

Mingwen Zhao

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6024678/mingwen-zhao-publications-by-year.pdf>

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

348
papers

10,633
citations

52
h-index

87
g-index

365
ext. papers

12,187
ext. citations

5.2
avg, IF

6.66
L-index

#	Paper	IF	Citations
348	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	9.4	6
347	Nanophysical Antimicrobial Strategies: A Rational Deployment of Nanomaterials and Physical Stimulations in Combating Bacterial Infections.. <i>Advanced Science</i> , 2022 , e2105252	13.6	4
346	Highly-anisotropic plasmons in two-dimensional hyperbolic copper borides.. <i>Optics Express</i> , 2022 , 30, 5596-5607	3.3	0
345	Ultrafine zirconium boride nanoparticles constructed bidirectional catalyst for ultrafast and long-lived lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2022 , 45, 130-141	19.4	6
344	Efficient anisotropic desalination by layer-stacked black phosphorus carbide (BP) membrane. <i>Desalination</i> , 2022 , 522, 115422	10.3	0
343	Sub-nanometer-sized carbon nanoparticle shows higher biocompatibility to DNA than nanometer-sized nanoparticles. <i>Journal Physics D: Applied Physics</i> , 2022 , 55, 295401	3	
342	Robust broadband directional plasmons in a MoOCl ₂ monolayer. <i>Physical Review B</i> , 2021 , 104,	3.3	1
341	Two-dimensional XC-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	3.6	
340	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	5	13
339	New Spiral Form of Carbon Nitride with Ultrasoftness and Tunable Electronic Structures. <i>ACS Omega</i> , 2021 , 6, 516-522	3.9	1
338	Defect-Induced Double-Stranded DNA Unwinding on Graphene. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 2833-2840	3.4	4
337	Monolayer FeGeX (X = S, Se, and Te) as Highly Efficient Electrocatalysts for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 11845-11851	9.5	8
336	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,	10.9	3
335	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	6.7	7
334	In-situ Nano-Crystallization and Solvation Modulation to Promote Highly Stable Anode Involving Alloy/De-alloy for Potassium Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 15381-15389	16.4	24
333	In-situ Nano-Crystallization and Solvation Modulation to Promote Highly Stable Anode Involving Alloy/De-alloy for Potassium Ion Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 15509-15517	3.6	2
332	Efficient isotropic water desalination in anisotropic lamellar nano-channels formed by layered black phosphorus membrane. <i>Desalination</i> , 2021 , 504, 114962	10.3	6

331	Frontispiece: In-situ Nano-Crystallization and Solvation Modulation to Promote Highly Stable Anode Involving Alloy/De-alloy for Potassium Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60,	16.4	1
330	Two-dimensional transition metal borides as highly efficient N ₂ fixation catalysts. <i>Applied Surface Science</i> , 2021 , 536, 147742	6.7	19
329	Anomalous plasmons in a two-dimensional Dirac nodal-line Lieb lattice. <i>Nanoscale Advances</i> , 2021 , 3, 1127-1135	5.1	2
328	Multi-functional photocatalytic activity of transition-metal tetraaza[14]annulene frameworks. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 4221-4229	13	3
327	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	13	6
326	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	7.7	9
325	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	5.1	7
324	Giant negative Poisson's ratio in two-dimensional V-shaped materials. <i>Nanoscale Advances</i> , 2021 , 3, 4554-4560	5.1	1
323	Floquet-Dirac fermions in monolayer graphene by Wannier functions. <i>Journal of Physics Condensed Matter</i> , 2021 ,	1.8	1
322	Prediction of intrinsic topological superconductivity in Mn-doped GeTe monolayer from first-principles. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	2
321	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	10	8
320	Stable multifunctional single-atom catalysts adsorbed on pyrazine-modified graphyne. <i>Applied Surface Science</i> , 2021 , 553, 149464	6.7	11
319	Highly Efficient Photocatalytic CO Reduction in Two-Dimensional Ferroelectric CuInPS Bilayers. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 34486-34494	9.5	11
318	Spin-Gapless States in Two-Dimensional Molecular Ferromagnet Fe(TCNQ). <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 7921-7927	6.4	0
317	Laser-driven anisotropic and nonlinear Rashba spin splitting in GaAs monolayer. <i>Physical Review B</i> , 2021 , 104,	3.3	1
316	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	6.7	6
315	Regulating polysulfide intermediates by ultrathin Co-Bi nanosheet electrocatalyst in lithium-sulfur batteries. <i>Nano Today</i> , 2021 , 40, 101246	17.9	15
314	Transition-metal monochalcogenide nanowires: highly efficient bi-functional catalysts for the oxygen evolution/reduction reactions. <i>Nanoscale</i> , 2020 , 12, 12883-12890	7.7	3

313	Ferroelectricity and multiferroicity in two-dimensional ScPSe and ScCrPSe monolayers. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 7489-7496	3.6	9
312	Synergistic trifunctional electrocatalysis of pyridinic nitrogen and single transition-metal atoms anchored on pyrazine-modified graphdiyne. <i>Science Bulletin</i> , 2020 , 65, 995-1002	10.6	16
311	Tunable Valley Polarization in a Multiferroic CuCrP ₂ Te ₆ Monolayer. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020 , 14, 2000008	2.5	4
310	Anisotropic protein diffusion on nanosurface. <i>Nanoscale</i> , 2020 , 12, 5209-5216	7.7	10
309	Multifunctional electrocatalytic activity of coronene-based two-dimensional metal-organic frameworks: TM-PTC. <i>Applied Surface Science</i> , 2020 , 511, 145393	6.7	10
308	Orientational DNA binding and directed transport on nanomaterial heterojunctions. <i>Nanoscale</i> , 2020 , 12, 5217-5226	7.7	16
307	High-efficiency helium separation through an inorganic graphenylene membrane: a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 9789-9795	3.6	14
306	Understanding CO capture kinetics and energetics by ionic liquids with molecular dynamics simulation.. <i>RSC Advances</i> , 2020 , 10, 13968-13974	3.7	6
305	Low-loss hyperbolic dispersion and anisotropic plasmonic excitation in nodal-line semimetallic yttrium nitride. <i>Optics Express</i> , 2020 , 28, 22076-22087	3.3	3
304	Inversion/Mirror Symmetry-Protected Dirac Cones in Distorted Ruby Lattices. <i>Chinese Physics Letters</i> , 2020 , 37, 127102	1.8	0
303	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	10.6	18
302	Metal-free highly efficient photocatalysts for overall water splitting: CN multilayers. <i>Nanoscale</i> , 2020 , 12, 306-315	7.7	24
301	Tunable ferroelectricity and antiferromagnetism via ferroelastic switching in an FeOOH monolayer. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 13982-13989	7.1	6
300	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	7.1	6
299	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	3.8	22
298	Serendipity for Topological Insulator as Multifunctional Electrocatalyst. <i>ACS Applied Energy Materials</i> , 2020 , 3, 8929-8936	6.1	0
297	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	3.6	2
296	Mild lipid extraction and anisotropic cell membrane penetration of π -phase phosphorene carbide nanoribbons by molecular dynamics simulation studies. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 23268-23275	3.6	6

