

Hong Liu

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.

557
papers

26,996
citations

78
h-index

143
g-index

583
ext. papers

31,690
ext. citations

8.9
avg, IF

7.41
L-index

#	Paper	IF	Citations
557	A wafer-scale two-dimensional platinum monosulfide ultrathin film via metal sulfurization for high performance photoelectronics. <i>Materials Advances</i> , 2022 , 3, 1497-1505	3.3	5
556	Poly-L-Lysine-Modified Graphene Field-Effect Transistor Biosensors for Ultrasensitive Breast Cancer miRNAs and SARS-CoV-2 RNA Detection.. <i>Analytical Chemistry</i> , 2022 ,	7.8	10
555	Underfocus Laser Induced Ni Nanoparticles Embedded Metallic MoN Microrods as Patterned Electrode for Efficient Overall Water Splitting.. <i>Advanced Science</i> , 2022 , e2105869	13.6	6
554	Regulation of Neural Differentiation of ADMSCs using Graphene-Mediated Wireless-Localized Electrical Signals Driven by Electromagnetic Induction.. <i>Advanced Science</i> , 2022 , e2104424	13.6	4
553	Applications of nanogenerators for biomedical engineering and healthcare systems. <i>Informa Materly</i> , 2022 , 4,	23.1	13
552	Stemness Maintenance and Massproduction of Neural Stem Cells on Poly L-Lactic Acid Nanofibrous Membrane Based on Piezoelectriceffect.. <i>Small</i> , 2022 , e2107236	11	1
551	Biomimetic Metal-Organic Frameworks as Targeted Vehicles to Enhance Osteogenesis.. <i>Advanced Healthcare Materials</i> , 2022 , e2102821	10.1	6
550	Growth of large size near-stoichiometric lithium niobate single crystals with low coercive field for manufacturing high quality periodically poled lithium niobate. <i>Optical Materials</i> , 2022 , 125, 112058	3.3	0
549	Electrochemically Exfoliated Chlorine-doped Graphene for Flexible All-Solid-State Micro-Supercapacitors with High Volumetric Energy Density.. <i>Advanced Materials</i> , 2022 , e2106309	24	2
548	Synergistic coupling of NiFeZn-OH nanosheet network arrays on a hierarchical porous NiZn/Ni heterostructure for highly efficient water splitting. <i>Science China Materials</i> , 2022 , 65, 1207-1216	7.1	1
547	High-performance electronics and optoelectronics of monolayer tungsten diselenide full film from pre-seeding strategy. <i>Informa Materly</i> , 2021 , 3, 1455	23.1	7
546	Graphene oxide-graphene Van der Waals heterostructure transistor biosensor for SARS-CoV-2 protein detection.. <i>Talanta</i> , 2021 , 240, 123197	6.2	9
545	Regulation of stem cell fate using nanostructure-mediated physical signals. <i>Chemical Society Reviews</i> , 2021 , 50, 12828-12872	58.5	6
544	Surface specifically modified NK-92 cells with CD56 antibody conjugated superparamagnetic FeO nanoparticles for magnetic targeting immunotherapy of solid tumors. <i>Nanoscale</i> , 2021 , 13, 19109-19122	7.7	2
543	Development of Conductive Hydrogels for Fabricating Flexible Strain Sensors. <i>Small</i> , 2021 , e2101518	11	25
542	An Ultrarobust and High-Performance Rotational Hydrodynamic Triboelectric Nanogenerator Enabled by Automatic Mode Switching and Charge Excitation. <i>Advanced Materials</i> , 2021 , e2105882	24	23
541	Graphene Biodevices for Early Disease Diagnosis Based on Biomarker Detection. <i>ACS Sensors</i> , 2021 , 6, 3841-3881	9.2	7

