

Weitao Zheng

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408
papers

14,434
citations

63
h-index

99
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429
ext. papers

16,975
ext. citations

6.7
avg, IF

6.96
L-index

#	Paper	IF	Citations
408	Light scattering and surface plasmons on small spherical particles. <i>Light: Science and Applications</i> , 2014 , 3, e179-e179	16.7	347
407	Polymer-Passivated Inorganic Cesium Lead Mixed-Halide Perovskites for Stable and Efficient Solar Cells with High Open-Circuit Voltage over 1.3 V. <i>Advanced Materials</i> , 2018 , 30, 1705393	24	328
406	Adsorption and diffusion of Li on pristine and defective graphene. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 2432-8	9.5	300
405	Towards High-Safe Lithium Metal Anodes: Suppressing Lithium Dendrites via Tuning Surface Energy. <i>Advanced Science</i> , 2017 , 4, 1600168	13.6	298
404	Formation Mechanism of β Phase in PVDF/CNT Composite Prepared by the Sonication Method. <i>Macromolecules</i> , 2009 , 42, 8870-8874	5.5	266
403	Trifluoroacetate induced small-grained CsPbBr perovskite films result in efficient and stable light-emitting devices. <i>Nature Communications</i> , 2019 , 10, 665	17.4	227
402	Global structural optimization of tungsten borides. <i>Physical Review Letters</i> , 2013 , 110, 136403	7.4	216
401	Single-atom cobalt array bound to distorted 1T MoS with ensemble effect for hydrogen evolution catalysis. <i>Nature Communications</i> , 2019 , 10, 5231	17.4	204
400	Atomic-level energy storage mechanism of cobalt hydroxide electrode for pseudocapacitors. <i>Nature Communications</i> , 2017 , 8, 15194	17.4	186
399	Spontaneous Silver Doping and Surface Passivation of CsPbI Perovskite Active Layer Enable Light-Emitting Devices with an External Quantum Efficiency of 11.2. <i>ACS Energy Letters</i> , 2018 , 3, 1571-1577 ¹	20.1	165
398	Rational Design of Fe _N /C Hybrid for Enhanced Nitrogen Reduction Electrocatalysis under Ambient Conditions in Aqueous Solution. <i>ACS Catalysis</i> , 2019 , 9, 336-344	13.1	164
397	Reactive magnetron sputter deposited CNx: Effects of N ₂ pressure and growth temperature on film composition, bonding, and microstructure. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1996 , 14, 2696-2701	2.9	160
396	Inorganic CsPbI ₂ Br Perovskite Solar Cells: The Progress and Perspective. <i>Solar Rrl</i> , 2019 , 3, 1800239	7.1	160
395	Adsorption of single Li and the formation of small Li clusters on graphene for the anode of lithium-ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 7793-7	9.5	156
394	Pressure Effects on Structure and Optical Properties in Cesium Lead Bromide Perovskite Nanocrystals. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10087-10094	16.4	155
393	Water-Assisted Size and Shape Control of CsPbBr Perovskite Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3337-3342	16.4	153
392	Inverted Design for High-Performance Supercapacitor Via Co(OH) ₂ -Derived Highly Oriented MOF Electrodes. <i>Advanced Energy Materials</i> , 2018 , 8, 1702294	21.8	152

