Zheng Liu

List of Publications by Year in Descending Order

466 papers	53,464 citations	110 h-index	223 g-index
506 ext. papers	61,821 ext. citations	13.1 avg, IF	7.72 L-index

#	Paper	IF	Citations
466	Ultralow-Threshold and High-Quality Whispering-Gallery-Mode Lasing from Colloidal Core/Hybrid-Shell Quantum Wells.. *Advanced Materials*, **2022**, e2108884	24	5
465	Recent progress in the synthesis of novel two-dimensional van der Waals materials.. *National Science Review*, **2022**, 9, nwab164	10.8	10
464	Enhancing hydrovoltaic power generation through heat conduction effects.. *Nature Communications*, **2022**, 13, 1043	17.4	3
463	Amorphizing noble metal chalcogenide catalysts at the single-layer limit towards hydrogen production. *Nature Catalysis*, **2022**, 5, 212-221	36.5	14
462	Direct growth of single-metal-atom chains **2022**, 1, 245-253		1
461	Efficient and Selective CO Reduction to Formate on Pd-Doped Pb (CO) (OH) : Dynamic Catalyst Reconstruction and Accelerated CO Protonation.. *Small*, **2022**, e2107885	11	1
460	Enhanced Versatility of Table-Top X-Rays from Van der Waals Structures.. *Advanced Science*, **2022**, e2105401	15.1	2
459	Ultralow-Threshold and High-Quality Whispering-Gallery-Mode Lasing from Colloidal Core/Hybrid-Shell Quantum Wells (Adv. Mater. 13/2022). *Advanced Materials*, **2022**, 34, 2270104	24	1
458	Nanowire-to-Nanoribbon Conversion in Transition-Metal Chalcogenides: Implications for One-Dimensional Electronics and Optoelectronics. *ACS Applied Nano Materials*, **2022**, 5, 1775-1782	5.6	2
457	Phase engineering of Cr5Te8 with colossal anomalous Hall effect. *Nature Electronics*, **2022**, 5, 224-232	28.4	10
456	Chemical Vapor Deposition Synthesis of Two-dimensional Bi₂O₂Se on Silicon Substrate and its Photodetecting Application. *Wuli Xuebao/Acta Physica Sinica*, **2022**,	0.6	
455	Electronegativity Induced Charge Balancing to Boost Stability and Activity of Amorphous Electrocatalyst.. *Advanced Materials*, **2021**, e2100537	24	6
454	Epitaxial Growth of Step-Like Cr S Lateral Homojunctions Towards Versatile Conduction Polarities and Enhanced Transistor Performances. *Small*, **2021**, e2105744	11	3
453	Controllable growth of two-dimensional materials on noble metal substrates.. *IScience*, **2021**, 24, 103432	6.1	2
452	Versatile Post-Doping toward Two-Dimensional Semiconductors. *ACS Nano*, **2021**,	16.7	4
451	Anisotropic point defects in rhenium diselenide monolayers. *IScience*, **2021**, 24, 103456	6.1	0
450	Thickness dependent properties of ultrathin perovskite nanosheets with Ruddlesden-Popper-like atomic stackings. *Nanoscale*, **2021**, 13, 18961-18966	7.7	

449	Machine Learning Driven Synthesis of Few-Layered WTe with Geometrical Control. *Journal of the American Chemical Society*, **2021**, 143, 18103-18113	16.4	6
448	Atomically Dispersed Co -N and Fe-N Costructures Boost Oxygen Reduction Reaction in Both Alkaline and Acidic Media. *Advanced Materials*, **2021**, e2104718	24	41
447	Mimicking Neuroplasticity via Ion Migration in van der Waals Layered Copper Indium Thiophosphate. *Advanced Materials*, **2021**, e2104676	24	7
446	Electrically switchable van der Waals magnon valves. *Nature Communications*, **2021**, 12, 6279	17.4	4