540	Piezotronic effect determined neuron-like differentiation of adult stem cells driven by ultrasound. <i>Nano Energy</i> , 2021 , 90, 106634	17.1	3
539	Attomolar-Level Ultrasensitive and Multiplex microRNA Detection Enabled by a Nanomaterial Locally Assembled Microfluidic Biochip for Cancer Diagnosis. <i>Analytical Chemistry</i> , 2021 , 93, 5129-5136	7.8	18
538	Synthesis of Wafer-Scale Graphene with Chemical Vapor Deposition for Electronic Device Applications. <i>Advanced Materials Technologies</i> , 2021 , 6, 2000744	6.8	16
537	Multi-interface collaboration of graphene cross-linked NiS-NiS ₂ -Ni ₃ S ₄ polymorph foam towards robust hydrogen evolution in alkaline electrolyte. <i>Nano Research</i> , 2021 , 14, 4857	10	17
536	Steering spatially separated dual sites on nano-TiO ₂ through SMSI and lattice matching for robust photocatalytic hydrogen evolution. <i>Chinese Chemical Letters</i> , 2021 , 32, 3613-3613	8.1	2
535	Spatiotemporal Oscillation in Confined Epithelial Motion upon Fluid-to-Solid Transition. <i>ACS Nano</i> , 2021 , 15, 7618-7627	16.7	2
534	Real-Time Tracking of Emitter Generation in a Zero-Dimensional Perovskite. <i>Chemistry of Materials</i> , 2021 , 33, 3721-3728	9.6	10
533	Performance-Enhanced CsPbBr ₃ /HfO ₂ /Si Heterostructure Optoelectronics through the Tunneling Effect. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100279	4.6	
532	Wireless Localized Electrical Stimulation Generated by an Ultrasound-Driven Piezoelectric Discharge Regulates Proinflammatory Macrophage Polarization. <i>Advanced Science</i> , 2021 , 8, 2100962	13.6	8
531	Electron Spin Polarization-Enhanced Photoinduced Charge Separation in Ferromagnetic ZnFe ₂ O ₄ . <i>ACS Energy Letters</i> , 2021 , 6, 2129-2137	20.1	4
530	Ultrasensitive and stable all graphene field-effect transistor-based Hg ²⁺ sensor constructed by using different covalently bonded RGO films assembled by different conjugate linking molecules. <i>SmartMat</i> , 2021 , 2, 213-225	22.8	11
529	Applications of 2D-Layered Palladium Diselenide and Its van der Waals Heterostructures in Electronics and Optoelectronics. <i>Nano-Micro Letters</i> , 2021 , 13, 143	19.5	18
528	Unilateral Silver-Loaded Silk Fibroin Difunctional Membranes as Antibacterial Wound Dressings. <i>ACS Omega</i> , 2021 , 6, 17555-17565	3.9	2
527	Hydroxyapatite Nanorods Function as Safe and Effective Growth Factors Regulating Neural Differentiation and Neuron Development. <i>Advanced Materials</i> , 2021 , 33, e2100895	24	7
526	MoC nanoclusters anchored Ni@N-doped carbon nanotubes coated on carbon fiber as three-dimensional and multifunctional electrodes for flexible supercapacitor and self-heating device 2021 , 3, 129-141		9
525	Non-thermal radiation heating synthesis of nanomaterials. <i>Science Bulletin</i> , 2021 , 66, 386-406	10.6	9
524	Integrating NiMoO wafer as a heterogeneous Turbocore for engineering robust Ru-based electrocatalyst for overall water splitting. <i>Chemical Engineering Journal</i> , 2021 , 420, 127686	14.7	6
523	Nanocellulose-Reinforced Hydroxyapatite Nanobelt Membrane as a Stem Cell Multi-Lineage Differentiation Platform for Biomimetic Construction of Bioactive 3D Osteoid Tissue In Vitro. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2001851	10.1	6