391	Synthesis of Co(OH) ₂ /graphene/Ni foam nano-electrodes with excellent pseudocapacitive behavior and high cycling stability for supercapacitors. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 11846-11852	6.7	148
390	Saturation magnetization of ferromagnetic and ferrimagnetic nanocrystals at room temperature. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 320-325	3	148
389	N, S co-doped graphene quantum dots-graphene-TiO ₂ nanotubes composite with enhanced photocatalytic activity. <i>Journal of Alloys and Compounds</i> , 2017 , 691, 369-377	5.7	144
388	Constructing 2D graphitic carbon nitride nanosheets/layered MoS ₂ /graphene ternary nanojunction with enhanced photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2018 , 225, 468-476	21.8	140
387	Ultrahigh capacitive performance from both Co(OH) ₂ /graphene electrode and KBe(CN) ₂ electrolyte. <i>Scientific Reports</i> , 2013 , 3, 2986	4.9	135
386	Reduced graphene oxide/CdS for efficiently photocatalytic degradation of methylene blue. <i>Journal of Alloys and Compounds</i> , 2012 , 524, 5-12	5.7	123
385	Well-dispersed palladium nanoparticles on graphene oxide as a non-enzymatic glucose sensor. <i>RSC Advances</i> , 2012 , 2, 6245	3.7	121
384	Hydrogen-bond relaxation dynamics: Resolving mysteries of water ice. <i>Coordination Chemistry Reviews</i> , 2015 , 285, 109-165	23.2	114
383	Smoothing the energy transfer pathway in quasi-2D perovskite films using methanesulfonate leads to highly efficient light-emitting devices. <i>Nature Communications</i> , 2021 , 12, 1246	17.4	113
382	A Review for Aqueous Electrochemical Supercapacitors. <i>Frontiers in Energy Research</i> , 2015 , 3,	3.8	109
381	Coordination-resolved electron spectrometrics. <i>Chemical Reviews</i> , 2015 , 115, 6746-810	68.1	103
380	PbS Capped CsPbI ₃ Nanocrystals for Efficient and Stable Light-Emitting Devices Using -- Structures. <i>ACS Central Science</i> , 2018 , 4, 1352-1359	16.8	102
379	Density and Phonon-Stiffness Anomalies of Water and Ice in the Full Temperature Range. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3238-44	6.4	101
378	Development of microstructure CO sensor based on hierarchically porous ZnO nanosheet thin films. <i>Sensors and Actuators B: Chemical</i> , 2012 , 173, 897-902	8.5	100
377	Photo-assisted preparation and patterning of large-area reduced graphene oxide-TiO ₂ conductive thin film. <i>Chemical Communications</i> , 2010 , 46, 3499-501	5.8	100
376	Experimental and modelling investigations on strain rate sensitivity of an electrodeposited 20 nm grain sized Ni. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 7440-7446	3	99
375	Density, Elasticity, and Stability Anomalies of Water Molecules with Fewer than Four Neighbors. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2565-70	6.4	98
374	Density Functional Theory Calculations for the Quantum Capacitance Performance of Graphene-Based Electrode Material. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 6464-6470	3.8	97

