

John Wang

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.

576
papers

39,143
citations

86
h-index

181
g-index

597
ext. papers

45,278
ext. citations

8.1
avg, IF

7.8
L-index

#	Paper	IF	Citations
576	Nurturing the marriages of single atoms with atomic clusters and nanoparticles for better heterogeneous electrocatalysis 2022 , 1, 51-87		12
575	Developing better ceramic membranes for water and wastewater Treatment: Where microstructure integrates with chemistry and functionalities. <i>Chemical Engineering Journal</i> , 2022 , 428, 130456	14.7	12
574	One-pot hydrothermal synthesis of fluorescent carbon quantum dots with tunable emission color for application in electroluminescence detection of dopamine. <i>Biosensors and Bioelectronics: X</i> , 2022 , 100141	2.9	
573	Quench-tailored Al-doped V2O5 nanomaterials for efficient aqueous zinc-ion batteries. <i>Journal of Energy Chemistry</i> , 2022 , 70, 52-58	12	4
572	Degradable Cross-Linked Collagen Fiber/MXene Composite Aerogels as a High-Performing Sensitive Pressure Sensor. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 1408-1418	8.3	8
571	Hierarchically porous interlayer for highly permeable and fouling-resistant ceramic membranes in water treatment. <i>Separation and Purification Technology</i> , 2022 , 293, 121092	8.3	1
570	Freestanding Metal-Organic Frameworks and Their Derivatives: An Emerging Platform for Electrochemical Energy Storage and Conversion.. <i>Chemical Reviews</i> , 2022 ,	68.1	10
569	3D spray-coated gradient profile ceramic membranes enables improved filtration performance in aerobic submerged membrane bioreactor. <i>Water Research</i> , 2022 , 220, 118661	12.5	
568	"Porous and Yet Dense" Electrodes for High-Volumetric-Performance Electrochemical Capacitors: Principles, Advances, and Challenges. <i>Advanced Science</i> , 2021 , e2103953	13.6	1
567	Evolution from Lead-Based to Lead-Free Piezoelectrics: Engineering of Lattices, Domains, Boundaries, and Defects Leading to Giant Response. <i>Advanced Materials</i> , 2021 , e2106845	24	9
566	One-step synthesis of nitrogen-doped carbon quantum dots for paper-based electrochemiluminescence detection of Cu ²⁺ ions. <i>Microchemical Journal</i> , 2021 , 174, 107057	4.8	4
565	Quench-Induced Surface Engineering Boosts Alkaline Freshwater and Seawater Oxygen Evolution Reaction of Porous NiCo O Nanowires. <i>Small</i> , 2021 , e2106187	11	2
564	Solar-Driven Gas-Phase Moisture to Hydrogen with Zero Bias. <i>ACS Nano</i> , 2021 ,	16.7	5
563	Activating inverse spinel NiCo ₂ O ₄ embedded in N-doped carbon nanofibers via Fe substitution for bifunctional oxygen electrocatalysis. <i>Materials Today Physics</i> , 2021 , 17, 100353	8	9
562	Efficient Water Splitting System Enabled by Multifunctional Platinum-Free Electrocatalysts. <i>Advanced Functional Materials</i> , 2021 , 31, 2009853	15.6	14
561	Engineering the Coordination Environment of Single Cobalt Atoms for Efficient Oxygen Reduction and Hydrogen Evolution Reactions. <i>ACS Catalysis</i> , 2021 , 11, 4498-4509	13.1	25
560	Fabrication of 3D-Printed Ceramic Structures for Portable Solar Desalination Devices. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 23220-23229	9.5	12

