

Jinlan 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.

300
papers

15,181
citations

62
h-index

112
g-index

317
ext. papers

18,653
ext. citations

9.1
avg, IF

7.06
L-index

#	Paper	IF	Citations
300	Rational Unraveling of Alkali Metal Concentration-Dependent Photovoltaic Performance of Halide Perovskites: Octahedron Distortion vs Surface Reconstruction.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 362-370	6.4	1
299	N,O-C Nanocage-mediated high-efficient hydrogen evolution reaction on IrNi@N,O-C electrocatalyst. <i>Applied Catalysis B: Environmental</i> , 2022 , 304, 120996	21.8	4
298	Coexistence of Semiconducting Ferromagnetics and Piezoelectrics down 2D Limit from Non van der Waals Antiferromagnetic LiNbO-Type FeTiO.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 1991-1999	6.4	0
297	Toward Low-Symmetry Systems: An Adaptive Differential Evolution Algorithm for Global Structure Searching.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 2986-2993	6.4	
296	Formation of Graphene Nanoscrolls and Their Electronic Structures Based on Calculations.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 2500-2506	6.4	0
295	POD Nanozyme optimized by charge separation engineering for light/pH activated bacteria catalytic/photodynamic therapy.. <i>Signal Transduction and Targeted Therapy</i> , 2022 , 7, 86	21	10
294	The Intrinsic Thermodynamic Difficulty and a Step-Guided Mechanism for the Epitaxial Growth of Uniform Multilayer MoS with Controllable Thickness.. <i>Advanced Materials</i> , 2022 , e2201402	24	3
293	Non-invasive digital etching of van der Waals semiconductors.. <i>Nature Communications</i> , 2022 , 13, 1844	17.4	1
292	Defective Fe Metal-organic Frameworks Enhance Metabolic Profiling for High-accuracy Diagnosis of Human Cancers.. <i>Advanced Materials</i> , 2022 , e2201422	24	5
291	Data-Driven Materials Innovation and Applications.. <i>Advanced Materials</i> , 2022 , e2104113	24	2
290	Uniform nucleation and epitaxy of bilayer molybdenum disulfide on sapphire.. <i>Nature</i> , 2022 , 605, 69-75	50.4	19
289	Monitoring substrate-induced electron-phonon coupling at interfaces of 2D organic/inorganic van der Waals heterostructures with in situ Raman spectroscopy. <i>Applied Physics Letters</i> , 2022 , 120, 181602	3.4	1
288	Accurate energy prediction of large-scale defective two-dimensional materials via deep learning. <i>Applied Physics Letters</i> , 2022 , 120, 213103	3.4	
287	On-the-fly interpretable machine learning for rapid discovery of two-dimensional ferromagnets with high Curie temperature. <i>Chem</i> , 2021 ,	16.2	6
286	Recent Progress on Two-Dimensional Materials. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2021 , 2108017-0	3.8	69
285	Synthesis of Pd Sn and PdCuSn Nanorods with L1 Phase for Highly Efficient Electrocatalytic Ethanol Oxidation. <i>Advanced Materials</i> , 2021 , e2106115	24	17
284	Seeded Synthesis of Unconventional 2H-Phase Pd Alloy Nanomaterials for Highly Efficient Oxygen Reduction. <i>Journal of the American Chemical Society</i> , 2021 , 143, 17292-17299	16.4	15