- 373 (EMIIm)+(PF6) Ionic Liquid Unlocks Optimum Energy/Power Density for Architecture of Nanocarbon-Based Dual-Ion Battery. *Advanced Energy Materials*, **2016**, 6, 1601378 21.8 97
- 372 Decoration of the inert basal plane of defect-rich MoS₂ with Pd atoms for achieving Pt-similar HER activity. *Journal of Materials Chemistry A*, **2016**, 4, 4025-4031 13 97
- 371 Amorphous carbon enriched with pyridinic nitrogen as an efficient metal-free electrocatalyst for oxygen reduction reaction. *Chemical Communications*, **2014**, 50, 557-9 5.8 93
- 370 A novel low compressible and superhard carbon nitride: body-centered tetragonal CN₂. *Physical Chemistry Chemical Physics*, **2012**, 14, 13081-7 3.6 91
- 369 NiAl(110)Ir(110) interface: A density functional theory study. *Physical Review B*, **2006**, 73, 3-3 91
- 368 Size and interface effects on ferromagnetic and antiferromagnetic transition temperatures. *Physical Review B*, **2006**, 73, 3-3 89
- 367 Controlled synthesis of hollow Cu_xTe nanocrystals based on the Kirkendall effect and their enhanced CO gas-sensing properties. *Small*, **2013**, 9, 793-9 11 87
- 366 Anomalous Stress Response of Ultrahard WB_n Compounds. *Physical Review Letters*, **2015**, 115, 185502-4 7.4 85
- 365 Enhanced ammonia sensing performances of Pd-sensitized flowerlike ZnO nanostructure. *Sensors and Actuators B: Chemical*, **2011**, 156, 395-400 8.5 84
- 364 Single Atom Excels as the Smallest Functional Material. *Advanced Functional Materials*, **2016**, 26, 2988-2993 13.6 83
- 363 Nitrogen/boron doping position dependence of the electronic properties of a triangular graphene. *ACS Nano*, **2010**, 4, 7619-29 16.7 78
- 362 Surface plasmon resonance technique for directly probing the interaction of DNA and graphene oxide and ultra-sensitive biosensing. *Biosensors and Bioelectronics*, **2014**, 58, 374-9 11.8 76
- 361 The hidden force opposing ice compression. *Chemical Science*, **2012**, 3, 1455 9.4 76
- 360 Ni(OH)₂ nanoflakes electrodeposited on Ni foam-supported vertically oriented graphene nanosheets for application in asymmetric supercapacitors. *Materials Research Bulletin*, **2014**, 52, 89-95 5.1 75
- 359 Shape-dependent catalytic activity of oxygen reduction reaction (ORR) on silver nanodecahedra and nanocubes. *Journal of Power Sources*, **2014**, 269, 152-157 8.9 75
- 358 Highly Carbon-Doped TiO₂ Derived from MXene Boosting the Photocatalytic Hydrogen Evolution. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 13480-13486 8.3 75
- 357 Controlling phase transition for single-layer MTe₂ (M = Mo and W): modulation of the potential barrier under strain. *Physical Chemistry Chemical Physics*, **2016**, 18, 4086-94 3.6 74
- 356 The Electronic Properties of Single-Layer and Multilayer MoS₂ under High Pressure. *Journal of Physical Chemistry C*, **2015**, 119, 10189-10196 3.8 73

355	First-principles study of the surface energy and work function of III-V semiconductor compounds. <i>Physical Review B</i> , 2007 , 75,	3.3	73
354	One-Step Synthesis of a Self-Supported Copper Phosphide Nanobush for Overall Water Splitting. <i>ACS Omega</i> , 2016 , 1, 1367-1373	3.9	73
353	Tent-pitching-inspired high-valence period 3-cation pre-intercalation excels for anode of 2D titanium carbide (MXene) with high Li storage capacity. <i>Energy Storage Materials</i> , 2019 , 16, 163-168	19.4	72
352	Field emission properties of N-doped capped single-walled carbon nanotubes: a first-principles density-functional study. <i>Journal of Chemical Physics</i> , 2007 , 126, 164702	3.9	71
351	Iridium-Triggered Phase Transition of MoS ₂ Nanosheets Boosts Overall Water Splitting in Alkaline Media. <i>ACS Energy Letters</i> , 2019 , 4, 368-374	20.1	71
350	A semiconductor-electrochemistry model for design of high-rate Li ion battery. <i>Journal of Energy Chemistry</i> , 2020 , 41, 100-106	12	70
349	Recent progress of TMD nanomaterials: phase transitions and applications. <i>Nanoscale</i> , 2020 , 12, 1247-1268	12.68	66
348	Effects of doping nitrogen atoms on the structure and electronic properties of zigzag single-walled carbon nanotubes through first-principles calculations. <i>Nanotechnology</i> , 2007 , 18, 165702	3.4	65
347	Lattice -Mismatch-Induced Ultrastable 1T-Phase MoS-Pd/Au for Plasmon-Enhanced Hydrogen Evolution. <i>Nano Letters</i> , 2019 , 19, 2758-2764	11.5	64
346	Size, separation, structural order, and mass density of molecules packing in water and ice. <i>Scientific Reports</i> , 2013 , 3, 3005	4.9	64
345	Hydrogen Stabilized RhPdH 2D Bimetallene Nanosheets for Efficient Alkaline Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2020 , 142, 3645-3651	16.4	63
344	Raman spectroscopic determination of the length, strength, compressibility, Debye temperature, elasticity, and force constant of the C-C bond in graphene. <i>Nanoscale</i> , 2012 , 4, 502-10	7.7	62
343	Ar plasma treatment on few layer graphene sheets for enhancing their field emission properties. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 055302	3	62
342	Electronic fitness function for screening semiconductors as thermoelectric materials. <i>Physical Review Materials</i> , 2017 , 1,	3.2	62
341	One-step synthesis of band-tunable N, S co-doped commercial TiO ₂ /graphene quantum dots composites with enhanced photocatalytic activity. <i>RSC Advances</i> , 2017 , 7, 23319-23327	3.7	61
340	Atomistic origin, temperature dependence, and responsibilities of surface energetics: An extended broken-bond rule. <i>Physical Review B</i> , 2007 , 75,	3.3	60
339	Nanoporous Sulfur-Doped Copper Oxide (CuOS) for Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 745-752	9.5	59
338	Revealing the Intrinsic Peroxidase-Like Catalytic Mechanism of Heterogeneous Single-Atom Co-MoS. <i>Nano-Micro Letters</i> , 2019 , 11, 102	19.5	59

