

Tian-You Zhai

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.

467
papers

27,028
citations

86
h-index

145
g-index

517
ext. papers

32,355
ext. citations

12.5
avg, IF

7.56
L-index

#	Paper	IF	Citations
467	Two-dimensional Organic Supramolecule via Hydrogen Bonding and π -Stacking for Ultrahigh Capacity and Long-Life Aqueous Zinc-Organic Batteries.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	12
466	2D Van der Waals Rare Earth Material Based Ratiometric Luminescence Thermography Integrated on MicroNano Devices Vertically. <i>Advanced Optical Materials</i> , 2022 , 10, 2102102	8.1	1
465	Scalable Van der Waals Encapsulation by Inorganic Molecular Crystals (Adv. Mater. 7/2022). <i>Advanced Materials</i> , 2022 , 34, 2270057	24	
464	Universal p-Type Doping via Lewis Acid for 2D Transition-Metal Dichalcogenides.. <i>ACS Nano</i> , 2022 ,	16.7	4
463	Emerging Two-Dimensional Inorganic Molecular Crystals: The Concept and Beyond.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 2173-2179	6.4	1
462	In Situ Halogen-Ion Leaching Regulates Multiple Sites on Tandem Catalysts for Efficient CO ₂ Electroreduction to C ₂ + Products.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	3
461	Dynamic investigation of battery materials via advanced visualization: from particle, electrode to cell level.. <i>Advanced Materials</i> , 2022 , e2200777	24	4
460	Programmable Polarization of 2D Anisotropic Rare Earth Material for Images Transmission and Encryption. <i>Advanced Optical Materials</i> , 2022 , 10, 2102512	8.1	2
459	Thermal Evaporation for Halide Perovskite Optoelectronics: Fundamentals, Progress, and Outlook. <i>Advanced Optical Materials</i> , 2022 , 10, 2101770	8.1	8
458	Additive-mediated intercalation and surface modification of MXenes.. <i>Chemical Society Reviews</i> , 2022 ,	58.5	9
457	Active and conductive layer stacked superlattices for highly selective CO electroreduction.. <i>Nature Communications</i> , 2022 , 13, 2039	17.4	6
456	Structural Reconstruction of Catalysts in Electroreduction Reaction: Identifying, Understanding, and Manipulating.. <i>Advanced Materials</i> , 2022 , e2110699	24	1
455	Broadband convolutional processing using band-alignment-tunable heterostructures. <i>Nature Electronics</i> , 2022 , 5, 248-254	28.4	16
454	Nanopatterning Technologies of Two-Dimensional Materials for Integrated Electronic and Optoelectronic Devices.. <i>Advanced Materials</i> , 2022 , e2200734	24	3
453	Scalable van der Waals Encapsulation by Inorganic Molecular Crystals. <i>Advanced Materials</i> , 2021 , e2106041	24	5
452	Epitaxial Growth of 2D Ultrathin Metastable β -Bi ₂ O ₃ Flakes for High Performance Ultraviolet Photodetection. <i>Small</i> , 2021 , e2104244	11	3
451	Two-dimensional metal halides. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 013002	3	1

