

Weitao Zheng

List of Publications by Year in Descending Order

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

408
papers

14,434
citations

63
h-index

99
g-index

429
ext. papers

16,975
ext. citations

6.7
avg, IF

6.96
L-index

#	Paper	IF	Citations
408	A dual-control strategy based on electrode material and electrolyte optimization to construct an asymmetric supercapacitor with high energy density.. <i>Nanotechnology</i> , 2022 ,	3.4	1
407	Solution-processable carbon dots with efficient solid-state red/near-infrared emission.. <i>Journal of Colloid and Interface Science</i> , 2022 , 613, 547-553	9.3	1
406	Improved One- and Multiple-Photon Excited Photoluminescence from Cd-Doped CsPbBr Perovskite NCs.. <i>Nanomaterials</i> , 2022 , 12,	5.4	5
405	Cu-Doped Layered Double Hydroxide Constructs the Performance-Enhanced Supercapacitor Via Band Gap Reduction and Defect Triggering. <i>ACS Applied Energy Materials</i> , 2022 , 5, 2192-2201	6.1	4
404	Macroscale Robust Superlubricity on Metallic NbB.. <i>Advanced Science</i> , 2022 , e2103815	13.6	0
403	Boosting the kinetics of PF6- into graphitic layers for the optimal cathode of dual-ion batteries: the rehearsal of pre-intercalating Li+. <i>Journal of Energy Chemistry</i> , 2022 ,	12	2
402	Favorable Energy Band Alignment of TiO ₂ Anatase/Rutile Heterophase Homojunctions Yields Photocatalytic Hydrogen Evolution with Quantum Efficiency Exceeding 45.6% (Adv. Energy Mater. 16/2022). <i>Advanced Energy Materials</i> , 2022 , 12, 2270066	21.8	
401	Etching-courtesy NH ₄ ⁺ pre-intercalation enables highly-efficient Li ⁺ storage of MXenes via the renaissance of interlayer redox. <i>Journal of Energy Chemistry</i> , 2022 , 72, 26-32	12	1
400	Color-Stable and High-Efficiency Blue Perovskite Nanocrystal Light-Emitting Diodes via Monovalent Copper Ion Lowering Lead Defects. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 55380-55390	9.5	2
399	MOFs fertilized transition-metallic single-atom electrocatalysts for highly-efficient oxygen reduction: Spreading the synthesis strategies and advanced identification. <i>Journal of Energy Chemistry</i> , 2021 , 67, 391-391	12	5
398	Self-crystallized Interlayer Integrating Polysulfide-adsorbed TiO ₂ /TiO and Highly-electron-conductive TiO for High-stability Lithium-sulfur Batteries. <i>Chemical Research in Chinese Universities</i> , 2021 , 37, 259-264	2.2	2
397	Unlocking the potential of metal organic frameworks for synergized specific and areal capacitances via orientation regulation. <i>Nanotechnology</i> , 2021 , 32, 075402	3.4	5
396	Stable Bimetallic Hydride Boosts Anodic CO Tolerance of Fuel Cells. <i>ACS Energy Letters</i> , 2021 , 6, 1912-1919	10.19	16
395	Deformation and ductile fracture of nanocrystalline gold ultrathin nanoribbon: Width effect. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021 , 44, 1850	3	0
394	2D Bismuthene Metal Electron Mediator Engineering Super Interfacial Charge Transfer for Efficient Photocatalytic Reduction of Carbon Dioxide. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 21582-21592	9.5	5
393	A universal strategy to improve interfacial kinetics of solid supercapacitors used in high temperature. <i>Journal of Colloid and Interface Science</i> , 2021 , 586, 110-119	9.3	4
392	Storage mechanism of K in hydrogen-substituted graphdiyne as a superior anode. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 12320-12330	13	0

