

Mingwen Zhao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6024678/publications.pdf>

Version: 2024-02-01

363
papers

13,985
citations

23500

58
h-index

33814

99
g-index

365
all docs

365
docs citations

365
times ranked

13627
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-dimensional Dirac materials: Tight-binding lattice models and material candidates. <i>ChemPhysMater</i> , 2023, 2, 30-42.	1.4	15
2	Efficient anisotropic desalination by layer-stacked black phosphorus carbide ($\hat{I}\pm$ -PC) membrane. <i>Desalination</i> , 2022, 522, 115422.	4.0	9
3	Ferromagnetic coupling in a two-dimensional Cairo pentagonal $Ni_2(TCNQ)_2$ lattice. <i>Journal of Materiomics</i> , 2022, 8, 627-632.	2.8	1
4	Ultrafine zirconium boride nanoparticles constructed bidirectional catalyst for ultrafast and long-lived lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2022, 45, 130-141.	9.5	34
5	pH-switchable nanozyme cascade catalysis: a strategy for spatial-temporal modulation of pathological wound microenvironment to rescue stalled healing in diabetic ulcer. <i>Journal of Nanobiotechnology</i> , 2022, 20, 12.	4.2	50
6	Nanophysical Antimicrobial Strategies: A Rational Deployment of Nanomaterials and Physical Stimulations in Combating Bacterial Infections. <i>Advanced Science</i> , 2022, 9, e2105252.	5.6	56
7	Structural and energetic features of the dimerization of the main proteinase of SARS-CoV-2 using molecular dynamic simulations. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 4324-4333.	1.3	2
8	Highly-anisotropic plasmons in two-dimensional hyperbolic copper borides. <i>Optics Express</i> , 2022, 30, 5596.	1.7	6
9	Manipulating Electrocatalytic Polysulfide Redox Kinetics by 1D Core-Shell Like Composite for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	47
10	Screening of Transition-Metal Single-Atom Catalysts Anchored on Covalent-Organic Frameworks for Efficient Nitrogen Fixation. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 1024-1033.	4.0	32
11	Sub-nanometer-sized carbon nanoparticle shows higher biocompatibility to DNA than nanometer-sized nanoparticles. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 295401.	1.3	1
12	Strain-tunable self-passivated porous phosphorene for high-efficiency helium separation. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 315501.	1.3	1
13	Photocatalytic hydrogen production and storage in carbon nanotubes: a first-principles study. <i>RSC Advances</i> , 2022, 12, 17029-17035.	1.7	6
14	Two-dimensional transition metal borides as highly efficient N_2 fixation catalysts. <i>Applied Surface Science</i> , 2021, 536, 147742.	3.1	58
15	Anomalous plasmons in a two-dimensional Dirac nodal-line Lieb lattice. <i>Nanoscale Advances</i> , 2021, 3, 1127-1135.	2.2	6
16	Multi-functional photocatalytic activity of transition-metal tetraaza[14]annulene frameworks. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4221-4229.	5.2	12
17	Photo-assisted high performance single atom electrocatalysis of the N_2 reduction reaction by a Mo-embedded covalent organic framework. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19949-19957.	5.2	27
18	Key residues of the receptor binding domain in the spike protein of SARS-CoV-2 mediating the interactions with ACE2: a molecular dynamics study. <i>Nanoscale</i> , 2021, 13, 9364-9370.	2.8	22

#	ARTICLE	IF	CITATIONS
19	Interface-enhanced CO ₂ capture via the synthetic effects of a nanomaterial-supported ionic liquid thin film. <i>Nanoscale Advances</i> , 2021, 3, 1397-1403.	2.2	9
20	Spontaneous DNA translocation through a van der Waals heterostructure nanopore for single-molecule detection. <i>Nanoscale Advances</i> , 2021, 3, 5941-5947.	2.2	12
21	Giant negative Poisson's ratio in two-dimensional V-shaped materials. <i>Nanoscale Advances</i> , 2021, 3, 4554-4560.	2.2	15
22	Defect effects and electronic structure regulation in low-dimensional materials. <i>Chinese Science Bulletin</i> , 2021, 66, 1998-2009.	0.4	0
23	Floquet Dirac fermions in monolayer graphene by Wannier functions. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 145701.	0.7	2
24	Prediction of intrinsic topological superconductivity in Mn-doped GeTe monolayer from first-principles. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	15
25	Defect-Induced Double-Stranded DNA Unwinding on Graphene. <i>Journal of Physical Chemistry B</i> , 2021, 125, 2833-2840.	1.2	6
26	Monolayer Fe ₃ GeX ₂ (X = S, Se, and Te) as Highly Efficient Electrocatalysts for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 11845-11851.	4.0	45
27	Prediction of crossing nodal-lines and large intrinsic spin Hall conductivity in topological Dirac semimetal Ta ₃ As family. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	14
28	Direct Z-scheme photocatalytic CO ₂ conversion to solar fuels in a two-dimensional C ₂ N/aza-CMP heterostructure. <i>Applied Surface Science</i> , 2021, 541, 148630.	3.1	19
29	In-situ Nano-Crystallization and Solvation Modulation to Promote Highly Stable Anode Involving Alloy/Dealloy for Potassium Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15381-15389.	7.2	54
30	In-situ Nano-Crystallization and Solvation Modulation to Promote Highly Stable Anode Involving Alloy/Dealloy for Potassium Ion Batteries. <i>Angewandte Chemie</i> , 2021, 133, 15509-15517.	1.6	7
31	Efficient isotropic water desalination in anisotropic lamellar nano-channels formed by layered black phosphorus membrane. <i>Desalination</i> , 2021, 504, 114962.	4.0	16
32	Frontispiz: In-situ Nano-Crystallization and Solvation Modulation to Promote Highly Stable Anode Involving Alloy/Dealloy for Potassium Ion Batteries. <i>Angewandte Chemie</i> , 2021, 133, .	1.6	0
33	Frontispiece: In-situ Nano-Crystallization and Solvation Modulation to Promote Highly Stable Anode Involving Alloy/Dealloy for Potassium Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, .	7.2	1
34	Construction and electrochemical mechanism investigation of hierarchical core-shell like composite as high performance anode for potassium ion batteries. <i>Nano Research</i> , 2021, 14, 3552-3561.	5.8	21
35	Stable multifunctional single-atom catalysts adsorbed on pyrazine-modified graphyne. <i>Applied Surface Science</i> , 2021, 553, 149464.	3.1	32
36	Highly Efficient Photocatalytic CO ₂ Reduction in Two-Dimensional Ferroelectric CuInP ₂ S ₆ Bilayers. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 34486-34494.	4.0	39

