

Noejung Park

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

156
papers

8,827
citations

48
h-index

92
g-index

165
ext. papers

10,076
ext. citations

8
avg, IF

6.03
L-index

#	Paper	IF	Citations
156	Excited electron dynamics in the interface of 2H-1T hetero-phases of monolayer MoS ₂ : time-dependent density functional theory study. <i>Journal of the Korean Physical Society</i> , 2021 , 78, 1203-1207	8.6	6
155	Identification of the Mott Insulating Charge Density Wave State in 1T-TaS ₂ . <i>Physical Review Letters</i> , 2021 , 126, 196406	7.4	6
154	One-dimensional hexagonal boron nitride conducting channel. <i>Science Advances</i> , 2020 , 6, eaay4958	14.3	19
153	Ruthenium anchored on carbon nanotube electrocatalyst for hydrogen production with enhanced Faradaic efficiency. <i>Nature Communications</i> , 2020 , 11, 1278	17.4	156
152	Releasing the hidden shift current in the TTF-CA organic molecular solid via symmetry lowering. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	1
151	Facile Ferroelectric Phase Transition Driven by Si Doping in HfO ₂ . <i>Inorganic Chemistry</i> , 2020 , 59, 5993-5999	9.1	2
150	Nonlocal effect of excited carriers on the bond strength of carbazole-based OLED host materials. <i>Physical Review Materials</i> , 2020 , 4,	3.2	3
149	In situ electrochemically synthesized Pt-MoO ₃ x nanostructure catalysts for efficient hydrogen evolution reaction. <i>Journal of Catalysis</i> , 2020 , 381, 1-13	7.3	14
148	Exploitable Magnetic Anisotropy of the Two-Dimensional Magnet CrI ₃ . <i>Nano Letters</i> , 2020 , 20, 929-935	11.5	37
147	Resonant amplification of the inverse Faraday effect magnetization dynamics of time reversal symmetric insulators. <i>Physical Review B</i> , 2020 , 102,	3.3	2
146	First-principles identification of the charge-shifting mechanism and ferroelectricity in hybrid halide perovskites. <i>Scientific Reports</i> , 2020 , 10, 19635	4.9	4
145	Dynamical amplification of electric polarization through nonlinear phononics in 2D SnTe. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	3
144	Covalent 0D/2D Heterostructuring of Co ₉ S ₈ /MoS ₂ for Enhanced Hydrogen Evolution in All pH Electrolytes. <i>Advanced Functional Materials</i> , 2020 , 30, 2002536	15.6	52
143	Prediction of ferroelectricity-driven Berry curvature enabling charge- and spin-controllable photocurrent in tin telluride monolayers. <i>Nature Communications</i> , 2019 , 10, 3965	17.4	18
142	Paramagnetic Carbon Nanosheets with Random Hole Defects and Oxygenated Functional Groups. <i>Angewandte Chemie</i> , 2019 , 131, 11796-11801	3.6	1
141	Spin-Split Band Hybridization in Graphene Proximitized with RuCl ₃ Nanosheets. <i>Nano Letters</i> , 2019 , 19, 4659-4665	11.5	29
140	Atomic-Level Customization of 4 in. Transition Metal Dichalcogenide Multilayer Alloys for Industrial Applications. <i>Advanced Materials</i> , 2019 , 31, e1901405	24	19