522	Synthesis of CdS/MoS ₂ Nanooctahedrons Heterostructure with a Tight Interface for Enhanced Photocatalytic H ₂ Evolution and Biomass Upgrading. <i>Solar Rrl</i> , 2021 , 5, 2000415	7.1	10
521	Revisiting the nanocrystal formation process of zero-dimensional perovskite. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 4658-4663	13	11
520	Efficient Photocatalytic Degradation of RhB by Constructing Sn ₃ O ₄ Nanoflakes on Sulfur-Doped NaTaO ₃ Nanocubes. <i>Crystals</i> , 2021 , 11, 59	2.3	4
519	Cu ₂ S/BiVO ₄ Heterostructure Photoanode with Extended Wavelength Range for Efficient Water Splitting. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 15890-15898	3.8	3
518	Biomaterial Cues Regulated Differentiation of Neural Stem Cells into GABAergic Neurons through Ca/c-Jun/TLX3 Signaling Promoted by Hydroxyapatite Nanorods. <i>Nano Letters</i> , 2021 , 21, 7371-7378	11.5	3
517	Ag Nanoparticles Anchored on Nanoporous Ge Skeleton as High-Performance Anode for Lithium-ion Batteries. <i>Chinese Journal of Chemistry</i> , 2021 , 39, 2881-2888	4.9	1
516	Constructing van der Waals Heterogeneous Photocatalysts Based on Atomically Thin Carbon Nitride Sheets and Graphdiyne for Highly Efficient Photocatalytic Conversion of CO into CO. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 40629-40637	9.5	12
515	Ultrasonic-driven electrical signal-iron ion synergistic stimulation based on piezotronics induced neural differentiation of mesenchymal stem cells on FeOOH/PVDF nanofibrous hybrid membrane. <i>Nano Energy</i> , 2021 , 87, 106192	17.1	7
514	Multi-interfacial engineering of hierarchical CoNi ₂ S ₄ /WS ₂ /Co ₉ S ₈ hybrid frameworks for robust all-pH electrocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120455	21.8	18
513	Large area uniform Pt _x synthesis on sapphire substrate for performance improved photodetectors. <i>Applied Materials Today</i> , 2021 , 25, 101176	6.6	4
512	Strategies of structural and defect engineering for high-performance rechargeable aqueous zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 19245-19281	13	9
511	Nanostructured Black Aluminum Prepared by Laser Direct Writing as a High-Performance Plasmonic Absorber for Photothermal/Electric Conversion. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4305-4315	9.5	11
510	Excitation Management of Lead-Free Perovskite Nanocrystals Through Doping. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 6404-6410	9.5	10
509	In Situ Electrochemical Transformation Reaction of Ammonium-Anchored Heptavanadate Cathode for Long-Life Aqueous Zinc-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 5034-5043	9.5	17
508	Endowing Polyetheretherketone Implants with Osseointegration Properties: In Situ Construction of Patterned Nanorod Arrays.. <i>Small</i> , 2021 , e2105589	11	5
507	Microstructure and domain engineering of lithium niobate crystal films for integrated photonic applications. <i>Light: Science and Applications</i> , 2020 , 9, 197	16.7	25
506	Temperature dependent domain-wall moving dynamics of lithium niobate during high electric field periodic poling. <i>Journal of Applied Physics</i> , 2020 , 128, 224101	2.5	1
505	Fabrication of a Sensitive Strain and Pressure Sensor from Gold Nanoparticle-Assembled 3D-Interconnected Graphene Microchannel-Embedded PDMS. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 51854-51863	9.5	19