450	Effect of Strong Intermolecular Interaction in 2D Inorganic Molecular Crystals. <i>Journal of the American Chemical Society</i> , 2021 , 143, 20192-20201	16.4	3
449	Strong In-Plane Anisotropic SiP as a IV-V 2D Semiconductor for Polarized Photodetection. <i>ACS Nano</i> , 2021 ,	16.7	9
448	Van der Waals Epitaxy of Bi Te Se/Bi O Se Vertical Heterojunction for High Performance Photodetector. <i>Small</i> , 2021 , e2105211	11	8
447	Recent Progress on Two-Dimensional Materials. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2021 , 2108017-0	3.8	69
446	2D BiSe materials for optoelectronics. <i>IScience</i> , 2021 , 24, 103291	6.1	3
445	2D Cu S /PtS /WSe Double Heterojunction Bipolar Transistor with High Current Gain. <i>Advanced Materials</i> , 2021 , 33, e2106537	24	3
444	Ultrahigh-Current-Density and Long-Term-Durability Electrocatalysts for Water Splitting. <i>Small</i> , 2021 , e2104513	11	4
443	Air-Stable 2D Cr Te Nanosheets with Thickness-Tunable Ferromagnetism. <i>Advanced Materials</i> , 2021 , e21074512	19	19
442	Recent Advances in 2D Rare Earth Materials. <i>Advanced Functional Materials</i> , 2021 , 31, 2008790	15.6	11
441	Single WTe Sheet-Based Electrocatalytic Microdevice for Directly Detecting Enhanced Activity of Doped Electronegative Anions. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 14302-14311	9.5	5
440	Low-Symmetry and Nontoxic 2D SiP with Strong Polarization-Sensitivity and Fast Photodetection. <i>Advanced Optical Materials</i> , 2021 , 9, 2100198	8.1	13
439	Synergistic Additive-Assisted Growth of 2D Ternary In SnS with Giant Gate-Tunable Polarization-Sensitive Photoresponse. <i>Small</i> , 2021 , 17, e2008078	11	8
438	The rising zinc anodes for high-energy aqueous batteries. <i>EnergyChem</i> , 2021 , 3, 100052	36.9	27
437	Recent Advances in 2D Group VB Transition Metal Chalcogenides. <i>Small</i> , 2021 , 17, e2005411	11	5
436	Broken-Gap PtS/WSe van der Waals Heterojunction with Ultrahigh Reverse Rectification and Fast Photoresponse. <i>ACS Nano</i> , 2021 , 15, 8328-8337	16.7	28
435	Hierarchical Self-Assembly of Nanowires on the Surface by Metallo-Supramolecular Truncated Cuboctahedra. <i>Journal of the American Chemical Society</i> , 2021 , 143, 5826-5835	16.4	19
434	Synthesis of 2D ternary layered manganese phosphorous trichalcogenides towards ultraviolet photodetection. <i>Science China Materials</i> , 2021 , 64, 2251-2260	7.1	7
433	2D Rare Earth Material (EuOCl) with Ultra-Narrow Photoluminescence at Room Temperature. <i>Small</i> , 2021 , 17, e2100137	11	7

432	Proximity Enhanced Hydrogen Evolution Reactivity of Substitutional Doped Monolayer WS. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 19406-19413	9.5	6
431	Van der Waals Integration Based on Two-Dimensional Materials for High-Performance Infrared Photodetectors. <i>Advanced Functional Materials</i> , 2021 , 31, 2103106	15.6	31
430	Synthesis of Large-Area Uniform MoS ₂ /WS ₂ Lateral Heterojunction Nanosheets for Photodetectors. <i>ACS Applied Nano Materials</i> , 2021 , 4, 5522-5530	5.6	6
429	Room-Temperature Magnetic Field Effect on Excitonic Photoluminescence in Perovskite Nanocrystals. <i>Advanced Materials</i> , 2021 , 33, e2008225	24	7
428	Performance enhancement of a self-powered solar-blind UV photodetector based on ZnGa ₂ O ₄ /Si heterojunction via interface pyroelectric effect. <i>Applied Physics Letters</i> , 2021 , 118, 251101	3.4	14
427	2D NbOI : A Chiral Semiconductor with Highly In-Plane Anisotropic Electrical and Optical Properties. <i>Advanced Materials</i> , 2021 , 33, e2101505	24	15
426	Emerging two-dimensional bismuth oxychalcogenides for electronics and optoelectronics. <i>Information Materials</i> , 2021 , 3, 1251	23.1	16
425	A Universal Aqueous Conductive Binder for Flexible Electrodes. <i>Advanced Functional Materials</i> , 2021 , 31, 2102284	15.6	6
424	Approaching strain limit of two-dimensional MoS ₂ via chalcogenide substitution. <i>Science Bulletin</i> , 2021 ,	10.6	4
423	Two-Dimensional Metal Chalcogenide Heterostructures: Designed Growth and Emerging Novel Applications. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100515	4.6	1
422	Highly In-Plane Anisotropic 2D PdSe ₂ for Polarized Photodetection with Orientation Selectivity. <i>Advanced Functional Materials</i> , 2021 , 31, 2006774	15.6	47
421	Overcome Debye Length Limitations for Biomolecule Sensing Based on Field Effective Transistors. <i>Chinese Journal of Chemistry</i> , 2021 , 39, 999-1008	4.9	6
420	Self-Driven WSe ₂ /Bi ₂ O ₂ Se Van der Waals Heterostructure Photodetectors with High Light On/Off Ratio and Fast Response. <i>Advanced Functional Materials</i> , 2021 , 31, 2008351	15.6	49
419	Wafer-scale vertical van der Waals heterostructures. <i>Information Materials</i> , 2021 , 3, 3-21	23.1	48
418	Band Alignment Engineering in Two-Dimensional Transition Metal Dichalcogenide-Based Heterostructures for Photodetectors. <i>Small Structures</i> , 2021 , 2, 2000136	8.7	50
417	On-site building of a Zn ²⁺ -conductive interfacial layer via short-circuit energization for stable Zn anode. <i>Science Bulletin</i> , 2021 , 66, 545-552	10.6	14
416	Recent Advances in 2D Layered Phosphorous Compounds.. <i>Small Methods</i> , 2021 , 5, e2001068	12.8	8
415	Raspberry-like mesoporous Co-doped TiO ₂ nanospheres for a high-performance formaldehyde gas sensor. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 6529-6537	13	8