139	Paramagnetic Carbon Nanosheets with Random Hole Defects and Oxygenated Functional Groups. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 11670-11675	16.4	4
138	Scratch to sensitize: scratch-induced sensitivity enhancement in semiconductor thin-film sensors. <i>Nanoscale</i> , 2019 , 11, 15374-15381	7.7	1
137	Screening of suitable cationic dopants for solar absorber material CZTS/Se: A first principles study. <i>Scientific Reports</i> , 2019 , 9, 15983	4.9	15
136	Unraveling materials Berry curvature and Chern numbers from real-time evolution of Bloch states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 4135-4140	11.5	10
135	Exploring Critical Factors Affecting Strain Distribution in 1D Silicon-Based Nanostructures for Lithium-Ion Battery Anodes. <i>Advanced Materials</i> , 2018 , 30, e1705430	24	78
134	Excitation-driven non-thermal conversion of few-layer graphenes into sp ³ -bonded carbon nanofilms. <i>Chemical Physics Letters</i> , 2018 , 694, 23-28	2.5	1
133	Phonon-driven spin-Floquet magneto-valleytronics in MoS. <i>Nature Communications</i> , 2018 , 9, 638	17.4	51
132	Exploring the correlation between MoS ₂ nanosheets and 3D graphene-based nanostructures for reversible lithium storage. <i>Applied Surface Science</i> , 2018 , 459, 98-104	6.7	10
131	Coordination Polymers for High-Capacity Li-Ion Batteries: Metal-Dependent Solid-State Reversibility. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22110-22118	9.5	22
130	Anomalous K-Point Phonons in Noble Metal/Graphene Heterostructure Activated by Localized Surface Plasmon Resonance. <i>ACS Nano</i> , 2018 , 12, 12733-12740	16.7	7
129	Bifunctional sulfur-doped cobalt phosphide electrocatalyst outperforms all-noble-metal electrocatalysts in alkaline electrolyzer for overall water splitting. <i>Nano Energy</i> , 2018 , 53, 286-295	17.1	119
128	Zero Hall conductivity and its electronic origin in a Cr-doped topological insulator. <i>Physical Review B</i> , 2018 , 98,	3.3	3
127	Dissimilar anisotropy of electron versus hole bulk transport in anatase TiO ₂ : Implications for photocatalysis. <i>Physical Review B</i> , 2017 , 95,	3.3	17
126	An efficient and pH-universal ruthenium-based catalyst for the hydrogen evolution reaction. <i>Nature Nanotechnology</i> , 2017 , 12, 441-446	28.7	857
125	Role of Graphene in Water-Assisted Oxidation of Copper in Relation to Dry Transfer of Graphene. <i>Chemistry of Materials</i> , 2017 , 29, 4546-4556	9.6	41
124	Critical Role of Cations in Lithium Sites on Extended Electrochemical Reversibility of Co-Rich Layered Oxide. <i>Advanced Materials</i> , 2017 , 29, 1605578	24	38
123	Probing Evolution of Twist-Angle-Dependent Interlayer Excitons in MoSe ₂ /WSe ₂ van der Waals Heterostructures. <i>ACS Nano</i> , 2017 , 11, 4041-4050	16.7	157
122	In Situ Electrochemical Activation of Atomic Layer Deposition Coated MoS ₂ Basal Planes for Efficient Hydrogen Evolution Reaction. <i>Advanced Functional Materials</i> , 2017 , 27, 1701825	15.6	65

