeB thin films. Nanoscale, 2021, 13, 13709-13718.	2.8	9
1828	Synthesis and processing. , 2021, , 57-118.		0
1829	Graphene: A two dimensional super material for sensor applications. Materials Today: Proceedings, 2021, 43, 203-208.	0.9	12
1830	A comparative study of electrical and opto-electrical properties of a few-layer p-WSe <sub>2</sub> /n-WS <sub>2</sub> heterojunction diode on SiO <sub>2</sub> and h-BN substrates. RSC Advances, 2021, 11, 17901-17909.	1.7	6
1831	Graphene on two-dimensional hexagonal BN, AlN, and GaN: Electronic, spin-orbit, and spin relaxation properties. Physical Review B, 2021, 103, .	1.1	18

#	Article	IF	CITATIONS
1832	Pulsed-gate spectroscopy of single-electron spin states in bilayer graphene quantum dots. Physical Review B, 2021, 103, .	1.1	14
1833	Rational Design of Two-Dimensional Magnetic Chromium Borides Based on First-Principles Calculation. Chinese Physics Letters, 2021, 38, 027501.	1.3	2
1834	Nanostructured Graphene on β-SiC/Si(001): Atomic and Electronic Structures, Magnetic and Transport Properties (Brief Review). JETP Letters, 2021, 113, 176-193.	0.4	3
1835	Spin-dependent transport properties in heavy-metal adatom decorated graphene nanoribbons. Results in Physics, 2021, 22, 103949.	2.0	0
1836	Intercalation of germanium oxide beneath large-area and high-quality epitaxial graphene on Ir(111) substrate*. Chinese Physics B, 2021, 30, 048102.	0.7	7
1837	Study of magnetic order of domain walls based on zigzag graphene nanoribbons under size effect. Synthetic Metals, 2021, 273, 116694.	2.1	15
1838	Embedding atomic cobalt into graphene lattices to activate room-temperature ferromagnetism. Nature Communications, 2021, 12, 1854.	5.8	73
1839	Ultrahigh-temperature ferromagnetism in MoS2 Moiré superlattice/graphene hybrid heterostructures. Nano Research, 2021, 14, 4182.	5.8	7
1840	Polarization amplification by spin-doping in nanomagnetic/graphene hybrid systems. Physical Review Materials, 2021, 5, .	0.9	2
1841	Roadmap for the Design of All Ferromagnetic Four-Terminal Spin Valves and the Extraction of Spin Diffusion Length. Physical Review Applied, 2021, 15, .	1.5	2
1842	Innovation of Materials, Devices, and Functionalized Interfaces in Organic Spintronics. Advanced Functional Materials, 2021, 31, 2100550.	7.8	47
1843	Room-temperature electron spin polarization exceeding 90% in an opto-spintronic semiconductor nanostructure via remote spin filtering. Nature Photonics, 2021, 15, 475-482.	15.6	27
1844	Tunneling magnetoresistance and spin-valley polarization in magnetic silicene superlattices. Physical Review B, 2021, 103, .	1.1	19
1845	Tunable lateral spin polarization and spin-dependent collimation in velocity-modulated ferromagnetic-gate graphene structures. Journal of Superconductivity and Novel Magnetism, 2021, 34, 2573-2581.	0.8	0
1846	Modulating the spin-dependent electronic structures and transport properties of zigzag \$\$upalpha \$\$-2 graphyne nanoribbons by boron doping. European Physical Journal B, 2021, 94, 1.	0.6	3
1847	Role of Berry curvature in the generation of spin currents in Rashba systems. Physical Review B, 2021, 103, .	1.1	10
1848	Chiral tunneling in single-layer graphene with Rashba spin-orbit coupling: Spin currents. Physical Review B, 2021, 103, .	1.1	5
1849	Enhanced Spin Injection in Molecularly Functionalized Graphene via Ultrathin Oxide Barriers. Physical Review Applied, 2021, 15, .	1.5	2