414	Application of Second Harmonic Generation in Characterization of 2D Materials. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2021 , 36, 1022	1	2
413	2D Homojunctions for Electronics and Optoelectronics. <i>Advanced Materials</i> , 2021 , 33, e2005303	24	26
412	Encapsulation strategies on 2D materials for field effect transistors and photodetectors. <i>Chinese Chemical Letters</i> , 2021 ,	8.1	2
411	A Universal Atomic Substitution Conversion Strategy Towards Synthesis of Large-Size Ultrathin Nonlayered Two-Dimensional Materials. <i>Nano-Micro Letters</i> , 2021 , 13, 165	19.5	3
410	2D Metal-Organic Complex Luminescent Crystals. <i>Advanced Functional Materials</i> , 2021 , 31, 2106160	15.6	3
409	Intercalation Strategy in 2D Materials for Electronics and Optoelectronics.. <i>Small Methods</i> , 2021 , 5, e2100567	5.67	8
408	Room-Temperature Ferroelectricity in 2D Metal-Tellurium-Oxyhalide CdTeClO Selenium-Induced Selective-Bonding Growth. <i>ACS Nano</i> , 2021 , 15, 16525-16532	16.7	3
407	In Situ Phase Separation into Coupled Interfaces for Promoting CO ₂ Electroreduction to Formate over a Wide Potential Window. <i>Angewandte Chemie</i> , 2021 , 133, 23122	3.6	3
406	Gain characteristics of bipolar junction phototransistors with customized base width using ferroelectric polarization patterning. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 485104	3	1
405	In Situ Phase Separation into Coupled Interfaces for Promoting CO Electroreduction to Formate over a Wide Potential Window. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 22940-22947	16.4	12
404	Tuning Hydrogen Binding Energy by Interfacial Charge Transfer Enables pH-Universal Hydrogen Evolution Catalysis of Metal Phosphides. <i>Chemical Engineering Journal</i> , 2021 , 132699	14.7	4
403	Fusing semiconductor and nonmetal into a high conductive wide-range solid solution alloy for Li-ion batteries. <i>Energy Storage Materials</i> , 2021 , 42, 502-512	19.4	2
402	Design and tailoring of two-dimensional Schottky, PN and tunnelling junctions for electronics and optoelectronics. <i>Nanoscale</i> , 2021 , 13, 6713-6751	7.7	13
401	Discovery of Robust Ferroelectricity in 2D Defective Semiconductor β -Ga Se. <i>Small</i> , 2021 , e2105599	11	4
400	A wafer-scale van der Waals dielectric made from an inorganic molecular crystal film. <i>Nature Electronics</i> , 2021 , 4, 906-913	28.4	16
399	Dual-Regulation of Defect Sites and Vertical Conduction by Spiral Domain for Electrocatalytic Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	4
398	Honeycomb Rhl Flakes with High Environmental Stability for Optoelectronics. <i>Advanced Materials</i> , 2020 , 32, e2001979	24	18
397	Space-Confined Growth of 2D InI Showing High Sensitivity in Photodetection. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000284	6.4	9