445	Discovery of Dome-Shaped Superconducting Phase and Anisotropic Transport in a van der Waals Layered Candidate NbIrTe under Pressure. *Advanced Science*, **2021**, e2103250	13.6	3
444	2D/2D atomic double-layer WS2/Nb2O5 shell/core nanosheets with ultrafast interfacial charge transfer for boosting photocatalytic H2 evolution. *Chinese Chemical Letters*, **2021**, 32, 3128-3128	8.1	5
443	Many-Body Effect on Optical Properties of Monolayer Molybdenum Diselenide. *Journal of Physical Chemistry Letters*, **2021**, 12, 2555-2561	6.4	6
442	Direct Laser Patterning of a 2D WSe2 Logic Circuit. *Advanced Functional Materials*, **2021**, 31, 2009549	15.6	6
441	Recent Advances in Synthesis and Study of 2D Twisted Transition Metal Dichalcogenide Bilayers. *Small Structures*, **2021**, 2, 2000153	8.7	9
440	Hollow Spherical Superstructure of Carbon Nanosheets for Bifunctional Oxygen Reduction and Evolution Electrocatalysis. *Nano Letters*, **2021**, 21, 3640-3648	11.5	15
439	Controlled Growth of Large-Sized and Phase-Selectivity 2D GaTe Crystals. *Small*, **2021**, 17, e2007909	11	2
438	MoO3/MoS2 vertical heterostructures synthesized via one-step CVD process for optoelectronics. *2D Materials*, **2021**, 8, 035036	5.9	8
437	Fe/FeC Embedded in N-Doped Worm-like Porous Carbon for High-Rate Catalysis in Rechargeable Zinc-Air Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 24710-24722	9.5	3
436	Dynamical evolution of anisotropic response of type-II Weyl semimetal TaIrTe under ultrafast photoexcitation. *Light: Science and Applications*, **2021**, 10, 101	16.7	8
435	Engineering High-Spin State Cobalt Cations in Spinel Zinc Cobalt Oxide for Spin Channel Propagation and Active Site Enhancement in Water Oxidation. *Angewandte Chemie*, **2021**, 133, 14657-14665	3.6	2
434	Engineering High-Spin State Cobalt Cations in Spinel Zinc Cobalt Oxide for Spin Channel Propagation and Active Site Enhancement in Water Oxidation. *Angewandte Chemie - International Edition*, **2021**, 60, 14536-14544	16.4	27
433	PdPSe: Component-Fusion-Based Topology Designer of Two-Dimensional Semiconductor. *Advanced Functional Materials*, **2021**, 31, 2102943	15.6	8
432	Controlled Synthesis of MoWTe Atomic Layers with Emergent Quantum States. *ACS Nano*, **2021**,	16.7	2

431	A Gas-Steamed MOF Route to P-Doped Open Carbon Cages with Enhanced Zn-Ion Energy Storage Capability and Ultrastability. *Advanced Materials*, **2021**, 33, e2101698	24	28
430	In vivo sensing of rabbit cornea by terahertz technology. *Journal of Biophotonics*, **2021**, 14, e202100130	3.1	5
429	Boron Nanosheet-Supported Rh Catalysts for Hydrogen Evolution: A New Territory for the Strong Metal-Support Interaction Effect. *Nano-Micro Letters*, **2021**, 13, 138	19.5	10
428	Chemical Vapor Deposition of Superconducting FeTeSe Nanosheets. *Nano Letters*, **2021**, 21, 5338-5344	11.5	8
427	Penta-PdPSe: A New 2D Pentagonal Material with Highly In-Plane Optical, Electronic, and Optoelectronic Anisotropy. *Advanced Materials*, **2021**, 33, e2102541	24	27
426	Ultrasensitive Photodetectors Promoted by Interfacial Charge Transfer from Layered Perovskites to Chemical Vapor Deposition-Grown MoS. *Small*, **2021**, 17, e2102461	11	4
425	Cobalt nitride as a novel cocatalyst to boost photocatalytic CO2 reduction. *Nano Energy*, **2021**, 79, 105429	17.1	45