559	Dynamic Surface Chemistry of Catalysts in Oxygen Evolution Reaction. <i>Small Science</i> , 2021 , 1, 2100011		28
558	Aqueous Rechargeable Multivalent Metal-Ion Batteries: Advances and Challenges. <i>Advanced Energy Materials</i> , 2021 , 11, 2100608	21.8	33
557	Alkali-deficiency driven charged out-of-phase boundaries for giant electromechanical response. <i>Nature Communications</i> , 2021 , 12, 2841	17.4	4
556	Overcoming the Trade-off between Water Permeation and Mechanical Strength of Ceramic Membrane Supports by Interfacial Engineering. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 29199-29211	9.5	3
555	Ceramic-Polymer Composite Membranes for Water and Wastewater Treatment: Bridging the Big Gap between Ceramics and Polymers. <i>Molecules</i> , 2021 , 26,	4.8	6
554	In-situ surface self-reconstruction in ternary transition metal dichalcogenide nanorod arrays enables efficient electrocatalytic oxygen evolution. <i>Journal of Energy Chemistry</i> , 2021 , 55, 10-16	12	17
553	Binder-free 3D printing of covalent organic framework (COF) monoliths for CO ₂ adsorption. <i>Chemical Engineering Journal</i> , 2021 , 403, 126333	14.7	31
552	Fiber-in-tube and particle-in-tube hierarchical nanostructures enable high energy density of MnO-based asymmetric supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2021 , 582, 543-551	9.3	12
551	Efficient Hydrogen Evolution of Oxidized Ni-N Defective Sites for Alkaline Freshwater and Seawater Electrolysis. <i>Advanced Materials</i> , 2021 , 33, e2003846	24	65
550	Design strategies for MOF-derived porous functional materials: Preserving surfaces and nurturing pores. <i>Journal of Materiomics</i> , 2021 , 7, 440-459	6.7	24
549	Ultrathin TiO ₂ microfiltration membranes supported on a holey intermediate layer to raise filtration performance. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 1622-1628	6	6
548	Direct Pyrolysis of a Manganese-Triazolate Metal-Organic Framework into Air-Stable Manganese Nitride Nanoparticles. <i>Advanced Science</i> , 2021 , 8, 2003212	13.6	3
547	Unravelling VO Diffusion Pathways CO Modification for High-Performance Zinc Ion Battery Cathode. <i>ACS Nano</i> , 2021 , 15, 1273-1281	16.7	21
546	Design and Manufacture of 3D-Printed Batteries. <i>Joule</i> , 2021 , 5, 89-114	27.8	30
545	Synergizing aliovalent doping and interface in heterostructured NiV nitride@oxyhydroxide core-shell nanosheet arrays enables efficient oxygen evolution. <i>Nano Energy</i> , 2021 , 85, 105961	17.1	26
544	Quasi-Paired Pt Atomic Sites on Mo C Promoting Selective Four-Electron Oxygen Reduction. <i>Advanced Science</i> , 2021 , 8, e2101344	13.6	10
543	Black Phosphorus@TiCT MXene Composites with Engineered Chemical Bonds for Commercial-Level Capacitive Energy Storage. <i>ACS Nano</i> , 2021 ,	16.7	17
542	Ultrahigh piezoelectric coefficients of Li-doped (K,Na)NbO ₃ nanorod arrays with manipulated O-T phase boundary: Towards energy harvesting and self-powered human movement monitoring. <i>Nano Energy</i> , 2021 , 86, 106072	17.1	9