391	Multidentate Ligand Polyethylenimine Enables Bright Color-Saturated Blue Light-Emitting Diodes Based on CsPbBr ₃ Nanoplatelets. <i>ACS Energy Letters</i> , 2021 , 6, 477-484	20.1	22
390	Improved thermoelectric transport properties of Ge ₄ Se ₃ Te through dimensionality reduction. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 1804-1813	7.1	7
389	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
388	30.3: Invited Paper: CsPbX ₃ perovskite high-definition display materials and LEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 409-409	0.5	
387	Interior Melting of Rapidly Heated Gold Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 8170-8177	6.4	2
386	Full-color, multi-level transmittance modulators: From reflectivity/gradient absorption coupling mechanism to materials map. <i>Acta Materialia</i> , 2021 , 216, 117132	8.4	0
385	Rationalizing the Anion Storage in Cathodes for Optimum Dual-Ion Batteries: State of the Art and the Prospect. <i>Energy & Fuels</i> , 2020 , 34, 15701-15713	4.1	6
384	First-Principles Calculation of Optimizing the Performance of Germanene-Based Supercapacitors by Vacancies and Metal Atoms. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 12346-12358	3.8	7
383	Thermoelectric properties of monolayer GeAsSe and SnSbTe. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 9763-9774	7.1	12
382	Methanol-induced fast CsBr release results in phase-pure CsPbBr ₃ perovskite nanoplatelets. <i>Nanoscale Advances</i> , 2020 , 2, 1973-1979	5.1	9
381	In-plane Assembly of Distinctive 2D MOFs with Optimum Supercapacitive Performance. <i>IScience</i> , 2020 , 23, 101220	6.1	15
380	Ultralow-Friction and Ultralow-Wear TiN-Ag Solid Solution Coating in Base Oil. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1614-1621	6.4	8
379	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
378	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
377	In situ growth of ultra-smooth or super-rough thin films by suppression of vertical or horizontal growth of surface mounds. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 3248-3257	7.1	3
376	Nanocrystalline gold with small size: inverse Hall-Petch between mixed regime and super-soft regime. <i>Philosophical Magazine</i> , 2020 , 100, 2335-2351	1.6	11
375	Localized inside-out Ostwald ripening of hybrid double-shelled cages into SnO triple-shelled hollow cubes for improved toluene detection. <i>Nanoscale</i> , 2020 , 12, 2011-2021	7.7	6
374	Recent progress of TMD nanomaterials: phase transitions and applications. <i>Nanoscale</i> , 2020 , 12, 1247-1268	12.68	66

373	Incorporating a Polar Molecule to Passivate Defects for Perovskite Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 1900489.1	12	
372	The Effect of Strain Rate on the Deformation Processes of NC Gold with Small Grain Size. <i>Crystals</i> , 2020 , 10, 858	2.3	3
371	Polymeric Nano-Blue-Energy Generator Based on Anion-Selective Ionomers with 3D Pores and pH-Driving Gating. <i>Advanced Energy Materials</i> , 2020 , 10, 2001552	21.8	9
370	Activating an MXene as a host for EMIm+ by electrochemistry-driven Fe-ion pre-intercalation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16265-16270	13	9
369	Blue Energy: Polymeric Nano-Blue-Energy Generator Based on Anion-Selective Ionomers with 3D Pores and pH-Driving Gating (Adv. Energy Mater. 44/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070182 ^{21.8}		
368	Shape Control of Metal Halide Perovskite Single Crystals: From Bulk to Nanoscale. <i>Chemistry of Materials</i> , 2020 , 32, 7602-7617	9.6	30
367	Adsorption and Diffusion of Potassium on 2D SnC Sheets for Potential High-Performance Anodic Applications of Potassium-Ion Batteries. <i>ChemElectroChem</i> , 2020 , 7, 3832-3838	4.3	8
366	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
365	A semiconductor-electrochemistry model for design of high-rate Li ion battery. <i>Journal of Energy Chemistry</i> , 2020 , 41, 100-106	12	70
364	Breaking the lithium storage limit via independent bilayer units within 2D layer materials. <i>Journal of Energy Chemistry</i> , 2020 , 41, 1-2	12	2
363	Bottom-up growth of homogeneous Moiré superlattices in bismuth oxychloride spiral nanosheets. <i>Nature Communications</i> , 2019 , 10, 4472	17.4	31
362	Chemically Synthesized Carbon Nanorods with Dual Polarized Emission. <i>ACS Nano</i> , 2019 , 13, 12024-12031 ^{16.7}	16.7	17
361	Adsorption of metal atoms on silicene: stability and quantum capacitance of silicene-based electrode materials. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 4276-4285	3.6	20
360	Integrated MXene&CoFeO electrodes with multi-level interfacial architectures for synergistic lithium-ion storage. <i>Nanoscale</i> , 2019 , 11, 15037-15042	7.7	23
359	Optical coatings of durability based on transition metal nitrides. <i>Thin Solid Films</i> , 2019 , 688, 137339	2.2	15
358	Structural instability and magnetism of superconducting KCr3As3. <i>Physical Review B</i> , 2019 , 99,	3.3	6
357	Vertical Ion Transport: Magazine-Bending-Inspired Architecting Anti-T of MXene Flakes with Vertical Ion Transport for High-Performance Supercapacitors (Adv. Mater. Interfaces 8/2019). <i>Advanced Materials Interfaces</i> , 2019 , 6, 1970051	4.6	1
356	Bi-metal-organic frameworks type II heterostructures for enhanced photocatalytic styrene oxidation. <i>Nanoscale</i> , 2019 , 11, 7554-7559	7.7	15