#	ARTICLE	IF	CITATIONS
37	Undamped plasmon modes and enhanced superconductivity in metal diborides. <i>New Journal of Physics</i> , 2021, 23, 073036.	1.2	3
38	Multiple Dirac cones and Lifshitz transition in a two-dimensional Cairo lattice as a Hawking evaporation analogue. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 365001.	0.7	5
39	Spin-Gapless States in Two-Dimensional Molecular Ferromagnet $\text{Fe}_2(\text{TCNQ})_2$. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7921-7927.	2.1	4
40	Laser-driven anisotropic and nonlinear Rashba spin splitting in GaAs monolayer. <i>Physical Review B</i> , 2021, 104, .	1.1	1
41	Bi-atom active sites embedded in a two-dimensional covalent organic framework for efficient nitrogen reduction reaction. <i>Applied Surface Science</i> , 2021, 563, 150352.	3.1	25
42	Regulating polysulfide intermediates by ultrathin Co-Bi nanosheet electrocatalyst in lithium-sulfur batteries. <i>Nano Today</i> , 2021, 40, 101246.	6.2	34
43	The role of sp-hybridized boron atoms in the highly efficient photocatalytic N_2 reduction activity of boron-doped triphenylene-graphdiyne. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26077-26085.	5.2	12
44	Self-assembly of ultra-small-sized carbon nanoparticles in lipid membrane disrupts its integrity. <i>Nanoscale Advances</i> , 2021, 4, 163-172.	2.2	6
45	Corrugation effect, Dirac cone splitting, and plasmon properties of biased twisted bilayer graphene. <i>Physical Review B</i> , 2021, 104, .	1.1	4
46	OnionNet-2: A Convolutional Neural Network Model for Predicting Protein-Ligand Binding Affinity Based on Residue-Atom Contacting Shells. <i>Frontiers in Chemistry</i> , 2021, 9, 753002.	1.8	39
47	Floquet-engineered half-valley-metal state in two-dimensional gapped Dirac materials. <i>Physical Review B</i> , 2021, 104, .	1.1	4
48	New Spiral Form of Carbon Nitride with Ultrasoftness and Tunable Electronic Structures. <i>ACS Omega</i> , 2021, 6, 516-522.	1.6	3
49	Efficient Helium Separation with Two-Dimensional Metal-Organic Framework Fe/Ni-PTC: A Theoretical Study. <i>Membranes</i> , 2021, 11, 927.	1.4	1
50	Robust broadband directional plasmons in a MoOCl_2 monolayer. <i>Physical Review B</i> , 2021, 104, .	1.1	1
51	Two-dimensional XC_6 -enes (X = Ge, Sn, Pb) with moderate band gaps, biaxial negative Poisson's ratios, and high carrier mobility. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 26468-26475.	1.3	2
52	Prediction of topological superconductivity from type-IV, -III, -II, and $-\text{I}^2$ nodal points induced by Rashba spin-orbit coupling. <i>Physical Review B</i> , 2021, 104, .	1.1	4
53	Two-Dimensional Conductive Metal-Organic Frameworks as Highly Efficient Electrocatalysts for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 61205-61214.	4.0	15
54	Highly-efficient overall water splitting in 2D Janus group-III chalcogenide multilayers: the roles of intrinsic electric field and vacancy defects. <i>Science Bulletin</i> , 2020, 65, 27-34.	4.3	54

#	ARTICLE	IF	CITATIONS
55	Metal-free highly efficient photocatalysts for overall water splitting: C ₃ N ₅ multilayers. <i>Nanoscale</i> , 2020, 12, 306-315.	2.8	57
56	Tunable ferroelectricity and antiferromagnetism <i>via</i> ferroelastic switching in an FeOOH monolayer. <i>Journal of Materials Chemistry C</i> , 2020, 8, 13982-13989.	2.7	18
57	Tunable valley splitting and anomalous valley Hall effect in VTe ₂ /Ga ₂ S ₃ heterostructures. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14895-14901.	2.7	16
58	Stable Multifunctional Single-Atom Catalysts Resulting from the Synergistic Effect of Anchored Transition-Metal Atoms and Host Covalent Organic Frameworks. <i>Journal of Physical Chemistry C</i> , 2020, 124, 17675-17683.	1.5	46
59	Serendipity for Topological Insulator as Multifunctional Electrocatalyst. <i>ACS Applied Energy Materials</i> , 2020, 3, 8929-8936.	2.5	5
60	Computational studies on triphenyldiyne as a two-dimensional visible-light-driven photocatalyst for overall water splitting. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 20061-20068.	1.3	4
61	Mild lipid extraction and anisotropic cell membrane penetration of $\hat{\pm}$ -phase phosphorene carbide nanoribbons by molecular dynamics simulation studies. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 23268-23275.	1.3	7
62	Tuning the binding behaviors of a protein YAP65WW domain on graphenic nano-sheets with boron or nitrogen atom doping. <i>Nanoscale Advances</i> , 2020, 2, 4539-4546.	2.2	7
63	Transition-metal monochalcogenide nanowires: highly efficient bi-functional catalysts for the oxygen evolution/reduction reactions. <i>Nanoscale</i> , 2020, 12, 12883-12890.	2.8	8
64	Ferroelectricity and multiferroicity in two-dimensional Sc ₂ P ₂ Se ₆ and ScCrP ₂ Se ₆ monolayers. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 7489-7496.	1.3	17
65	Synergistic trifunctional electrocatalysis of pyridinic nitrogen and single transition-metal atoms anchored on pyrazine-modified graphdiyne. <i>Science Bulletin</i> , 2020, 65, 995-1002.	4.3	34
66	Tunable Valley Polarization in a Multiferroic CuCrP ₂ Te ₆ Monolayer. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 2000008.	1.2	13
67	Anisotropic protein diffusion on nanosurface. <i>Nanoscale</i> , 2020, 12, 5209-5216.	2.8	15
68	Multifunctional electrocatalytic activity of coronene-based two-dimensional metal-organic frameworks: TM-PTC. <i>Applied Surface Science</i> , 2020, 511, 145393.	3.1	18
69	Orientational DNA binding and directed transport on nanomaterial heterojunctions. <i>Nanoscale</i> , 2020, 12, 5217-5226.	2.8	29
70	High-efficiency helium separation through an inorganic graphenylene membrane: a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 9789-9795.	1.3	32
71	Understanding CO ₂ capture kinetics and energetics by ionic liquids with molecular dynamics simulation. <i>RSC Advances</i> , 2020, 10, 13968-13974.	1.7	7
72	Prediction of a ternary two-dimensional pentagonal Zn ₂ C ₂ P ₂ monolayer for photocatalytic water splitting with high carriers mobility. <i>Applied Surface Science</i> , 2020, 518, 146197.	3.1	13

#	ARTICLE	IF	CITATIONS
73	Bifunctional HER/OER or OER/ORR Catalytic Activity of Two-Dimensional TM ₃ (HTP) ₂ with TM = Fe/Zn. Journal of Physical Chemistry C, 2020, 124, 9350-9359.	1.5	67
74	Inversion/Mirror Symmetry-Protected Dirac Cones in Distorted Ruby Lattices. Chinese Physics Letters, 2020, 37, 127102.	1.3	2
75	Low-loss hyperbolic dispersion and anisotropic plasmonic excitation in nodal-line semimetallic yttrium nitride. Optics Express, 2020, 28, 22076.	1.7	8
76	Strain-tunable CO ₂ storage by black phosphorene and $\hat{I}\pm$ -PC from combined first principles and molecular dynamics studies. Physical Chemistry Chemical Physics, 2019, 21, 20107-20117.	1.3	11
77	First-principles design of highly-efficient earth-abundant electrocatalysts for hydrogen evolution reaction: TIF ₃ and its analogs. Applied Surface Science, 2019, 495, 143623.	3.1	13
78	Spontaneous full photocatalytic water splitting on 2D MoSe ₂ /SnSe ₂ and WSe ₂ /SnSe ₂ vdW heterostructures. Nanoscale, 2019, 11, 14836-14843.	2.8	156
79	Enhancing superconductivity in bulk $\hat{I}^2\hat{a}\sim$ Bi ₂ Pd by negative pressure induced by quantum electronic stress. Physical Review B, 2019, 100, .	1.1	4
80	Bifunctional Electrocatalytic Activity of Bis(iminothiolato)nickel Monolayer for Overall Water Splitting. Journal of Physical Chemistry C, 2019, 123, 25651-25656.	1.5	17
81	Dirac cones in a snub trihexagonal tiling lattice with reflective symmetry breaking. Journal of Physics Condensed Matter, 2019, 31, 155001.	0.7	5
82	Valley polarization and ferroelectricity in a two-dimensional GaAsC ₆ monolayer. Physical Chemistry Chemical Physics, 2019, 21, 3954-3959.	1.3	7
83	Intrinsic multiferroicity in two-dimensional VOCl ₂ monolayers. Nanoscale, 2019, 11, 1103-1110.	2.8	62
84	Porous-hollow nanorods constructed from alternate intercalation of carbon and MoS ₂ monolayers for lithium and sodium storage. Nano Research, 2019, 12, 1912-1920.	5.8	39
85	Tuning the electronic and magnetic properties of MoS ₂ nanotubes with vacancy defects. RSC Advances, 2019, 9, 17203-17210.	1.7	12
86	Tungsten boride: a 2D multiple Dirac semimetal for the hydrogen evolution reaction. Journal of Materials Chemistry C, 2019, 7, 8868-8873.	2.7	52
87	Hydrogen Confined in a Single Wall Carbon Nanotube Becomes a Metallic and Superconductive Nanowire under High Pressure. Nano Letters, 2019, 19, 2537-2542.	4.5	9
88	Two-dimensional graphyne-like carbon nitrides: Moderate band gaps, high carrier mobility, high flexibility and type-II band alignment. Carbon, 2019, 149, 234-241.	5.4	38
89	Li-III-VI bilayers for efficient photocatalytic overall water splitting: the role of intrinsic electric field. Journal of Materials Chemistry A, 2019, 7, 26123-26130.	5.2	40
90	Serendipity of a topological nontrivial band gap in the 2D borophene subunit lattice with broken mirror symmetry. Physical Chemistry Chemical Physics, 2019, 21, 22526-22530.	1.3	1