#	Article	IF	CITATIONS
1850	Electrical and thermal generation of spin currents by magnetic bilayer graphene. Nature Nanotechnology, 2021, 16, 788-794.	15.6	71
1851	Oxygen migration induced effective magnetic and resistive switching boosted by graphene quantum dots. Journal of Alloys and Compounds, 2021, 863, 158339.	2.8	14
1852	Effect of Back-Gate Voltage on the High-Frequency Performance of Dual-Gate MoS2 Transistors. Nanomaterials, 2021, 11, 1594.	1.9	5
1853	Control of the local magnetic states in graphene with voltage and gating. Physical Review B, 2021, 103,	1.1	4
1854	Recent progress and challenges in magnetic tunnel junctions with 2D materials for spintronic applications. Applied Physics Reviews, 2021, 8, .	5.5	74
1855	Van der Waals heterostructures for spintronics and opto-spintronics. Nature Nanotechnology, 2021, 16, 856-868.	15.6	261
1856	The Magic Kingdom of imperfect graphene. MRS Bulletin, 2021, 46, 650-654.	1.7	0
1857	The pure paramagnetism in graphene oxide. Results in Physics, 2021, 26, 104407.	2.0	8
1858	Magnetoresistance effect in vertical NiFe/graphene/NiFe junctions. Chinese Physics B, 0, , .	0.7	0
1859	MgO intercalation and crystallization between epitaxial graphene and Ru(0001). Rare Metals, 0, , 1.	3.6	5
1860	Observation of Anisotropic Magnetoresistance in Layered Nonmagnetic Semiconducting PdSe <sub>2</sub> . ACS Applied Materials & Interfaces, 2021, 13, 37527-37534.	4.0	9
1861	Giant Photoâ€Magnetoâ€Thermoelectric Effect of Endâ€On Oriented PEDOT Grown from Selfâ€Assembled 3D Tectons. Advanced Functional Materials, 2021, 31, 2105297.	7.8	5
1862	Spin Hall and inverse spin galvanic effects in graphene with strong interfacial spin-orbit coupling: A quasi-classical Green's function approach. Physical Review Research, 2021, 3, .	1.3	3
1863	Characteristic study of exfoliated graphene particles from waste batteries. Brazilian Journal of Chemical Engineering, 0, , 1.	0.7	0
1864	2D Organic Radical Conjugated Skeletons with Paramagnetic Behaviors. Advanced Materials Interfaces, 2021, 8, 2100943.	1.9	3
1865	Experimental advances in charge and spin transport in chemical vapor deposited graphene. JPhys Materials, 2021, 4, 042007.	1.8	10
1866	Abrikosov vortex corrections to effective magnetic field enhancement in epitaxial graphene. Physical Review B, 2021, 104, .	1.1	1
1867	Observation of magnetoresistance in Crl <sub>3</sub> /graphene van derWaals heterostructures*. Chinese Physics B, 2021, 30, 117506.	0.7	6

#	Article	IF	CITATIONS
1868	Comprehensive mechanism of ferromagnetism enhancement in nitrogen-doped graphene. New Journal of Physics, 2021, 23, 103003.	1.2	3
1869	Three-dimensional hollow graphene–metallic nanocomposite foam manufactured by polymer-templated electrochemical co-deposition. Journal of Materials Research, 0, , 1.	1.2	0
1870	Ferroelectricity and Rashba effect in 2D organic–inorganic hybrid perovskites. Trends in Chemistry, 2021, 3, 716-732.	4.4	34
1871	Graphene functionalized hybrid nanomaterials for industrial-scale applications: A systematic review. Journal of Molecular Structure, 2021, 1239, 130518.	1.8	37
1872	Influence of vacancy defects on the electronic structure and magnetic properties of Cu-doped ZnO monolayers: A first-principles study. Materials Today Communications, 2021, 28, 102722.	0.9	1
1873	Chemical vapor deposition of graphene by ethanol decomposition and its smooth transfer. Journal of Materials Research, 2021, 36, 3258.	1.2	0
1874	Silicene-Based Spin Filter With High Spin-Polarization. IEEE Transactions on Electron Devices, 2021, 68, 5095-5100.	1.6	2
1875	Enhanced sensitivity of graphene nanoribbon gas sensor for detection of oxides of nitrogen using boron and phosphorus co-doped system: A first principles study. Sensors and Actuators A: Physical, 2021, 331, 112897.	2.0	9
1876	Spin states modulation of Four-Nitrogen coordinated Transition-Metal (TMN4) embedded graphene. Applied Surface Science, 2021, 570, 151126.	3.1	6
1877	Edge State Induced Spintronic Properties of Graphene Nanoribbons: A Theoretical Perspective. Advances in Sustainability Science and Technology, 2021, , 165-198.	0.4	0
1878	Magnetic response and electronic states of well defined Graphene/Fe/Ir(111) heterostructure. Physical Review Materials, 2021, 5, .	0.9	4
1879	Length-independent multifunctional device based on penta-tetra-pentagonal molecule: a first-principles study. Journal of Materials Chemistry C, 2021, 9, 3652-3660.	2.7	27
1880	Electronic Transport Properties of Phenalenyl Molecular Devices via Gated Modulation. Journal of Applied Mathematics and Physics, 2021, 09, 503-514.	0.2	2
1881	Magnetic Memory and Logic. , 2021, , 1-40.		0
1884	First-Principles Study of the Electronic and Magnetic Properties of Defects in Carbon Nanostructures. Carbon Materials, 2013, , 41-76.	0.2	1
1885	Interactions of ethanethiol with defective graphene: First- Principle calculations. Energy Procedia, 2011, 11, 2762-2768.	1.8	1
1888	Detection of adsorbed transition-metal porphyrins by spin-dependent conductance of graphene nanoribbon. RSC Advances, 2017, 7, 29112-29121.	1.7	8
1889	A high performance N-doped graphene nanoribbon based spintronic device applicable with a wide range of adatoms. Nanoscale Advances, 2020, 2, 5905-5911.	2.2	10