295	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	5.1	4
294	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	6.7	6
293	Bifunctional HER/OER or OER/ORR Catalytic Activity of Two-Dimensional TM ₃ (HITP) ₂ with TM = Fe/Zn. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 9350-9359	3.8	32
292	Enhancing superconductivity in bulk Bi ₂ Pd by negative pressure induced by quantum electronic stress. <i>Physical Review B</i> , 2019 , 100,	3.3	2
291	Bifunctional Electrocatalytic Activity of Bis(iminothiolato)nickel Monolayer for Overall Water Splitting. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 25651-25656	3.8	11
290	Dirac cones in a snub trihexagonal tiling lattice with reflective symmetry breaking. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 155001	1.8	1
289	Valley polarization and ferroelectricity in a two-dimensional GaAsC monolayer. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 3954-3959	3.6	6
288	Intrinsic multiferroicity in two-dimensional VOCl monolayers. <i>Nanoscale</i> , 2019 , 11, 1103-1110	7.7	36
287	Porous-hollow nanorods constructed from alternate intercalation of carbon and MoS ₂ monolayers for lithium and sodium storage. <i>Nano Research</i> , 2019 , 12, 1912-1920	10	25
286	Tuning the electronic and magnetic properties of MoS nanotubes with vacancy defects.. <i>RSC Advances</i> , 2019 , 9, 17203-17210	3.7	7
285	Tungsten boride: a 2D multiple Dirac semimetal for the hydrogen evolution reaction. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 8868-8873	7.1	30
284	Hydrogen Confined in a Single Wall Carbon Nanotube Becomes a Metallic and Superconductive Nanowire under High Pressure. <i>Nano Letters</i> , 2019 , 19, 2537-2542	11.5	8
283	Two-dimensional graphyne-like carbon nitrides: Moderate band gaps, high carrier mobility, high flexibility and type-II band alignment. <i>Carbon</i> , 2019 , 149, 234-241	10.4	25
282	Strain-tunable CO storage by black phosphorene and β -PC from combined first principles and molecular dynamics studies. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 20107-20117	3.6	7
281	First-principles design of highly-efficient earth-abundant electrocatalysts for hydrogen evolution reaction: TiF ₃ and its analogs. <i>Applied Surface Science</i> , 2019 , 495, 143623	6.7	6
280	Spontaneous full photocatalytic water splitting on 2D MoSe/SnSe and WSe/SnSe vdW heterostructures. <i>Nanoscale</i> , 2019 , 11, 14836-14843	7.7	73
279	Reversible out-of-plane spin texture in a two-dimensional ferroelectric material for persistent spin helix. <i>Physical Review Materials</i> , 2019 , 3,	3.2	21
278	Hyperbolic dispersion and negative refraction in a metal-organic framework Cu-BHT. <i>Physical Review Materials</i> , 2019 , 3,	3.2	7

277	Tunable broadband hyperbolic light dispersion in metal diborides. <i>Optics Express</i> , 2019 , 27, 36911-36922,3	6	
276	Li-III-VI bilayers for efficient photocatalytic overall water splitting: the role of intrinsic electric field. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 26123-26130	13	18
275	Serendipity of a topological nontrivial band gap in the 2D borophene subunit lattice with broken mirror symmetry. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 22526-22530	3.6	1
274	Prediction of a flexible anode material for Li/Na ion batteries: Phosphorous carbide monolayer (PC). <i>Carbon</i> , 2019 , 141, 444-450	10.4	40
273	A Photoresponsive Rutile TiO Heterojunction with Enhanced Electron-Hole Separation for High-Performance Hydrogen Evolution. <i>Advanced Materials</i> , 2019 , 31, e1806596	24	137
272	Promotion of Overall Water Splitting Activity Over a Wide pH Range by Interfacial Electrical Effects of Metallic NiCo-nitrides Nanoparticle/NiCoO Nanoflake/graphite Fibers. <i>Advanced Science</i> , 2019 , 6, 1801829	13.6	78
271	An unprecedented high-temperature-tolerance 2D laminar MXene membrane for ultrafast hydrogen sieving. <i>Journal of Membrane Science</i> , 2019 , 569, 117-123	9.6	47
270	Strain-induced tunable negative differential resistance in triangle graphene spirals. <i>Nanotechnology</i> , 2018 , 29, 205202	3.4	3
269	Novel Conductive Metal-Organic Framework for a High-Performance Lithium-Sulfur Battery Host: 2D Cu-Benzenehexathial (BHT). <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15012-15020	9.5	71
268	Topological states in a two-dimensional metal alloy in Si surface: BiAg/Si(111)-4 \times 4 surface. <i>Physical Review B</i> , 2018 , 97,	3.3	7
267	Kane Fermion in a Two-Dimensional π -Conjugated Bis(iminothiolato)nickel Monolayer. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 614-619	6.4	14
266	Promising half-metallicity in ductile NbF: a first-principles prediction. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 4781-4786	3.6	6
265	ZrSi: an antiferromagnetic Dirac MXene. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 3946-3952	3.6	10
264	Two-Dimensional Metal-Organic Half-metallic Antiferromagnet: CoFePz. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 1846-1851	3.8	14
263	Negative Poisson's ratio and high-mobility transport anisotropy in SiC siligraphene. <i>Nanoscale</i> , 2018 , 10, 2108-2114	7.7	41
262	Silicene and germanene on InSe substrates: structures and tunable electronic properties. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 11369-11377	3.6	32
261	Direct Z-scheme photocatalytic overall water splitting on 2D CdS/InSe heterostructures. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 395501	3	30
260	Valley-selective circular dichroism and high carrier mobility of graphene-like BCN. <i>Nanoscale</i> , 2018 , 10, 13179-13186	7.7	22