337	High-Pressure Phase Stability and Superconductivity of Pnictogen Hydrides and Chemical Trends for Compressed Hydrides. <i>Chemistry of Materials</i> , 2016 , 28, 1746-1755	9.6	57
336	Synthesis of double-shelled SnO ₂ nano-polyhedra and their improved gas sensing properties. <i>Nanoscale</i> , 2015 , 7, 3276-84	7.7	56
335	Vertically co-oriented two dimensional metal-organic frameworks for packaging enhanced supercapacitive performance. <i>Communications Chemistry</i> , 2018 , 1,	6.3	55
334	Electrodeposited Ni(OH) ₂ nanoflakes on graphite nanosheets prepared by plasma-enhanced chemical vapor deposition for supercapacitor electrode. <i>New Journal of Chemistry</i> , 2012 , 36, 1902	3.6	55
333	Coulomb Repulsion at the Nanometer-Sized Contact: A Force Driving Superhydrophobicity, Superfluidity, Superlubricity, and Supersolidity. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 20009-20019	3.8	55
332	Water's phase diagram: From the notion of thermodynamics to hydrogen-bond cooperativity. <i>Progress in Solid State Chemistry</i> , 2015 , 43, 71-81	8	54
331	Electrical conductivity of carbon nanotube/poly(vinylidene fluoride) composites prepared by high-speed mechanical mixing. <i>Carbon</i> , 2012 , 50, 339-341	10.4	54
330	Valence Band Splitting on Multilayer MoS ₂ : Mixing of Spin-Orbit Coupling and Interlayer Coupling. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 2175-81	6.4	54
329	A common supersolid skin covering both water and ice. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 22987-94	3.6	53
328	Synthesis of graphene on a polycrystalline Co film by radio-frequency plasma-enhanced chemical vapour deposition. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 455402	3	53
327	Highly Ordered Periodic Au/TiO ₂ Hetero-Nanostructures for Plasmon-Induced Enhancement of the Activity and Stability for Ethanol Electro-oxidation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 5273-95	9.5	52
326	2D titanium carbide (MXene) electrodes with lower-F surface for high performance lithium-ion batteries. <i>Journal of Energy Chemistry</i> , 2019 , 31, 148-153	12	52
325	Interaction between graphene and the surface of SiO ₂ . <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 305004	1.8	52
324	Hydrothermal reduction of graphene oxide; effect on surface-enhanced Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 97-103	2.3	50
323	Graphene oxide-Ag nanocomposite: In situ photochemical synthesis and application as a surface-enhanced Raman scattering substrate. <i>Thin Solid Films</i> , 2011 , 520, 179-185	2.2	50
322	Stress development during deposition of CN _x thin films. <i>Applied Physics Letters</i> , 1998 , 72, 2532-2534	3.4	50
321	Synthesis of polyhedron hollow structure Cu ₂ O and their gas-sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2012 , 171-172, 135-140	8.5	49
320	Energy Level Modification with Carbon Dot Interlayers Enables Efficient Perovskite Solar Cells and Quantum Dot Based Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2020 , 30, 1910530	15.6	47