424	2D Material Based Synaptic Devices for Neuromorphic Computing. *Advanced Functional Materials*, **2021**, 31, 2005443	15.6	56
423	Ternary Ta PdS Atomic Layers for an Ultrahigh Broadband Photoresponsive Phototransistor. *Advanced Materials*, **2021**, 33, e2005607	24	25
422	2D PtS nanorectangles/g-CN nanosheets with a metal sulfide-support interaction effect for high-efficiency photocatalytic H evolution. *Materials Horizons*, **2021**, 8, 612-618	14.4	10
421	Wafer-Scale Growth of One-Dimensional Transition-Metal Telluride Nanowires. *Nano Letters*, **2021**, 21, 243-249	11.5	8
420	Flexible Au micro-array electrode with atomic-scale Au thin film for enhanced ethanol oxidation reaction. *Nano Research*, **2021**, 14, 311-319	10	0
419	Strong coupling and pressure engineering in WSe2/MoSe2 heterobilayers. *Nature Physics*, **2021**, 17, 92-98	16.2	56
418	Synaptic Devices: 2D Material Based Synaptic Devices for Neuromorphic Computing (Adv. Funct. Mater. 4/2021). *Advanced Functional Materials*, **2021**, 31, 2170022	15.6	
417	Raman scattering investigation of twisted WS2/MoS2 heterostructures: interlayer mechanical coupling versus charge transfer. *Nano Research*, **2021**, 14, 2215	10	6
416	Strain-Modulated Photoelectric Responses from a Flexible InSe/3R MoS Heterojunction. *Nano-Micro Letters*, **2021**, 13, 74	19.5	10
415	Van der Waals engineering of ferroelectric heterostructures for long-retention memory. *Nature Communications*, **2021**, 12, 1109	17.4	29
414	CVD Growth of Large-scale and Highly Crystalline 2D Chromium Telluride Nanoflakes. *ChemNanoMat*, **2021**, 7, 323-327	3.5	6

413	Interpenetrating interfaces for efficient perovskite solar cells with high operational stability and mechanical robustness. *Nature Communications*, **2021**, 12, 973	17.4	75
412	Two-step CVD synthesis of NiTe-MoSvertical junctions with improved MoStransistors performance. *Nanotechnology*, **2021**,	3.4	7
411	Polymorphism of Segmented Grain Boundaries in Two-Dimensional Transition Metal Dichalcogenides. *Nano Letters*, **2021**, 21, 6014-6021	11.5	2
410	Engineering Cocatalysts onto Low-Dimensional Photocatalysts for CO2 Reduction. *Small Structures*, **2021**, 2, 2100046	8.7	15
409	Understanding the Synergistic Effects of Cobalt Single Atoms and Small Nanoparticles: Enhancing Oxygen Reduction Reaction Catalytic Activity and Stability for Zinc-Air Batteries. *Advanced Functional Materials*, **2021**, 31, 2104735	15.6	32
408	High thermoelectric performance enabled by convergence of nested conduction bands in PbBiSe with low thermal conductivity. *Nature Communications*, **2021**, 12, 4793	17.4	15
407	MoTe: Semiconductor or Semimetal?. *ACS Nano*, **2021**,	16.7	4
406	Electronic and transport properties of TMDC planar superlattices: effective Hamiltonian approach. *Physica Scripta*, **2021**, 96, 125808	2.6	1
405	One-step synthesis of BaTiO3/CaTiO3 core-shell nanocubes by hydrothermal reaction. *Journal of Asian Ceramic Societies*, **2021**, 9, 359-365	2.4	3
404	Emerging Phases of Layered Metal Chalcogenides.. *Small*, **2021**, e2105215	11	1
403	A universal method for rapid and large-scale growth of layered crystals. *SmartMat*, **2020**, 1, e1011	22.8	23