504	Addressable surface engineering for N-doped WS nanosheet arrays with abundant active sites and the optimal local electronic structure for enhanced hydrogen evolution reaction. <i>Nanoscale</i> , 2020 , 12, 22541-22550	7.7	10
503	Low Lattice Mismatch InSeSe Vertical Van der Waals Heterostructure for High-performance Transistors via Strong Fermi-Level Depinning. <i>Small Methods</i> , 2020 , 4, 2000238	12.8	11
502	Tunable Layered (Na,Mn)VO ₂ HO Cathode Material for High-Performance Aqueous Zinc Ion Batteries. <i>Advanced Science</i> , 2020 , 7, 2000083	13.6	57
501	Alkali titanate nanobelts-supported Pd catalysts for room temperature formaldehyde oxidation. <i>Catalysis Communications</i> , 2020 , 142, 106034	3.2	3
500	Tailoring the ruthenium reactive sites on N doped molybdenum carbide nanosheets via the anti-Ostwald ripening as efficient electrocatalyst for hydrogen evolution reaction in alkaline media. <i>Applied Catalysis B: Environmental</i> , 2020 , 277, 119236	21.8	47
499	Construction of High Field-Effect Mobility Multilayer MoS ₂ Field-Effect Transistors with Excellent Stability through Interface Engineering. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 2132-2140	4	14
498	Novel (Ni, Fe)S ₂ /(Ni, Fe)S ₄ solid solution hybrid: an efficient electrocatalyst with robust oxygen-evolving performance. <i>Science China Chemistry</i> , 2020 , 63, 1030-1039	7.9	8
497	Self-reduction derived nickel nanoparticles in CdS/Ni(OH) ₂ heterostructure for enhanced photocatalytic hydrogen evolution. <i>Journal of Chemical Physics</i> , 2020 , 152, 214701	3.9	7
496	Water Splitting: From Electrode to Green Energy System. <i>Nano-Micro Letters</i> , 2020 , 12, 131	19.5	106
495	Unsymmetrical Alveolate PMMA/MWCNT Film as a Piezoresistive E-Skin with Four-Dimensional Resolution and Application for Detecting Motion Direction and Airflow Rate. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 30896-30904	9.5	15
494	Assembling Sn ₃ O ₄ nanostructures on a hydrophobic PVDF film through metal-F coordination to construct a piezotronic effect-enhanced Sn ₃ O ₄ /PVDF hybrid photocatalyst. <i>Nano Energy</i> , 2020 , 72, 104688	17.1	24
493	Phosphorus-Doped Iron Nitride Nanoparticles Encapsulated by Nitrogen-Doped Carbon Nanosheets on Iron Foam In Situ Derived from <i>Saccharomyces Cerevisiae</i> for Electrocatalytic Overall Water Splitting. <i>Small</i> , 2020 , 16, e2001980	11	15
492	A Universal Process: Self-Templated and Orientated Fabrication of XMoO (X: Ni, Co, or Fe) Nanosheets on MoO Nanoplates as Electrocatalysts for Efficient Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 33785-33794	9.5	8
491	Energy-efficient, fully flexible, high-performance tactile sensor based on piezotronic effect: Piezoelectric signal amplified with organic field-effect transistors. <i>Nano Energy</i> , 2020 , 76, 105050	17.1	30
490	Designing a bioinspired synthetic tree by unidirectional freezing for simultaneous solar steam generation and salt collection. <i>EcoMat</i> , 2020 , 2, e12018	9.4	31
489	Commercially Available CuO Catalyzed Hydrogenation of Nitroarenes Using Ammonia Borane as a Hydrogen Source. <i>ChemCatChem</i> , 2020 , 12, 2426-2430	5.2	13
488	Electromagnetic induction derived micro-electric potential in metal-semiconductor core-shell hybrid nanostructure enhancing charge separation for high performance photocatalysis. <i>Nano Energy</i> , 2020 , 71, 104624	17.1	25
487	WSe ₂ 2D p-type semiconductor-based electronic devices for information technology: Design, preparation, and applications. <i>Information Materials</i> , 2020 , 2, 656-697	23.1	49