#	Article	IF	CITATIONS
1890	The effect of Rashba spin–orbit interaction on the spin-polarized transport of zigzag phosphorene nanoribbons. Journal Physics D: Applied Physics, 2020, 53, 465302.	1.3	5
1891	Different noncollinear magnetizations on two edges of zigzag graphene nanoribbons. Chinese Physics B, 2020, 29, 127201.	0.7	1
1892	Generic phase diagram of spin relaxation in solids and the Loschmidt echo. Physical Review Research, 2020, 2, .	1.3	3
1893	Modulation of Magnetoresistance Polarity in BLG/SL-MoSe2 Heterostacks. Nanoscale Research Letters, 2020, 15, 136.	3.1	4
1894	Recent Advances in Two-Dimensional Spintronics. Nanoscale Research Letters, 2020, 15, 226.	3.1	52
1895	Magnetic Field Effects in π-Conjugated Systems. , 2010, , 217-255.		5
1896	Ab Initio Study of the Edge States of Graphene Nanoribbons in the Presence of Electrodes. Acta Physica Polonica A, 2010, 118, 856-858.	0.2	2
1897	Magneto-optical effects in the Landau level manifold of 2D lattices with spin-orbit interaction. Optics Express, 2019, 27, 23217.	1.7	21
1898	Distinguishing the inverse spin Hall effect photocurrent of electrons and holes by comparing to the classical Hall effect. Optics Express, 2020, 28, 8331.	1.7	1
1899	Magneto-optic modulation of lateral and angular shifts in spin-orbit coupled members of the graphene family. OSA Continuum, 2020, 3, 878.	1.8	21
1900	Graphene Epitaxially Grown on Vicinal 4H-SiC(0001) Substrates. E-Journal of Surface Science and Nanotechnology, 2009, 7, 29-34.	0.1	3
1901	Physics of Graphene. Hyomen Kagaku, 2008, 29, 296-303.	0.0	3
1904	Energy transport in EuAl2.07(B4O10)O0.6 nanocrystals with two-dimensional Eu3+ sublattice. Functional Materials, 2017, 24, 516-520.	0.4	1
1905	Graphene Systems: Methods of Fabrication and Treatment, Structure Formation, and Functional Properties. Progress in Physics of Metals, 2010, 11, 95-138.	0.5	13
1906	Dielectric magnonics: from gigahertz to terahertz. Physics-Uspekhi, 2020, 63, 945-974.	0.8	40
1907	Magnetoresistance in Metal/graphene/metal Junctions. Journal of the Magnetics Society of Japan, 2010, 34, 34-38.	0.5	5
1908	Magnetism of Edge Modified Nano-graphene. Journal of the Magnetics Society of Japan, 2012, 36, 36-41.	0.5	4
1909	Characterization of Nanometer-Spaced Few-Layer Graphene Electrodes. Graphene, 2012, 01, 26-29.	0.3	27

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## # ARTICLE

Materials for Spintronics: Magnetic and Transport Properties of Ultrathin (Monolayer) Tj ETQq0 0 0 rgBT /Overlock  $10_{0.3}$  Tf 50 742 Td (Gra

1911	Concepts for Domain Wall Motion in Nanoscale Ferromagnetic Elements due to Spin Torque and in Particular Oersted Fields. Journal of Magnetics, 2009, 14, 53-61.	0.2	9
1912	Strategies for Fabricating Nanogap Single-Crystal Organic Transistors. ISRN Nanotechnology, 2012, 2012, 1-6.	1.3	1
1913	Synthesis and Structural Studies on MgO Nanoparticles Suitable for Tunnel Barrier Applications. Journal of Basic & Applied Sciences, 0, 11, 645-648.	0.8	3
1914	Electrically-Generated Pure Spin Current in Graphene. Japanese Journal of Applied Physics, 2012, 51, 08KA01.	0.8	4
1915	Proximity Effect of Epitaxial Iron Phthalocyanine Molecules on High-Quality Graphene Devices. Chinese Physics Letters, 2021, 38, 087201.	1.3	1
1916	Control of spin–charge conversion in van der Waals heterostructures. APL Materials, 2021, 9, .	2.2	20
1917	Theory of spin–charge-coupled transport in proximitized graphene: an SO(5) algebraic approach. JPhys Materials, 2021, 4, 045006.	1.8	4
1918	Radiation damage and defect dynamics in 2D WS <sub>2</sub> : a low-voltage scanning transmission electron microscopy study. 2D Materials, 2022, 9, 015009.	2.0	13
1920	Effects of Interface States between Organic Molecules and Ferromagnetic Metals on Organic Molecular Spintronics. Journal of the Vacuum Society of Japan, 2008, 51, 589-593.	0.3	0
1921	Appearances and Disappearances of Flat Bands in Nanographene Ribbons with Multiple Periodicities by Edge Modification. Transactions of the Materials Research Society of Japan, 2010, 35, 555-561.	0.2	0
1922	Spin Injection and Detection in Spin Valves with Integrated Tunnel Barriers. Nanoscience and Technology, 2010, , 327-351.	1.5	0
1923	Electronic structure and magnetism of single-layer trigonal graphene quantum dots with zigzag edges. Wuli Xuebao/Acta Physica Sinica, 2010, 59, 6443.	0.2	5
1924	Spintronic Applications of Organic Materials. , 2010, , 137-216.		0
1925	Magnetoresistance and Spin Transport in Organic Semiconductor Devices. , 2010, , 67-136.		1
1926	Silicon Spintronics. Journal of the Korean Magnetics Society, 2011, 21, 67-76.	0.0	0
1928	Electronic Transport in Graphene. , 2012, , 59-94.		0
1930	Graphene spintronics. , 2014, , 117-132.		0