121	Ultrasonic Chemistry: Carbon-Heteroatom Bond Formation by an Ultrasonic Chemical Reaction for Energy Storage Systems (Adv. Mater. 47/2017). <i>Advanced Materials</i> , 2017 , 29, 1770339	24	4
120	Forming a three-dimensional porous organic network via solid-state explosion of organic single crystals. <i>Nature Communications</i> , 2017 , 8, 1599	17.4	9
119	Carbon-Heteroatom Bond Formation by an Ultrasonic Chemical Reaction for Energy Storage Systems. <i>Advanced Materials</i> , 2017 , 29, 1702747	24	23
118	Macroporous Inverse Opal-like MoC with Incorporated Mo Vacancies for Significantly Enhanced Hydrogen Evolution. <i>ACS Nano</i> , 2017 , 11, 7527-7533	16.7	84
117	Metalated graphene nanoplatelets and their uses as anode materials for lithium-ion batteries. <i>2D Materials</i> , 2017 , 4, 014002	5.9	13
116	La Displacement Driven Double-Exchange Like Mediation in Titanium dxy Ferromagnetism at the LaAlO ₃ /SrTiO ₃ . <i>Journal of the Physical Society of Japan</i> , 2016 , 85, 043702	1.5	1
115	Rectifying the Optical-Field-Induced Current in Dielectrics: Petahertz Diode. <i>Physical Review Letters</i> , 2016 , 116, 057401	7.4	15
114	Two-dimensional polyaniline (C ₃ N) from carbonized organic single crystals in solid state. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7414-9	11.5	278
113	Unusually Stable Triazine-based Organic Superstructures. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7413-7	16.4	4
112	Real-Time Propagation via Time-Dependent Density Functional Theory Plus the Hubbard U Potential for Electron-Atom Coupled Dynamics Involving Charge Transfer. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 201-8	6.4	18
111	Simultaneously Controllable Doping Sites and the Activity of a W _N Codoped TiO ₂ Photocatalyst. <i>ACS Catalysis</i> , 2016 , 6, 2745-2753	13.1	76
110	Unusually Stable Triazine-based Organic Superstructures. <i>Angewandte Chemie</i> , 2016 , 128, 7539-7543	3.6	1
109	Si doped T ₆ carbon structure as an anode material for Li-ion batteries: An ab initio study. <i>Scientific Reports</i> , 2016 , 6, 37822	4.9	5
108	Formation of Intercalation Path for Oxygen Through Imperfections in Graphene on Metal Substrate: A Density Functional Theory Study. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 11992-11996	1.3	1
107	Wafer-Scale and Wrinkle-Free Epitaxial Growth of Single-Orientated Multilayer Hexagonal Boron Nitride on Sapphire. <i>Nano Letters</i> , 2016 , 16, 3360-6	11.5	130
106	Synergetic interplay between pressure and surface chemistry for the conversion of sp ² -bonded carbon layers into sp ³ -bonded carbon films. <i>Carbon</i> , 2016 , 106, 158-163	10.4	9
105	Nitrogenated holey two-dimensional structures. <i>Nature Communications</i> , 2015 , 6, 6486	17.4	684
104	Carbon-Coated Core-Shell Fe-Cu Nanoparticles as Highly Active and Durable Electrocatalysts for a Zn-Air Battery. <i>ACS Nano</i> , 2015 , 9, 6493-501	16.7	142

103	An oxygen reduction catalytic process through superoxo adsorption states on n-type doped h-BN: A first-principles study. <i>Current Applied Physics</i> , 2015 , 15, 727-732	2.6	13
102	Electron-transfer transparency of graphene: Fast reduction of metal ions on graphene-covered donor surfaces. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015 , 9, 180-186	2.5	12
101	Seamless lamination of a concave-convex architecture with single-layer graphene. <i>Nanoscale</i> , 2015 , 7, 18138-46	7.7	1
100	Jahn-Teller driven perpendicular magnetocrystalline anisotropy in metastable ruthenium. <i>Physical Review B</i> , 2015 , 91,	3.3	19
99	Organic-Catholyte-Containing Flexible Rechargeable Lithium Batteries. <i>Advanced Materials</i> , 2015 , 27, 5141-6	24	80
98	Hollow Silicon Nanostructures via the Kirkendall Effect. <i>Nano Letters</i> , 2015 , 15, 6914-8	11.5	56
97	Magnetic, elastic and optical properties of zinc peroxide (ZnO ₂): First principles study. <i>Journal of Alloys and Compounds</i> , 2015 , 620, 156-163	5.7	10
96	Single Crystalline Film of Hexagonal Boron Nitride Atomic Monolayer by Controlling Nucleation Seeds and Domains. <i>Scientific Reports</i> , 2015 , 5, 16159	4.9	60
95	Activation of CO and CO ₂ on homonuclear boron bonds of fullerene-like BN cages: first principles study. <i>Scientific Reports</i> , 2015 , 5, 17460	4.9	30
94	Coordination Chemistry of [Co(acac) ₂] with N-Doped Graphene: Implications for Oxygen Reduction Reaction Reactivity of Organometallic Co-O ₄ -N Species. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 12622-6	16.4	79
93	Antimony-doped graphene nanoplatelets. <i>Nature Communications</i> , 2015 , 6, 7123	17.4	68
92	First-principles investigation of wet-chemical routes for the hydrogenation of graphene. <i>Carbon</i> , 2015 , 93, 421-430	10.4	3
91	Batteries: Organic-Catholyte-Containing Flexible Rechargeable Lithium Batteries (Adv. Mater. 35/2015). <i>Advanced Materials</i> , 2015 , 27, 5094-5094	24	
90	Selective Tuning of a Particular Chemical Reaction on Surfaces through Electrical Resonance: An ab Initio Molecular Dynamics Study. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 5094-9	6.4	
89	Direct solvothermal synthesis of B/N-doped graphene. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2398-401	16.4	57
88	Negatively curved carbon as the anode for lithium ion batteries. <i>Carbon</i> , 2014 , 66, 39-47	10.4	54
87	Ab Initio Study of Thin Oxide/Metal Overlayers as an Inverse Catalytic System for Dioxygen Reduction and Enhanced CO Tolerance. <i>ACS Catalysis</i> , 2014 , 4, 4074-4080	13.1	40
86	Metal-free Ketjenblack incorporated nitrogen-doped carbon sheets derived from gelatin as oxygen reduction catalysts. <i>Nano Letters</i> , 2014 , 14, 1870-6	11.5	134