319	A high-performance asymmetric supercapacitor based on Co(OH) ₂ /graphene and activated carbon electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 782, 98-102	4.1	47
318	Thermally Activated Upconversion Near-Infrared Photoluminescence from Carbon Dots Synthesized via Microwave Assisted Exfoliation. <i>Small</i> , 2019 , 15, e1905050	11	47
317	Rapid and selective H ₂ S detection of hierarchical ZnSnO ₃ nanocages. <i>Sensors and Actuators B: Chemical</i> , 2011 , 159, 245-250	8.5	47
316	First-principles density-functional investigation of the effect of water on the field emission of carbon nanotubes. <i>Nanotechnology</i> , 2007 , 18, 155707	3.4	47
315	Hydrogen-bond memory and water-skin supersolidity resolving the Mpemba paradox. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 22995-3002	3.6	46
314	Toughness enhancement and tribochemistry of the Nb-Ag-N films actuated by solute Ag. <i>Acta Materialia</i> , 2017 , 137, 1-11	8.4	46
313	Discriminative generation and hydrogen modulation of the Dirac-Fermi polarons at graphene edges and atomic vacancies. <i>Carbon</i> , 2011 , 49, 3615-3621	10.4	46
312	Synthesis of ultrathin wrinkle-free PdCu alloy nanosheets for modulating d-band electrons for efficient methanol oxidation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8531-8536	13	44
311	Assembly of hierarchical ZnSnO ₃ hollow microspheres from ultra-thin nanorods and the enhanced ethanol-sensing performances. <i>Sensors and Actuators B: Chemical</i> , 2014 , 190, 370-377	8.5	44
310	Synthesis and the improved sensing properties of hierarchical SnO ₂ hollow nanosheets with mesoporous and multilayered interiors. <i>Sensors and Actuators B: Chemical</i> , 2016 , 222, 354-361	8.5	42
309	Improving Photocatalytic Performance from BiWO ₄ @MoS ₂ /graphene Hybrids via Gradual Charge Transferred Pathway. <i>Scientific Reports</i> , 2017 , 7, 3637	4.9	42
308	Isothermal synthesis and proton-conductive properties of NH ₂ -MIL-53 MOF nanomaterials. <i>CrystEngComm</i> , 2016 , 18, 525-528	3.3	42
307	Low-temperature synthesis of porous hollow structured Cu ₂ O for photocatalytic activity and gas sensor application. <i>RSC Advances</i> , 2013 , 3, 18651	3.7	42
306	1D alignment of ZnO@ZIF-8/67 nanorod arrays for visible-light-driven photoelectrochemical water splitting. <i>Applied Surface Science</i> , 2018 , 448, 254-260	6.7	41
305	Integrating Catalysis of Methane Decomposition and Electrocatalytic Hydrogen Evolution with Ni/CeO for Improved Hydrogen Production Efficiency. <i>ChemSusChem</i> , 2019 , 12, 1000-1010	8.3	41
304	Porous single-crystalline palladium nanoflowers with enriched {100} facets for highly enhanced ethanol oxidation. <i>Nanoscale</i> , 2014 , 6, 15090-7	7.7	40
303	Electrical conductivity of poly(vinylidene fluoride)/carbon nanotube composites with a spherical substructure. <i>Carbon</i> , 2009 , 47, 2118-2120	10.4	40
302	Modeling lattice expansion and cohesive energy of nanostructured materials. <i>Applied Physics Letters</i> , 2009 , 95, 083110	3.4	40