355	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
354	Facile band alignment of C3N4/CdS/MoS2 sandwich hybrid for efficient charge separation and high photochemical performance under visible-light. <i>Powder Technology</i> , 2019 , 351, 222-228	5.2	10
353	Layered Ti2O: a model thermoelectric material. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5094-5103	7.1	23
352	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
351	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
350	Dense Sm and Mn Co-Doped BaTiO3 Ceramics with High Permittivity. <i>Materials</i> , 2019 , 12,	3.5	12
349	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
348	The thermal and thermoelectric transport properties of SiSb, GeSb and SnSb monolayers. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 10652-10662	7.1	17
347	Improving the Quantum Capacitance of Graphene-Based Supercapacitors by the Doping and Co-Doping: First-Principles Calculations. <i>ACS Omega</i> , 2019 , 4, 13209-13217	3.9	27
346	Thermally Activated Upconversion Near-Infrared Photoluminescence from Carbon Dots Synthesized via Microwave Assisted Exfoliation. <i>Small</i> , 2019 , 15, e1905050	11	47
345	Interstitial Hydrogen Atom Modulation to Boost Hydrogen Evolution in Pd-Based Alloy Nanoparticles. <i>ACS Nano</i> , 2019 , 13, 12987-12995	16.7	36
344	Designing chemical bonds between active materials and current collectors for packaging a high-performance supercapacitor. <i>Nanotechnology</i> , 2019 , 31, 105402	3.4	4
343	Magazine-Bending-Inspired Architecting Anti-T of MXene Flakes with Vertical Ion Transport for High-Performance Supercapacitors. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900160	4.6	15
342	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
341	Revealing the Intrinsic Peroxidase-Like Catalytic Mechanism of Heterogeneous Single-Atom Co-MoS. <i>Nano-Micro Letters</i> , 2019 , 11, 102	19.5	59
340	Photoluminescence: Thermally Activated Upconversion Near-Infrared Photoluminescence from Carbon Dots Synthesized via Microwave Assisted Exfoliation (Small 50/2019). <i>Small</i> , 2019 , 15, 1970288	11	0
339	Storage of Na in layered graphdiyne as high capacity anode materials for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25609-25618	13	10
338	Melting of Nanocrystalline Gold. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 907-914	3.8	4