85	Atomically resolved orientational ordering of C60 molecules on epitaxial graphene on Cu(111). <i>Nanoscale</i> , 2014 , 6, 11835-40	7.7	27
84	Development of double-perovskite compounds as cathode materials for low-temperature solid oxide fuel cells. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 13064-7	16.4	150
83	Organic-based magnetic semiconductor thin film of Fe(TCNQ) _x -2 developed by physical vapor deposition and local spin density induced core-level shifts. <i>Synthetic Metals</i> , 2014 , 196, 56-60	3.6	2
82	The effect of the stacking fault on the diffusion of chemisorbed hydrogen atoms inside few-layered graphene. <i>RSC Advances</i> , 2014 , 4, 9223	3.7	4
81	p-type conductivity generated by ferromagnetic ordering via percolative anionic H chain formation in ZnCoO. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 255501	1.8	1
80	Catalytic transparency of hexagonal boron nitride on copper for chemical vapor deposition growth of large-area and high-quality graphene. <i>ACS Nano</i> , 2014 , 8, 5478-83	16.7	43
79	Direct Solvothermal Synthesis of B/N-Doped Graphene. <i>Angewandte Chemie</i> , 2014 , 126, 2430-2433	3.6	11
78	Development of Double-Perovskite Compounds as Cathode Materials for Low-Temperature Solid Oxide Fuel Cells. <i>Angewandte Chemie</i> , 2014 , 126, 13280-13283	3.6	20
77	Titelbild: Development of Double-Perovskite Compounds as Cathode Materials for Low-Temperature Solid Oxide Fuel Cells (Angew. Chem. 48/2014). <i>Angewandte Chemie</i> , 2014 , 126, 13187-13187	3.6	20
76	A physical organogel electrolyte: characterized by in situ thermo-irreversible gelation and single-ion-predominant conduction. <i>Scientific Reports</i> , 2013 , 3, 1917	4.9	34
75	Stabilization of LiBH ₄ superionic phase by halide doping and H disordering. <i>Current Applied Physics</i> , 2013 , 13, 1444-1447	2.6	
74	Effect of sulphur vacancy on geometric and electronic structure of MoS ₂ induced by molecular hydrogen treatment at room temperature. <i>RSC Advances</i> , 2013 , 3, 18424	3.7	40
73	Metal-organic frameworks constructed from flexible ditopic ligands: conformational diversity of an aliphatic ligand. <i>New Journal of Chemistry</i> , 2013 , 37, 4130	3.6	15
72	Theoretical study on porphyrin based covalent organic polyhedra as a hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 6234-6240	6.7	7
71	Microscopic nature of mobile fluoride anions on sp ² carbon surfaces. <i>Chemical Physics Letters</i> , 2013 , 570, 85-89	2.5	4
70	Postsynthetic Exchanges of the Pillaring Ligand in Three-Dimensional Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2013 , 25, 1047-1054	9.6	50
69	Multilayer Graphynes for Lithium Ion Battery Anode. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 6919-6923	3.3	153
68	Nitrogen-doped graphene nanoplatelets from simple solution edge-functionalization for n-type field-effect transistors. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8981-8	16.4	102