283	Theoretical progress on direct Z-scheme photocatalysis of two-dimensional heterostructures. <i>Frontiers of Physics</i> , 2021 , 16, 1	3.7	7
282	Photoluminescence enhancement at a high generation rate induced by exciton localization. <i>Optics Letters</i> , 2021 , 46, 2774-2777	3	1
281	Charge-Modulated VS ₂ Monolayer for Effective Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 12004-12011	3.8	4
280	Photocatalytic conversion of CO to fuels with water by B-doped graphene/g-C ₃ N ₄ heterostructure. <i>Science Bulletin</i> , 2021 , 66, 1186-1193	10.6	6
279	Realization of Strong Room-Temperature Ferromagnetism in Atomically Thin 2D Carbon Nitride Sheets by Thermal Annealing. <i>ACS Nano</i> , 2021 ,	16.7	11
278	Ultralong lifetime for fully photogenerated spin-polarized current in two-dimensional ferromagnetic/nonmagnetic semiconductor heterostructures. <i>Physical Review B</i> , 2021 , 103,	3.3	3
277	Enabling selective, room-temperature gas detection using atomically dispersed Zn. <i>Sensors and Actuators B: Chemical</i> , 2021 , 329, 129221	8.5	2
276	Quasi-Epitaxial Growth of Magnetic Nanostructures on 4H-Au Nanoribbons. <i>Advanced Materials</i> , 2021 , 33, e2007140	24	8
275	Selective visible-light driven highly efficient photocatalytic reduction of CO to CHOH by two-dimensional CuS monolayers. <i>Nanoscale Horizons</i> , 2021 , 6, 661-668	10.8	4
274	Accelerated design of promising mixed lead-free double halide organic-inorganic perovskites for photovoltaics using machine learning. <i>Nanoscale</i> , 2021 , 13, 12250-12259	7.7	5
273	Surface reconstruction induced in situ phosphorus doping in nickel oxides for an enhanced oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 6432-6441	13	13
272	A new nitrogen fixation strategy: the direct formation of *N ₂ excited state on metal-free photocatalyst. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 6214-6222	13	4
271	A general strategy for designing two-dimensional high-efficiency layered thermoelectric materials. <i>Energy and Environmental Science</i> , 2021 , 14, 4059-4066	35.4	8
270	Promoting the conversion of CO to CH ₄ via synergistic dual active sites. <i>Nanoscale</i> , 2021 , 13, 12233-12241	7.7	5
269	Direct formation of interlayer exciton in two-dimensional van der Waals heterostructures. <i>Materials Horizons</i> , 2021 , 8, 2208-2215	14.4	1
268	Vacancy-defect modulated pathway of photoreduction of CO on single atomically thin AgInPS sheets into olefiant gas. <i>Nature Communications</i> , 2021 , 12, 4747	17.4	28
267	Hollow InVO Nanocuboid Assemblies toward Promoting Photocatalytic N Conversion Performance. <i>Advanced Materials</i> , 2021 , 33, e2006780	24	9
266	Epitaxial growth of wafer-scale molybdenum disulfide semiconductor single crystals on sapphire. <i>Nature Nanotechnology</i> , 2021 , 16, 1201-1207	28.7	75

265	A universal framework for metropolis Monte Carlo simulation of magnetic Curie temperature. <i>Computational Materials Science</i> , 2021 , 197, 110638	3.2	2
264	Theoretical study on two dimensional group IV-VI ternary compounds with large in-plane spontaneous polarization. <i>Computational Materials Science</i> , 2021 , 198, 110688	3.2	0
263	Machine Learning Accelerated Insights of Perovskite Materials. <i>Springer Series in Materials Science</i> , 2021 , 197-223	0.9	
262	Synergistic modulation of metal-free photocatalysts by the composition ratio change and heteroatom doping for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 11753-11761	13	5
261	Two dimensional CrGaSe: a spin-gapless ferromagnetic semiconductor with inclined uniaxial anisotropy. <i>Nanoscale</i> , 2021 , 13, 6024-6029	7.7	7
260	Spin-constrained optoelectronic functionality in two-dimensional ferromagnetic semiconductor heterojunctions. <i>Materials Horizons</i> , 2021 , 8, 1323-1333	14.4	5
259	Electrochemical CO ₂ reduction: water/catalyst interface versus polymer/catalyst interface. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 17474-17480	13	2
258	Preparation of Au@Pd Core-Shell Nanorods with -2H- Heterophase for Highly Efficient Electrocatalytic Alcohol Oxidation.. <i>Journal of the American Chemical Society</i> , 2021 ,	16.4	13
257	Anchoring of black phosphorus quantum dots onto WO nanowires to boost photocatalytic CO conversion into solar fuels. <i>Chemical Communications</i> , 2020 , 56, 7777-7780	5.8	29
256	Crystal phase-controlled growth of PtCu and PtCo alloys on 4H Au nanoribbons for electrocatalytic ethanol oxidation reaction. <i>Nano Research</i> , 2020 , 13, 1970-1975	10	11
255	Electronic and Magnetic Properties of a Two-Dimensional Transition Metal Phosphorous Chalcogenide TMPS ₄ . <i>Journal of Physical Chemistry C</i> , 2020 , 124, 12075-12080	3.8	9
254	Coupling a Crystal Graph Multilayer Descriptor to Active Learning for Rapid Discovery of 2D Ferromagnetic Semiconductors/Half-Metals/Metals. <i>Advanced Materials</i> , 2020 , 32, e2002658	24	36
253	Nitrogen-decorated borophene: An empowering contestant for hydrogen storage. <i>Applied Surface Science</i> , 2020 , 527, 146852	6.7	10
252	Ethylene Selectivity in Electrocatalytic CO Reduction on Cu Nanomaterials: A Crystal Phase-Dependent Study. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12760-12766	16.4	89
251	A Ti ₃ C ₂ O ₂ supported single atom, trifunctional catalyst for electrochemical reactions. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7801-7807	13	25
250	Prediction of a two-dimensional high-TC f-electron ferromagnetic semiconductor. <i>Materials Horizons</i> , 2020 , 7, 1623-1630	14.4	59
249	Heterophase fcc-2H-fcc gold nanorods. <i>Nature Communications</i> , 2020 , 11, 3293	17.4	41
248	Perspective on theoretical methods and modeling relating to electro-catalysis processes. <i>Chemical Communications</i> , 2020 , 56, 9937-9949	5.8	30