259	PNTCDA: a promising versatile organic electrode material for alkali-metal ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24869-24876	13	6
258	Theoretical Design of an InSe/GaTe vdW Heterobilayer: A Potential Visible-Light Photocatalyst for Water Splitting. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 27803-27810	3.8	32
257	Conductive and Polar Titanium Boride as a Sulfur Host for Advanced Lithium-Sulfur Batteries. <i>Chemistry of Materials</i> , 2018 , 30, 6969-6977	9.6	75
256	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,	3.3	13
255	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	6.7	83
254	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	1.8	4
253	Predicting a graphene-like WB 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	3.6	28
252	Ultrabroadband MoS Photodetector with Spectral Response from 445 to 2717 nm. <i>Advanced Materials</i> , 2017 , 29, 1605972	24	166
251	Strain-Modulated Electronic Structure and Infrared Light Adsorption in Palladium Diselenide Monolayer. <i>Scientific Reports</i> , 2017 , 7, 39995	4.9	31
250	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	10	12
249	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	6.3	55
248	Efficient hydrogen isotopologues separation through a tunable potential barrier: The case of a CN membrane. <i>Scientific Reports</i> , 2017 , 7, 1483	4.9	14
247	Dirac node lines in two-dimensional Lieb lattices. <i>Nanoscale</i> , 2017 , 9, 8740-8746	7.7	27
246	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	13	25
245	A niobium and tantalum co-doped perovskite cathode for solid oxide fuel cells operating below 500 °C. <i>Nature Communications</i> , 2017 , 8, 13990	17.4	144
244	Low-energy transmission electron diffraction and imaging of large-area graphene. <i>Science Advances</i> , 2017 , 3, e1603231	14.3	18
243	Half-metallic TiF ₃ : a potential anode material for Li-ion spin batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 21486-21490	13	13
242	Theoretical Discovery of a Superconducting Two-Dimensional Metal-Organic Framework. <i>Nano Letters</i> , 2017 , 17, 6166-6170	11.5	56

241	Efficient He/He separation in a nanoporous graphenylene membrane. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 21522-21526	3.6	9
240	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	3.8	14
239	Metal-free Ternary BCN Nanosheets with Synergetic Effect of Band Gap Engineering and Magnetic Properties. <i>Scientific Reports</i> , 2017 , 7, 6617	4.9	26
238	Chern Insulator and Chern Half-Metal States in the Two-Dimensional Spin-Gapless Semiconductor MnCS. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3770-3775	6.4	24
237	A promising alkali-metal ion battery anode material: 2D metallic phosphorus carbide (0-PC). <i>Electrochimica Acta</i> , 2017 , 258, 582-590	6.7	26
236	Tunable Dirac cones in two-dimensional covalent organic materials: C ₂ N ₆ S ₃ and its analogs. <i>RSC Advances</i> , 2017 , 7, 52065-52070	3.7	6
235	Dirac cones and highly anisotropic electronic structure of super-graphyne. <i>Carbon</i> , 2017 , 113, 40-45	10.4	23
234	Tunable topological states in electron-doped HTT-Pt. <i>Physical Review B</i> , 2016 , 93,	3.3	32
233	Electron spin-polarization and spin-gapless states in an oxidized carbon nitride monolayer. <i>RSC Advances</i> , 2016 , 6, 108280-108285	3.7	
232	Highly Efficient Quantum Sieving in Porous Graphene-like Carbon Nitride for Light Isotopes Separation. <i>Scientific Reports</i> , 2016 , 6, 19952	4.9	39
231	Spin-polarized Dirac cones and topological nontriviality in a metal-organic framework Ni ₂ C ₂₄ S ₆ H ₁₂ . <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 8059-64	3.6	38
230	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	3.8	29
229	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	2.3	2
228	Energetics of carbon and nitrogen impurities and their interactions with vacancy in vanadium. <i>Chinese Physics B</i> , 2016 , 25, 036104	1.2	5
227	Tunable C ₂ N Membrane for High Efficient Water Desalination. <i>Scientific Reports</i> , 2016 , 6, 29218	4.9	53
226	Intrinsic current-voltage characteristics of metal-carbon nanotube networks: A first-principles study. <i>Organic Electronics</i> , 2016 , 31, 278-286	3.5	3
225	Prediction of an ultrasoft graphene allotrope with Dirac cones. <i>Carbon</i> , 2016 , 105, 323-329	10.4	42
224	Germanium sulfide nanosheet: a universal anode material for alkali metal ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8905-8912	13	139