396	In Situ Formed LiZn Alloy Skeleton for Stable Lithium Anodes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 25818-25825	9.5	10
395	Enhancement of MoTe ₂ near-infrared absorption with gold hollow nanorods for photodetection. <i>Nano Research</i> , 2020 , 13, 1636-1643	10	9
394	Ion Gel-Gated Nonvolatile Formation of Lateral MoTe ₂ Diode for Self-Powered Near-Infrared Photodetection. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 2000032	1.6	1
393	Vacancy-Rich Ni(OH) Drives the Electrooxidation of Amino C-N Bonds to Nitrile C≡N Bonds. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 16974-16981	16.4	34
392	Vacancy-Rich Ni(OH) ₂ Drives the Electrooxidation of Amino C-N Bonds to Nitrile C≡N Bonds. <i>Angewandte Chemie</i> , 2020 , 132, 17122-17129	3.6	9
391	Epitaxial Growth of Rectangle Shape MoS ₂ with Highly Aligned Orientation on Twofold Symmetry a-Plane Sapphire. <i>Small</i> , 2020 , 16, e2000596	11	26
390	The mechanism of the modulation of electronic anisotropy in two-dimensional ReS ₂ . <i>Nanoscale</i> , 2020 , 12, 8915-8921	7.7	7
389	Photophysics in Cs ₃ Cu ₂ X ₅ (X = Cl, Br, or I): Highly Luminescent Self-Trapped Excitons from Local Structure Symmetrization. <i>Chemistry of Materials</i> , 2020 , 32, 3462-3468	9.6	80
388	Facile liquid-phase exfoliated few-layer GeP nanosheets and their optoelectronic device applications. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5547-5553	7.1	10
387	Enhancing multiphoton upconversion through interfacial energy transfer in multilayered nanoparticles. <i>Nature Communications</i> , 2020 , 11, 1174	17.4	54
386	Growth of Ultrathin Ternary Teallite (PbSnS ₂) Flakes for Highly Anisotropic Optoelectronics. <i>Matter</i> , 2020 , 2, 977-987	12.7	30
385	Ultrafast and Sensitive Self-Powered Photodetector Featuring Self-Limited Depletion Region and Fully Depleted Channel with van der Waals Contacts. <i>ACS Nano</i> , 2020 , 14, 9098-9106	16.7	57
384	Band structure engineered tunneling heterostructures for high-performance visible and near-infrared photodetection. <i>Science China Materials</i> , 2020 , 63, 1537-1547	7.1	44
383	2D Inorganic Bimolecular Crystals with Strong In-Plane Anisotropy for Second-Order Nonlinear Optics. <i>Advanced Materials</i> , 2020 , 32, e2003146	24	21
382	2D CoOOH Sheet-Encapsulated NiP into Tubular Arrays Realizing 1000 mA cm ⁻² Level-Current-Density Hydrogen Evolution Over 100 h in Neutral Water. <i>Nano-Micro Letters</i> , 2020 , 12, 140	19.5	43
381	Suppression of Persistent Photoconductivity of Rubrene Crystals using Gate-Tunable Rubrene/Bi ₂ Se ₃ Diodes with Photoinduced Negative Differential Resistance. <i>Small</i> , 2020 , 16, e2002312	11	14
380	Synthesis of 2H-1T' WS ₂ -ReS ₂ Heterophase Structures with Atomically Sharp Interface via Hydrogen-Triggered One-Pot Growth. <i>Advanced Functional Materials</i> , 2020 , 30, 1910169	15.6	24
379	Lead-free monocrystalline perovskite resistive switching device for temporal information processing. <i>Nano Energy</i> , 2020 , 71, 104616	17.1	43