#	ARTICLE	IF	CITATIONS
91	Prediction of a flexible anode material for Li/Na ion batteries: Phosphorous carbide monolayer ($\hat{\pm}$ -PC). Carbon, 2019, 141, 444-450.	5.4	70
92	A Photoresponsive Rutile TiO_2 Heterojunction with Enhanced Electron-Hole Separation for High-Performance Hydrogen Evolution. Advanced Materials, 2019, 31, e1806596.	11.1	240
93	Promotion of Overall Water Splitting Activity Over a Wide pH Range by Interfacial Electrical Effects of Metallic NiCo-nitrides Nanoparticle/ NiCo_2O_4 Nanoflake/graphite Fibers. Advanced Science, 2019, 6, 1801829.	5.6	122
94	An unprecedented high-temperature-tolerance 2D laminar MXene membrane for ultrafast hydrogen sieving. Journal of Membrane Science, 2019, 569, 117-123.	4.1	87
95	Reversible out-of-plane spin texture in a two-dimensional ferroelectric material for persistent spin helix. Physical Review Materials, 2019, 3, .	0.9	39
96	Hyperbolic dispersion and negative refraction in a metal-organic framework Cu-BHT. Physical Review Materials, 2019, 3, .	0.9	9
97	Tunable broadband hyperbolic light dispersion in metal diborides. Optics Express, 2019, 27, 36911.	1.7	12
98	Strain-induced tunable negative differential resistance in triangle graphene spirals. Nanotechnology, 2018, 29, 205202.	1.3	6
99	Novel Conductive Metal-Organic Framework for a High-Performance Lithium-Sulfur Battery Host: 2D Cu-Benzenehexathial (BHT). ACS Applied Materials & Interfaces, 2018, 10, 15012-15020.	4.0	105
100	Topological states in a two-dimensional metal alloy in Si surface: BiAg/Si(111) - $\sqrt{4} \times \sqrt{4}$ surface. Physical Review B, 2018, 97, .		
101	Kane Fermion in a Two-Dimensional π -Conjugated Bis(iminothiolato)nickel Monolayer. Journal of Physical Chemistry Letters, 2018, 9, 614-619.	2.1	25
102	Promising half-metallicity in ductile NbF_3 : a first-principles prediction. Physical Chemistry Chemical Physics, 2018, 20, 4781-4786.	1.3	10
103	Zr_2Si : an antiferromagnetic Dirac MXene. Physical Chemistry Chemical Physics, 2018, 20, 3946-3952.	1.3	19
104	Two-Dimensional Metal-Organic Half-metallic Antiferromagnet: CoFePz . Journal of Physical Chemistry C, 2018, 122, 1846-1851.	1.5	24
105	Negative Poisson's ratio and high-mobility transport anisotropy in SiC_6 siligraphene. Nanoscale, 2018, 10, 2108-2114.	2.8	51
106	Silicene and germanene on InSe substrates: structures and tunable electronic properties. Physical Chemistry Chemical Physics, 2018, 20, 11369-11377.	1.3	44
107	PNTCDA: a promising versatile organic electrode material for alkali-metal ion batteries. Journal of Materials Chemistry A, 2018, 6, 24869-24876.	5.2	11
108	Theoretical Design of an InSe/GaTe vdW Heterobilayer: A Potential Visible-Light Photocatalyst for Water Splitting. Journal of Physical Chemistry C, 2018, 122, 27803-27810.	1.5	55

#	ARTICLE	IF	CITATIONS
109	Conductive and Polar Titanium Boride as a Sulfur Host for Advanced Lithium-Sulfur Batteries. <i>Chemistry of Materials</i> , 2018, 30, 6969-6977.	3.2	101
110	Electronic properties of a π -conjugated Cairo pentagonal lattice: Direct band gap, ultrahigh carrier mobility, and slanted Dirac cones. <i>Physical Review B</i> , 2018, 98, .	1.1	22
111	Anchoring effects of S-terminated Ti ₂ C MXene for lithium-sulfur batteries: A first-principles study. <i>Applied Surface Science</i> , 2018, 455, 522-526.	3.1	134
112	Irradiation resistance study of binderless nanopore-isotropic graphite for use in molten salt nuclear reactors. <i>Nuclear Engineering and Design</i> , 2018, 335, 231-240.	0.8	7
113	Direct Z-scheme photocatalytic overall water splitting on 2D CdS/InSe heterostructures. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 395501.	1.3	51
114	Valley-selective circular dichroism and high carrier mobility of graphene-like BC ₆ N. <i>Nanoscale</i> , 2018, 10, 13179-13186.	2.8	37
115	Predicting a graphene-like WB ₄ nanosheet with a double Dirac cone, an ultra-high Fermi velocity and significant gap opening by spin-orbit coupling. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 5449-5453.	1.3	40
116	Ultrabroadband MoS ₂ Photodetector with Spectral Response from 445 to 2717 nm. <i>Advanced Materials</i> , 2017, 29, 1605972.	11.1	256
117	Strain-Modulated Electronic Structure and Infrared Light Adsorption in Palladium Diselenide Monolayer. <i>Scientific Reports</i> , 2017, 7, 39995.	1.6	39
118	Gallium bismuth halide GaBi-X ₂ (X = I, Br, Cl) monolayers with distorted hexagonal framework: Novel room-temperature quantum spin Hall insulators. <i>Nano Research</i> , 2017, 10, 2168-2180.	5.8	18
119	Tuning of Interlayer Coupling in Large-Area Graphene/WSe ₂ van der Waals Heterostructure via Ion Irradiation: Optical Evidences and Photonic Applications. <i>ACS Photonics</i> , 2017, 4, 1531-1538.	3.2	75
120	Efficient hydrogen isotopologues separation through a tunable potential barrier: The case of a C ₂ N membrane. <i>Scientific Reports</i> , 2017, 7, 1483.	1.6	21
121	Dirac node lines in two-dimensional Lieb lattices. <i>Nanoscale</i> , 2017, 9, 8740-8746.	2.8	46
122	Cu ₃ N and its analogs: a new class of electrodes for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8762-8768.	5.2	29
123	A niobium and tantalum co-doped perovskite cathode for solid oxide fuel cells operating below 500 °C. <i>Nature Communications</i> , 2017, 8, 13990.	5.8	180
124	Low-energy transmission electron diffraction and imaging of large-area graphene. <i>Science Advances</i> , 2017, 3, e1603231.	4.7	35
125	Half-metallic TiF ₃ : a potential anode material for Li-ion spin batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21486-21490.	5.2	16
126	Theoretical Discovery of a Superconducting Two-Dimensional Metal-Organic Framework. <i>Nano Letters</i> , 2017, 17, 6166-6170.	4.5	86