541	Recent progress in self-supported nanoarrays with diverse substrates for water splitting and beyond. <i>Materials Today Nano</i> , 2021 , 15, 100120	9.7	4
540	Recent progress, developing strategies, theoretical insights, and perspectives towards high-performance copper single atom electrocatalysts. <i>Materials Today Energy</i> , 2021 , 21, 100761	7	5
539	Squaraine organic crystals with strong dipole effect toward stable lithium-organic batteries. <i>Energy Storage Materials</i> , 2021 , 41, 240-247	19.4	5
538	Large-area multifunctional electro-chromic-chemical device made of W17O47 nanowires by Zn ²⁺ ion intercalation. <i>Nano Energy</i> , 2021 , 89, 106356	17.1	7
537	Unlocking the synergy of interface and oxygen vacancy by core-shell nickel phosphide@oxyhydroxide nanosheets arrays for accelerating alkaline oxygen evolution kinetics. <i>Chemical Engineering Journal</i> , 2021 , 425, 131491	14.7	4
536	Manipulating Interfaces of Electrocatalysts Down to Atomic Scales: Fundamentals, Strategies, and Electrocatalytic Applications.. <i>Small Methods</i> , 2021 , 5, e2001010	12.8	16
535	Key issues facing electrospun carbon nanofibers in energy applications: on-going approaches and challenges. <i>Nanoscale</i> , 2020 , 12, 13225-13248	7.7	38
534	Bifunctional Oxygen Electrocatalyst of Mesoporous Ni/NiO Nanosheets for Flexible Rechargeable Zn-Air Batteries. <i>Nano-Micro Letters</i> , 2020 , 12, 68	19.5	56
533	Potential-Dependent Phase Transition and Mo-Enriched Surface Reconstruction of FeCoOOH in a Heterostructured Co-Mo ₂ C Precatalyst Enable Water Oxidation. <i>ACS Catalysis</i> , 2020 , 10, 4411-4419	13.1	88
532	Surface nitridation of nickel-cobalt alloy nanocactoids raises the performance of water oxidation and splitting. <i>Applied Catalysis B: Environmental</i> , 2020 , 270, 118889	21.8	60
531	Zn Pre-Intercalation Stabilizes the Tunnel Structure of MnO Nanowires and Enables Zinc-Ion Hybrid Supercapacitor of Battery-Level Energy Density. <i>Small</i> , 2020 , 16, e2000091	11	69
530	MnO ₂ as an effective sintering aid for difficult-to-sinter LiTaO ₃ -based ceramics: Densification and dielectric properties. <i>Journal of Alloys and Compounds</i> , 2020 , 829, 154546	5.7	3
529	Electrochemiluminescence Detection of Sunset Yellow by Graphene Quantum Dots. <i>Frontiers in Chemistry</i> , 2020 , 8, 505	5	5
528	Surface engineered alumina microfiltration membranes based on rationally constructed core-shell particles. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 5951-5958	6	10
527	Synergizing Mo Single Atoms and Mo C Nanoparticles on CNTs Synchronizes Selectivity and Activity of Electrocatalytic N Reduction to Ammonia. <i>Advanced Materials</i> , 2020 , 32, e2002177	24	93
526	NH ₄ V ₃ O ₈ ·5H ₂ O nanobelts with intercalated water molecules as a high performance zinc ion battery cathode. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 1434-1443	7.8	47
525	Freeze-dried graphene oxide modified with trimethylhexamethylene in the mix solvent for improved anti-corrosion property of epoxy. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49139	2.9	3
524	Single atom catalysts: a surface heterocompound perspective. <i>Nanoscale Horizons</i> , 2020 , 5, 757-764	10.8	23

523	Overcoming the Limits of the Interfacial Dzyaloshinskii-Moriya Interaction by Antiferromagnetic Order in Multiferroic Heterostructures. <i>Advanced Materials</i> , 2020 , 32, e1904415	24	17
522	Quasi-solid-state fiber-shaped aqueous energy storage devices: recent advances and prospects. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6406-6433	13	34
521	Single Atom Electrocatalysis: Heterogeneous Single Atom Electrocatalysis, Where Singles Are Married (Adv. Energy Mater. 9/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070037	21.8	5
520	A negative-feedback loop maintains optimal chemokine concentrations for directional cell migration. <i>Nature Cell Biology</i> , 2020 , 22, 266-273	23.4	17
519	Epsilon-negative BaTiO ₃ /Cu composites with high thermal conductivity and yet low electrical conductivity. <i>Journal of Materiomics</i> , 2020 , 6, 145-151	6.7	38
518	Heterogeneous Single Atom Electrocatalysis, Where Singles Are Married (Advanced Energy Materials, 2020, 10, 1903181	21.8	64
517	Assembling of Bi atoms on TiO nanorods boosts photoelectrochemical water splitting of semiconductors. <i>Nanoscale</i> , 2020 , 12, 4302-4308	7.7	24
516	Recent advances and future perspectives for graphene oxide reinforced epoxy resins. <i>Materials Today Communications</i> , 2020 , 23, 100883	2.5	25
515	Interfacial dielectric layer as an origin of polarization fatigue in ferroelectric capacitors. <i>Scientific Reports</i> , 2020 , 10, 7310	4.9	9
514	Water Permeation through Conical Nanopores: Complex Interplay between Surface Roughness and Chemistry. <i>Advanced Theory and Simulations</i> , 2020 , 3, 2000025	3.5	4
513	3D-printed surface-patterned ceramic membrane with enhanced performance in crossflow filtration. <i>Journal of Membrane Science</i> , 2020 , 606, 118138	9.6	26
512	Metal-Organic Frameworks (MOFs)-boosted filtration membrane technology for water sustainability. <i>APL Materials</i> , 2020 , 8, 040902	5.7	28
511	Robust pure copper framework by extrusion 3D printing for advanced lithium metal anodes. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 9058-9067	13	21
510	One-dimensional and two-dimensional synergized nanostructures for high-performing energy storage and conversion. <i>Informa Materials</i> , 2020 , 2, 3-32	23.1	116
509	All-in-one stretchable coaxial-fiber strain sensor integrated with high-performing supercapacitor. <i>Energy Storage Materials</i> , 2020 , 25, 124-130	19.4	67
508	Effect of gradient profile in ceramic membranes on filtration characteristics: Implications for membrane development. <i>Journal of Membrane Science</i> , 2020 , 595, 117576	9.6	23
507	Low-loss and temperature-stable negative permittivity in La _{0.5} Sr _{0.5} MnO ₃ ceramics. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 1917-1921	6	23
506	Hollow structure engineering of FeCo alloy nanoparticles electrospun in nitrogen-doped carbon enables high performance flexible all-solid-state zinc-air batteries. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 1747-1753	5.8	26