247	Magnetic two-dimensional layered crystals meet with ferromagnetic semiconductors. <i>Informa Mater</i> , 2020 , 2, 639-655	23.1	34
246	Interlayer coupling prolonged the photogenerated carrier lifetime of few layered BiOS semiconductors. <i>Nanoscale</i> , 2020 , 12, 6057-6063	7.7	7
245	Boosted electrochemical ammonia synthesis by high-percentage metallic transition metal dichalcogenide quantum dots. <i>Nanoscale</i> , 2020 , 12, 10964-10971	7.7	14
244	High ZT 2D Thermoelectrics by Design: Strong Interlayer Vibration and Complete Band-Extrema Alignment. <i>Advanced Functional Materials</i> , 2020 , 30, 2001200	15.6	21
243	Property-Oriented Material Design Based on a Data-Driven Machine Learning Technique. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3920-3927	6.4	30
242	Rational Design and Characterization of Direct Z-Scheme Photocatalyst for Overall Water Splitting from Excited State Dynamics Simulations. <i>ACS Catalysis</i> , 2020 , 10, 1976-1983	13.1	68
241	Metal single-atom coordinated graphitic carbon nitride as an efficient catalyst for CO oxidation. <i>Nanoscale</i> , 2020 , 12, 364-371	7.7	33
240	Breaking scaling relations for efficient CO electrochemical reduction through dual-atom catalysts. <i>Chemical Science</i> , 2020 , 11, 1807-1813	9.4	86
239	Designed Single Atom Bifunctional Electrocatalysts for Overall Water Splitting: 3d Transition Metal Atoms Doped Borophene Nanosheets. <i>ChemPhysChem</i> , 2020 , 21, 2651-2659	3.2	9
238	A Gd@C single-molecule electret. <i>Nature Nanotechnology</i> , 2020 , 15, 1019-1024	28.7	25
237	Suppressing photoexcited electron-hole recombination in MoSe ₂ /WSe ₂ lateral heterostructures via interface-coupled state engineering: a time-domain ab initio study. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 20621-20628	13	8
236	BiWO ₃ -BiOCl heterostructure with enhanced photocatalytic activity for efficient degradation of oxytetracycline. <i>Scientific Reports</i> , 2020 , 10, 18401	4.9	17
235	Highly Efficient Photo-/Electrocatalytic Reduction of Nitrogen into Ammonia by Dual-Metal Sites. <i>ACS Central Science</i> , 2020 , 6, 1762-1771	16.8	49
234	Novel approaches for highly selective, room-temperature gas sensors based on atomically dispersed non-precious metals. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23784-23794	13	4
233	Hybrid Cu and Cu as Atomic Interfaces Promote High-Selectivity Conversion of CO to CH ₃ OH at Low Potential. <i>Small</i> , 2020 , 16, e1901981	11	42
232	Hydrogen adsorption on pristine and platinum decorated graphene quantum dot: A first principle study. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 23977-23987	6.7	12
231	Edge promotion and basal plane activation of MoS ₂ catalyst by isolated Co atoms for hydrodesulfurization and hydrodenitrogenation. <i>Catalysis Today</i> , 2020 , 350, 56-63	5.3	1
230	Janus MoSSe/WSeTe heterostructures: a direct Z-scheme photocatalyst for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21835-21842	13	64