402	Bismuth Oxychalcogenide Nanosheet: Facile Synthesis, Characterization, and Photodetector Application. *Advanced Materials Technologies*, **2020**, 5, 2000180	6.8	14
401	Enhanced performance of in-plane transition metal dichalcogenides monolayers by configuring local atomic structures. *Nature Communications*, **2020**, 11, 2253	17.4	58
400	Engineering covalently bonded 2D layered materials by self-intercalation. *Nature*, **2020**, 581, 171-177	50.4	68
399	Remote Lightening and Ultrafast Transition: Intrinsic Modulation of Exciton Spatiotemporal Dynamics in Monolayer MoS. *ACS Nano*, **2020**, 14, 6897-6905	16.7	8
398	Efficient growth and characterization of one-dimensional transition metal tellurides inside carbon nanotubes. *Nanoscale*, **2020**, 12, 17185-17190	7.7	9
397	Self-cross-linked arrays enabled flexible mechanical sensors for monitoring the body tremor. *Npj Flexible Electronics*, **2020**, 4,	10.7	7
396	Ferroelectric-field accelerated charge transfer in 2D CuInP2S6 heterostructure for enhanced photocatalytic H2 evolution. *Nano Energy*, **2020**, 76, 104972	17.1	42

395	Fabricating Dual-Atom Iron Catalysts for Efficient Oxygen Evolution Reaction: A Heteroatom Modulator Approach. *Angewandte Chemie - International Edition*, **2020**, 59, 16013-16022	16.4	60
394	Single-Atom Iron Catalysts on Overhang-Eave Carbon Cages for High-Performance Oxygen Reduction Reaction. *Angewandte Chemie*, **2020**, 132, 7454-7459	3.6	45
393	Single-Atom Iron Catalysts on Overhang-Eave Carbon Cages for High-Performance Oxygen Reduction Reaction. *Angewandte Chemie - International Edition*, **2020**, 59, 7384-7389	16.4	134
392	Versatile and scalable chemical vapor deposition of vertically aligned MoTe2 on reusable Mo foils. *Nano Research*, **2020**, 13, 2371-2377	10	2
391	Fabricating Dual-Atom Iron Catalysts for Efficient Oxygen Evolution Reaction: A Heteroatom Modulator Approach. *Angewandte Chemie*, **2020**, 132, 16147-16156	3.6	11
390	Synthesis of Atomically Thin 1T-TaSe2 with a Strongly Enhanced Charge-Density-Wave Order. *Advanced Functional Materials*, **2020**, 30, 2001903	15.6	8
389	Optogenetics inspired transition metal dichalcogenide neuristors for in-memory deep recurrent neural networks. *Nature Communications*, **2020**, 11, 3211	17.4	20
388	Strain-driven growth of ultra-long two-dimensional nano-channels. *Nature Communications*, **2020**, 11, 772	17.4	16
387	Controlled Growth of 3R Phase Tantalum Diselenide and Its Enhanced Superconductivity. *Journal of the American Chemical Society*, **2020**, 142, 2948-2955	16.4	12
386	Synthesis of Co-Doped MoS Monolayers with Enhanced Valley Splitting. *Advanced Materials*, **2020**, 32, e1906536	24	35
385	A Novel Single-Atom Electrocatalyst Ti /rGO for Efficient Cathodic Reduction in Hybrid Photovoltaics. *Advanced Materials*, **2020**, 32, e2000478	24	20
384	Oxygen doped MoS quantum dots for efficient electrocatalytic hydrogen generation. *Journal of Chemical Physics*, **2020**, 152, 134704	3.9	5
383	Effects of precursorspurity on graphene quality: Synthesis and thermoelectric effect. *AIP Advances* , **2020**, 10, 045016	1.5	1
382	A Honeycomb-Like Bulk Superstructure of Carbon Nanosheets for Electrocatalysis and Energy Storage. *Angewandte Chemie - International Edition*, **2020**, 59, 19627-19632	16.4	50