505	Combinational Design of Electronic Structure and Nanoarray Architecture Achieves a Low-Overpotential Oxygen Electrode for Aprotic Lithium-Oxygen Batteries. <i>Small Methods</i> , 2020 , 4, 1900619	12.8	7
504	Stitching of Zn(OH)VO ₂ HO 2D Nanosheets by 1D Carbon Nanotubes Boosts Ultrahigh Rate for Wearable Quasi-Solid-State Zinc-Ion Batteries. <i>ACS Nano</i> , 2020 , 14, 842-853	16.7	104
503	Three Dimensionally Free-Formable Graphene Foam with Designed Structures for Energy and Environmental Applications. <i>ACS Nano</i> , 2020 , 14, 937-947	16.7	50
502	Cage-confinement pyrolysis route to size-controlled molybdenum-based oxygen electrode catalysts: From isolated atoms to clusters and nanoparticles. <i>Nano Energy</i> , 2020 , 67, 104288	17.1	65
501	Strain stabilized nickel hydroxide nanoribbons for efficient water splitting. <i>Energy and Environmental Science</i> , 2020 , 13, 229-237	35.4	43
500	A sacrificial Zn strategy enables anchoring of metal single atoms on the exposed surface of holey 2D molybdenum carbide nanosheets for efficient electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3071-3082	13	38
499	Highly permeable Al ₂ O ₃ microfiltration membranes with holey interior structure achieved through sacrificial C particles. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 3361-3372	3.8	7
498	Hydrogenated TiO ₂ membrane with photocatalytically enhanced anti-fouling for ultrafiltration of surface water. <i>Applied Catalysis B: Environmental</i> , 2020 , 264, 118528	21.8	19
497	Alumina double-layered ultrafiltration membranes with enhanced water flux. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 587, 124324	5.1	3
496	Recent Progress in Two-Dimensional Layered Double Hydroxides and Their Derivatives for Supercapacitors. <i>ChemSusChem</i> , 2020 , 13, 1226-1254	8.3	50
495	Interfacial diffusion assisted chemical deposition (ID-CD) for confined surface modification of alumina microfiltration membranes toward high-flux and anti-fouling. <i>Separation and Purification Technology</i> , 2020 , 235, 116177	8.3	22
494	MOF-derived manganese oxide/carbon nanocomposites with raised capacitance for stable asymmetric supercapacitor.. <i>RSC Advances</i> , 2020 , 10, 34403-34412	3.7	10
493	Electrospun Nanofibers for New Generation Flexible Energy Storage. <i>Energy and Environmental Materials</i> , 2020 ,	13	13
492	Nanohollow Carbon for Rechargeable Batteries: Ongoing Progresses and Challenges. <i>Nano-Micro Letters</i> , 2020 , 12, 183	19.5	26
491	Flexible quasi-solid-state aqueous Zn-based batteries: rational electrode designs for high-performance and mechanical flexibility. <i>Materials Today Energy</i> , 2020 , 18, 100523	7	30
490	Synergizing in-grown Ni ₃ N/Ni heterostructured core and ultrathin Ni ₃ N surface shell enables self-adaptive surface reconfiguration and efficient oxygen evolution reaction. <i>Nano Energy</i> , 2020 , 78, 105355	17.1	56
489	Flexible supercapacitor of high areal performance with vanadium/cobalt oxides on carbon nanofibers as a binder-free membrane electrode. <i>Chemical Engineering Journal</i> , 2020 , 402, 126294	14.7	38
488	Porous NiCo ₂ S ₄ /FeOOH nanowire arrays with rich sulfide/hydroxide interfaces enable high OER activity. <i>Nano Energy</i> , 2020 , 78, 105230	17.1	60