#	Article	IF	CITATIONS
1932	Carrier Type Reversal of Graphene Multilayered Thin Films. Ukrainian Journal of Physics, 2014, 59, 426-432.	0.1	0
1933	Spin Transport in Carbon Nanotubes and Graphene: Experiments and Theory. , 2015, , 1-21.		0
1934	Domain Wall Memory Device. , 2015, , 1-46.		0
1935	Conduction and Spin Transport via Edge States in Randomly Hydrogenated Graphene Nano-Ribbon. , 2015, , .		0
1937	Spin Transport in Disordered Graphene. Springer Theses, 2016, , 115-139.	0.0	0
1938	Magnetoresistance in Graphene-Based Ferromagnetic/ Rashba Barrier/Ferromagnetic Heterojunction. Acta Physica Polonica A, 2016, 129, 75-78.	0.2	0
1939	Domain Wall Memory Device. , 2016, , 1387-1441.		2
1941	Reflection of Slow Electrons from Graphene on (110)Mo. Metallofizika I Noveishie Tekhnologii, 2016, 37, 1183-1201.	0.2	0
1942	12 Current Topics in Graphene and Carbon Nanotube Research. , 2016, , 223-246.		0
1943	Defect Characterization and Metrology. , 2017, , 631-678.		0
1944	First-principles study of magnetic order in graphene nanoflakes as spin logic devices. Wuli Xuebao/Acta Physica Sinica, 2018, 67, 217101.	0.2	1
1945	Non-collinear magnetism and electronic transport of boron or nitrogen doped zigzag graphene nanoribbon. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 027101.	0.2	1
1946	Research of Quantum Beam Science. Atomos, 2019, 61, 403-407.	0.0	0
1947	Two-Qubit Logic Gates Based on the Ultrafast Spin Transfer in π-Conjugated Graphene Nanoflakes. SSRN Electronic Journal, 0, , .	0.4	0
1948	Carbon Allotropes. , 2020, , 143-162.		0
1949	Superimposed contributions to two-terminal and nonlocal spin signals in lateral spin-transport devices. Physical Review B, 2021, 104, .	1.1	3
1950	Twist the doorknob to open the electronic properties of graphene-based van der Waals structure. Matter, 2021, 4, 3444-3482.	5.0	12
1951	Modulation of electrical performance of zigzag edged tetra-penta-octagonal graphene nanoribbons based devices via boundary passivations. Results in Physics, 2021, 31, 104945.	2.0	7