378	Large-Scale Ultrathin 2D Wide-Bandgap BiOBr Nanoflakes for Gate-Controlled Deep-Ultraviolet Phototransistors. <i>Advanced Materials</i> , 2020 , 32, e1908242	24	47
377	Wrapping SbTe with a Graphite Layer toward High Volumetric Energy and Long Cycle Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 16264-16275	9.5	13
376	Sub-Millimeter-Scale Monolayer p-Type H-Phase VS ₂ . <i>Advanced Functional Materials</i> , 2020 , 30, 2000240	15.6	27
375	A biomimetic-structured wood-derived carbon sponge with highly compressible and biocompatible properties for human-motion detection. <i>Informa Materials</i> , 2020 , 2, 1225-1235	23.1	16
374	Double the energy storage of hard carbon anode for Li-ion batteries via a simple blending strategy. <i>Electrochimica Acta</i> , 2020 , 336, 135729	6.7	3
373	An asymmetric hot carrier tunneling van der Waals heterostructure for multibit optoelectronic memory. <i>Materials Horizons</i> , 2020 , 7, 1331-1340	14.4	19
372	Nonlayered CdSe Flakes Homojunctions. <i>Advanced Functional Materials</i> , 2020 , 30, 1908902	15.6	18
371	Artificial Wooden Nacre: A High Specific Strength Engineering Material. <i>ACS Nano</i> , 2020 , 14, 2036-2043	16.7	24
370	2D Hybrid Superlattice-Based On-Chip Electrocatalytic Microdevice for Revealing Enhanced Catalytic Activity. <i>ACS Nano</i> , 2020 , 14, 1635-1644	16.7	20
369	Sodium-Mediated Epitaxial Growth of 2D Ultrathin Sb ₂ Se ₃ Flakes for Broadband Photodetection. <i>Advanced Functional Materials</i> , 2020 , 30, 1909849	15.6	55
368	Atomically Thin Oxyhalide Solar-Blind Photodetectors. <i>Small</i> , 2020 , 16, e2000228	11	16
367	Facilitating All-Inorganic Halide Perovskites Fabrication in Confined-Space Deposition. <i>Small Methods</i> , 2020 , 4, 2000102	12.8	10
366	Towards scalable van der Waals heterostructure arrays. <i>Rare Metals</i> , 2020 , 39, 327-329	5.5	12
365	Low-temperature growth of Three dimensional ReS ₂ /ReO ₂ metal-semiconductor heterojunctions on Graphene/polyimide film for enhanced hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2020 , 271, 118924	21.8	14
364	Giant-Enhanced SnS ₂ Photodetectors with Broadband Response through Oxygen Plasma Treatment. <i>Advanced Functional Materials</i> , 2020 , 30, 2001650	15.6	28
363	2D GeP-based photonic device for near-infrared and mid-infrared ultrafast photonics. <i>Nanophotonics</i> , 2020 , 9, 3645-3654	6.3	4
362	Single-Component MLCT-Active Photodetecting Material Based on a Two-Dimensional Coordination Polymer. <i>CCS Chemistry</i> , 2020 , 2, 655-662	7.2	6
361	Single-Component MLCT-Active Photodetecting Material Based on a Two-Dimensional Coordination Polymer. <i>CCS Chemistry</i> , 2020 , 2, 655-662	7.2	2