223	Band inversion and topological aspects in a TiNI monolayer. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 22154-9	3.6	17
222	Kinetics of Nonlinear Optical Response at InsulatorMetal Transition in Vanadium Dioxide. <i>Advanced Optical Materials</i> , 2015 , 3, 64-70	8.1	6
221	High activity and durability of novel perovskite electrocatalysts for water oxidation. <i>Materials Horizons</i> , 2015 , 2, 495-501	14.4	119
220	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	3	
219	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	17.1	125
218	Prediction of quantum anomalous Hall effect on graphene nanomesh. <i>RSC Advances</i> , 2015 , 5, 9875-9880	3.7	24
217	Driving a GaAs film to a large-gap topological insulator by tensile strain. <i>Scientific Reports</i> , 2015 , 5, 8441	4.9	50
216	Electron spin-polarization and band gap engineering in carbon-modified graphitic carbon nitrides. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 10886-10891	7.1	12
215	Prediction of a large-gap quantum-spin-Hall insulator: Diamond-like GaBi bilayer. <i>Nano Research</i> , 2015 , 8, 3823-3829	10	9
214	Hydrogenation-induced large-gap quantum-spin-Hall insulator states in a germaniumIn dumbbell structure. <i>RSC Advances</i> , 2015 , 5, 72462-72468	3.7	12
213	Phagraphene: A Low-Energy Graphene Allotrope Composed of 5-6-7 Carbon Rings with Distorted Dirac Cones. <i>Nano Letters</i> , 2015 , 15, 6182-6	11.5	325
212	Efficient helium separation of graphitic carbon nitride membrane. <i>Carbon</i> , 2015 , 95, 51-57	10.4	88
211	Large-Scale Synthesis of Few-Layer F-BN Nanocages with Zigzag-Edge Triangular Antidot Defects and Investigation of the Advanced Ferromagnetism. <i>Nano Letters</i> , 2015 , 15, 8122-8	11.5	26
210	Spin-gapless semiconducting graphitic carbon nitrides: A theoretical design from first principles. <i>Carbon</i> , 2015 , 84, 1-8	10.4	61
209	From UV to near-infrared, WS ₂ nanosheet: a novel photocatalyst for full solar light spectrum photodegradation. <i>Advanced Materials</i> , 2015 , 27, 363-9	24	402
208	Strain-driven band inversion and topological aspects in Antimonene. <i>Scientific Reports</i> , 2015 , 5, 16108	4.9	166
207	Robust half-metallicity and topological aspects in two-dimensional Cu-TPyB. <i>Scientific Reports</i> , 2015 , 5, 14098	4.9	24
206	Chemical WeatheringExfoliation of Atom-Thick Transition Metal Dichalcogenides and Their Ultrafast Saturable Absorption Properties. <i>Advanced Functional Materials</i> , 2015 , 25, 5292-5299	15.6	60

205	High hydrogen storage capacity in calcium-decorated silicene nanostructures. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 2072-2078	1.3	9
204	Dumbbell stanane: a large-gap quantum spin hall insulator. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 16624-9	3.6	24
203	Intrinsic half-metallicity in fractal carbon nitride honeycomb lattices. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 21837-44	3.6	14
202	Role of edge dehydrogenation in magnetization and spin transport of zigzag graphene nanoribbons with line defects. <i>Organic Electronics</i> , 2015 , 27, 212-220	3.5	4
201	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	13	43
200	Tensile strain induced half-metallicity in graphene-like carbon nitride. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 6028-35	3.6	31
199	Giant topological nontrivial band gaps in chloridized gallium bismuthide. <i>Nano Letters</i> , 2015 , 15, 1296-3011.5	11.5	81
198	Strain-induced phase transition and electron spin-polarization in graphene spirals. <i>Scientific Reports</i> , 2014 , 4, 5699	4.9	11
197	The stability and electronic structure of Fe atoms embedded in zigzag graphene nanoribbons. <i>Physica B: Condensed Matter</i> , 2014 , 441, 28-32	2.8	5
196	A metallic carbon allotrope with superhardness: a first-principles prediction. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 2751-2757	7.1	36
195	Theoretical characterization of layered silica nanostructures from first-principles prediction. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014 , 378, 3348-3353	2.3	8
194	Electron spin-polarization and spin lattices in the boron- and nitrogen-doped organic framework COF-5. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 23286-91	3.6	14
193	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	3.8	67
192	Two-dimensional topological insulators with binary honeycomb lattices: SiC ₃ siligraphene and its analogs. <i>Physical Review B</i> , 2014 , 89,	3.3	65
191	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	1.1	13
190	Topological insulator states in a honeycomb lattice of s-triazines. <i>Nanoscale</i> , 2014 , 6, 11157-62	7.7	65
189	SiC coating: An alternative for the protection of nuclear graphite from liquid fluoride salt. <i>Journal of Nuclear Materials</i> , 2014 , 448, 1-3	3.3	43
188	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	3	1

187	Graphyne-based carbon allotropes with tunable properties: From Dirac fermion to semiconductor. <i>Diamond and Related Materials</i> , 2014 , 41, 65-72	3.5	28
186	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	3	9
185	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	3	21
184	Characterization of the effects of 3-MeV proton irradiation on fine-grained isotropic nuclear graphite. <i>Carbon</i> , 2014 , 77, 311-318	10.4	23
183	Spin memristive magnetic tunnel junctions with CoO-ZnO nano composite barrier. <i>Scientific Reports</i> , 2014 , 4, 3835	4.9	18
182	One-Step Exfoliation and Fluorination of Boron Nitride Nanosheets and a Study of Their Magnetic Properties. <i>Angewandte Chemie</i> , 2014 , 126, 3719-3723	3.6	29
181	Self-Organized Micro-Columns and Nano-Spheres Generated by Pulsed Laser Ablation of Ti/Al Alloy in Water. <i>Chinese Physics Letters</i> , 2014 , 31, 015202	1.8	1
180	Stoichiometry determined exchange interactions in amorphous ternary transition metal oxides: Theory and experiment. <i>Journal of Applied Physics</i> , 2014 , 116, 043711	2.5	1
179	Lattice match and lattice mismatch models of graphene on hexagonal boron nitride from first principles. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 095002	1.8	15
178	Manifold electronic structure transition of hybrid silicane/graphene nanoribbons. <i>Chemical Physics Letters</i> , 2014 , 595-596, 20-24	2.5	9
177	Direct characterization of ion implanted pyrolytic carbon coatings deposited from natural gas. <i>Carbon</i> , 2014 , 68, 95-103	10.4	14
176	One-step exfoliation and fluorination of boron nitride nanosheets and a study of their magnetic properties. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 3645-9	16.4	105
175	Broadband few-layer MoS ₂ saturable absorbers. <i>Advanced Materials</i> , 2014 , 26, 3538-44	24	551
174	First-principles prediction of the transition from graphdiyne to a superlattice of carbon nanotubes and graphene nanoribbons. <i>Carbon</i> , 2013 , 65, 341-348	10.4	49
173	Protection of nuclear graphite toward liquid fluoride salt by isotropic pyrolytic carbon coating. <i>Journal of Nuclear Materials</i> , 2013 , 442, 306-308	3.3	21
172	Stable ferromagnetism and half-metallicity in two-dimensional polyporphyrin frameworks. <i>RSC Advances</i> , 2013 , 3, 7016	3.7	36
171	First-principles prediction of a new Dirac-fermion material: silicon germanide monolayer. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 395501	1.8	23
170	First-principles identifications of superstructures of germanene on Ag(111) surface and h-BN substrate. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 16853-63	3.6	49