#	ARTICLE	IF	CITATIONS
127	Efficient $^3\text{He}/^4\text{He}$ separation in a nanoporous graphenylene membrane. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 21522-21526.	1.3	9
128	Theoretical Design of Highly Efficient CO_2/N_2 Separation Membranes Based on Electric Quadrupole Distinction. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17925-17931.	1.5	15
129	Metal-free Ternary BCN Nanosheets with Synergetic Effect of Band Gap Engineering and Magnetic Properties. <i>Scientific Reports</i> , 2017, 7, 6617.	1.6	41
130	Chern Insulator and Chern Half-Metal States in the Two-Dimensional Spin-Gapless Semiconductor $\text{Mn}_2\text{C}_6\text{S}_{12}$. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3770-3775.	2.1	30
131	A promising alkali-metal ion battery anode material: 2D metallic phosphorus carbide ($\text{i}^{20}\text{-PC}$). <i>Electrochimica Acta</i> , 2017, 258, 582-590.	2.6	40
132	Tunable Dirac cones in two-dimensional covalent organic materials: $\text{C}_2\text{N}_6\text{S}_3$ and its analogs. <i>RSC Advances</i> , 2017, 7, 52065-52070.	1.7	9
133	Dirac cones and highly anisotropic electronic structure of super-graphyne. <i>Carbon</i> , 2017, 113, 40-45.	5.4	34
134	Energetics of carbon and nitrogen impurities and their interactions with vacancy in vanadium. <i>Chinese Physics B</i> , 2016, 25, 036104.	0.7	8
135	Tunable C_2N Membrane for High Efficient Water Desalination. <i>Scientific Reports</i> , 2016, 6, 29218.	1.6	67
136	Intrinsic current-voltage characteristics of metal-carbon nanotube networks: A first-principles study. <i>Organic Electronics</i> , 2016, 31, 278-286.	1.4	5
137	Prediction of an ultrasoft graphene allotrope with Dirac cones. <i>Carbon</i> , 2016, 105, 323-329.	5.4	62
138	Germanium sulfide nanosheet: a universal anode material for alkali metal ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8905-8912.	5.2	188
139	Band inversion and topological aspects in a TiNI monolayer. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 22154-22159.	1.3	26
140	Tunable topological states in electron-doped HTT-Pt . <i>Physical Review B</i> , 2016, 93, .	1.1	38
141	Electron spin-polarization and spin-gapless states in an oxidized carbon nitride monolayer. <i>RSC Advances</i> , 2016, 6, 108280-108285.	1.7	0
142	Highly Efficient Quantum Sieving in Porous Graphene-like Carbon Nitride for Light Isotopes Separation. <i>Scientific Reports</i> , 2016, 6, 19952.	1.6	45
143	Spin-polarized Dirac cones and topological nontriviality in a metal-organic framework $\text{Ni}_2\text{C}_{24}\text{S}_6\text{H}_{12}$. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8059-8064.	1.3	48
144	Gas Adsorption Effects on the Electronic Properties of Two-Dimensional Nickel Bis(dithiolene) Complex. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3846-3852.	1.5	31

#	ARTICLE	IF	CITATIONS
145	Unusual electronic and mechanical properties of sodium chlorides at high pressures. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 1556-1561.	0.9	2
146	Strain-driven band inversion and topological aspects in Antimonene. <i>Scientific Reports</i> , 2015, 5, 16108.	1.6	203
147	Robust half-metallicity and topological aspects in two-dimensional Cu-TPyB. <i>Scientific Reports</i> , 2015, 5, 14098.	1.6	29
148	“Chemical Weathering”-Exfoliation of Atom-Thick Transition Metal Dichalcogenides and Their Ultrafast Saturable Absorption Properties. <i>Advanced Functional Materials</i> , 2015, 25, 5292-5299.	7.8	69
149	High hydrogen storage capacity in calcium-decorated silicene nanostructures. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 2072-2078.	0.7	12
150	Dumbbell stanane: a large-gap quantum spin hall insulator. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 16624-16629.	1.3	25
151	Intrinsic half-metallicity in fractal carbon nitride honeycomb lattices. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21837-21844.	1.3	14
152	Role of edge dehydrogenation in magnetization and spin transport of zigzag graphene nanoribbons with line defects. <i>Organic Electronics</i> , 2015, 27, 212-220.	1.4	5
153	A comparative study of SrCo _{0.8} Nb _{0.2} O ₃ and SrCo _{0.8} Ta _{0.2} O ₃ as low-temperature solid oxide fuel cell cathodes: effect of non-geometry factors on the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2015, 3, 24064-24070.	5.2	52
154	Tensile strain induced half-metallicity in graphene-like carbon nitride. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 6028-6035.	1.3	45
155	Giant Topological Nontrivial Band Gaps in Chloridized Gallium Bismuthide. <i>Nano Letters</i> , 2015, 15, 1296-1301.	4.5	92
156	Kinetics of Nonlinear Optical Response at Insulator-Metal Transition in Vanadium Dioxide. <i>Advanced Optical Materials</i> , 2015, 3, 64-70.	3.6	9
157	High activity and durability of novel perovskite electrocatalysts for water oxidation. <i>Materials Horizons</i> , 2015, 2, 495-501.	6.4	128
158	Stacking dependent electronic properties of the nanofilms composing of super-aligned single-walled carbon nanotubes. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 215307.	1.3	0
159	Sulfur and nitrogen self-doped carbon nanosheets derived from peanut root nodules as high-efficiency non-metal electrocatalyst for hydrogen evolution reaction. <i>Nano Energy</i> , 2015, 16, 357-366.	8.2	162
160	Prediction of quantum anomalous Hall effect on graphene nanomesh. <i>RSC Advances</i> , 2015, 5, 9875-9880.	1.7	26
161	Driving a GaAs film to a large-gap topological insulator by tensile strain. <i>Scientific Reports</i> , 2015, 5, 8441.	1.6	55
162	Electron spin-polarization and band gap engineering in carbon-modified graphitic carbon nitrides. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10886-10891.	2.7	13