#	ARTICLE	IF	Citations
1952	devices with Co2FeSi. Applied Physics Letters, 2021, 119, .	1.5	8
1953	Electronic Spin Transport. Advances in Computer and Electrical Engineering Book Series, 0, , 530-586.	0.2	ο
1954	Engineering ferromagnetic lines in graphene by local oxidation and hydrogenation using nanoscale lithography. Journal Physics D: Applied Physics, 2021, 54, 074002.	1.3	1
1955	Proximity-induced magnetization in graphene: Towards efficient spin gating. Physical Review Materials, 2020, 4, .	0.9	2
1956	Quantum transport: general concepts. , 0, , 91-117.		1
1957	Imaging atomic motion of light elements in 2D materials with 30 kV electron microscopy. Nanoscale, 2021, 13, 20683-20691.	2.8	5
1958	Magnetic Memory and Logic. , 2021, , 1553-1592.		1
1959	T-carbon: Experiments, properties, potential applications and derivatives. Nano Today, 2022, 42, 101346.	6.2	23
1960	Perfect spin filtering effect, tunnel magnetoresistance and thermoelectric effect in metals-adsorbed blue phosphorene nanoribbons. Physica B: Condensed Matter, 2022, 626, 413580.	1.3	7
1961	Fundamentals of Spin Dynamics in Two-Dimensional Materials. Springer Theses, 2022, , 13-44.	0.0	0
1963	Surface Engineering of Substrates for Chemical Vapor Deposition Growth of Graphene and Applications in Electronic and Spintronic Devices. Chemistry of Materials, 2021, 33, 8960-8989.	3.2	9
1964	Reliability of spin-to-charge conversion measurements in graphene-based lateral spin valves. 2D Materials, 2022, 9, 015024.	2.0	12
1965	Gate-Voltage-Modulated Spin Precession in Graphene/WS2 Field-Effect Transistors. Electronics (Switzerland), 2021, 10, 2879.	1.8	5
1966	Room temperature two terminal tunnel magnetoresistance in a lateral graphene transistor. Nanoscale, 2021, 13, 20028-20033.	2.8	0
1967	Tunable Spin Injection in High-Quality Graphene with One-Dimensional Contacts. Nano Letters, 2022, 22, 935-941.	4.5	7
1968	Electrically tunable Goos-Hächen shift in two-dimensional quantum materials. Optical Materials Express, 2022, 12, 421.	1.6	17
1969	Spin transport in epitaxial Fe <sub>3</sub> O <sub>4</sub> /GaAs lateral structured devices. Chinese Physics B, 2022, 31, 068505.	0.7	3
1970	Spin-orbit pumping. Physical Review B, 2022, 105, .	1.1	2
#	Article	IF	CITATIONS
------	--	-----	-----------
1971	Gate-induced half metals in Bernal-stacked graphene multilayers. Physical Review B, 2022, 105, .	1.1	3
1972	Suppression of impurity magnetization by the saddle points. Journal of Physics Condensed Matter, 2022, , .	0.7	1
1973	Detection of extremely large magnetoresistance in a ring-shaped array of magnetic quantum dots with very high performance and controllable parameters. Physical Chemistry Chemical Physics, 2022, 24, 2859-2865.	1.3	0
1974	Magnetothermoelectric properties of Al-Porphyrin sandwiched by graphene nanoribbon electrode based on quantum interference. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 139, 115189.	1.3	1
1975	Quantum interference and domain–wall-like magnetic correlations in hexagonal graphene nanodisks. Journal of Physics Condensed Matter, 2022, 34, 225804.	0.7	0
1976	Unveiling a Chemisorbed Crystallographically Heterogeneous Graphene/ <i>L</i> 1 <sub>0</sub> -FePd Interface with a Robust and Perpendicular Orbital Moment. ACS Nano, 2022, 16, 4139-4151.	7.3	10
1977	Magnetic Interplay between <i>ï€</i> â€Electrons of Openâ€Shell Porphyrins and <i>d</i> â€Electrons of Their Central Transition Metal Ions. Advanced Science, 2022, 9, e2105906.	5.6	9
1978	Ab initio studies of the electronic structure induced by the CO and N2 adsorptions on graphene and on graphite slab. Materials Today: Proceedings, 2022, 62, 6287-6297.	0.9	1
1979	Proximity enhanced magnetism at NiFe2O4/Graphene interface. AIP Advances, 2022, 12, .	0.6	3
1980	Nanodiamond as carbon source of precipitation of multilayer graphene on Si substrate. Japanese Journal of Applied Physics, 0, , .		0
1981	Organic–Inorganic Hybrid Interfaces for Spin Injection into Carbon Nanotubes and Graphene. Advanced Quantum Technologies, 2022, 5, .		1
1982	Thermodynamic properties of phagraphene. Molecular Simulation, 2022, 48, 712-718.	0.9	1
1983	Adsorption Characteristics of Gas Molecules Adsorbed on Graphene Doped with Mn: A First Principle Study. Molecules, 2022, 27, 2315.	1.7	6
1984	Two-qubit logic gates based on the ultrafast spin transfer in π-conjugated graphene nanoflakes. Carbon, 2022, 193, 195-204.	5.4	6
1985	Electronic transport properties of compressed and stretched helicene-graphene nanostructures, a theoretical study. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 141, 115111.	1.3	2
1986	Tuning the magnetic anisotropy energy by external electric fields of CoPt dimers deposited on graphene. Physical Chemistry Chemical Physics, 2022, 24, 9576-9588.	1.3	4
1987	Charge transport in topological graphene nanoribbons and nanoribbon heterostructures. Physical Review B, 2022, 105, .	1.1	10
1988	The Magnetic Genome of Two-Dimensional van der Waals Materials. ACS Nano, 2022, 16, 6960-7079.	7.3	149