67	Promotion of oxygen reduction by a bio-inspired tethered iron phthalocyanine carbon nanotube-based catalyst. <i>Nature Communications</i> , 2013 , 4, 2076	17.4	513
66	Facile, scalable synthesis of edge-halogenated graphene nanoplatelets as efficient metal-free electrocatalysts for oxygen reduction reaction. <i>Scientific Reports</i> , 2013 , 3, 1810	4.9	278
65	Extremely large perpendicular magnetic anisotropy of an Fe(001) surface capped by 5d transition metal monolayers: A density functional study. <i>Physical Review B</i> , 2013 , 88,	3.3	46
64	Synthesis and characterization of patronite form of vanadium sulfide on graphitic layer. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8720-5	16.4	235
63	Direct nitrogen fixation at the edges of graphene nanoplatelets as efficient electrocatalysts for energy conversion. <i>Scientific Reports</i> , 2013 , 3, 2260	4.9	179
62	Conversion of multilayer graphene into continuous ultrathin sp ² -bonded carbon films on metal surfaces. <i>Scientific Reports</i> , 2013 , 3, 3276	4.9	66
61	Progress on first-principles-based materials design for hydrogen storage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 19893-9	11.5	64
60	Controllable modification of the conduction properties of carbon nanotube devices through deposition of a metal overlayer onto the sidewalls. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012 , 44, 1539-1542	3	1
59	First-Principles Identification of Iodine Exchange Mechanism in Iodide Ionic Liquid. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3065-9	6.4	26
58	Stability of hydrogenation states of graphene and conditions for hydrogen spillover. <i>Physical Review B</i> , 2012 , 85,	3.3	35
57	Effects of defects and non-coordinating molecular overlayers on the work function of graphene and energy-level alignment with organic molecules. <i>Carbon</i> , 2012 , 50, 851-856	10.4	15
56	Enhanced binding strength between metal nanoclusters and carbon nanotubes with an atomic nickel defect. <i>Nanotechnology</i> , 2012 , 23, 205204	3.4	9
55	Strong ferromagnetism in Pt-coated ZnCoO: The role of interstitial hydrogen. <i>Applied Physics Letters</i> , 2012 , 100, 172409	3.4	16
54	N-type graphene induced by dissociative H ₂ adsorption at room temperature. <i>Scientific Reports</i> , 2012 , 2, 690	4.9	51
53	Effect of charge-transfer complex on the energy level alignment between graphene and organic molecules. <i>Applied Physics Letters</i> , 2012 , 100, 183102	3.4	5
52	Large-area graphene films by simple solution casting of edge-selectively functionalized graphite. <i>ACS Nano</i> , 2011 , 5, 4974-80	16.7	85
51	Ab initio study of Kubas-type dihydrogen fixation onto d-orbital states of Ca adatoms. <i>Chemical Physics Letters</i> , 2011 , 513, 256-260	2.5	8
50	Complementary Hydrogen Bonding Between a Clicked C ₃ -Symmetric Triazole Derivative and Carboxylic Acids for Columnar Liquid-Crystalline Assemblies. <i>Angewandte Chemie</i> , 2011 , 123, 5855-5858	3.6	11