381	A Honeycomb-Like Bulk Superstructure of Carbon Nanosheets for Electrocatalysis and Energy Storage. *Angewandte Chemie*, **2020**, 132, 19795-19800	3.6	4
380	Oxygen vacancy mediated bismuth stannate ultra-small nanoparticle towards photocatalytic CO2-to-CO conversion. *Applied Catalysis B: Environmental*, **2020**, 276, 119156	21.8	30
379	Second harmonic generation in 2D layered materials. *2D Materials*, **2020**, 7, 042002	5.9	16
378	Bond Electronegativity as Hydrogen Evolution Reaction Catalyst Descriptor for Transition Metal (TM = Mo, W) Dichalcogenides. *Chemistry of Materials*, **2020**, 32, 1224-1234	9.6	28

377	Two-dimensional materials: From mechanical properties to flexible mechanical sensors. *Informa Materiy*, **2020**, 2, 1077-1094	23.1	63
376	Carbon Microtube Aerogel Derived from Kapok Fiber: An Efficient and Recyclable Sorbent for Oils and Organic Solvents. *ACS Nano*, **2020**, 14, 595-602	16.7	61
375	Engineering grain boundaries at the 2D limit for the hydrogen evolution reaction. *Nature Communications*, **2020**, 11, 57	17.4	72
374	Controlled Fragmentation of Single-Atom-Thick Polycrystalline Graphene. *Matter*, **2020**, 2, 666-679	12.7	30
373	Dual-Metal Interbonding as the Chemical Facilitator for Single-Atom Dispersions. *Advanced Materials*, **2020**, 32, e2003484	24	40
372	A Bottom-up In-situ Preparation of Graphene-like Porous Carbon for Ultrahigh Surface Area Specific Capacitance Supercapacitors. *ChemNanoMat*, **2020**, 6, 1789-1796	3.5	
371	Air Stable Organic-Inorganic Perovskite Nanocrystals@Polymer Nanofibers and Waveguide Lasing. *Small*, **2020**, 16, e2004409	11	9
370	Terahertz Surface Emission from MoSe at the Monolayer Limit. *ACS Applied Materials & Interfaces*, **2020**, 12, 48161-48169	9.5	7
369	Strain-Engineering of Bi12O17Br2 Nanotubes for Boosting Photocatalytic CO2 Reduction **2020**, 2, 1025-1032	38	
368	Surfactant-assisted hydrothermal synthesis of MoS2 micro-pompon structure with enhanced photocatalytic performance under visible light. *Tungsten*, **2020**, 2, 203-213	4.6	15
367	Embedding Ultrafine Metal Oxide Nanoparticles in Monolayered Metal-Organic Framework Nanosheets Enables Efficient Electrocatalytic Oxygen Evolution. *ACS Nano*, **2020**, 14, 1971-1981	16.7	57
366	Two-dimensional ferromagnetism in CrTe flakes down to atomically thin layers. *Nanoscale*, **2020**, 12, 16427-16432	7.7	22
365	Pristine edge structures of T''-phase transition metal dichalcogenides (ReSe, ReS) atomic layers. *Nanoscale*, **2020**, 12, 17005-17012	7.7	6
364	Architecting a Stable High-Energy Aqueous Al-Ion Battery. *Journal of the American Chemical Society*, **2020**, 142, 15295-15304	16.4	94
363	Diffraction-limited imaging with monolayer 2D material-based ultrathin flat lenses. *Light: Science and Applications*, **2020**, 9, 137	16.7	30
362	Phase-controllable growth of ultrathin 2D magnetic FeTe crystals. *Nature Communications*, **2020**, 11, 3729	17.4	57
361	Recent Progress on 2D Transition Metal Compounds-based Electrocatalysts for Efficient Nitrogen Reduction. *Chemical Research in Chinese Universities*, **2020**, 36, 648-661	2.2	3
360	Giant and Anisotropic Nonlinear Optical Responses of 1D van der Waals Material Tellurium. *Advanced Optical Materials*, **2020**, 8, 2001273	8.1	4