229	Highly efficient photogenerated electron transfer at a black phosphorus/indium selenide heterostructure interface from ultrafast dynamics. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 1864-1870	7.1	39
228	Photo-oxidative degradation of methylammonium lead iodide perovskite: mechanism and protection. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 2275-2282	13	60
227	Recent advances in oxidation and degradation mechanisms of ultrathin 2D materials under ambient conditions and their passivation strategies. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4291-4312	13	100
226	Metal-free electrocatalyst for reducing nitrogen to ammonia using a Lewis acid pair. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4865-4871	13	78
225	Two-Dimensional Gold Sulfide Monolayers with Direct Band Gap and Ultrahigh Electron Mobility. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3773-3778	6.4	23
224	Rapid Discovery of Ferroelectric Photovoltaic Perovskites and Material Descriptors via Machine Learning. <i>Small Methods</i> , 2019 , 3, 1900360	12.8	42
223	Degenerate electron-doping in two-dimensional tungsten diselenide with a dimeric organometallic reductant. <i>Materials Today</i> , 2019 , 30, 26-33	21.8	8
222	Foamlike Co ₉ S ₈ /Ni ₃ S ₂ heterostructure nanowire arrays for efficient bifunctional overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2019 , 253, 246-252	21.8	88
221	Role of Water and Defects in Photo-Oxidative Degradation of Methylammonium Lead Iodide Perovskite. <i>Small Methods</i> , 2019 , 3, 1900154	12.8	27
220	One-Step Vapor-Phase Synthesis and Quantum-Confined Exciton in Single-Crystal Platelets of Hybrid Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2363-2371	6.4	20
219	Greatly Enhanced Photoabsorption and Photothermal Conversion of Antimonene Quantum Dots through Spontaneously Partial Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17987-17993	9.5	21
218	Aqueous acid-based synthesis of lead-free tin halide perovskites with near-unity photoluminescence quantum efficiency. <i>Chemical Science</i> , 2019 , 10, 4573-4579	9.4	77
217	High Curie temperature and intrinsic ferromagnetic half-metallicity in two-dimensional Cr ₃ X ₄ (X = S, Se, Te) nanosheets. <i>Nanoscale Horizons</i> , 2019 , 4, 859-866	10.8	42
216	Strain-dependent electronic structure and optical properties of monolayer indium selenide: A density functional + tight-binding model + many-body perturbation theory study. <i>FlatChem</i> , 2019 , 15, 100092	5.1	3
215	Convincing Synthesis of Atomically Thin, Single-Crystalline InVO Sheets toward Promoting Highly Selective and Efficient Solar Conversion of CO into CO ₂ . <i>Journal of the American Chemical Society</i> , 2019 , 141, 4209-4213	16.4	124
214	Revealing the pH-Dependent Photoluminescence Mechanism of Graphitic C ₃ N ₄ Quantum Dots. <i>Advanced Theory and Simulations</i> , 2019 , 2, 1900074	3.5	7
213	Auxetic BN Monolayer: A Promising 2D Material with in-Plane Negative Poisson's Ratio and Large Anisotropic Mechanics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 33231-33237	9.5	19
212	Bifunctional Electrocatalytic Activity of Nitrogen-Doped NiO Nanosheets for Rechargeable Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 30865-30871	9.5	26