486	Homogeneous Chitosan/Graphene Oxide Nanocomposite Hydrogel-Based Actuator Driven by Efficient Photothermally Induced Water Gradients. <i>ACS Applied Nano Materials</i> , 2020 , 3, 1002-1009	5.6	12
485	A Facile and Sensitive DNA Sensing of Harmful Algal Blooms Based on Graphene Oxide Nanosheets. <i>Marine Biotechnology</i> , 2020 , 22, 498-510	3.4	3
484	Puffing quaternary Fe _x CoyNi _{1-x-y} P nanoarray via kinetically controlled alkaline etching for robust overall water splitting. <i>Science China Materials</i> , 2020 , 63, 1054-1064	7.1	21
483	Ultrasensitive Label-free MiRNA Sensing Based on a Flexible Graphene Field-Effect Transistor without Functionalization. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1090-1098	4	32
482	Realization of Low Latent Heat of a Solar Evaporator via Regulating the Water State in Wood Channels. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 18504-18511	9.5	37
481	Nonoxidized MXene Quantum Dots Prepared by Microexplosion Method for Cancer Catalytic Therapy. <i>Advanced Functional Materials</i> , 2020 , 30, 2000308	15.6	40
480	Support-free 3D hierarchical nanoporous Cu@Cu ₂ O for fast tandem ammonia borane dehydrogenation and nitroarenes hydrogenation under mild conditions. <i>Journal of Alloys and Compounds</i> , 2020 , 815, 152372	5.7	16
479	A method to visually observe the degradation-diffusion-reconstruction behavior of hydroxyapatite in the bone repair process. <i>Acta Biomaterialia</i> , 2020 , 101, 554-564	10.8	13
478	Micro-/Nanostructured Interface for Liquid Manipulation and Its Applications. <i>Small</i> , 2020 , 16, e190384911		39
477	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
476	Piezopotential gated two-dimensional InSe field-effect transistor for designing a pressure sensor based on piezotronic effect. <i>Nano Energy</i> , 2020 , 70, 104457	17.1	16
475	Highly Morphology-Controllable and Highly Sensitive Capacitive Tactile Sensor Based on Epidermis-Dermis-Inspired Interlocked Asymmetric-Nanocone Arrays for Detection of Tiny Pressure. <i>Small</i> , 2020 , 16, e1904774	11	67
474	One-pot synthesis of BiOCl nanosheets with dual functional carbon for ultra-highly efficient photocatalytic degradation of RhB. <i>Environmental Research</i> , 2020 , 182, 109077	7.9	17
473	Microflowers Comprised of Cu/Cu _x O/NC Nanosheets as Electrocatalysts and Horseradish Peroxidase Mimics. <i>ACS Applied Nano Materials</i> , 2020 , 3, 617-623	5.6	13
472	One-Step Sublimation and Epitaxial Growth of CdS-Cd Heterogeneous Nanoparticles on S-Doped MoO Nanosheets for Efficient Visible Light-Driven Photocatalytic H ₂ Generation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 2362-2369	9.5	14
471	Photoluminescence Origin of Zero-Dimensional Cs ₄ PbBr ₆ Perovskite. <i>ACS Energy Letters</i> , 2020 , 5, 87-99	20.1	62
470	Nanotextured silk fibroin/hydroxyapatite biomimetic bilayer tough structure regulated osteogenic/chondrogenic differentiation of mesenchymal stem cells for osteochondral repair. <i>Cell Proliferation</i> , 2020 , 53, e12917	7.9	9
469	Construction of High Stable All-Graphene-Based FETs as Highly Sensitive Dual-Signal miRNA Sensors by a Covalent Layer-by-Layer Assembling Method. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000731	6.4	4

468	Morphology-dependent highly active microcrystalline stannous oxalate photocatalysts with selectively exposed facets and low specific surface areas. <i>Applied Surface Science</i> , 2020 , 525, 146347	6.7	5
467	Active facet regulation of highly aligned molybdenum carbide porous octahedrons via crystal engineering for hydrogen evolution reaction. <i>Nano Energy</i> , 2020 , 77, 105056	17.1	19
466	Charge Redistribution Caused by S,P Synergistically Active Ru Endows an Ultrahigh Hydrogen Evolution Activity of S-Doped RuP Embedded in N,P,S-Doped Carbon. <i>Advanced Science</i> , 2020 , 7, 2001526	13.6	32
465	Role of carrier-transfer in the optical nonlinearity of graphene/BiTe heterojunctions. <i>Nanoscale</i> , 2020 , 12, 16956-16966	7.7	7
464	Calcium ion pinned vanadium oxide cathode for high-capacity and long-life aqueous rechargeable zinc-ion batteries. <i>Science China Chemistry</i> , 2020 , 63, 1767-1776	7.9	25
463	Weaker Interactions in Zn ²⁺ and Organic Ion-pre-intercalated Vanadium Oxide toward Highly Reversible Zinc-ion Batteries. <i>Energy and Environmental Materials</i> , 2020 ,	13	20
462	Reduction of the ambient effect in multilayer InSe transistors and a strategy toward stable 2D-based optoelectronic applications. <i>Nanoscale</i> , 2020 , 12, 18356-18362	7.7	4
461	A Microorganism Bred TiO/Au/TiO Heterostructure for Whispering Gallery Mode Resonance Assisted Plasmonic Photocatalysis. <i>ACS Nano</i> , 2020 , 14, 13876-13885	16.7	16
460	Topographical regulation of stem cell differentiation by plant-derived micro/nanostructures. <i>Nanoscale</i> , 2020 , 12, 18305-18312	7.7	5
459	Self-supporting Co _{0.85} Se nanosheets anchored on Co plate as highly efficient electrocatalyst for hydrogen evolution reaction in both acidic and alkaline media. <i>Nano Research</i> , 2020 , 13, 2950-2957	10	9
458	Engineered Microstructure Derived Hierarchical Deformation of Flexible Pressure Sensor Induces a Supersensitive Piezoresistive Property in Broad Pressure Range. <i>Advanced Science</i> , 2020 , 7, 2000154	13.6	35
457	TiO ₂ particles wrapped onto macroporous germanium skeleton as high performance anode for lithium-ion batteries. <i>Chemical Engineering Journal</i> , 2020 , 381, 122649	14.7	35
456	Fabrication of a uniform Au nanodot array/monolayer graphene hybrid structure for high-performance surface-enhanced Raman spectroscopy. <i>Journal of Materials Science</i> , 2020 , 55, 591-602	4.3	12
455	Ni-Ni ₃ P nanoparticles embedded into N, P-doped carbon on 3D graphene frameworks via in situ phosphatization of saccharomyces with multifunctional electrodes for electrocatalytic hydrogen production and anodic degradation. <i>Applied Catalysis B: Environmental</i> , 2020 , 261, 118147	21.8	54
454	Metallic Ni ₃ Mo ₃ N Porous Microrods with Abundant Catalytic Sites as Efficient Electrocatalyst for Large Current Density and Superstability of Hydrogen Evolution Reaction and Water Splitting. <i>Applied Catalysis B: Environmental</i> , 2020 , 272, 118956	21.8	68
453	Neuron-like cell differentiation of hADSCs promoted by a copper sulfide nanostructure mediated plasmonic effect driven by near-infrared light. <i>Nanoscale</i> , 2020 , 12, 9833-9841	7.7	4
452	Advancing Versatile Ferroelectric Materials Toward Biomedical Applications. <i>Advanced Science</i> , 2020 , 8, 2003074	13.6	15
451	Ultrasensitive Physical, Bio, and Chemical Sensors Derived from 1-, 2-, and 3-D Nanocellulosic Materials. <i>Small</i> , 2020 , 16, e1906567	11	78