359	Machine learning-guided synthesis of advanced inorganic materials. *Materials Today*, **2020**, 41, 72-80	21.8	22
358	Robust nature of the chiral spin helix in CrNb3S6 nanostructures studied by off-axis electron holography. *Physical Review B*, **2020**, 102,	3.3	4
357	Stabilization of metallic phases through formation of metallic/semiconducting lateral heterostructures. *Journal of Chemical Physics*, **2020**, 153, 084702	3.9	4
356	A Tandem 0D/2D/2D NbS Quantum Dot/Nb O Nanosheet/g-C N Flake System with Spatial Charge-Transfer Cascades for Boosting Photocatalytic Hydrogen Evolution. *Small*, **2020**, 16, e2003302	11	16
355	Machine-Learning-Driven Synthesis of Carbon Dots with Enhanced Quantum Yields. *ACS Nano*, **2020**, 14, 14761-14768	16.7	46
354	Nanovoid-driven highly crystalline aluminum nitride and its application in solar-blind UV photodetectors. *Journal of Materials Chemistry C*, **2020**, 8, 14431-14438	7.1	5
353	Bandgap engineering of two-dimensional semiconductor materials. *Npj 2D Materials and Applications*, **2020**, 4,	8.8	152
352	Atomic mechanism of metal crystal nucleus formation in a single-walled carbon nanotube. *Nature Chemistry*, **2020**, 12, 921-928	17.6	25
351	Spontaneous Emission of Plasmon-Exciton Polaritons Revealed by Ultrafast Nonradiative Decays. *Laser and Photonics Reviews*, **2020**, 14, 2000233	8.3	5
350	Space-confined microwave synthesis of ternary-layered BiOCl crystals with high-performance ultraviolet photodetection. *Informa□□Materi□y*, **2020**, 2, 593-600	23.1	25
349	Enhanced Potassium Ion Battery by Inducing Interlayer Anionic Ligands in MoS1.5Se0.5 Nanosheets with Exploration of the Mechanism. *Advanced Energy Materials*, **2020**, 10, 1904162	21.8	26
348	Scanning Moir□Fringe Method: A Superior Approach to Perceive Defects, Interfaces, and Distortion in 2D Materials. *ACS Nano*, **2020**, 14, 6034-6042	16.7	6
347	Phase Transition and Superconductivity Enhancement in Se-Substituted MoTe Thin Films. *Advanced Materials*, **2019**, 31, e1904641	24	15
346	Enhancing the cycling stability of Na-ion batteries by bonding MoS2 on assembled carbon-based materials. *Nano Materials Science*, **2019**, 1, 310-317	10.2	6
345	Epitaxial Synthesis of Monolayer PtSe Single Crystal on MoSe with Strong Interlayer Coupling. *ACS Nano*, **2019**, 13, 10929-10938	16.7	45
344	Controlled synthesis and room-temperature pyroelectricity of CuInP2S6 ultrathin flakes. *Nano Energy*, **2019**, 58, 596-603	17.1	31
343	Hydrochromic full-color MXene quantum dots through hydrogen bonding toward ultrahigh-efficiency white light-emitting diodes. *Applied Materials Today*, **2019**, 16, 90-101	6.6	50
342	Atomic Plane-Vacancy Engineering of Transition-Metal Dichalcogenides with Enhanced Hydrogen Evolution Capability. *ACS Applied Materials & Interfaces*, **2019**, 11, 25264-25270	9.5	28

341	Restoring the intrinsic optical properties of CVD-grown MoS monolayers and their heterostructures. *Nanoscale*, **2019**, 11, 12798-12803	7.7	20
340	Highly anisotropic thermoelectric properties of black phosphorus crystals. *2D Materials*, **2019**, 6, 045009	5.9	17
339	Agent-assisted VSSe ternary alloy single crystals as an efficient stable electrocatalyst for the hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2019**, 7, 15714-15721	13	14