169	Three-dimensional diffusion of molecular hydrogen in graphdiyne: a first-principles study. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 495307	3	16
168	Irradiation-induced magnetic ordering in SiC: Experimental results and a density functional study. <i>Applied Physics Letters</i> , 2013 , 103, 262409	3-4	12
167	Tuning the electronic and magnetic properties of triangular boron nitride quantum dots via carbon doping. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013 , 49, 52-60	3	12
166	Spin-polarization and ferromagnetism of graphitic carbon nitride materials. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 6265	7-1	71
165	Half-metallicity of a kagome spin lattice: the case of a manganese bis-dithiolene monolayer. <i>Nanoscale</i> , 2013 , 5, 10404-8	7-7	72
164	A highly active perovskite electrode for the oxygen reduction reaction below 600 °C. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 14036-40	16.4	123
163	Two-dimensional carbon topological insulators superior to graphene. <i>Scientific Reports</i> , 2013 , 3, 3532	4-9	121
162	Role of acetylenic bonds in the mechanical, electronic and optical properties of yne-diamonds. <i>Diamond and Related Materials</i> , 2013 , 37, 55-63	3-5	9
161	Spin-polarized zero-energy states in BN/C core-shell quantum dots. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013 , 377, 1102-1108	2-3	9
160	Exfoliation of hexagonal boron nitride by molten hydroxides. <i>Advanced Materials</i> , 2013 , 25, 2200-4	24	218
159	Magnetic and optical properties of Cu-doped ZnO nanosheet: First-principles calculations. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013 , 53, 101-105	3	33
158	Can cation vacancy defects induce room temperature ferromagnetism in GaN?. <i>Applied Physics Letters</i> , 2013 , 102, 062411	3-4	27
157	Moiré Superstructures of silicene on hexagonal boron nitride: A first-principles study. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013 , 377, 2628-2632	2-3	48
156	Graphdiyne: A promising anode material for lithium ion batteries with high capacity and rate capability. <i>Journal of Applied Physics</i> , 2013 , 113, 044309	2-5	108
155	Formation and annealing behaviors of qubit centers in 4H-SiC from first principles. <i>Journal of Applied Physics</i> , 2013 , 114, 194305	2-5	16
154	A Highly Active Perovskite Electrode for the Oxygen Reduction Reaction Below 600 °C. <i>Angewandte Chemie</i> , 2013 , 125, 14286-14290	3-6	13
153	The mechanism of effect of lens-to-sample distance on laser-induced plasma. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2013 , 62, 025203	0-6	7
152	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	0-3	4

151	Tunable Hydrogen Separation in sp ² Hybridized Carbon Membranes: A First-Principles Prediction. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 16634-16638	3.8	113
150	Isoelectronic doping of graphdiyne with boron and nitrogen: stable configurations and band gap modification. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 3934-9	2.8	115
149	First-principles study of hydrogenated graphyne and its family: Stable configurations and electronic structures. <i>Diamond and Related Materials</i> , 2012 , 29, 42-47	3.5	56
148	Zinc oxide micro-spheres with faceted surfaces produced by laser ablation of zinc targets. <i>Journal of Applied Physics</i> , 2012 , 111, 103108	2.5	9
147	Hybrid density functional study of band alignment in ZnO-GaN and ZnO-(Ga(1-x)Zn(x))(N(1-x)O(x))-GaN heterostructures. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 15693-8	3.6	39
146	Ultra-high hydrogen storage capacity of Li-decorated graphyne: A first-principles prediction. <i>Journal of Applied Physics</i> , 2012 , 112, 084305	2.5	51
145	First-principles study of electronic structure and magnetic properties of Cu-doped CeO ₂ . <i>Journal of Applied Physics</i> , 2012 , 112, 083702	2.5	4
144	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	1.5	2
143	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	1.6	1
142	The roles of π electrons in the electronic structures and optical properties of graphyne. <i>Science Bulletin</i> , 2012 , 57, 3080-3085		14
141	Adsorption and diffusion of gold adatoms on boron nitride nanoribbons: A first-principles study. <i>Journal of Applied Physics</i> , 2012 , 112, 104305	2.5	4
140	Spin-polarization of VGaON center in GaN and its application in spin qubit. <i>Applied Physics Letters</i> , 2012 , 100, 192401	3.4	22
139	Is yne-diamond a super-hard material?. <i>Europhysics Letters</i> , 2012 , 100, 56003	1.6	17
138	Role of lens to sample distance during laser-induced damage in zinc targets. <i>Laser Physics Letters</i> , 2012 , 9, 730-733	1.5	14
137	Characterization of regular periodic surface structure by multi-pulse laser irradiation of a Zinc target. <i>Chinese Optics Letters</i> , 2012 , 10, 051402-51404	2.2	5
136	First-principles characterization of an ALSIVC center in cubic silicon carbide. <i>Journal of Applied Physics</i> , 2011 , 110, 033711	2.5	7
135	Tunable electronic structures of graphene/boron nitride heterobilayers. <i>Applied Physics Letters</i> , 2011 , 98, 083103	3.4	188
134	Localized defects closely related with the magnetism of graphite induced by 12C ⁺ ion implantation. <i>Journal of Applied Physics</i> , 2011 , 109, 083933	2.5	3