49	Complementary hydrogen bonding between a clicked C3-symmetric triazole derivative and carboxylic acids for columnar liquid-crystalline assemblies. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 5737-40	16.4	47
48	Effect of Shuttling Catalyst on the Migration of Hydrogen Adatoms: A Strategy for the Facile Hydrogenation of Graphene. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 24696-24701	3.8	26
47	Analysis of the strong propensity for the delocalized diamagnetic π -electronic structure of hydrogenated graphenes. <i>Carbon</i> , 2011 , 49, 2665-2670	10.4	4
46	Cha, Choi, and Park Reply:. <i>Physical Review Letters</i> , 2010 , 104,	7.4	4
45	Improving the sensitivity of carbon nanotube sensors by benzene functionalization. <i>Sensors and Actuators B: Chemical</i> , 2010 , 147, 316-321	8.5	19
44	Influence of metal work function on the position of the Dirac point of graphene field-effect transistors. <i>Applied Physics Letters</i> , 2009 , 95, 243105	3.4	16
43	Inaccuracy of density functional theory calculations for dihydrogen binding energetics onto Ca cation centers. <i>Physical Review Letters</i> , 2009 , 103, 216102	7.4	32
42	Effect of vacancy defects in graphene on metal anchoring and hydrogen adsorption. <i>Applied Physics Letters</i> , 2009 , 94, 173102	3.4	98
41	Ab initio study of noncovalent sidewall functionalization of carbon nanotubes. <i>Applied Physics Letters</i> , 2009 , 95, 243110	3.4	11
40	Realistic adsorption geometries and binding affinities of metal nanoparticles onto the surface of carbon nanotubes. <i>Applied Physics Letters</i> , 2009 , 94, 073105	3.4	24
39	Crossover between multipole Coulomb and Kubas interactions in hydrogen adsorption on metal-graphene complexes. <i>Physical Review B</i> , 2009 , 79,	3.3	86
38	Nanoporous In-MOF with multiple one-dimensional pores. <i>Chemical Communications</i> , 2009 , 4953-5	5.8	48
37	Effective metal dispersion in pyridinelike nitrogen doped graphenes for hydrogen storage. <i>Applied Physics Letters</i> , 2008 , 92, 013106	3.4	70
36	Designing the Carbon Nanotube Field Effect Transistor Through Contact Barrier Engineering 2008 , 217-246		
35	Optimization of metal dispersion in doped graphitic materials for hydrogen storage. <i>Physical Review B</i> , 2008 , 78,	3.3	105
34	Metal ion induced FRET OFF-ON in tren/dansyl-appended rhodamine. <i>Organic Letters</i> , 2008 , 10, 213-6	6.2	228
33	Electron emission originated from free-electron-like states of alkali-doped boron-nitride nanotubes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 17012-5	16.4	19
32	Air-stable n-type operation of Gd-contacted carbon nanotube field effect transistors. <i>Applied Physics Letters</i> , 2008 , 93, 123106	3.4	15