338	Elastic Properties of 2D Ultrathin Tungsten Nitride Crystals Grown by Chemical Vapor Deposition. *Advanced Functional Materials*, **2019**, 29, 1902663	15.6	21
337	Improving Polysulfides Adsorption and Redox Kinetics by the Co N Nanoparticle/N-Doped Carbon Composites for Lithium-Sulfur Batteries. *Small*, **2019**, 15, e1901454	11	77
336	Defect-Tailoring Mediated Electron-Hole Separation in Single-Unit-Cell Bi O Br Nanosheets for Boosting Photocatalytic Hydrogen Evolution and Nitrogen Fixation. *Advanced Materials*, **2019**, 31, e1807576	24	188
335	Phase-Controlled Synthesis of Monolayer Ternary Telluride with a Random Local Displacement of Tellurium Atoms. *Advanced Materials*, **2019**, 31, e1900862	24	30
334	Origin of giant negative piezoelectricity in a layered van der Waals ferroelectric. *Science Advances*, **2019**, 5, eaav3780	14.3	74
333	Transport evidence of asymmetric spin-orbit coupling in few-layer superconducting 1T-MoTe. *Nature Communications*, **2019**, 10, 2044	17.4	39
332	Fabrication of a Spherical Superstructure of Carbon Nanorods. *Advanced Materials*, **2019**, 31, e1900440	24	63
331	A Single-Crystal Open-Capsule Metal-Organic Framework. *Journal of the American Chemical Society*, **2019**, 141, 7906-7916	16.4	106
330	Nonlinear photoresponse of type-II Weyl semimetals. *Nature Materials*, **2019**, 18, 476-481	27	104
329	Facile synthesis of oil adsorbent carbon microtubes by pyrolysis of plant tissues. *Journal of Materials Science*, **2019**, 54, 9352-9361	4.3	8
328	Anomalous Photothermoelectric Transport Due to Anisotropic Energy Dispersion in WTe. *Nano Letters*, **2019**, 19, 2647-2652	11.5	17
327	Atomically-thin Bi2MoO6 nanosheets with vacancy pairs for improved photocatalytic CO2 reduction. *Nano Energy*, **2019**, 61, 54-59	17.1	150
326	Experimental progress on layered topological semimetals. *2D Materials*, **2019**, 6, 032001	5.9	16
325	Electron transfer and cascade relaxation dynamics of graphene quantum dots/MoS2 monolayer mixed-dimensional van der Waals heterostructures. *Materials Today*, **2019**, 24, 10-16	21.8	40
324	Isolation of Single-Wired Transition-Metal Monochalcogenides by Carbon Nanotubes. *Nano Letters*, **2019**, 19, 4845-4851	11.5	31

323	Ultrathin Ruddlesden-Popper Perovskite Heterojunction for Sensitive Photodetection. *Small*, **2019**, 15, e1902890	11	27
322	Ultrawideband Surface Enhanced Raman Scattering in Hybrid Graphene Fragmented-Gold Substrates via Cold-Etching. *Advanced Optical Materials*, **2019**, 7, 1900905	8.1	6
321	New strategy towards the assembly of hierarchical heterostructures of SnO2/ZnO for NO2 detection at a ppb level. *Inorganic Chemistry Frontiers*, **2019**, 6, 2801-2809	6.8	14
320	Phosphate-Mediated Immobilization of High-Performance AuPd Nanoparticles for Dehydrogenation of Formic Acid at Room Temperature. *Advanced Functional Materials*, **2019**, 29, 1903341	15.6	40
319	Van der Waals negative capacitance transistors. *Nature Communications*, **2019**, 10, 3037	17.4	71
318	Spatially dispersive circular photogalvanic effect in a Weyl semimetal. *Nature Materials*, **2019**, 18, 955-962	27	58
317	Self-gating in semiconductor electrocatalysis. *Nature Materials*, **2019**, 18, 1098-1104	27	84