337	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
336	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
335	Transition Metal-Nitrogen-Carbon Active Site for Oxygen Reduction Electrocatalysis: Beyond the Fascinations of TM-N ₄ . <i>ChemCatChem</i> , 2019 , 11, 655-668	5.2	22
334	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
333	Synergistic Dual-Confinement Effect: Merit of Hollowly Metallic Co ₉ S ₈ in Packaging Enhancement of Electrochemical Performance of LiB Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1428-1435	6.1	17
332	Inorganic CsPbI ₂ Br Perovskite Solar Cells: The Progress and Perspective. <i>Solar Rrl</i> , 2019 , 3, 1800239	7.1	160
331	Adsorption of Na on silicene for potential anode for Na-ion batteries. <i>Electrochimica Acta</i> , 2019 , 297, 497-503	6.7	19
330	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
329	Modulating Hardness in Molybdenum Monoborides by Adjusting an Array of Boron Zigzag Chains. <i>Chemistry of Materials</i> , 2019 , 31, 200-206	9.6	14
328	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
327	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
326	Vertically co-oriented two dimensional metal-organic frameworks for packaging enhanced supercapacitive performance. <i>Communications Chemistry</i> , 2018 , 1,	6.3	55
325	Understanding phase-change materials with unexpectedly low resistance drift for phase-change memories. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 3387-3394	7.1	14
324	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
323	Supercapacitors: Inverted Design for High-Performance Supercapacitor Via Co(OH) ₂ -Derived Highly Oriented MOF Electrodes (Adv. Energy Mater. 7/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870030	21.8	7
322	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
321	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
320	New design for highly durable infrared-reflective coatings. <i>Light: Science and Applications</i> , 2018 , 7, 17175	6.7	26

3 ¹⁹	Strain-induced modulations of electronic structure and electron-phonon coupling in dense HS. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 5952-5957	3.6	13
3 ¹⁸	Pinpointing single metal atom anchoring sites in carbon for oxygen reduction: Doping sites or defects?. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 4-7	11.3	10
3 ¹⁷	Water-Assisted Size and Shape Control of CsPbBr Perovskite Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3337-3342	16.4	153
3 ¹⁶	Water-Assisted Size and Shape Control of CsPbBr ₃ Perovskite Nanocrystals. <i>Angewandte Chemie</i> , 2018 , 130, 3395-3400	3.6	31
3 ¹⁵	Quantum Capacitance of Silicene-Based Electrodes from First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 1903-1912	3.8	18
3 ¹⁴	Evolution of Water Structures on Stepped Platinum Surfaces. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 604-611	3.8	4
3 ¹³	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
3 ¹²	Nanoporous Sulfur-Doped Copper Oxide (CuOS) for Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 745-752	9.5	59
3 ¹¹	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
3 ¹⁰	Improving frictional properties of DLC films by surface energy manipulation.. <i>RSC Advances</i> , 2018 , 8, 11388-11394	3.7	7
3 ⁰⁹	Anti-Freezing Aqueous Electrolyte for High-Performance Co(OH) ₂ Supercapacitors at 0 °C. <i>Energy Technology</i> , 2018 , 6, 605-612	3.5	20
3 ⁰⁸	Crystallization of SiC and its effects on microstructure, hardness and toughness in TaC/SiC multilayer films. <i>Ceramics International</i> , 2018 , 44, 613-621	5.1	27
3 ⁰⁷	Insight into graphene/hydroxide compositing mechanism for remarkably enhanced capacity. <i>Journal of Power Sources</i> , 2018 , 399, 238-245	8.9	25
3 ⁰⁶	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
3 ⁰⁵	Robust Synthesis of High-Performance N-Graphite Hollow Nanocatalysts Based on the Ostwald Ripening Mechanism for Oxygen Reduction Reaction Electrocatalysis. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1800266	3.1	1
3 ⁰⁴	Stabilized monolayer 1T MoS embedded in CoOOH for highly efficient overall water splitting. <i>Nanoscale</i> , 2018 , 10, 12330-12336	7.7	28
3 ⁰³	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	20.1	165
3 ⁰²	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