133	Investigating the ferromagnetic exchange interaction in Co-doped ZnO magnetic semiconductors. <i>Scripta Materialia</i> , 2011 , 64, 864-867	5.6	4
132	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	3.8	201
131	An ab initio study on gas sensing properties of graphene and Si-doped graphene. <i>European Physical Journal B</i> , 2011 , 81, 475-479	1.2	117
130	Effect of native defects and Co doping on ferromagnetism in HfO ₂ : first-principles calculations. <i>Journal of Computational Chemistry</i> , 2011 , 32, 1298-302	3.5	4
129	Honeycomb-Patterned Quantum Dots beyond Graphene. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 17743-17749	3.8	17749
128	Enhancing the ferromagnetization of graphite by successive 12C+ ion implantation steps. <i>Carbon</i> , 2011 , 49, 1931-1938	10.4	17
127	Structural and electronic properties of ZnS/ZnO heteronanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011 , 43, 1522-1527	3	6
126	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	2.3	13
125	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	3	16
124	Manifold electronic structure transition of BNC biribbons. <i>Journal of Applied Physics</i> , 2011 , 110, 034314	2.5	28
123	Size-dependent structural and electronic properties of ZnS nanofilms: An ab initio study. <i>Journal of Applied Physics</i> , 2010 , 108, 064317	2.5	13
122	Tuning Bandgap of Si-C Heterofullerene-Based Nanotubes by H Adsorption. <i>Chinese Physics Letters</i> , 2010 , 27, 097101	1.8	
121	Energetic Evolution of Single-Crystalline ZnO Nanowires and Nanotubes. <i>Chinese Physics Letters</i> , 2010 , 27, 086105	1.8	3
120	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	1.8	1
119	Tunable rectification and giant positive magnetoresistance in Ge _{1-x} Mnx/Ge epitaxial heterojunction diodes. <i>Journal of Applied Physics</i> , 2010 , 107, 024514	2.5	7
118	Ferromagnetic ordering of silicon vacancies in N-doped silicon carbide. <i>Applied Physics Letters</i> , 2010 , 96, 012508	3.4	42
117	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	2.5	18
116	Vacancy-defect-derived magnetism in titanium oxide nanosheet: A first-principles study. <i>Europhysics Letters</i> , 2010 , 90, 66005	1.6	4

115	Orientation-selective unzipping of carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 13674-13680	3.4	17
114	Natural charge spatial separation and quantum confinement of ZnO/GaN-core/shell nanowires. <i>Journal of Applied Physics</i> , 2010 , 108, 123707	2.5	11
113	First-Principles Study of Titania Nanoribbons: Formation, Energetics, and Electronic Properties. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 9234-9238	3.8	15
112	Controllable spin-polarized electrical transport in wide-band-gap oxide ferromagnetic semiconductors. <i>Journal of Applied Physics</i> , 2010 , 107, 033713	2.5	8
111	First-principles prediction of the negatively-charged nitrogen-silicon-vacancy center in cubic silicon carbide. <i>Journal of Applied Physics</i> , 2010 , 108, 043917	2.5	13
110	Diffusion and coalescence of vacancies and interstitials in graphite: A first-principles study. <i>Diamond and Related Materials</i> , 2010 , 19, 1240-1244	3.5	63
109	Rhodium atoms confined in boron nitride nanotubes: Density functional calculations. <i>Europhysics Letters</i> , 2010 , 90, 47003	1.6	2
108	Electronic properties of BN/C nanotube heterostructures. <i>Journal of Applied Physics</i> , 2010 , 107, 094304	2.5	30
107	Hydrogen saturation stabilizes vacancy-induced ferromagnetic ordering in graphene. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 13699-706	3.6	29
106	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	1.2	8
105	Neutral vacancy-defect-induced magnetism in SiC monolayer. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 2451-2454	3	24
104	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	3	51
103	Atomic-scale characterization of silicon diffusion on carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 43, 610-613	3	2
102	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	2.8	16
101	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	1.2	2
100	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	2.4	15
99	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	2.3	1
98	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	3	4

97	A new calculation on the stopping power and mean free path for low energy electrons in toluene over energy range of 20-10000 eV. <i>Applied Radiation and Isotopes</i> , 2009 , 67, 625-9	1.7	11
96	Correlation between the vacancy defects and ferromagnetism in graphite. <i>Carbon</i> , 2009 , 47, 1399-1406	10.4	85
95	Orientation-Dependent Stability and Quantum-Confinement Effects of Silicon Carbide Nanowires. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 12731-12735	3.8	27
94	Early-stage evolution of the plasma over KTiOPO ₄ samples generated by high-intensity laser radiations. <i>Optics Letters</i> , 2009 , 34, 2682-4	3	10
93	Energetic Minimum Structures of Imogolite Nanotubes: A First-Principles Prediction. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 14834-14837	3.8	25
92	Layered Titanium Oxide Nanosheet and Ultrathin Nanotubes: A First-Principles Prediction. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13610-13615	3.8	39
91	Covalent-adsorption induced magnetism in graphene. <i>Journal of Materials Chemistry</i> , 2009 , 19, 9274		56
90	First-Principles Study of Faceted Single-Crystalline Silicon Carbide Nanowires and Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 856-861	3.8	16
89	First-principles study of ZnS nanostructures: nanotubes, nanowires and nanosheets. <i>Nanotechnology</i> , 2008 , 19, 305708	3.4	33
88	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	3.8	33
87	From pure C(60) to silicon carbon fullerene-based nanotube: an ab initio study. <i>Journal of Chemical Physics</i> , 2008 , 128, 154719	3.9	10
86	Ab Initio Calculations on the Magnetic Properties of Hydrogenated Boron Nitride Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 16231-16235	3.8	22
85	The electronic structure evolution of DNA during its conformation transition process. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 5077-82	3.6	2
84	Theoretical Models of Silica Nanorings: First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 17071-17075	3.8	3
83	First-principles study of Co-doped single-walled silicon nanotubes. <i>Nanotechnology</i> , 2008 , 19, 205707	3.4	8
82	The electronic structure of a single-walled aluminosilicate nanotube. <i>Nanotechnology</i> , 2008 , 19, 175702	3.4	15
81	Fluorination-induced magnetism in boron nitride nanotubes from ab initio calculations. <i>Applied Physics Letters</i> , 2008 , 92, 102515	3.4	48
80	Analysis of plasma profile over KTiOAsO ₄ surface produced by 532 and 1064 nm laser radiations. <i>Journal of Applied Physics</i> , 2008 , 104, 123303	2.5	3