211	Unveiling chemical reactivity and oxidation of 1T-phased group VI disulfides. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 17010-17017	3.6	5
210	Diisopropylammonium Bromide Based Two-Dimensional Ferroelectric Monolayer Molecular Crystal with Large In-Plane Spontaneous Polarization. <i>Journal of the American Chemical Society</i> , 2019 , 141, 1452-1456	16.4	9
209	New Mechanism for N Reduction: The Essential Role of Surface Hydrogenation. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18264-18270	16.4	94
208	MnX (X = P, As) monolayers: a new type of two-dimensional intrinsic room temperature ferromagnetic half-metallic material with large magnetic anisotropy. <i>Nanoscale</i> , 2019 , 11, 4204-4209	7.7	81
207	Copper(i) sulfide: a two-dimensional semiconductor with superior oxidation resistance and high carrier mobility. <i>Nanoscale Horizons</i> , 2019 , 4, 223-230	10.8	32
206	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
205	A General Two-Step Strategy Based High-Throughput Screening of Single Atom Catalysts for Nitrogen Fixation. <i>Small Methods</i> , 2019 , 3, 1800376	12.8	175
204	Forming Atom Vacancy Interface on the MoS ₂ Catalyst for Efficient Hydrodeoxygenation Reactions. <i>Small Methods</i> , 2019 , 3, 1800315	12.8	12
203	Ambient Degradation-Induced Spin Paramagnetism in Phosphorene. <i>Small</i> , 2019 , 15, e1804386	11	4
202	Two-Dimensional AuMX (M = Al, Ga, In; X = S, Se) Monolayers Featuring Intracrystalline Auophilic Interactions with Novel Electronic and Optical Properties. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16739-16746	9.5	7
201	Surface Vacancy-Induced Switchable Electric Polarization and Enhanced Ferromagnetism in Monolayer Metal Trihalides. <i>Nano Letters</i> , 2018 , 18, 2943-2949	11.5	94
200	On-surface synthesis: a promising strategy toward the encapsulation of air unstable ultra-thin 2D materials. <i>Nanoscale</i> , 2018 , 10, 3799-3804	7.7	16
199	Molybdenum sulfide clusters immobilized on defective graphene: a stable catalyst for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 2289-2294	13	35
198	Ultrathin Semiconducting BiTeS and BiTeSe with High Electron Mobilities. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 487-490	6.4	41
197	Enhanced Stability of Black Phosphorus Field-Effect Transistors via Hydrogen Treatment. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700455	6.4	15
196	Half-metallicity and enhanced ferromagnetism in Li-adsorbed ultrathin chromium triiodide. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 5716-5720	7.1	46
195	Transition-Metal Dihydride Monolayers: A New Family of Two-Dimensional Ferromagnetic Materials with Intrinsic Room-Temperature Half-Metallicity. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4260-4266	6.4	87
194	Single Molybdenum Atom Anchored on N-Doped Carbon as a Promising Electrocatalyst for Nitrogen Reduction into Ammonia at Ambient Conditions. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 16842-16847	3.8	163

193	High Curie-temperature intrinsic ferromagnetism and hole doping-induced half-metallicity in two-dimensional scandium chlorine monolayers. <i>Nanoscale Horizons</i> , 2018 , 3, 551-555	10.8	49
192	Abnormal Near-Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization. <i>Advanced Materials</i> , 2018 , 30, e1801931	24	35
191	Accelerated discovery of stable lead-free hybrid organic-inorganic perovskites via machine learning. <i>Nature Communications</i> , 2018 , 9, 3405	17.4	263
190	Photo-oxidative Degradation and Protection Mechanism of Black Phosphorus: Insights from Ultrafast Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5034-5039	6.4	35
189	Effect of illumination and Se vacancies on fast oxidation of ultrathin gallium selenide. <i>Nanoscale</i> , 2018 , 10, 12180-12186	7.7	26
188	Metallic MoN ultrathin nanosheets boosting high performance photocatalytic H ₂ production. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23278-23282	13	27
187	Highly Promoted Carrier Mobility and Intrinsic Stability by Rolling Up Monolayer Black Phosphorus into Nanoscrolls. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6847-6852	6.4	15
186	Extraordinary Magnetoresistance in Janus Monolayer MoTeB ₂ : A Theoretical Prediction. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 28423-28430	3.8	4
185	Metal-Free Single Atom Catalyst for N Fixation Driven by Visible Light. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14161-14168	16.4	460
184	Computation-Aided Design of Single-Atom Catalysts for One-Pot CO Capture, Activation, and Conversion. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 36866-36872	9.5	53
183	Highly Fluorescent and Stable Black Phosphorus Quantum Dots in Water. <i>Small</i> , 2018 , 14, e1803132	11	39
182	Black Phosphorus: Abnormal Near-Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization (Adv. Mater. 43/2018). <i>Advanced Materials</i> , 2018 , 30, 1870325	24	
181	Insight into the catalytic activity of MXenes for hydrogen evolution reaction. <i>Science Bulletin</i> , 2018 , 63, 1397-1403	10.6	29
180	Inch-Scale Grain Boundary Free Organic Crystals Developed by Nucleation Seed-Controlled Shearing Method. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 35395-35403	9.5	37
179	Bi ₂ OS ₂ : a direct-gap two-dimensional semiconductor with high carrier mobility and surface electron states. <i>Materials Horizons</i> , 2018 , 5, 1058-1064	14.4	28
178	Chromium sulfide halide monolayers: intrinsic ferromagnetic semiconductors with large spin polarization and high carrier mobility. <i>Nanoscale</i> , 2018 , 10, 18036-18042	7.7	58
177	Defect Engineering for Modulating the Trap States in 2D Photoconductors. <i>Advanced Materials</i> , 2018 , 30, e1804332	24	90
176	Cobalt phosphosulfide in the tetragonal phase: a highly active and durable catalyst for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12353-12360	13	36