301	Highly active zigzag-like Pt-Zn alloy nanowires with high-index facets for alcohol electrooxidation. <i>Nano Research</i> , 2019 , 12, 1173-1179	10	39
300	Oxygen Vacancies Boost BiO as a High-Performance Electrode for Rechargeable Aqueous Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2103-2111	9.5	39
299	Electron scattering and electrical conductance in polycrystalline metallic films and wires: impact of grain boundary scattering related to melting point. <i>ACS Nano</i> , 2010 , 4, 3781-8	16.7	38
298	Perspective: n-type oxide thermoelectrics via visual search strategies. <i>APL Materials</i> , 2016 , 4, 053201	5.7	38
297	Carbon-Based Dual-Ion Battery with Enhanced Capacity and Cycling Stability. <i>ChemElectroChem</i> , 2018 , 5, 3612-3618	4.3	38
296	One-pot hydrothermal synthesis of mesoporous Zn(x)Cd(1-x)S/reduced graphene oxide hybrid material and its enhanced photocatalytic activity. <i>Dalton Transactions</i> , 2014 , 43, 12894-903	4.3	37
295	Size and Structural Dependence of Cohesive Energy in Cu. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 18840-18845	3.8	37
294	Effects of substrate bias on the preferred orientation, phase transition and mechanical properties for NbN films grown by direct current reactive magnetron sputtering. <i>Journal of Applied Physics</i> , 2008 , 104, 023527	2.5	37
293	Adsorption of Li on single-layer silicene for anodes of Li-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 8887-8896	3.6	36
292	Interstitial Hydrogen Atom Modulation to Boost Hydrogen Evolution in Pd-Based Alloy Nanoparticles. <i>ACS Nano</i> , 2019 , 13, 12987-12995	16.7	36
291	Dependence of the blocking temperature in exchange biased ferromagnetic/antiferromagnetic bilayers on the thickness of the antiferromagnetic layer. <i>Nanotechnology</i> , 2007 , 18, 155701	3.4	36
290	Field emission enhancement of amorphous carbon films by nitrogen-implantation. <i>Carbon</i> , 2004 , 42, 2309-2314	10.4	36
289	Real-space observation of strong metal-support interaction: state-of-the-art and what's the next. <i>Journal of Microscopy</i> , 2016 , 262, 203-15	1.9	36
288	Raman spectroscopy determination of the Debye temperature and atomic cohesive energy of CdS, CdSe, Bi ₂ Se ₃ , and Sb ₂ Te ₃ nanostructures. <i>Journal of Applied Physics</i> , 2012 , 112, 083508	2.5	35
287	Engineering graphene/carbon nanotube hybrid for direct electron transfer of glucose oxidase and glucose biosensor. <i>Journal of Applied Electrochemistry</i> , 2012 , 42, 875-881	2.6	35
286	Photovoltaic properties of graphene oxide sheets beaded with ZnO nanoparticles. <i>Journal of Solid State Chemistry</i> , 2011 , 184, 881-887	3.3	35
285	Plasmonic-induced inhibition and enhancement of the electrocatalytic activity of Pd-Au hetero-nanoraspberries for ethanol oxidation. <i>Journal of Power Sources</i> , 2016 , 316, 29-36	8.9	35
284	Pd-loaded SnO ₂ ultrathin nanorod-assembled hollow microspheres with the significant improvement for toluene detection. <i>Sensors and Actuators B: Chemical</i> , 2017 , 243, 465-474	8.5	34