487	Phosphorus-Based Electrocatalysts: Black Phosphorus, Metal Phosphides, and Phosphates. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000676	4.6	14
486	Encapsulating Oxygen-Deficient TiNb ₂ O ₆ Microspheres by N-Doped Carbon Nanolayer Boosts Capacity and Stability of Lithium-Ion Battery. <i>Batteries and Supercaps</i> , 2020 , 3, 1360-1369	5.6	4
485	Manipulating unidirectional fluid transportation to drive sustainable solar water extraction and brine-drenching induced energy generation. <i>Energy and Environmental Science</i> , 2020 , 13, 4891-4902	35.4	66
484	Fabrication of (NH ₄) ₂ V ₃ O ₈ nanoparticles encapsulated in amorphous carbon for high capacity electrodes in aqueous zinc ion batteries. <i>Chemical Engineering Journal</i> , 2020 , 382, 122844	14.7	102
483	Chemical-grafting of graphene oxide quantum dots (GOQDs) onto ceramic microfiltration membranes for enhanced water permeability and anti-organic fouling potential. <i>Applied Surface Science</i> , 2020 , 502, 144128	6.7	29
482	3D-printed electrodes for lithium metal batteries with high areal capacity and high-rate capability. <i>Energy Storage Materials</i> , 2020 , 24, 336-342	19.4	55
481	Lithiophilic polymer interphase anchored on laser-punched 3D holey Cu matrix enables uniform lithium nucleation leading to super-stable lithium metal anodes. <i>Energy Storage Materials</i> , 2020 , 29, 84-91	19.4	28
480	In situ coupled amorphous cobalt nitride with nitrogen-doped graphene aerogel as a trifunctional electrocatalyst towards Zn-air battery driven full water splitting. <i>Applied Catalysis B: Environmental</i> , 2019 , 259, 118100	21.8	76
479	Copper Single Atoms Anchored in Porous Nitrogen-Doped Carbon as Efficient pH-Universal Catalysts for the Nitrogen Reduction Reaction. <i>ACS Catalysis</i> , 2019 , 9, 10166-10173	13.1	168
478	Heterogeneous ZIF-L membranes with improved hydrophilicity and anti-bacterial adhesion for potential application in water treatment.. <i>RSC Advances</i> , 2019 , 9, 1591-1601	3.7	34
477	Room-temperature H ₂ gasochromic behavior of Pd-modified MoO ₃ nanowire labels. <i>Materials Chemistry and Physics</i> , 2019 , 227, 111-116	4.4	17
476	Ceramic-based membranes for water and wastewater treatment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 578, 123513	5.1	96
475	Enlarged Interlayer Spacing in Cobalt-Manganese Layered Double Hydroxide Guiding Transformation to Layered Structure for High Supercapacitance. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 23236-23243	9.5	48
474	Microstructural Origins of High Piezoelectric Performance: A Pathway to Practical Lead-Free Materials. <i>Advanced Functional Materials</i> , 2019 , 29, 1902911	15.6	30
473	3D-Printing of Pure Metal-Organic Framework Monoliths 2019 , 1, 147-153		44
472	All-solid-state sponge-like squeezable zinc-air battery. <i>Energy Storage Materials</i> , 2019 , 23, 375-382	19.4	32
471	Guided Assembly of Microporous/Mesoporous Manganese Phosphates by Bifunctional Organophosphonic Acid Etching and Templating. <i>Advanced Materials</i> , 2019 , 31, e1901124	24	12
470	Strong Charge Transfer at 2H-1T Phase Boundary of MoS ₂ for Superb High-Performance Energy Storage. <i>Small</i> , 2019 , 15, e1900131	11	37