#	ARTICLE	IF	CITATIONS
163	Prediction of a large-gap quantum-spin-Hall insulator: Diamond-like GaBi bilayer. Nano Research, 2015, 8, 3823-3829.	5.8	11
164	Hydrogenation-induced large-gap quantum-spin-Hall insulator states in a germanium-tin dumbbell structure. RSC Advances, 2015, 5, 72462-72468.	1.7	12
165	Phagraphene: A Low-Energy Graphene Allotrope Composed of 5-6-7 Carbon Rings with Distorted Dirac Cones. Nano Letters, 2015, 15, 6182-6186.	4.5	482
166	Efficient helium separation of graphitic carbon nitride membrane. Carbon, 2015, 95, 51-57.	5.4	115
167	Large-Scale Synthesis of Few-Layer F-BN Nanocages with Zigzag-Edge Triangular Antidot Defects and Investigation of the Advanced Ferromagnetism. Nano Letters, 2015, 15, 8122-8128.	4.5	30
168	Spin-gapless semiconducting graphitic carbon nitrides: A theoretical design from first principles. Carbon, 2015, 84, 1-8.	5.4	72
169	Strain-induced phase transition and electron spin-polarization in graphene spirals. Scientific Reports, 2015, 4, 5699.	1.6	17
170	From UV to Near-Infrared, WS ₂ Nanosheet: A Novel Photocatalyst for Full Solar Light Spectrum Photodegradation. Advanced Materials, 2015, 27, 363-369.	11.1	494
171	Self-Organized Micro-Columns and Nano-Spheres Generated by Pulsed Laser Ablation of Ti/Al Alloy in Water. Chinese Physics Letters, 2014, 31, 015202.	1.3	1
172	Stoichiometry determined exchange interactions in amorphous ternary transition metal oxides: Theory and experiment. Journal of Applied Physics, 2014, 116, 043711.	1.1	3
173	Lattice match and lattice mismatch models of graphene on hexagonal boron nitride from first principles. Journal of Physics Condensed Matter, 2014, 26, 095002.	0.7	24
174	Manifold electronic structure transition of hybrid silicane-silicene nanoribbons. Chemical Physics Letters, 2014, 595-596, 20-24.	1.2	9
175	Direct characterization of ion implanted pyrolytic carbon coatings deposited from natural gas. Carbon, 2014, 68, 95-103.	5.4	16
176	One-Step Exfoliation and Fluorination of Boron Nitride Nanosheets and a Study of Their Magnetic Properties. Angewandte Chemie - International Edition, 2014, 53, 3645-3649.	7.2	127
177	Broadband Few-Layer MoS ₂ Saturable Absorbers. Advanced Materials, 2014, 26, 3538-3544.	11.1	645
178	The stability and electronic structure of Fe atoms embedded in zigzag graphene nanoribbons. Physica B: Condensed Matter, 2014, 441, 28-32.	1.3	15
179	A metallic carbon allotrope with superhardness: a first-principles prediction. Journal of Materials Chemistry C, 2014, 2, 2751-2757.	2.7	40
180	Theoretical characterization of layered silica nanostructures from first-principles prediction. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 3348-3353.	0.9	8

#	ARTICLE	IF	CITATIONS
181	Electron spin-polarization and spin lattices in the boron- and nitrogen-doped organic framework COF-5. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 23286-23291.	1.3	17
182	Structures, Energetics, and Electronic Properties of Multifarious Stacking Patterns for High-Buckled and Low-Buckled Silicene on the MoS ₂ Substrate. <i>Journal of Physical Chemistry C</i> , 2014, 118, 19129-19138.	1.5	76
183	Two-dimensional topological insulators with binary honeycomb lattices: SiC_3 and siligraphene and its analogs. <i>Physical Review B</i> , 2014, 89, .	1.1	83
184	Effect of the alloying element titanium on the stability and trapping of hydrogen in pure vanadium: A first-principles study. <i>International Journal of Modern Physics B</i> , 2014, 28, 1450207.	1.0	16
185	Topological insulator states in a honeycomb lattice of s-triazines. <i>Nanoscale</i> , 2014, 6, 11157-11162.	2.8	79
186	SiC coating: An alternative for the protection of nuclear graphite from liquid fluoride salt. <i>Journal of Nuclear Materials</i> , 2014, 448, 1-3.	1.3	53
187	Half-metallicity of C/BN hybrid nanoribbons containing a topological defective interface. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 60, 224-228.	1.3	1
188	Graphyne-based carbon allotropes with tunable properties: From Dirac fermion to semiconductor. <i>Diamond and Related Materials</i> , 2014, 41, 65-72.	1.8	32
189	Gold atom and dimer adsorbed on perfect and defective graphene and boron nitride monolayer: A first-principles study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 59, 235-242.	1.3	9
190	A comparative first-principles study of the electronic, mechanical, defect and acoustic properties of Ti ₂ AlC and Ti ₃ AlC. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 215301.	1.3	27
191	Characterization of the effects of 3-MeV proton irradiation on fine-grained isotropic nuclear graphite. <i>Carbon</i> , 2014, 77, 311-318.	5.4	30
192	Spin memristive magnetic tunnel junctions with CoO-ZnO nano composite barrier. <i>Scientific Reports</i> , 2014, 4, 3835.	1.6	21
193	First-principles prediction of the transition from graphdiyne to a superlattice of carbon nanotubes and graphene nanoribbons. <i>Carbon</i> , 2013, 65, 341-348.	5.4	52
194	Protection of nuclear graphite toward liquid fluoride salt by isotropic pyrolytic carbon coating. <i>Journal of Nuclear Materials</i> , 2013, 442, 306-308.	1.3	26
195	Stable ferromagnetism and half-metallicity in two-dimensional polyporphyrin frameworks. <i>RSC Advances</i> , 2013, 3, 7016.	1.7	43
196	First-principles prediction of a new Dirac-fermion material: silicon germanide monolayer. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 395501.	0.7	35
197	First-principles identifications of superstructures of germanene on Ag(111) surface and h-BN substrate. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16853.	1.3	56
198	Three-dimensional diffusion of molecular hydrogen in graphdiyne: a first-principles study. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 495307.	1.3	21

#	ARTICLE	IF	CITATIONS
199	Irradiation-induced magnetic ordering in SiC: Experimental results and a density functional study. Applied Physics Letters, 2013, 103, 262409.	1.5	13
200	Tuning the electronic and magnetic properties of triangular boron nitride quantum dots via carbon doping. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 49, 52-60.	1.3	17
201	Spin-polarization and ferromagnetism of graphitic carbon nitride materials. Journal of Materials Chemistry C, 2013, 1, 6265.	2.7	82
202	Half-metallicity of a kagome spin lattice: the case of a manganese bis-dithiolene monolayer. Nanoscale, 2013, 5, 10404.	2.8	84
203	A Highly Active Perovskite Electrode for the Oxygen Reduction Reaction Below 600°C. Angewandte Chemie - International Edition, 2013, 52, 14036-14040.	7.2	138
204	Two-dimensional carbon topological insulators superior to graphene. Scientific Reports, 2013, 3, 3532.	1.6	140
205	Role of acetylenic bonds in the mechanical, electronic and optical properties of yne-diamonds. Diamond and Related Materials, 2013, 37, 55-63.	1.8	9
206	Spin-polarized zero-energy states in BN/C core-shell quantum dots. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 1102-1108.	0.9	9
207	Exfoliation of Hexagonal Boron Nitride by Molten Hydroxides. Advanced Materials, 2013, 25, 2200-2204.	11.1	275
208	Magnetic and optical properties of Cu-doped ZnO nanosheet: First-principles calculations. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 53, 101-105.	1.3	40
209	Can cation vacancy defects induce room temperature ferromagnetism in GaN?. Applied Physics Letters, 2013, 102, 062411.	1.5	28
210	Moiré superstructures of silicene on hexagonal boron nitride: A first-principles study. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 2628-2632.	0.9	51
211	Graphdiyne: A promising anode material for lithium ion batteries with high capacity and rate capability. Journal of Applied Physics, 2013, 113, .	1.1	131
212	Formation and annealing behaviors of qubit centers in 4H-SiC from first principles. Journal of Applied Physics, 2013, 114, .	1.1	18
213	The mechanism of effect of lens-to-sample distance on laser-induced plasma. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 025203.	0.2	7
214	Adsorption and diffusion of gold adatoms on boron nitride nanoribbons: A first-principles study. Journal of Applied Physics, 2012, 112, .	1.1	5
215	Spin-polarization of VGaON center in GaN and its application in spin qubit. Applied Physics Letters, 2012, 100, 192401.	1.5	25
216	Is yne-diamond a super-hard material?. Europhysics Letters, 2012, 100, 56003.	0.7	19