450	General Approach to the Synthesis of Heterodimers of Metal Nanoparticles through Site-Selected Protection and Growth. <i>Nano Letters</i> , 2019 , 19, 6703-6708	11.5	32
449	Graphene Nanostructure-Based Tactile Sensors for Electronic Skin Applications. <i>Nano-Micro Letters</i> , 2019 , 11, 71	19.5	58
448	N-Doped MoC Nanobelts/Graphene Nanosheets Bonded with Hydroxy Nanocellulose as Flexible and Editable Electrode for Hydrogen Evolution Reaction. <i>IScience</i> , 2019 , 19, 1090-1100	6.1	28
447	Piezoelectric Microchip for Cell Lysis through Cell-Microparticle Collision within a Microdroplet Driven by Surface Acoustic Wave Oscillation. <i>Small</i> , 2019 , 15, e1804593	11	11
446	Hybrid nanostructures of pit-rich TiO nanocrystals with Ru loading and N doping for enhanced solar water splitting. <i>Chemical Communications</i> , 2019 , 55, 2781-2784	5.8	10
445	Enhanced catalytic performance by multi-field coupling in KNbO ₃ nanostructures: Piezo-photocatalytic and ferro-photoelectrochemical effects. <i>Nano Energy</i> , 2019 , 58, 695-705	17.1	123
444	Synthesis and characterization of a coaxial carbon-TiO ₂ nanotube arrays film with spectral response from UV to NIR and its application in solar energy conversion. <i>Electrochimica Acta</i> , 2019 , 301, 325-331	6.7	10
443	Facile synthesis of hierarchical porous NiCoSeO networks with controllable composition as a new and efficient water oxidation catalyst. <i>Nanoscale</i> , 2019 , 11, 3268-3274	7.7	17
442	Facile approach for the periodic poling of MgO-doped lithium niobate with liquid electrodes. <i>CrystEngComm</i> , 2019 , 21, 941-947	3.3	4
441	A Facile and Effective Method for Patching Sulfur Vacancies of WS via Nitrogen Plasma Treatment. <i>Small</i> , 2019 , 15, e1901791	11	26
440	A three-dimensional multilevel nanoporous NiCoO ₂ /Ni hybrid for highly reversible electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16222-16230	13	52
439	Ultrafine Si nanowires/Sn ₃ O ₄ nanosheets 3D hierarchical heterostructured array as a photoanode with high-efficient photoelectrocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2019 , 256, 117798	21.8	30
438	Encapsulation of a Phase-Change Material in Nanocapsules with a Well-Defined Hole in the Wall for the Controlled Release of Drugs. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10606-10611	16.4	69
437	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
436	Graphene quantum dots modified nanoporous SiAl composite as an advanced anode for lithium storage. <i>Electrochimica Acta</i> , 2019 , 318, 228-235	6.7	23
435	Two-photon absorption within layered Bi ₂ Te ₃ topological insulators and the role of nonlinear transmittance therein. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 7027-7034	7.1	18
434	Oxygen-incorporated MoX (X: S, Se or P) nanosheets via universal and controlled electrochemical anodic activation for enhanced hydrogen evolution activity. <i>Nano Energy</i> , 2019 , 62, 338-347	17.1	66
433	Confined distribution of platinum clusters on MoO ₂ hexagonal nanosheets with oxygen vacancies as a high-efficiency electrocatalyst for hydrogen evolution reaction. <i>Nano Energy</i> , 2019 , 62, 127-135	17.1	86