469	Cu and Co nanoparticle-Co-decorated N-doped graphene nanosheets: a high efficiency bifunctional electrocatalyst for rechargeable Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12851-12858	13	37
468	Enhancing water permeation through alumina membranes by changing from cylindrical to conical nanopores. <i>Nanoscale</i> , 2019 , 11, 9869-9878	7.7	18
467	Conformal dispersed cobalt nanoparticles in hollow carbon nanotube arrays for flexible Zn-air and Al-air batteries. <i>Chemical Engineering Journal</i> , 2019 , 369, 988-995	14.7	77
466	Nanowires versus nanosheets – Effects of NiCo ₂ O ₄ nanostructures on ceramic membrane permeability and fouling potential. <i>Separation and Purification Technology</i> , 2019 , 215, 644-651	8.3	9
465	Rational Design of Holey 2D Nonlayered Transition Metal Carbide/Nitride Heterostructure Nanosheets for Highly Efficient Water Oxidation. <i>Advanced Energy Materials</i> , 2019 , 9, 1803768	21.8	143
464	Atomic-Scale Control of Magnetism at the Titanite-Manganite Interfaces. <i>Nano Letters</i> , 2019 , 19, 3057-3065	10.5	10
463	High-performance B ₄ C/TiB ₂ /SiC composites with tuneable properties fabricated by reactive hot pressing. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 2995-3002	6	26
462	Twinned Tungsten Carbonitride Nanocrystals Boost Hydrogen Evolution Activity and Stability. <i>Small</i> , 2019 , 15, e1900248	11	44
461	Hierarchical Micro-Nano Sheet Arrays of Nickel-Cobalt Double Hydroxides for High-Rate Ni-Zn Batteries. <i>Advanced Science</i> , 2019 , 6, 1802002	13.6	118
460	Z-scheme carbon-bridged Bi ₂ O ₃ /TiO ₂ nanotube arrays to boost photoelectrochemical detection performance. <i>Applied Catalysis B: Environmental</i> , 2019 , 248, 255-263	21.8	62
459	Decorating Co/CoN _x nanoparticles in nitrogen-doped carbon nanoarrays for flexible and rechargeable zinc-air batteries. <i>Energy Storage Materials</i> , 2019 , 16, 243-250	19.4	157
458	In situ electrochemical oxidation of electrodeposited Ni-based nanostructure promotes alkaline hydrogen production. <i>Nanotechnology</i> , 2019 , 30, 474001	3.4	4
457	Rice husk-derived Mn ₃ O ₄ /manganese silicate/C nanostructured composites for high-performance hybrid supercapacitors. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 2788-2800	6.8	43
456	Designing Energy Materials via Atomic-resolution Microscopy and Spectroscopy. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1998-1999	0.5	0
455	Electronic-reconstruction-enhanced hydrogen evolution catalysis in oxide polymorphs. <i>Nature Communications</i> , 2019 , 10, 3149	17.4	20
454	CuCoS Nanosheets@N-Doped Carbon Nanofibers by Sulfurization at Room Temperature as Bifunctional Electrocatalysts in Flexible Quasi-Solid-State Zn-Air Batteries. <i>Advanced Science</i> , 2019 , 6, 1900628	13.6	81
453	Significant Role of Al in Ternary Layered Double Hydroxides for Enhancing Electrochemical Performance of Flexible Asymmetric Supercapacitor. <i>Advanced Functional Materials</i> , 2019 , 29, 1903879	15.6	144
452	Relaxivity and toxicological properties of manganese oxide nanoparticles for MRI applications. <i>RSC Advances</i> , 2019 , 6, 45462-45474	3.7	26