316	Bismuth Vacancy-Tuned Bismuth Oxybromide Ultrathin Nanosheets toward Photocatalytic CO Reduction. *ACS Applied Materials & Interfaces*, **2019**, 11, 30786-30792	9.5	79
315	Isolated single atom cobalt in BiOBr atomic layers to trigger efficient CO photoreduction. *Nature Communications*, **2019**, 10, 2840	17.4	177
314	Cobalt-Modulated Molybdenum-Dinitrogen Interaction in MoS for Catalyzing Ammonia Synthesis. *Journal of the American Chemical Society*, **2019**, 141, 19269-19275	16.4	119
313	Magneto-Transport and Shubnikov□de Haas Oscillations in the Type□ Weyl Semimetal Candidate NbIrTe4 Flake. *Chinese Physics Letters*, **2019**, 36, 077101	1.8	5
312	Microscopy of Nanoporous Crystals. *Springer Handbooks*, **2019**, 1391-1450	1.3	4
311	Stacking-dependent interlayer phonons in 3R and 2H MoS 2. *2D Materials*, **2019**, 6, 025022	5.9	19
310	In-plane optical anisotropy in ReS flakes determined by angle-resolved polarized optical contrast spectroscopy. *Nanoscale*, **2019**, 11, 20199-20205	7.7	19
309	Freestanding ultrathin bismuth-based materials for diversified photocatalytic applications. *Journal of Materials Chemistry A*, **2019**, 7, 25203-25226	13	56
308	Ternary chalcogenide Ta2NiS5 nanosheets for broadband pulse generation in ultrafast fiber lasers. *Nanophotonics*, **2019**, 9, 2341-2349	6.3	12
307	Dual-Mode Sensor and Actuator to Learn Human-Hand Tracking and Grasping. *IEEE Transactions on Electron Devices*, **2019**, 66, 5407-5410	2.9	13
306	In-Plane Anisotropic Thermal Conductivity of Few-Layered Transition Metal Dichalcogenide Td-WTe. *Advanced Materials*, **2019**, 31, e1804979	24	29

305	Ultrasensitive 2D Bi O Se Phototransistors on Silicon Substrates. *Advanced Materials*, **2019**, 31, e1804945	24	119
304	Direct observation of ultrafast plasmonic hot electron transfer in the strong coupling regime. *Light: Science and Applications*, **2019**, 8, 9	16.7	109
303	Ultrathin two-dimensional materials for photo- and electrocatalytic hydrogen evolution. *Materials Today*, **2018**, 21, 749-770	21.8	147
302	InSe monolayer: synthesis, structure and ultra-high second-harmonic generation. *2D Materials*, **2018**, 5, 025019	5.9	59
301	Compact-Nanobox Engineering of Transition Metal Oxides with Enhanced Initial Coulombic Efficiency for Lithium-Ion Battery Anodes. *ACS Applied Materials & Interfaces*, **2018**, 10, 8955-8964	9.5	29
300	Structure engineering: extending the length of azaacene derivatives through quinone bridges. *Journal of Materials Chemistry C*, **2018**, 6, 3628-3633	7.1	9
299	Molecular Arrangements of Corannulene and Sumanene in Single-Walled Carbon Nanotubes. *ChemNanoMat*, **2018**, 4, 557-561	3.5	5
298	Atomically thin noble metal dichalcogenide: a broadband mid-infrared semiconductor. *Nature Communications*, **2018**, 9, 1545	17.4	267
297	A library of atomically thin metal chalcogenides. *Nature*, **2018**, 556, 355-359	50.4	812
296	Broadband Anisotropic Photoresponse of the "Hydrogen Atom" Version Type-II Weyl Semimetal Candidate TaIrTe. *ACS Nano*, **2018**, 12, 4055-4061	16.7	64
295	Electron-Beam-Induced Synthesis of Hexagonal 1 H-MoSe from Square FeSe Decorated with Mo Adatoms. *Nano Letters*, **2018**, 18, 2016-2020	11.5	1
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