#	ARTICLE	IF	CITATIONS
217	Role of lens to sample distance during laser-induced damage in zinc targets. <i>Laser Physics Letters</i> , 2012, 9, 730-733.	0.6	14
218	Silicon Carbide Nanocages and Nanotubes: Analogs of Carbon Fullerenes and Nanotubes or Not?. <i>Journal of Computational and Theoretical Nanoscience</i> , 2012, 9, 1999-2007.	0.4	5
219	Tunable Hydrogen Separation in sp^2 Hybridized Carbon Membranes: A First-Principles Prediction. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16634-16638.	1.5	135
220	Isoelectronic Doping of Graphdiyne with Boron and Nitrogen: Stable Configurations and Band Gap Modification. <i>Journal of Physical Chemistry A</i> , 2012, 116, 3934-3939.	1.1	142
221	First-principles study of hydrogenated graphyne and its family: Stable configurations and electronic structures. <i>Diamond and Related Materials</i> , 2012, 29, 42-47.	1.8	71
222	Zinc oxide micro-spheres with faceted surfaces produced by laser ablation of zinc targets. <i>Journal of Applied Physics</i> , 2012, 111, 103108.	1.1	10
223	Hybrid density functional study of band alignment in ZnO/GaN and $ZnO_{1-x}Zn_x(N_{1-x}O_x)/GaN$ heterostructures. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 15693.	1.3	46
224	Ultra-high hydrogen storage capacity of Li-decorated graphyne: A first-principles prediction. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	64
225	First-principles study of electronic structure and magnetic properties of Cu-doped CeO_2 . <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	6
226	Special structures and properties of hydrogen nanowire confined in a single walled carbon nanotube at extreme high pressure. <i>AIP Advances</i> , 2012, 2, 022161.	0.6	2
227	Effects of substrate temperature upon optical properties of ZnTe epilayers grown on (100) GaAs substrates by MOVPE. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 2041-2044.	0.8	1
228	The roles of π electrons in the electronic structures and optical properties of graphyne. <i>Science Bulletin</i> , 2012, 57, 3080-3085.	1.7	15
229	Characterization of regular periodic surface structure by multi-pulse laser irradiation of a Zinc target. <i>Chinese Optics Letters</i> , 2012, 10, 051402-51404.	1.3	6
230	Honeycomb-Patterned Quantum Dots beyond Graphene. <i>Journal of Physical Chemistry C</i> , 2011, 115, 17743-17749.	1.5	25
231	First-principles characterization of an AlSiVC center in cubic silicon carbide. <i>Journal of Applied Physics</i> , 2011, 110, 033711.	1.1	9
232	Tunable electronic structures of graphene/boron nitride heterobilayers. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	211
233	Localized defects closely related with the magnetism of graphite induced by $12C^+$ ion implantation. <i>Journal of Applied Physics</i> , 2011, 109, 083933.	1.1	4
234	Investigating the ferromagnetic exchange interaction in Co-doped ZnO magnetic semiconductors. <i>Scripta Materialia</i> , 2011, 64, 864-867.	2.6	4

#	ARTICLE	IF	CITATIONS
235	High Mobility and High Storage Capacity of Lithium in sp^2 Hybridized Carbon Network: The Case of Graphyne. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8845-8850.	1.5	228
236	An ab initio study on gas sensing properties of graphene and Si-doped graphene. <i>European Physical Journal B</i> , 2011, 81, 475-479.	0.6	143
237	Effect of native defects and Co doping on ferromagnetism in HfO_2 : First-principles calculations. <i>Journal of Computational Chemistry</i> , 2011, 32, 1298-1302.	1.5	7
238	Enhancing the ferromagnetization of graphite by successive $12C^+$ ion implantation steps. <i>Carbon</i> , 2011, 49, 1931-1938.	5.4	19
239	Structural and electronic properties of ZnS/ZnO heteronanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 43, 1522-1527.	1.3	7
240	Possible origin of ferromagnetism in un-doped ZnO: First-principles calculations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 638-641.	0.9	13
241	Theoretical insights into the built-in electric field and band offsets of BN/C heterostructured zigzag nanotubes. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 095405.	1.3	19
242	Manifold electronic structure transition of BNC biribbons. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	30
243	Proton inelastic mean free path in a group of bioorganic compounds and water in 0.05–10 MeV range including higher-order corrections. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 2337-2342.	0.6	9
244	Neutral vacancy-defect-induced magnetism in SiC monolayer. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 2451-2454.	1.3	26
245	Tight-binding model for the electronic structures of SiC and BN nanoribbons. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 43, 440-445.	1.3	59
246	Atomic-scale characterization of silicon diffusion on carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 43, 610-613.	1.3	3
247	Concentration dependent magnetism induced by hydrogen adsorption on graphene and single walled carbon nanotubes. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 838-843.	1.0	16
248	Proton inelastic mean free path in amino acids and protein over the energy range of 0.05–10 MeV. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 2606-2610.	0.6	3
249	Size-dependent structural and electronic properties of ZnS nanofilms: An ab initio study. <i>Journal of Applied Physics</i> , 2010, 108, 064317.	1.1	13
250	Tuning Bandgap of Si-C Heterofullerene-Based Nanotubes by H Adsorption. <i>Chinese Physics Letters</i> , 2010, 27, 097101.	1.3	0
251	Energetic Evolution of Single-Crystalline ZnO Nanowires and Nanotubes. <i>Chinese Physics Letters</i> , 2010, 27, 086105.	1.3	3
252	Proton Inelastic Mean Free Path in a Group of Organic Materials in 0.05–10 MeV Range. <i>Chinese Physics Letters</i> , 2010, 27, 113403.	1.3	1

#	ARTICLE	IF	CITATIONS
253	Tunable rectification and giant positive magnetoresistance in Ge _{1-x} Mnx/Ge epitaxial heterojunction diodes. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	8
254	Ferromagnetic ordering of silicon vacancies in N-doped silicon carbide. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	44
255	Long-ranged and high temperature ferromagnetism in (Mn,C)-codoped ZnO studied by first-principles calculations. <i>Journal of Applied Physics</i> , 2010, 107, 033903.	1.1	20
256	Vacancy-defect-derived magnetism in titanium oxide nanosheet: A first-principles study. <i>Europhysics Letters</i> , 2010, 90, 66005.	0.7	4
257	Orientation-selective unzipping of carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13674.	1.3	18
258	Natural charge spatial separation and quantum confinement of ZnO/GaN-core/shell nanowires. <i>Journal of Applied Physics</i> , 2010, 108, 123707.	1.1	12
259	First-Principles Study of Titania Nanoribbons: Formation, Energetics, and Electronic Properties. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9234-9238.	1.5	17
260	Controllable spin-polarized electrical transport in wide-band-gap oxide ferromagnetic semiconductors. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	10
261	First-principles prediction of the negatively-charged nitrogen-silicon-vacancy center in cubic silicon carbide. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	15
262	Diffusion and coalescence of vacancies and interstitials in graphite: A first-principles study. <i>Diamond and Related Materials</i> , 2010, 19, 1240-1244.	1.8	66
263	Rhodium atoms confined in boron nitride nanotubes: Density functional calculations. <i>Europhysics Letters</i> , 2010, 90, 47003.	0.7	2
264	Electronic properties of BN/C nanotube heterostructures. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	34
265	Hydrogen saturation stabilizes vacancy-induced ferromagnetic ordering in graphene. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13699.	1.3	31
266	Temporal and spatial evolution of Si atoms in plasmas produced by a nanosecond laser ablating silicon carbide crystals. <i>Physical Review E</i> , 2009, 80, 016405.	0.8	15
267	First-principles identification of two- and four-membered-ring hybrid structures of silica nanorings. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 4376-4380.	0.9	1
268	First-principles study of cobalt silicide nanosheet and nanotubes: Stability and electronic properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 1795-1799.	1.3	5
269	A new calculation on the stopping power and mean free path for low energy electrons in toluene over energy range of 20-10 000 eV. <i>Applied Radiation and Isotopes</i> , 2009, 67, 625-629.	0.7	12
270	Correlation between the vacancy defects and ferromagnetism in graphite. <i>Carbon</i> , 2009, 47, 1399-1406.	5.4	94