432	Tuning Long-Lived Mn(II) Upconversion Luminescence through Alkaline-Earth Metal Doping and Energy-Level Tailoring. <i>Advanced Optical Materials</i> , 2019 , 7, 1900519	8.1	16
431	High-Performance Symmetric Supercapacitor Constructed Using Carbon Cloth Boosted by Engineering Oxygen-Containing Functional Groups. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 18044-18050	9.5	61
430	Compact all-fiber polarization-independent up-conversion single-photon detector. <i>Optics Communications</i> , 2019 , 441, 185-189	2	5
429	Using cellulose fibers to fabricate transparent paper by microfibrillation. <i>Carbohydrate Polymers</i> , 2019 , 214, 26-33	10.3	22
428	Photoresponsive nanostructure assisted green synthesis of organics and polymers. <i>Applied Catalysis B: Environmental</i> , 2019 , 249, 172-210	21.8	25
427	Plasmon enhanced upconverting core@triple-shell nanoparticles as recyclable panchromatic initiators (blue to infrared) for radical polymerization. <i>Nanoscale Horizons</i> , 2019 , 4, 907-917	10.8	17
426	Ru@Ni@NiO@NiO ₂ and NiO@NiO ₂ Synthesized via Environment-Friendly and Solid-Phase Phosphating Process by Saccharomyces as N/P Sources and Carbon Template for Overall Water Splitting in Acid Electrolyte. <i>Advanced Functional Materials</i> , 2019 , 29, 1901154	15.6	78
425	Ni-Co-N hybrid porous nanosheets on graphene paper for flexible and editable asymmetric all-solid-state supercapacitors. <i>Nano Energy</i> , 2019 , 61, 18-26	17.1	79
424	Hierarchical microsphere of MoNi porous nanosheets as electrocatalyst and cocatalyst for hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2019 , 249, 98-105	21.8	63
423	Metal Halide Perovskite Nanosheet for X-ray High-Resolution Scintillation Imaging Screens. <i>ACS Nano</i> , 2019 , 13, 2520-2525	16.7	218
422	Efficient photo-electrochemical water splitting based on hematite nanorods doped with phosphorus. <i>Applied Catalysis B: Environmental</i> , 2019 , 248, 388-393	21.8	43
421	Piezoelectric nylon-11 nanoparticles with ultrasound assistance for high-efficiency promotion of stem cell osteogenic differentiation. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 1847-1854	7.3	17
420	Stable InSe transistors with high-field effect mobility for reliable nerve signal sensing. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	18
419	Progress in miRNA Detection Using Graphene Material-Based Biosensors. <i>Small</i> , 2019 , 15, e1901867	11	24
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4 ⁰⁷	Cellular Stemness Maintenance of Human Adipose-Derived Stem Cells on ZnO Nanorod Arrays. <i>Small</i> , 2019 , 15, e1904099	11	15
4 ⁰⁶	Stem Cell Fate: Effect of Hydroxyapatite Nanorods on the Fate of Human Adipose-Derived Stem Cells Assessed In Situ at the Single Cell Level with a High-Throughput, Real-Time Microfluidic Chip (Small 51/2019). <i>Small</i> , 2019 , 15, 1970279	11	1
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