79	Tunable Magnetism in Carbon-Ion-Implanted Highly Oriented Pyrolytic Graphite. <i>Advanced Materials</i> , 2008 , 20, 4679-4683	24	95
78	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	2.3	8
77	Theoretical models of ZnS nanoclusters and nanotubes: First-principles calculations. <i>Solid State Communications</i> , 2008 , 147, 165-168	1.6	20
76	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	1.2	10
75	Geometric and Electronic Structures of Hydrogen-Stabilized Silicon Nitride Nanosheets and Nanotubes. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 16840-16845	3.8	9
74	First-Principles Design of Well-Ordered Silica Nanotubes from Silica Monolayers and Nanorings. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 9652-9657	3.8	9
73	From a fullerene-like cage (SiC) ₁₂ to novel silicon carbide nanowires: An ab initio study. <i>Chemical Physics Letters</i> , 2007 , 442, 384-389	2.5	12
72	Design and energetic characterization of ZnO clusters from first-principles calculations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007 , 372, 39-43	2.3	51
71	Theoretical study of the π H reaction with cytosine. <i>International Journal of Quantum Chemistry</i> , 2007 , 107, 240-246	2.1	3
70	Theoretical prediction for the (AlN) ₁₂ fullerene-like cage-based nanomaterials. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 346228	1.8	15
69	Surface structures and electronic states of silicon nanotubes stabilized by oxygen atoms. <i>Journal of Applied Physics</i> , 2007 , 102, 024313	2.5	5
68	Faceted Silicon Nanotubes: Structure, Energetic, and Passivation Effects. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 1234-1238	3.8	31
67	Stabilizing Zigzag Single-Walled Silicon Nanotubes and Tailoring the Electronic Structures by Oxygen Atoms: First-Principles Studies. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 2942-2946	3.8	8
66	Silver-filled single-walled carbon nanotubes: Atomic and electronic structures from first-principles calculations. <i>Physical Review B</i> , 2006 , 74,	3.3	13
65	First-principles LDA+U calculations of the Co-doped ZnO magnetic semiconductor. <i>Physical Review B</i> , 2006 , 73,	3.3	75
64	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	3.9	26
63	Structural characterization of fully coordinated ultrathin silica nanotubes by first-principles calculations. <i>Physical Review B</i> , 2006 , 73,	3.3	20
62	First-principles calculations of AlN nanowires and nanotubes: atomic structures, energetics, and surface states. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 8764-8	3.4	70

61	Theoretical study of hydrogen atom adsorbed on carbon-doped BN nanotubes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 357, 369-373	2.3	52
60	Functionalization of silicon-doped single walled carbon nanotubes at the doping site: An ab initio study. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 358, 166-170	2.3	11
59	Proton stopping power in a group of bioorganic compounds over the energy range of 0.05–10 MeV. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 248, 1-6	1.2	28
58	Electron stopping power and inelastic mean free path in amino acids and protein over the energy range of 20-20,000 eV. <i>Radiation and Environmental Biophysics</i> , 2006 , 45, 135-43	2	23
57	The effect of salt concentration on DNA conformation transition: a molecular-dynamics study. <i>Journal of Molecular Modeling</i> , 2006 , 12, 249-54	2	11
56	Distribution patterns and controllable transport of water inside and outside charged single-walled carbon nanotubes. <i>Journal of Chemical Physics</i> , 2005 , 122, 84708	3.9	44
55	Strain energy and electronic structures of silicon carbide nanotubes: Density functional calculations. <i>Physical Review B</i> , 2005 , 71,	3.3	224
54	Enhancement of hydrogen physisorption on single-walled carbon nanotubes resulting from defects created by carbon bombardment. <i>Physical Review B</i> , 2005 , 71,	3.3	17
53	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	2.5	32
52	Monte-Carlo simulation of low-energy electron scattering in PMMA using stopping powers from dielectric formalism. <i>Microelectronic Engineering</i> , 2005 , 77, 285-291	2.5	17
51	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	2.3	39
50	Theoretical study of the OH reaction with cytosine. <i>Computational and Theoretical Chemistry</i> , 2005 , 723, 123-129		28
49	Ab initio study of base-functionalized single walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2005 , 415, 183-187	2.5	21
48	Monte Carlo simulation of interactions between energetic electron and cellulose film. <i>Applied Surface Science</i> , 2005 , 246, 117-125	6.7	1
47	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	2.6	1
46	Reactions of ·OH with thymine studied using density functional theory. <i>International Journal of Quantum Chemistry</i> , 2005 , 101, 211-218	2.1	25
45	Self-assembly of base-functionalized carbon nanotubes. <i>Physical Review B</i> , 2005 , 72,	3.3	7
44	Manipulating the electronic structures of silicon carbide nanotubes by selected hydrogenation. <i>Journal of Chemical Physics</i> , 2005 , 122, 214707	3.9	68