#	ARTICLE	IF	CITATIONS
271	Orientation-Dependent Stability and Quantum-Confinement Effects of Silicon Carbide Nanowires. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12731-12735.	1.5	27
272	Early-stage evolution of the plasma over KTiOPO ₄ samples generated by high-intensity laser radiations. <i>Optics Letters</i> , 2009, 34, 2682.	1.7	10
273	Energetic Minimum Structures of Imogolite Nanotubes: A First-Principles Prediction. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14834-14837.	1.5	28
274	Layered Titanium Oxide Nanosheet and Ultrathin Nanotubes: A First-Principles Prediction. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13610-13615.	1.5	41
275	Covalent-adsorption induced magnetism in graphene. <i>Journal of Materials Chemistry</i> , 2009, 19, 9274.	6.7	58
276	First-Principles Study of Faceted Single-Crystalline Silicon Carbide Nanowires and Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 856-861.	1.5	17
277	Tunable Magnetism in Carbon-Implanted Highly Oriented Pyrolytic Graphite. <i>Advanced Materials</i> , 2008, 20, 4679-4683.	11.1	103
278	The dimension of the core and the tail of the plasma produced by laser ablating SiC targets. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 5891-5895.	0.9	8
279	Theoretical models of ZnS nanoclusters and nanotubes: First-principles calculations. <i>Solid State Communications</i> , 2008, 147, 165-168.	0.9	20
280	Electronic stopping power for proton in amino acids and protein in 0.05–10 MeV range. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 1938-1942.	0.6	11
281	First-principles study of ZnS nanostructures: nanotubes, nanowires and nanosheets. <i>Nanotechnology</i> , 2008, 19, 305708.	1.3	36
282	Theoretical Insight into Faceted ZnS Nanowires and Nanotubes from Interatomic Potential and First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3509-3514.	1.5	37
283	From pure C ₆₀ to silicon carbon fullerene-based nanotube: An ab initio study. <i>Journal of Chemical Physics</i> , 2008, 128, 154719.	1.2	10
284	Ab Initio Calculations on the Magnetic Properties of Hydrogenated Boron Nitride Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 16231-16235.	1.5	23
285	The electronic structure evolution of DNA during its conformation transition process. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 5077.	1.3	2
286	Theoretical Models of Silica Nanorings: First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2008, 112, 17071-17075.	1.5	3
287	First-principles study of Co-doped single-walled silicon nanotubes. <i>Nanotechnology</i> , 2008, 19, 205707.	1.3	12
288	The electronic structure of a single-walled aluminosilicate nanotube. <i>Nanotechnology</i> , 2008, 19, 175702.	1.3	17

#	ARTICLE	IF	CITATIONS
289	Fluorination-induced magnetism in boron nitride nanotubes from ab initio calculations. Applied Physics Letters, 2008, 92, 102515.	1.5	52
290	Analysis of plasma profile over KTiOAsO ₄ surface produced by 532 and 1064 nm laser radiations. Journal of Applied Physics, 2008, 104, .	1.1	3
291	Theoretical prediction for the (AlN) ₁₂ fullerene-like cage-based nanomaterials. Journal of Physics Condensed Matter, 2007, 19, 346228.	0.7	17
292	Surface structures and electronic states of silicon nanotubes stabilized by oxygen atoms. Journal of Applied Physics, 2007, 102, .	1.1	7
293	Faceted Silicon Nanotubes: Structure, Energetic, and Passivation Effects. Journal of Physical Chemistry C, 2007, 111, 1234-1238.	1.5	32
294	Stabilizing Zigzag Single-Walled Silicon Nanotubes and Tailoring the Electronic Structures by Oxygen Atoms: First-Principles Studies. Journal of Physical Chemistry C, 2007, 111, 2942-2946.	1.5	8
295	Geometric and Electronic Structures of Hydrogen-Stabilized Silicon Nitride Nanosheets and Nanotubes. Journal of Physical Chemistry C, 2007, 111, 16840-16845.	1.5	10
296	First-Principles Design of Well-Ordered Silica Nanotubes from Silica Monolayers and Nanorings. Journal of Physical Chemistry C, 2007, 111, 9652-9657.	1.5	10
297	From a fullerene-like cage (SiC) ₁₂ to novel silicon carbide nanowires: An ab initio study. Chemical Physics Letters, 2007, 442, 384-389.	1.2	12
298	Design and energetic characterization of ZnO clusters from first-principles calculations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 372, 39-43.	0.9	54
299	Theoretical study of the H reaction with cytosine. International Journal of Quantum Chemistry, 2007, 107, 240-246.	1.0	3
300	Structural characterization of fully coordinated ultrathin silica nanotubes by first-principles calculations. Physical Review B, 2006, 73, .	1.1	21
301	First-Principles Calculations of AlN Nanowires and Nanotubes: Atomic Structures, Energetics, and Surface States. Journal of Physical Chemistry B, 2006, 110, 8764-8768.	1.2	72
302	Theoretical study of hydrogen atom adsorbed on carbon-doped BN nanotubes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 357, 369-373.	0.9	56
303	Functionalization of silicon-doped single walled carbon nanotubes at the doping site: An ab initio study. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 358, 166-170.	0.9	12
304	Proton stopping power in a group of bioorganic compounds over the energy range of 0.05–10 MeV. Nuclear Instruments & Methods in Physics Research B, 2006, 248, 1-6.	0.6	31
305	Electron stopping power and inelastic mean free path in amino acids and protein over the energy range of 20–20,000 eV. Radiation and Environmental Biophysics, 2006, 45, 135-143.	0.6	28
306	The effect of salt concentration on DNA conformation transition: a molecular-dynamics study. Journal of Molecular Modeling, 2006, 12, 249-254.	0.8	11

#	ARTICLE	IF	CITATIONS
307	Silver-filled single-walled carbon nanotubes: Atomic and electronic structures from first-principles calculations. <i>Physical Review B</i> , 2006, 74, .	1.1	14
308	First-principles LDA+U calculations of the Co-doped ZnO magnetic semiconductor. <i>Physical Review B</i> , 2006, 73, .	1.1	81
309	Tuning the electronic structures of semiconducting SiC nanotubes by N and NH _x (x=1,2) groups. <i>Journal of Chemical Physics</i> , 2006, 125, 194710.	1.2	30
310	Monte-Carlo simulation of low-energy electron scattering in PMMA using stopping powers from dielectric formalism. <i>Microelectronic Engineering</i> , 2005, 77, 285-291.	1.1	22
311	Curvature-induced condensation of lithium confined inside single-walled carbon nanotubes: First-principles calculations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 340, 434-439.	0.9	42
312	Theoretical study of the OH reaction with cytosine. <i>Computational and Theoretical Chemistry</i> , 2005, 723, 123-129.	1.5	30
313	Ab initio study of base-functionalized single walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2005, 415, 183-187.	1.2	24
314	Monte Carlo simulation of interactions between energetic electron and cellulose film. <i>Applied Surface Science</i> , 2005, 246, 117-125.	3.1	1
315	An investigation of distribution parameters for fluorine ion implantation in indium-tin-oxide films. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 81, 635-638.	1.1	1
316	Reactions of \dot{A} -OH with thymine studied using density functional theory. <i>International Journal of Quantum Chemistry</i> , 2005, 101, 211-218.	1.0	26
317	Self-assembly of base-functionalized carbon nanotubes. <i>Physical Review B</i> , 2005, 72, .	1.1	9
318	Manipulating the electronic structures of silicon carbide nanotubes by selected hydrogenation. <i>Journal of Chemical Physics</i> , 2005, 122, 214707.	1.2	72
319	Diffusion and condensation of lithium atoms in single-walled carbon nanotubes. <i>Physical Review B</i> , 2005, 71, .	1.1	70
320	Distribution patterns and controllable transport of water inside and outside charged single-walled carbon nanotubes. <i>Journal of Chemical Physics</i> , 2005, 122, 084708.	1.2	46
321	Strain energy and electronic structures of silicon carbide nanotubes: Density functional calculations. <i>Physical Review B</i> , 2005, 71, .	1.1	239
322	Enhancement of hydrogen physisorption on single-walled carbon nanotubes resulting from defects created by carbon bombardment. <i>Physical Review B</i> , 2005, 71, .	1.1	19
323	Density-functional theory calculations of XH ₃ -decorated SiC nanotubes (X={C,Si}): Structures, energetics, and electronic structures. <i>Journal of Applied Physics</i> , 2005, 97, 104311.	1.1	35
324	Electron stopping power and mean free path in organic compounds over the energy range of 20 eV–10,000 eV. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 222, 27-43.	0.6	71