360	Research Progress of Surface and Interface Chemistry Regulate Two-dimensional Materials for Electrocatalytic Biomass Conversion. <i>Acta Chimica Sinica</i> , 2020 , 78, 1185	3.3	4
359	Emerging 2D Organic-Inorganic Heterojunctions. <i>Cell Reports Physical Science</i> , 2020 , 1, 100166	6.1	9
358	Intrinsic Dipole Coupling in 2D van der Waals Ferroelectrics for Gate-Controlled Switchable Rectifier. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900975	6.4	19
357	A Water Stable, Near-Zero-Strain O3-Layered Titanium-Based Anode for Long Cycle Sodium-Ion Battery. <i>Advanced Functional Materials</i> , 2020 , 30, 1907023	15.6	20
356	A Li ⁺ /Al ³⁺ Solid-State Electrolyte with High Ionic Conductivity and Good Capability to Protect Li Anode. <i>Advanced Functional Materials</i> , 2020 , 30, 1905949	15.6	31
355	Salt-Assisted Growth of P-type Cu ₉ S ₅ Nanoflakes for P-N Heterojunction Photodetectors with High Responsivity. <i>Advanced Functional Materials</i> , 2020 , 30, 1908382	15.6	21
354	Air-Stable 2D Intrinsic Ferromagnetic TaFeS with Four Months Durability. <i>Advanced Science</i> , 2020 , 7, 2001372	17.2	18
353	Two-Dimensional Antiferroelectricity in Nanostripe-Ordered In ₂ Se ₃ . <i>Physical Review Letters</i> , 2020 , 125, 047601	7.4	21
352	Two-dimensional ferromagnetism in CrTe flakes down to atomically thin layers. <i>Nanoscale</i> , 2020 , 12, 16427-16432	7.7	22
351	Miniature Hollow Gold Nanorods with Enhanced Effect for In Vivo Photoacoustic Imaging in the NIR-II Window. <i>Small</i> , 2020 , 16, e2002748	11	26
350	2D Cadmium Chalcogenides for Optoelectronics. <i>Chemical Research in Chinese Universities</i> , 2020 , 36, 493-503	2.2	2
349	A New Triclinic Phase Na ₂ Ti ₃ O ₇ Anode for Sodium-Ion Battery. <i>Advanced Functional Materials</i> , 2020 , 30, 2003733	15.6	16
348	A Versatile Capacity Balancer for Asymmetric Supercapacitors. <i>Advanced Energy Materials</i> , 2020 , 10, 2001608	16.8	6
347	Shaping Li Deposits from Wild Dendrites to Regular Crystals via the Ferroelectric Effect. <i>Nano Letters</i> , 2020 , 20, 7680-7687	11.5	12
346	A Self-Powered Photovoltaic Photodetector Based on a Lateral WSe-WSe Homojunction. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44934-44942	9.5	25
345	Excellent Excitonic Photovoltaic Effect in 2D CsPbBr ₃ /CdS Heterostructures. <i>Advanced Functional Materials</i> , 2020 , 30, 2006166	15.6	18
344	On-chip electrocatalytic microdevice: an emerging platform for expanding the insight into electrochemical processes. <i>Chemical Society Reviews</i> , 2020 , 49, 2916-2936	58.5	33
343	Salt-assisted chemical vapor deposition of two-dimensional materials. <i>Science China Chemistry</i> , 2019 , 62, 1300-1311	7.9	38

342	Two-dimensional non-layered materials. <i>Materials Today Nano</i> , 2019 , 8, 100051	9.7	28
341	High-loading individually dispersed NiCo ₂ O ₄ anchoring on checkerboard-like C/CNT nanosheets as a binder-free high rate electrode for lithium storage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3632-3641	13	26
340	Chemical Vapor Deposition Growth of High Crystallinity Sb Se Nanowire with Strong Anisotropy for Near-Infrared Photodetectors. <i>Small</i> , 2019 , 15, e1805307	11	54
339	Multifunctional Mixed-Dimensional MoS ₂ /TiO ₂ Junction Field-Effect Transistor for Logic Operation and Phototransistor. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800976	6.4	18
338	Coordination-induced structural changes of DNA-based optical and electrochemical sensors for metal ions detection. <i>Dalton Transactions</i> , 2019 , 48, 5879-5891	4.3	9
337	Two-dimensional Ruddlesden-Popper perovskite nanosheets: Synthesis, optoelectronic properties and miniaturized optoelectronic devices. <i>FlatChem</i> , 2019 , 17, 100116	5.1	9
336	Growth of Highly Anisotropic 2D Ternary CaTe ₂ O ₅ Flakes on Molten Glass. <i>Advanced Functional Materials</i> , 2019 , 29, 1903216	15.6	10
335	Salt-Assisted Growth of Ultrathin GeSe Rectangular Flakes for Phototransistors with Ultrahigh Responsivity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 23353-23360	9.5	24
334	Robust Piezo-Phototronic Effect in Multilayer InSe for High-Performance Self-Powered Flexible Photodetectors. <i>ACS Nano</i> , 2019 , 13, 7291-7299	16.7	65
333	Modulation of Molecular Spatial Distribution and Chemisorption with Perforated Nanosheets for Ethanol Electro-oxidation. <i>Advanced Materials</i> , 2019 , 31, e1900528	24	57
332	2D Metal Chalcogenides for IR Photodetection. <i>Small</i> , 2019 , 15, e1901347	11	65
331	An Autotransferable g-C ₃ N ₄ Li ⁺ -Modulating Layer toward Stable Lithium Anodes. <i>Advanced Materials</i> , 2019 , 31, e1900342	24	111
330	Nonlayered Two-Dimensional Defective Semiconductor EGaS toward Broadband Photodetection. <i>ACS Nano</i> , 2019 , 13, 6297-6307	16.7	48
329	MoS ₂ -Based Photodetectors Powered by Asymmetric Contact Structure with Large Work Function Difference. <i>Nano-Micro Letters</i> , 2019 , 11, 34	19.5	26
328	Direct conversion of waste tires into three-dimensional graphene. <i>Energy Storage Materials</i> , 2019 , 23, 499-507	19.4	35
327	Bio-Inspired Flexible Fluoropolymer Film for All-Mode Light Extraction Enhancement. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 19623-19630	9.5	7
326	Emerging in-plane anisotropic two-dimensional materials. <i>Information Materials</i> , 2019 , 1, 54-73	23.1	175
325	Controlled Growth of an MoS ₂ -Graphene Hybrid Film as an Electrode in Self-Powered Two-Sided MoS ₂ -Graphene/Sb ₂ Se ₃ /TiO ₂ Photodetectors. <i>Sensors</i> , 2019 , 19,	3.8	19