451	Photosynthetic apparatus of Rhodobacter sphaeroides exhibits prolonged charge storage. <i>Nature Communications</i> , 2019 , 10, 902	17.4	31
450	A theoretical study of permeability enhancement for ultrafiltration ceramic membranes with conical pores and slippage. <i>Physics of Fluids</i> , 2019 , 31, 022003	4.4	6
449	Polymorphism in M(HPO) (M = V, Al, Ga) compounds with the perovskite-related ReO structure. <i>Chemical Communications</i> , 2019 , 55, 2964-2967	5.8	10
448	Phospho-oxynitride Layer Protected Cobalt Phosphonitride Nanowire Arrays for High-Rate and Stable Supercapacitors. <i>ACS Applied Energy Materials</i> , 2019 , 2, 616-626	6.1	10
447	Flexible and Wearable All-Solid-State Al-Air Battery Based on Iron Carbide Encapsulated in Electrospun Porous Carbon Nanofibers. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1988-1995	9.5	38
446	Heterojunction engineering of MoSe ₂ /MoS ₂ with electronic modulation towards synergetic hydrogen evolution reaction and supercapitance performance. <i>Chemical Engineering Journal</i> , 2019 , 359, 1419-1426	14.7	104
445	3D-Printed MOF-Derived Hierarchically Porous Frameworks for Practical High-Energy Density LiO ₂ Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1806658	15.6	138
444	Stretchable fiber-shaped lithium metal anode. <i>Energy Storage Materials</i> , 2019 , 22, 179-184	19.4	43
443	Free-Standing Black Phosphorus Thin Films for Flexible Quasi-Solid-State Micro-Supercapacitors with High Volumetric Power and Energy Density. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5938-5946	19.5	22
442	All-Solid-State Fiber Supercapacitors with Ultrahigh Volumetric Energy Density and Outstanding Flexibility. <i>Advanced Energy Materials</i> , 2019 , 9, 1802753	21.8	140
441	Bimetallic Nickel Cobalt Sulfide as Efficient Electrocatalyst for Zn-Air Battery and Water Splitting. <i>Nano-Micro Letters</i> , 2019 , 11, 2	19.5	119
440	2D carbide nanomeshes and their assembling into 3D microflowers for efficient water splitting. <i>Applied Catalysis B: Environmental</i> , 2019 , 243, 678-685	21.8	92
439	NiFe Layered Double-Hydroxide Nanosheets on a Cactuslike (Ni,Co)Se ₂ Support for Water Oxidation. <i>ACS Applied Nano Materials</i> , 2019 , 2, 325-333	5.6	11
438	(Ni,Co)Se /NiCo-LDH Core/Shell Structural Electrode with the Cactus-Like (Ni,Co)Se Core for Asymmetric Supercapacitors. <i>Small</i> , 2019 , 15, e1803895	11	50
437	Metal-organic framework-derived integrated nanoarrays for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9009-9018	13	54
436	Facile Synthesis of Chitosan-Coated Silica Nanocapsules via Interfacial Condensation Approach for Sustained Release of Vanillin. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 6171-6179	3.9	23
435	In Situ Grown Epitaxial Heterojunction Exhibits High-Performance Electrocatalytic Water Splitting. <i>Advanced Materials</i> , 2018 , 30, e1705516	24	273
434	Self-Powered Water-Splitting Devices by Core-Shell NiFe@N-Graphite-Based Zn-Air Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1706928	15.6	104

433	TMD-based highly efficient electrocatalysts developed by combined computational and experimental approaches. <i>Chemical Society Reviews</i> , 2018 , 47, 4332-4356	58.5	154
432	Hollow Mo-doped CoP nanoarrays for efficient overall water splitting. <i>Nano Energy</i> , 2018 , 48, 73-80	17.1	418
431	Control of Synaptic Plasticity Learning of Ferroelectric Tunnel Memristor by Nanoscale Interface Engineering. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12862-12869	9.5	69
430	MOF-derived nanohybrids for electrocatalysis and energy storage: current status and perspectives. <i>Chemical Communications</i> , 2018 , 54, 5268-5288	5.8	177
429	Hypophosphite hybrid perovskites: a platform for unconventional tilts and shifts. <i>Chemical Communications</i> , 2018 , 54, 3751-3754	5.8	40
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1 Single metal atoms catalysts Promising candidates for next generation energy storage and conversion devices. *EcoMat*,

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