#		IF	CITATIONS
π			CHAHONS
1989	Kiem turniening and banistic transport in graphene and related materials. , 0, , 116-142.		0
1990	Quantum transport in disordered graphene-based materials. , 0, , 143-218.		0
1991	Ab initio and multiscale quantum transport in graphene-based materials. , 0, , 232-299.		0
1992	Electronic structure calculations: the density functional theory (DFT). , 0, , 314-331.		0
1993	Electronic structure calculations: the many-body perturbation theory (MBPT). , 0, , 332-337.		0
1994	Green's functions and ab initio quantum transport in the Landauer–Büttiker formalism. , 0, , 338-357.		0
1996	Quantumâ€Engineered Devices Based on 2D Materials for Nextâ€Generation Information Processing and Storage. Advanced Materials, 2023, 35, e2109894.	11.1	22
1997	Enhanced Magnetoresistance Effect in Graphene Coupled to a Ferromagnetic Oxide with Charge Orbital Ordering. Spin, 2022, 12, .	0.6	1
1998	Magnetic field dependent two-photon absorption properties in monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt; <mml:msub> <mml:mi>MoS </mml:mi> <mml:mn>2 Physical Review B, 2022, 105, .</mml:mn></mml:msub></mml:math 	m <b>a.ı</b> <td>nl:msub&gt;</td>	nl:msub>
1999	Synthesis of Pure Thiophene–Sulfur-Doped Graphene for an Oxygen Reduction Reaction with High Performance. Journal of Physical Chemistry Letters, 2022, 13, 4350-4356.	2.1	5
2000	Exploration on magnetic and electrochemical properties of nitrogen and phosphorus Co-doped ordered mesoporous carbon for supercapacitor applications. Microporous and Mesoporous Materials, 2022, 338, 111959.	2.2	13
2001	Large suppression of spin-relaxation rate in graphene nanoribbons in the presence of magnetic impurities. Physical Review B, 2022, 105, .	1.1	1
2002	Effect of Structure on Vibration Frequency of the Graphene Nanoribbon. Advances in Condensed Matter Physics, 2022, 11, 13-20.	0.1	0
2003	Controllable spin diode based on a semiconductor quantum dot. Japanese Journal of Applied Physics, 0, , .	0.8	3
2004	Temperature effects on the conductance, spin-valley polarization and tunneling magnetoresistance of single magnetic silicene junctions. Journal of Physics Condensed Matter, 2022, 34, 305304.	0.7	1
2005	Spin-wave resonance frequency and low-temperature properties of an antiferromagnetic graphene-like bilayer system. Physica B: Condensed Matter, 2022, , 414053.	1.3	2
2006	Half-metallic transition for ZGNRs adsorbing porphine molecules under an in-plane external electric field. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 142, 115316.	1.3	4
2007	Delocalized magnetism in low-dimensional graphene system. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 188101.	0.2	1

#	Article	IF	CITATIONS
2008	Accelerated Ultrafast Magnetization Dynamics at Graphene/CoGd Interfaces. ACS Nano, 2022, 16, 9620-9630.	7.3	2
2009	Exploring Interfaces Through Synchrotron Radiation Characterization Techniques: A Graphene Case. Advanced Functional Materials, 2022, 32, .	7.8	3
2010	Gate modulation of the spin current in graphene/WSe2 van der Waals heterostructure at room temperature. Journal of Alloys and Compounds, 2022, 919, 165815.	2.8	37
2011	Semiconductor spintronics with Co2-Heusler compounds. MRS Bulletin, 2022, 47, 584-592.	1.7	13
2012	Electronic, transport, magnetic, and optical properties of graphene nanoribbons and their optical sensing applications: A comprehensive review. Luminescence, 2023, 38, 909-953.	1.5	9
2013	Optical Detection of Long Electron Spin Transport Lengths in a Monolayer Semiconductor. Physical Review Letters, 2022, 129, .	2.9	2
2014	Spin-Polarizing Electron Beam Splitter from Crossed Graphene Nanoribbons. Physical Review Letters, 2022, 129, .	2.9	11
2015	Tunnel magnetoresistance of trilayer graphene-based spin valve. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 144, 115422.	1.3	0
2016	Insights and Implications of Intricate Surface Charge Transfer and sp <sup>3</sup> -Defects in Graphene/Metal Oxide Interfaces. ACS Applied Materials & Interfaces, 2022, 14, 36209-36216.	4.0	8
2017	First-Principles Calculations of the Spin-Dependent Electronic Structure and Strain Tunability in 2D Non-van der Waals Chromium Chalcogenides Cr <sub>2</sub> X <sub>3</sub> (X = S, Se, Te): Implications for Spintronics Applications. ACS Applied Nano Materials, 0, , .	2.4	5
2018	Non-van der Waals quasi-2D materials; recent advances in synthesis, emergent properties and applications. Materials Today, 2022, 58, 164-200.	8.3	30
2019	High-Efficient Spin Injection in GaN at Room Temperature Through A Van der Waals Tunnelling Barrier. Nanoscale Research Letters, 2022, 17, .	3.1	4
2020	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:msub><mml:mi>MN</mml:mi><mml:mn>4embedded graphene layers: Tunable decay rate of the RKKY interaction. Physical Review B, 2022, 106, .</mml:mn></mml:msub></mml:math 	חז <b>∿.≰</b> /mml	:m&ub>
2021	A brief review on the spin valve magnetic tunnel junction composed of 2D materials. Journal Physics D: Applied Physics, 2022, 55, 423001.	1.3	10
2022	All-Electrical Control and Temperature Dependence of the Spin and Valley Hall Effect in Monolayer WSe <sub>2</sub> Transistors. ACS Applied Electronic Materials, 2022, 4, 3930-3937.	2.0	5
2023	Quantum Interference Controlled Spin-Polarized Electron Transmission in Graphene Nanoribbons. Journal of Physical Chemistry C, 2022, 126, 14714-14726.	1.5	1
2024	Microwave flash synthesis of phosphorus and sulphur ultradoped graphene. Chemical Engineering Journal, 2022, 450, 138447.	6.6	14
2025	Applications of graphene-based composites in the anode of lithium-ion batteries. Frontiers in Nanotechnology, 0, 4, .	2.4	2