3 ²⁴	Spatially Confined Growth of Fullerene to Super-Long Crystalline Fibers in Supramolecular Gels for High-Performance Photodetector. <i>Advanced Materials</i> , 2019 , 31, e1808254	24	28
3 ²³	Strategies for Air-Stable and Tunable Monolayer MoS ₂ -Based Hybrid Photodetectors with High Performance by Regulating the Fully Inorganic Trihalide Perovskite Nanocrystals. <i>Advanced Optical Materials</i> , 2019 , 7, 1801744	8.1	29
3 ²²	Phase-Engineered Synthesis of Ultrathin Hexagonal and Monoclinic GaTe Flakes and Phase Transition Study. <i>Advanced Functional Materials</i> , 2019 , 29, 1901012	15.6	24
3 ²¹	Oriented Growth of Ultrathin Single Crystals of 2D Ruddlesden-Popper Hybrid Lead Iodide Perovskites for High-Performance Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15905-15912	9.5	35
3 ²⁰	Multiphoton Excitation and Defect-Enhanced Fast Carrier Relaxation in Few-Layered MoS ₂ Crystals. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 11216-11223	3.8	4
3 ¹⁹	Sr ₆ Cd ₂ Sb ₆ O ₇ S ₁₀ : Strong SHG Response Activated by Highly Polarizable Sb/O/S Groups. <i>Angewandte Chemie</i> , 2019 , 131, 8162-8165	3.6	10
3 ¹⁸	Sr Cd Sb O S : Strong SHG Response Activated by Highly Polarizable Sb/O/S Groups. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8078-8081	16.4	56
3 ¹⁷	Doping engineering and functionalization of two-dimensional metal chalcogenides. <i>Nanoscale Horizons</i> , 2019 , 4, 26-51	10.8	162
3 ¹⁶	PMMA-assisted Li deposition towards 3D continuous dendrite-free lithium anode. <i>Energy Storage Materials</i> , 2019 , 16, 203-211	19.4	38
3 ¹⁵	Van der Waals 2D Transition Metal Tellurides. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900741	4.6	22
3 ¹⁴	2D GeP as a Novel Broadband Nonlinear Optical Material for Ultrafast Photonics. <i>Laser and Photonics Reviews</i> , 2019 , 13, 1900123	8.3	53
3 ¹³	PbSe Quantum Dots Sensitized High-Mobility BiOSe Nanosheets for High-Performance and Broadband Photodetection Beyond 2 μ m. <i>ACS Nano</i> , 2019 , 13, 9028-9037	16.7	81
3 ¹²	In situ epitaxial growth of Ag ₃ PO ₄ quantum dots on hematite nanotubes for high photocatalytic activities. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 2747-2755	6.8	3
3 ¹¹	Synergistic additive-mediated CVD growth and chemical modification of 2D materials. <i>Chemical Society Reviews</i> , 2019 , 48, 4639-4654	58.5	66
3 ¹⁰	High quality two-photon pumped whispering-gallery-mode lasing from ultrathin CdS microflakes. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 12869-12875	7.1	6
3 ⁰⁹	Hollow multi-shell structured SnO ₂ with enhanced performance for ultraviolet photodetectors. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 1968-1972	6.8	16
3 ⁰⁸	High-Quality Hexagonal Nonlayered CdS Nanoplatelets for Low-Threshold Whispering-Gallery-Mode Lasing. <i>Small</i> , 2019 , 15, e1901364	11	17
3 ⁰⁷	Self-Confined Growth of Ultrathin 2D Nonlayered Wide-Bandgap Semiconductor CuBr Flakes. <i>Advanced Materials</i> , 2019 , 31, e1903580	24	37