#	ARTICLE	IF	CITATIONS
325	Cross sections of electron inelastic interactions in DNA. Radiation and Environmental Biophysics, 2004, 43, 173-182.	0.6	28
326	A scheme for the economical use of numerical basis sets in calculations with SIESTA. Theoretical Chemistry Accounts, 2004, 112, 158.	0.5	33
327	Ambient gas effects on high-power Nd:YAG laser ablation of SnO ₂ :Sb transparent conducting thin film. Optics and Lasers in Engineering, 2004, 41, 537-544.	2.0	7
328	Electronic stopping powers for fluorine ions in -implanted potassium titanyl arsenate. Applied Surface Science, 2004, 228, 77-83.	3.1	1
329	Strain energy and thermal stability of single-walled aluminum nitride nanotubes from first-principles calculations. Chemical Physics Letters, 2004, 389, 160-164.	1.2	63
330	Stable and extendable cage containing nanosize silica clusters based on three-membered rings. Physical Review B, 2004, 69, .	1.1	28
331	Chemical Reactivity of Single-Walled Carbon Nanotubes to Amidogen from Density Functional Calculations. Journal of Physical Chemistry B, 2004, 108, 9599-9603.	1.2	35
332	Recombination and Exchange Reactions of Hydrogen and Dihydrogen Molecular Condensation in Single-Walled Carbon Nanotubes. Journal of Physical Chemistry B, 2004, 108, 4711-4715.	1.2	5
333	Stable tetrahedral structure of the silica cluster(SiO ₂) ₁₀ . Physical Review B, 2004, 70, .	1.1	15
334	Two- and Three-Membered-Ring Hybrid Structures of Silica Nanoclusters. Journal of Physical Chemistry B, 2004, 108, 18451-18454.	1.2	23
335	Selectable functionalization of single-walled carbon nanotubes resulting from CH _n (n=1-3)adsorption. Physical Review B, 2004, 69, .	1.1	23
336	Silicon Monoxide Clusters: The Favorable Precursors for Forming Silicon Nanostructures. Physical Review Letters, 2004, 93, 095503.	2.9	55
337	Emission properties of laser ablation of SnO ₂ : Sb transparent conducting film and KTiOPO ₄ crystal. Optics and Laser Technology, 2003, 35, 475-480.	2.2	2
338	Investigation of intermixing induced by sputtering and annealing in multiple quantum well. Applied Surface Science, 2003, 205, 182-187.	3.1	0
339	Study of the plasma produced from laser ablation of a KTP crystal. Applied Surface Science, 2003, 207, 227-235.	3.1	27
340	Influence of annealing condition on photoluminescence characteristics of AlGaAs/GaAs multiple quantum well. Materials Letters, 2003, 57, 2932-2935.	1.3	9
341	Stability and electronic structure of AlN nanotubes. Physical Review B, 2003, 68, .	1.1	148
342	Plasma properties of a laser-ablated aluminum target in air. Laser and Particle Beams, 2003, 21, 97-101.	0.4	33

#	ARTICLE	IF	CITATIONS
343	Condensation and phase transition of hydrogen molecules confined in single-walled carbon nanotubes. <i>Physical Review B</i> , 2003, 67, .	1.1	20
344	First-principles calculations for nitrogen-containing single-walled carbon nanotubes. <i>Journal of Applied Physics</i> , 2003, 94, 2398-2402.	1.1	93
345	Exohedral and endohedral adsorption of nitrogen on the sidewall of single-walled carbon nanotubes. <i>Physical Review B</i> , 2002, 66, .	1.1	45
346	Hydrogen storage capacity in single-walled carbon nanotubes. <i>Physical Review B</i> , 2002, 65, .	1.1	31
347	Tensile strength of single-walled carbon nanotubes with defects under hydrostatic pressure. <i>Physical Review B</i> , 2002, 65, .	1.1	45
348	Electronic stopping powers for fluorine ions in $^{19}\text{F}^+$ -implanted tin-oxide films prepared by APCVD. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002, 187, 431-436.	0.6	3
349	Electronic stopping powers of molybdenum metal for ^{19}F ions at low velocity. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002, 197, 17-21.	0.6	0
350	An investigation of range distribution parameters for bismuth ion-implantation in silver gallium disulphur. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002, 96, 65-68.	1.7	0
351	DFT calculation on the energy thresholds of DNA damages under irradiation conditions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 300, 421-426.	0.9	6
352	Structures of hydrogen molecules in single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2002, 357, 97-102.	1.2	24
353	The importance of electronic exchange-correlation in non-self-consistent frozen density approximation. <i>Chemical Physics Letters</i> , 2002, 360, 436-442.	1.2	2
354	Effective hydrogen storage in single-wall carbon nanotubes. <i>Physical Review B</i> , 2001, 63, .	1.1	101
355	Chemical adsorption of C_{60} on diamond (100)($2\text{\AA}-1$) surfaces. <i>Applied Physics A: Materials Science and Processing</i> , 2001, 73, 365-369.	1.1	1
356	Depth profiles and electronic stopping powers for fluorine ions in $^-$ -implanted KTN. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001, 280, 58-64.	0.9	3
357	Collisions of deuterium and tritium atoms with single-wall carbon nanotube: adsorption, encapsulation, and healing. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001, 288, 207-213.	0.9	11
358	Range distribution and electronic stopping powers for fluorine ions in $^-$ -implanted potassium titanyl phosphate and LiNbO_3 . <i>Nuclear Instruments & Methods in Physics Research B</i> , 2001, 174, 1-8.	0.6	7
359	Collision of hydrogen atom with single-walled carbon nanotube: Adsorption, insertion, and healing. <i>Journal of Chemical Physics</i> , 2001, 115, 8152-8156.	1.2	30
360	Low-energy interaction and adsorption of C_{60} on diamond surfaces. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2000, 168, 169-180.	0.6	4

#	ARTICLE	IF	CITATIONS
361	Efficient Helium and Helium Isotopes Separation by Phosphorus Carbide P ₂ C ₃ Membrane. Advanced Theory and Simulations, 0, , 2100327.	1.3	2
362	Tunable topological electronic states in the Honeycomb-kagome lattices of nitrogen/oxygen-doped graphene nanomeshes. Nanoscale Advances, 0, , .	2.2	1
363	Two-Dimensional Multiferroic $\hat{\Gamma}$ -PbO Monolayer with a Large In-Plane Negative Poisson's Ratio. ACS Applied Electronic Materials, 0, , .	2.0	3