#	Article	IF	CITATIONS
2026	Direct precipitation of multilayer graphene on c-plane sapphire using a crystallized Ni catalyst. Journal of Crystal Growth, 2022, 598, 126885.	0.7	1
2027	Spin relaxation in copper channels with submicron cross sections. Journal of Magnetism and Magnetic Materials, 2022, 563, 169845.	1.0	1
2028	Above-room Curie temperature and barrier-layer-dependent tunneling magnetoresistance in 1T-CrO <sub>2</sub> monolayer based magnetic tunnel junctions. Physical Chemistry Chemical Physics, 2022, 24, 22007-22015.	1.3	0
2029	Spin relaxation and Yu-Shiba-Rusinov states in superconducting graphene. AIP Conference Proceedings, 2022, , .	0.3	0
2030	Photoluminescence Path Bifurcations by Spin Flip in Two-Dimensional CrPS <sub>4</sub> . ACS Nano, 2022, 16, 16385-16393.	7.3	7
2031	Spin-helical detection in a semiconductor quantum device with ferromagnetic contacts. Physical Review B, 2022, 106, .	1.1	0
2032	Magnetization dynamics and spin pumping in Heusler compound Co2FeSi interfaced with MoS2. Journal of Applied Physics, 2022, 132, .	1.1	3
2034	Van der Waals lattice-induced colossal magnetoresistance in Cr2Ge2Te6 thin flakes. Nature Communications, 2022, 13, .	5.8	5
2035	Effects of anisotropy on magnetic and thermodynamic properties of a graphene cluster monolayer. Phase Transitions, 2022, 95, 823-836.	0.6	12
2036	A critical review on the effect of morphology, stability, and thermophysical properties of graphene nanoparticles in nanolubricants and nanofluids. Journal of Thermal Analysis and Calorimetry, 2023, 148, 451-472.	2.0	4
2037	Charge-to-spin conversion in twisted <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt; <mml:mi>graphene </mml:mi> <mml:mo>/</mml:mo> <mn heterostructures. Physical Review B, 2022, 106, .</mn </mml:math 	אנש <b>ב</b> ub><	m <b>ad</b> :mi>WSe
2038	Electronic properties of graphene/CdX (X=S, Se, and Te) semiconductor heterostructure and a proposal of all-optical injection and detection of electron spins in graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2023, 146, 115559.	1.3	0
2039	Single process of pulsed wire discharge for defect healing and reduction of graphene oxide. Carbon, 2023, 201, 1184-1192.	5.4	3
2040	Spin-Induced Switching of Electronic State Populations in Transition Metal Polyphthalocyanines. Materials, 2022, 15, 8098.	1.3	2
2041	Recent Progress of Gr/Si Schottky Photodetectors. Electronic Materials Letters, 2023, 19, 121-137.	1.0	1
2042	Strain engineering of electronic and spin properties in SnX (X = P, As, Sb, Bi) monolayers. Journal of Physics and Chemistry of Solids, 2023, 174, 111131.	1.9	6
2043	Spin transport in a normal metal–Ising superconductor junction. Physical Review B, 2022, 106, .	1.1	4
2044	Multifunctional Spin Logic Operations in Graphene Spin Circuits. Physical Review Applied, 2022, 18, .	1.5	14