31	Unusual transport characteristics of nitrogen-doped single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2008 , 93, 043113	3-4	35
30	Dispersion of transition metal atoms in fragmented graphitic shells and hydrogen adsorption therein. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 1185-1187	3-9	
29	First-Principles Studies of Metal-Dispersed Graphene Fragments for Hydrogen Storage. <i>Journal of the Korean Physical Society</i> , 2008 , 52, 1217-1220	0.6	7
28	ZnO nanoparticle growth on single-walled carbon nanotubes by atomic layer deposition and a consequent lifetime elongation of nanotube field emission. <i>Applied Physics Letters</i> , 2007 , 90, 263104	3-4	46
27	Computational study of hydrogen storage characteristics of covalent-bonded graphenes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 8999-9003	16.4	148
26	Fabrication of n-type nanotube transistors with large-work-function electrodes. <i>Applied Physics Letters</i> , 2007 , 90, 092113	3-4	14
25	Formation of polybromine anions and concurrent heavy hole doping in carbon nanotubes. <i>Applied Physics Letters</i> , 2007 , 90, 093502	3-4	17
24	Controllable modification of transport properties of single-walled carbon nanotube field effect transistors with in situ Al decoration. <i>Applied Physics Letters</i> , 2007 , 91, 153113	3-4	26
23	Ab initio study of the effect of water adsorption on the carbon nanotube field-effect transistor. <i>Applied Physics Letters</i> , 2006 , 89, 243110	3-4	60
22	A Field Effect Transistor Fabricated with Metallic Single-Walled Carbon Nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2006 , 14, 141-149	1.8	2
21	Fabrication of n-type carbon nanotube field-effect transistors by Al doping. <i>Applied Physics Letters</i> , 2006 , 88, 103503	3-4	20
20	Carbon nanotube diode fabricated by contact engineering with self-assembled molecules. <i>Applied Physics Letters</i> , 2006 , 89, 243115	3-4	14
19	The effect of metal cluster coatings on carbon nanotubes. <i>Nanotechnology</i> , 2006 , 17, 496-500	3-4	53
18	Band-gap sensitive adsorption of fluorine molecules on sidewalls of carbon nanotubes: an ab initio study. <i>Nanotechnology</i> , 2006 , 17, 5862-5865	3-4	5
17	Electronic structure calculations of metal-nanotube contacts with or without oxygen adsorption. <i>Physical Review B</i> , 2005 , 72,	3-3	37
16	Magnetic ordering at the edges of graphitic fragments: Magnetic tail interactions between the edge-localized states. <i>Physical Review B</i> , 2005 , 72,	3-3	45 ⁰
15	Metallization of the semiconducting carbon nanotube by encapsulated bromine molecules. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005 , 29, 693-697	3	14
14	Band gap sensitivity of bromine adsorption at carbon nanotubes. <i>Chemical Physics Letters</i> , 2005 , 403, 135-139	2.5	29

13	Adsorption-induced conversion of the carbon nanotube field effect transistor from ambipolar to unipolar behavior. <i>Applied Physics Letters</i> , 2005 , 86, 093105	3.4	37
12	Pressure-dependent Schottky barrier at the metal-nanotube contact. <i>Applied Physics Letters</i> , 2005 , 87, 013112	3.4	12
11	Oxygen-induced p-type doping of a long individual single-walled carbon nanotube. <i>Nanotechnology</i> , 2005 , 16, 1048-1052	3.4	100
10	Microscopic mechanism of fullerene fusion. <i>Physical Review B</i> , 2004 , 70,	3.3	55
9	Ferromagnetism at the edges of the stacked graphitic fragments: an ab initio study. <i>Chemical Physics Letters</i> , 2004 , 398, 207-211	2.5	36
8	First-Principles Calculations on Boron Nitride Nanotubes. <i>Journal of the Physical Society of Japan</i> , 2004 , 73, 2469-2472	1.5	10
7	First-principles study of the effect of charge on the stability of a diamond nanocluster surface. <i>Physical Review B</i> , 2004 , 69,	3.3	13
6	Field emission properties of carbon nanotubes coated with boron nitride. <i>Journal of Nanoscience and Nanotechnology</i> , 2003 , 3, 179-83	1.3	11
5	Magnetism in all-carbon nanostructures with negative Gaussian curvature. <i>Physical Review Letters</i> , 2003 , 91, 237204	7.4	176
4	Tip-functionalized carbon nanotubes under electric fields. <i>Physical Review B</i> , 2003 , 68,	3.3	34
3	Energetics of large carbon clusters: Crossover from fullerenes to nanotubes. <i>Physical Review B</i> , 2002 , 65,	3.3	29
2	Effects of oxygen adsorption on carbon nanotube field emitters. <i>Physical Review B</i> , 2001 , 64,	3.3	52
1	Electronic structure and mechanical stability of the graphitic honeycomb lattice. <i>Physical Review B</i> , 2000 , 62, 7614-7618	3.3	41