283	Crystallization behavior of poly(vinylidene fluoride)/montmorillonite nanocomposite. <i>Polymer Engineering and Science</i> , 2009 , 49, 491-498	2.3	34
282	Ultrathin nanorod-assembled SnO ₂ hollow cubes for high sensitive n-butanol detection. <i>Sensors and Actuators B: Chemical</i> , 2019 , 283, 693-704	8.5	34
281	Zipper-Inspired SEI Film for Remarkably Enhancing the Stability of Li Metal Anode via Nucleation Barriers Controlled Weaving of Lithium Pits. <i>Advanced Energy Materials</i> , 2018 , 8, 1800650	21.8	33
280	A switch of the oxidation state of graphene oxide on a surface plasmon resonance chip. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 2096-103	9.5	33
279	Exploiting Anti-T-shaped Graphene Architecture to Form Low Tortuosity, Sieve-like Interfaces for High-Performance Anodes for Li-Based Cells. <i>ACS Central Science</i> , 2018 , 4, 81-88	16.8	33
278	Thermoelectric properties of p-type cubic and rhombohedral GeTe. <i>Journal of Applied Physics</i> , 2018 , 123, 195105	2.5	33
277	Zone-selective photoelectronic measurements of the local bonding and electronic dynamics associated with the monolayer skin and point defects of graphite. <i>RSC Advances</i> , 2012 , 2, 2377	3.7	32
276	Bottom-up growth of homogeneous Moiré superlattices in bismuth oxychloride spiral nanosheets. <i>Nature Communications</i> , 2019 , 10, 4472	17.4	31
275	Water-Assisted Size and Shape Control of CsPbBr ₃ Perovskite Nanocrystals. <i>Angewandte Chemie</i> , 2018 , 130, 3395-3400	3.6	31
274	Architecture of Co-layered double hydroxide nanocages/graphene composite electrode with high electrochemical performance for supercapacitor. <i>Journal of Energy Chemistry</i> , 2018 , 27, 507-512	12	31
273	Adsorption and Formation of Small Na Clusters on Pristine and Double-Vacancy Graphene for Anodes of Na-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 17076-17084	9.5	30
272	Controllable formation of multi-layered SnO@FeO sandwich cubes as a high-performance anode for Li-ion batteries. <i>Nanoscale</i> , 2017 , 9, 17576-17584	7.7	30
271	Size distribution-controlled preparation of graphene oxide nanosheets with different C/O ratios. <i>Materials Chemistry and Physics</i> , 2013 , 139, 8-11	4.4	30
270	Structural characteristics of poly(vinylidene fluoride)/clay nanocomposites. <i>Materials Letters</i> , 2008 , 62, 747-750	3.3	30
269	Shape Control of Metal Halide Perovskite Single Crystals: From Bulk to Nanoscale. <i>Chemistry of Materials</i> , 2020 , 32, 7602-7617	9.6	30
268	Perovskite Quantum Dots with Atomic Crystal Shells for Light-Emitting Diodes with Low Efficiency Roll-Off. <i>ACS Energy Letters</i> , 2020 , 5, 2927-2934	20.1	30
267	Density-functional theory study of the microstructure, electronic structure, and optical properties of amorphous carbon. <i>Physical Review B</i> , 2007 , 75,	3.3	29
266	Electron emission of carbon nitride films and mechanism for the nitrogen-lowered threshold in cold cathode. <i>Journal of Applied Physics</i> , 2003 , 94, 2741-2745	2.5	29

265	Modulation of Hydrogen Evolution Catalytic Activity of Basal Plane in Monolayer Platinum and Palladium Dichalcogenides. <i>ACS Omega</i> , 2018 , 3, 10058-10065	3.9	29
264	Multistep assembly of Au-loaded SnO ₂ hollow multilayered nanosheets for high-performance CO detection. <i>Sensors and Actuators B: Chemical</i> , 2016 , 227, 362-372	8.5	28
263	Stabilized monolayer 1T MoS embedded in CoOOH for highly efficient overall water splitting. <i>Nanoscale</i> , 2018 , 10, 12330-12336	7.7	28
262	External Electric Field Modulated Electronic and Structural Properties of <111> Si Nanowires. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 10384-10389	3.8	28
261	Effects of the chemical bonding on the optical and mechanical properties for germanium carbide films used as antireflection and protection coating of ZnS windows. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 4231-41	1.8	28
260	Pressure evolution of the potential barriers of phase transition of MoS ₂ , MoSe ₂ and MoTe ₂ . <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 12080-5	3.6	28
259	Increasing surface active Co ²⁺ sites of MOF-derived Co ₃ O ₄ for enhanced supercapacitive performance via NaBH ₄ reduction. <i>Electrochimica Acta</i> , 2018 , 289, 319-323	6.7	28
258	Unifying miscellaneous performance criteria for a prototype supercapacitor via Co(OH) active material and current collector interactions. <i>Journal of Microscopy</i> , 2017 , 267, 34-48	1.9	27
257	Water nanodroplet thermodynamics: quasi-solid phase-boundary dispersivity. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 5265-9	3.4	27
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