301	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
300	First principles study on 2H-1T' transition in MoS with copper. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 26986-26994	3.6	19
299	Interface engineered surface morphology evolution of Au@Pd core-shell nanorods. <i>Nanoscale</i> , 2018 , 10, 21161-21167	7.7	6
298	PbS Capped CsPbI Nanocrystals for Efficient and Stable Light-Emitting Devices Using -- Structures. <i>ACS Central Science</i> , 2018 , 4, 1352-1359	16.8	102
297	Carbon-Based Dual-Ion Battery with Enhanced Capacity and Cycling Stability. <i>ChemElectroChem</i> , 2018 , 5, 3612-3618	4.3	38
296	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
295	Highly Carbon-Doped TiO ₂ Derived from MXene Boosting the Photocatalytic Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 13480-13486	8.3	75
294	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
293	Thermoelectric properties of p-type cubic and rhombohedral GeTe. <i>Journal of Applied Physics</i> , 2018 , 123, 195105	2.5	33
292	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
291	Structural metatransition of energetically tangled crystalline phases. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 4560-4566	3.6	20
290	Surface roughening transition induced by phase transformation in hafnium nitride films. <i>Surface and Coatings Technology</i> , 2017 , 320, 414-420	4.4	1
289	Highly oriented lamellar polyaniline films via electrochemical polymerization and post-growth annealing. <i>RSC Advances</i> , 2017 , 7, 3819-3822	3.7	2
288	Free-Standing Single-Molecule Thick Crystals Consisting of Linear Long-Chain Polymers. <i>Nano Letters</i> , 2017 , 17, 1655-1659	11.5	7
287	Development of novel and ultrahigh-performance asymmetric supercapacitor based on redox electrode-electrolyte system. <i>Electrochimica Acta</i> , 2017 , 231, 495-501	6.7	15
286	One-Pot Synthesis of Nanodendritic PtIr Alloy with High Electrochemical Activity for Ethylene Glycol Oxidation. <i>Nano</i> , 2017 , 12, 1750026	1.1	6
285	Atomic-level energy storage mechanism of cobalt hydroxide electrode for pseudocapacitors. <i>Nature Communications</i> , 2017 , 8, 15194	17.4	186
284	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

283	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
282	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
281	Sn ₂ Se ₃ : A conducting crystalline mixed valent phase change memory compound. <i>Journal of Applied Physics</i> , 2017 , 121, 225106	2.5	8
280	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
279	Compressed few-layer black phosphorus nanosheets from semiconducting to metallic transition with the highest symmetry. <i>Nanoscale</i> , 2017 , 9, 10741-10749	7.7	13
278	Improving electrical conductivity and wear resistance of hafnium nitride films via tantalum incorporation. <i>Ceramics International</i> , 2017 , 43, 8517-8524	5.1	7
277	Combined effect of ion bombardment and nitrogen incorporation on structure, mechanical and optical properties of amorphous Ge ₂ Sb ₂ Te ₅ films. <i>Vacuum</i> , 2017 , 141, 32-40	3.7	2
276	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
275	Unlocking the Electrocatalytic Activity of Chemically Inert Amorphous Carbon-Nitrogen for Oxygen Reduction: Discerning and Refactoring Chaotic Bonds. <i>ChemElectroChem</i> , 2017 , 4, 1269-1273	4.3	21
274	Highly stable Au/Pd@mesoporous SiO ₂ yolk-shell hetero-nanostructures for plasmon-enhanced visible light driven catalytic reactions. <i>New Journal of Chemistry</i> , 2017 , 41, 786-792	3.6	15
273	Morphology dependence of electrochemical properties on palladium nanocrystals. <i>Journal of Colloid and Interface Science</i> , 2017 , 490, 190-196	9.3	17
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	Increasing the range of non-noble-metal single-atom catalysts. <i>Chinese Journal of Catalysis</i> , 2017 , 38, 1489-1497	11.3	15
270	Highly hard yet toughened bcc-W coating by doping unexpectedly low B content. <i>Scientific Reports</i> , 2017 , 7, 9353	4.9	12
269	Enhanced tensile strength and thermal conductivity in copper diamond composites with BC coating. <i>Scientific Reports</i> , 2017 , 7, 10727	4.9	26
268	Accessible 3D Integrative Paper Electrode Shapes: All-Carbon Dual-Ion Batteries with Optimum Packaging Performances. <i>ChemElectroChem</i> , 2017 , 4, 3238-3243	4.3	18
267	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
266	Superconductivity in HfTe across weak to strong topological insulator transition induced via pressures. <i>Scientific Reports</i> , 2017 , 7, 44367	4.9	19

265	Mechanistic Origin of Enhanced CO Catalytic Oxidation over Co ₃ O ₄ /LaCoO ₃ at Lower Temperature. <i>ChemCatChem</i> , 2017 , 9, 3102-3106	5.2	20
264	Magnetron Sputtering Deposition Cu@Onion-like N-C as High-Performance Electrocatalysts for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 41945-41954	9.5	17
263	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
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