		CITATION REPORT		
#	Article		IF	CITATIONS
2045	Graphene Spin ValvesÂfor Spin Logic Devices. Advanced Materials, 2023, 35, .		11.1	12
2046	Band gap opening in graphene by hybridization with Au (001) reconstructed surfaces. Pl Materials, 2023, 7, .	nysical Review	0.9	4
2047	Adsorption of Na Monolayer on Graphene Covered $Pt(111)$ Substrate. JETP Letters, 0, , .		0.4	0
2048	A Roomâ€Temperature Spinâ€Valve with van der Waals Ferromagnet Fe <sub>5</sub> GeTe <sub>2</sub> /Graphene Heterostructure. Advanced Materials, 20	23, 35, .	11.1	24
2049	Unconventional Charge-to-Spin Conversion in Graphene/ <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"&gt; <mml:msub> <mml:mrow> <mml:mi>Mo </mml:mi> <mml:mi>Te van der Waals Heterostructures. Physical Review Applied, 2023, 19, .</mml:mi></mml:mrow></mml:msub></mml:math 	:mi> <mml:r< td=""><td>nn&gt;2<td>nl:mn&gt; </td></td></mml:r<>	nn>2 <td>nl:mn&gt; </td>	nl:mn>
2050	Preparation of modified montmorillonite/graphene oxide composites to enhance the ant performance of epoxy coatings. Journal of Coatings Technology Research, 2023, 20, 111	icorrosive 1-1119.	1.2	4
2051	Graphene-based nanomaterials for CO2 capture and conversion. , 2023, , 211-243.			1
2052	Scaling with MgO thickness of the proximity exchange field in a Fe/MgO/Si contact. Phy 2023, 107, .	sical Review B,	1.1	0
2053	Room-temperature ferromagnetism observed in graphene oxide. Journal of the Korean Pl Society, 0, , .	ıysical	0.3	0
2054	Boron Nitride-Graphene (BN-G) Bilayer as a Channel of Graphene Based Field Effect Trans Journal of Solid State Science and Technology, 2023, 12, 021001.	sistor. ECS	0.9	0
2055	Nonlocal Spin Valves Based on Graphene/Fe <sub>3</sub> GeTe <sub>2</sub> van der W Heterostructures. ACS Applied Materials & Interfaces, 2023, 15, 9649-9655.	/aals	4.0	4
2056	Optimum contact resistance for two-terminal magnetoresistance in a lateral spin valve. Physics Letters, 2023, 122, 062407.	Applied	1.5	0
2057	Interfacial interaction between graphene and ferromagnets: First principles study. Physic Condensed Matter, 2023, 655, 414740.	a B:	1.3	1
2058	Study of adsorption energy for toxic gases (NH3, Br2) in pure and sulfur doped graphene AIP Conference Proceedings, 2023, , .	e nano-ribbon.	0.3	0
2059	Research on Spintronic Functions of Non-Metallic Materials and Its Modulation by Exterr Journal of the Magnetics Society of Japan, 2023, 47, 28-37.	ial Fields.	0.5	0
2060	Tuning the Magnetic Anisotropy of Co–Nâ€Đoped Graphene. Physica Status Solidi - Ra Letters, 2023, 17, .	apid Research	1.2	0
2061	Triangle Counting Rule: An Approach to Forecast the Magnetic Properties of Benzenoid Hydrocarbons. Journal of Physical Chemistry Letters, 2023, 14, 3193-3198.	Polycyclic	2.1	5
2062	Substrate effects on spin relaxation in two-dimensional Dirac materials with strong spin- coupling. Npj Computational Materials, 2023, 9, .	orbit	3.5	3

IF ARTICLE CITATIONS # Design of graphene spin beam splitter based on Brewster's law. Journal of Applied Physics, 2023, 133, 2063 1.1 0 153901. Probing the Néelâ€Type Antiferromagnetic Order and Coherent Magnon–Exciton Coupling in Van Der Waals VPS<sub>3</sub>. Advanced Materials, 2023, 35, . 2064 11.1 Gate-Tunable Spin Hall Effect in an All-Light-Element Heterostructure: Graphene with Copper Oxide. 2068 4.5 3 Nano Letters, 2023, 23, 4406-4414. Fabrication of Se-doped PtBi<sub>2</sub> Thin Film Devices., 2023,,. Dielectrics for Two-Dimensional Transition-Metal Dichalcogenide Applications. ACS Nano, 2023, 17, 2072 7.3 8 9870-9905. Controlled Rotation of Electrically Injected Spins in a Nonballistic Spin-Field-Effect Transistor. Nano Letters, 2023, 23, 4815-4821. 4.5 Ferromagnetism in sp2 carbon. Nano Research, 2023, 16, 12883-12900. 2091 5.8 0 Magnon–phonon coupling: from fundamental physics to applications. Physical Chemistry Chemical Physics, 2023, 25, 21802-21815. 1.3 Contemporary innovations in two-dimensional transition metal dichalcogenide-based P–N junctions 2110 2.8 1 for optoelectronics. Nanoscale, 2023, 16, 14-43. Charge-to-spin conversion in graphene proximitized by 1T-TaS2. AIP Conference Proceedings, 2024, , .

**CITATION REPORT**