43	Diffusion and condensation of lithium atoms in single-walled carbon nanotubes. <i>Physical Review B</i> , 2005 , 71,	3.3	61
42	Electron stopping power and mean free path in organic compounds over the energy range of 2000,000 eV. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004 , 222, 27-43	1.2	68
41	Cross sections of electron inelastic interactions in DNA. <i>Radiation and Environmental Biophysics</i> , 2004 , 43, 173-82	2	27
40	A scheme for the economical use of numerical basis sets in calculations with SIESTA. <i>Theoretical Chemistry Accounts</i> , 2004 , 112, 158	1.9	21
39	Ambient gas effects on high-power Nd:YAG laser ablation of SnO ₂ :Sb transparent conducting thin film. <i>Optics and Lasers in Engineering</i> , 2004 , 41, 537-544	4.6	7
38	Electronic stopping powers for fluorine ions in -implanted potassium titanyl arsenate. <i>Applied Surface Science</i> , 2004 , 228, 77-83	6.7	1
37	Strain energy and thermal stability of single-walled aluminum nitride nanotubes from first-principles calculations. <i>Chemical Physics Letters</i> , 2004 , 389, 160-164	2.5	60
36	Stable and extendable cage containing nanosize silica clusters based on three-membered rings. <i>Physical Review B</i> , 2004 , 69,	3.3	28
35	Chemical Reactivity of Single-Walled Carbon Nanotubes to Amidogen from Density Functional Calculations. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 9599-9603	3.4	32
34	Recombination and Exchange Reactions of Hydrogen and Dihydrogen Molecular Condensation in Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 4711-4715	3.4	5
33	Stable tetrahedral structure of the silica cluster (SiO ₂) ₁₀ . <i>Physical Review B</i> , 2004 , 70,	3.3	14
32	Two- and Three-Membered-Ring Hybrid Structures of Silica Nanoclusters. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 18451-18454	3.4	21
31	Selectable functionalization of single-walled carbon nanotubes resulting from CH _n (n=1B) adsorption. <i>Physical Review B</i> , 2004 , 69,	3.3	22
30	Silicon monoxide clusters: the favorable precursors for forming silicon nanostructures. <i>Physical Review Letters</i> , 2004 , 93, 095503	7.4	51
29	Emission properties of laser ablation of SnO ₂ : Sb transparent conducting film and KTiOPO ₄ crystal. <i>Optics and Laser Technology</i> , 2003 , 35, 475-480	4.2	2
28	Investigation of intermixing induced by sputtering and annealing in multiple quantum well. <i>Applied Surface Science</i> , 2003 , 205, 182-187	6.7	
27	Study of the plasma produced from laser ablation of a KTP crystal. <i>Applied Surface Science</i> , 2003 , 207, 227-235	6.7	24
26	Influence of annealing condition on photoluminescence characteristics of AlGaAs/GaAs multiple quantum well. <i>Materials Letters</i> , 2003 , 57, 2932-2935	3.3	9

25	Stability and electronic structure of AlN nanotubes. <i>Physical Review B</i> , 2003 , 68,	3.3	133
24	Plasma properties of a laser-ablated aluminum target in air. <i>Laser and Particle Beams</i> , 2003 , 21, 97-101	0.9	31
23	Condensation and phase transition of hydrogen molecules confined in single-walled carbon nanotubes. <i>Physical Review B</i> , 2003 , 67,	3.3	17
22	First-principles calculations for nitrogen-containing single-walled carbon nanotubes. <i>Journal of Applied Physics</i> , 2003 , 94, 2398-2402	2.5	88
21	Electronic stopping powers for fluorine ions in ¹⁹ F+-implanted tin-oxide films prepared by APCVD. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002 , 187, 431-436	1.2	3
20	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	1.2	
19	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	3.1	
18	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	2.3	6
17	Structures of hydrogen molecules in single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2002 , 357, 97-102	2.5	22
16	The importance of electronic exchange-correlation in non-self-consistent frozen density approximation. <i>Chemical Physics Letters</i> , 2002 , 360, 436-442	2.5	2
15	Exohedral and endohedral adsorption of nitrogen on the sidewall of single-walled carbon nanotubes. <i>Physical Review B</i> , 2002 , 66,	3.3	43
14	Hydrogen storage capacity in single-walled carbon nanotubes. <i>Physical Review B</i> , 2002 , 65,	3.3	25
13	Tensile strength of single-walled carbon nanotubes with defects under hydrostatic pressure. <i>Physical Review B</i> , 2002 , 65,	3.3	38
12	Chemical adsorption of C ₆₀ on diamond (100)(2 \times 1) surfaces. <i>Applied Physics A: Materials Science and Processing</i> , 2001 , 73, 365-369	2.6	1
11	Depth profiles and electronic stopping powers for fluorine ions in ¹⁹ F+-implanted KTN. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001 , 280, 58-64	2.3	3
10	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	2.3	11
9	Range distribution and electronic stopping powers for fluorine ions in ¹⁹ F+-implanted potassium titanyl phosphate and LiNbO ₃ . <i>Nuclear Instruments & Methods in Physics Research B</i> , 2001 , 174, 1-8	1.2	7
8	Collision of hydrogen atom with single-walled carbon nanotube: Adsorption, insertion, and healing. <i>Journal of Chemical Physics</i> , 2001 , 115, 8152-8156	3.9	30

7	Effective hydrogen storage in single-wall carbon nanotubes. <i>Physical Review B</i> , 2001 , 63,	3.3	89
6	Low-energy interaction and adsorption of C60 on diamond surfaces. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2000 , 168, 169-180	1.2	3
5	Efficient Helium and Helium Isotopes Separation by Phosphorus Carbide P ₂ C ₃ Membrane. <i>Advanced Theory and Simulations</i> , 2100327	3.5	0
4	The role of sp ² -hybridized boron atoms in the highly efficient photocatalytic N ₂ reduction activity of boron-doped triphenylene-graphdiyne. <i>Journal of Materials Chemistry A</i> ,	13	4
3	Self-assembly of ultra-small-sized carbon nanoparticles in lipid membrane disrupts its integrity. <i>Nanoscale Advances</i> ,	5.1	1
2	Spontaneous DNA translocation through a van der Waals heterostructure nanopore for single-molecule detection. <i>Nanoscale Advances</i> ,	5.1	4
1	Manipulating Electrocatalytic Polysulfide Redox Kinetics by 1D Core-shell Like Composite for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2103915	21.8	10