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305	Submillimeter and lead-free Cs3Sb2Br9 perovskite nanoflakes: inverse temperature crystallization growth and application for ultrasensitive photodetectors. <i>Nanoscale Horizons</i> , 2019 , 4, 1372-1379	10.8	51
304	Reconfigurable two-dimensional optoelectronic devices enabled by local ferroelectric polarization. <i>Nature Communications</i> , 2019 , 10, 3331	17.4	82
303	Approaching ohmic contact to two-dimensional semiconductors. <i>Science Bulletin</i> , 2019 , 64, 1426-1435	10.6	21
302	Direct Wide Bandgap 2D GeSe2 Monolayer toward Anisotropic UV Photodetection. <i>Advanced Optical Materials</i> , 2019 , 7, 1900622	8.1	36
301	Level the Conversion/Alloying Voltage Gap by Grafting the Endogenetic SbTe Building Block into Layered GeTe to Build GeSbTe for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 41374-41382	9.5	82
300	Recent Progress on 2D Noble-Transition-Metal Dichalcogenides. <i>Advanced Functional Materials</i> , 2019 , 29, 1904932	15.6	98
299	Hydrogen-Assisted Growth of Ultrathin Te Flakes with Giant Gate-Dependent Photoresponse. <i>Advanced Functional Materials</i> , 2019 , 29, 1906585	15.6	41
298	Self-Trapped Exciton to Dopant Energy Transfer in Rare Earth Doped Lead-Free Double Perovskite. <i>Advanced Optical Materials</i> , 2019 , 7, 1901098	8.1	53
297	Two-dimensional inorganic molecular crystals. <i>Nature Communications</i> , 2019 , 10, 4728	17.4	50
296	Linear Dichroism and Nondestructive Crystalline Identification of Anisotropic Semimetal Few-Layer MoTe. <i>Small</i> , 2019 , 15, e1903159	11	13
295	2D MoTe2: Linear Dichroism and Nondestructive Crystalline Identification of Anisotropic Semimetal Few-Layer MoTe2 (Small 44/2019). <i>Small</i> , 2019 , 15, 1970239	11	1
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293	ReX2 (X=S,Se): A New Opportunity for Development of Two-dimensional Anisotropic Materials. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2019 , 34, 1	1	4
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280	Layer-Dependent Dielectric Function of Wafer-Scale 2D MoS2. <i>Advanced Optical Materials</i> , 2019 , 7, 1801850	18.50	31
279	Recent Progress on 2D Noble-Transition-Metal Dichalcogenides 2019 , 29, 1904932		1
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277	2D GeP: An Unexploited Low-Symmetry Semiconductor with Strong In-Plane Anisotropy. <i>Advanced Materials</i> , 2018 , 30, e1706771	24	156
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222	A Ternary Solvent Method for Large-Sized Two-Dimensional Perovskites. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2390-2394	16.4	72
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128	Properties and Devices of Single One-Dimensional Nanostructure: Application of Scanning Probe Microscopy 2013 , 339-358		
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121	One-Dimensional Nanostructures in Plasmonics 2013 , 455-471		
120	Quasi One-Dimensional Metal Oxide Nanostructures for Gas Sensors 2013 , 435-453		1
119	Controllable Growth and Assembly of One-Dimensional Structures of Organic Functional Materials for Optoelectronic Applications 2013 , 397-414		
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116	One-Dimensional Semiconductor Nanowires: Synthesis and Raman Scattering 2013 , 145-166		2
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