175	Chemically activating MoS via spontaneous atomic palladium interfacial doping towards efficient hydrogen evolution. <i>Nature Communications</i> , 2018 , 9, 2120	17.4	300
174	Efficient Carrier Separation in Graphitic Zinc Oxide and Blue Phosphorus van der Waals Heterostructure. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 3648-3653	3.8	55
173	How To Obtain High-Quality and High-Stability Interfacial Organic Layer: Insights from the PTCDA Self-Assembly. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 4488-4495	3.8	14
172	Dielectric and ferroelectric sensing based on molecular recognition in Cu(1,10-phenothroline)SeO(diol) systems. <i>Nature Communications</i> , 2017 , 8, 14551	17.4	29
171	Theoretical study on the self-assembly of 1,3,5-triethynylbenzene on Si(100)2 \times 1 and in situ polymerization via reaction with CO to fabricate a single surface-grafted polymer. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 3585-3591	7.1	4
170	High intrinsic catalytic activity of two-dimensional boron monolayers for the hydrogen evolution reaction. <i>Nanoscale</i> , 2017 , 9, 533-537	7.7	81
169	Water-Catalyzed Oxidation of Few-Layer Black Phosphorous in a Dark Environment. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 9131-9135	16.4	115
168	Template-Grown MoS ₂ Nanowires Catalyze the Hydrogen Evolution Reaction: Ultralow Kinetic Barriers with High Active Site Density. <i>ACS Catalysis</i> , 2017 , 7, 5097-5102	13.1	61
167	A new Dirac cone material: a graphene-like BeC monolayer. <i>Nanoscale</i> , 2017 , 9, 5577-5582	7.7	66
166	Passivation of Black Phosphorus via Self-Assembled Organic Monolayers by van der Waals Epitaxy. <i>Advanced Materials</i> , 2017 , 29, 1603990	24	101
165	Photoabsorption Tolerance of Intrinsic Point Defects and Oxidation in Black Phosphorus Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 161-166	6.4	20
164	Band-edge engineering via molecule intercalation: a new strategy to improve stability of few-layer black phosphorus. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 29232-29236	3.6	8
163	Au ₆ S ₂ monolayer sheets: metallic and semiconducting polymorphs. <i>Materials Horizons</i> , 2017 , 4, 1085-1091	11.4	21
162	Nanoconfined Iron Oxide Material as a High-Performance Cathode for Rechargeable Chloride Ion Batteries. <i>ACS Energy Letters</i> , 2017 , 2, 2341-2348	20.1	51
161	Prediction of a room-temperature eight-coordinate two-dimensional topological insulator: penta-RuS ₄ monolayer. <i>Npj 2D Materials and Applications</i> , 2017 , 1,	8.8	12
160	Exploitation of the Large-Area Basal Plane of MoS and Preparation of Bifunctional Catalysts through On-Surface Self-Assembly. <i>Advanced Science</i> , 2017 , 4, 1700356	13.6	5
159	Water-Catalyzed Oxidation of Few-Layer Black Phosphorous in a Dark Environment. <i>Angewandte Chemie</i> , 2017 , 129, 9259-9263	3.6	13
158	Towards a Comprehensive Understanding of the Reaction Mechanisms Between Defective MoS and Thiol Molecules. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10501-10505	16.4	62

157	Nanosheet Supported Single-Metal Atom Bifunctional Catalyst for Overall Water Splitting. <i>Nano Letters</i> , 2017 , 17, 5133-5139	11.5	253
156	Repairing atomic vacancies in single-layer MoSe ₂ field-effect transistor and its defect dynamics. <i>Npj Quantum Materials</i> , 2017 , 2,	5	27
155	Towards a Comprehensive Understanding of the Reaction Mechanisms Between Defective MoS ₂ and Thiol Molecules. <i>Angewandte Chemie</i> , 2017 , 129, 10637-10641	3.6	2
154	An organic-inorganic perovskite ferroelectric with large piezoelectric response. <i>Science</i> , 2017 , 357, 306-309	393	506
153	Arsenene-Based Heterostructures: Highly Efficient Bifunctional Materials for Photovoltaics and Photocatalytics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 42856-42861	9.5	29
152	Oxidation Mechanism and Protection Strategy of Ultrathin Indium Selenide: Insight from Theory. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4368-4373	6.4	50
151	Transition Metal-Promoted VCO (MXenes): A New and Highly Active Catalyst for Hydrogen Evolution Reaction. <i>Advanced Science</i> , 2016 , 3, 1600180	13.6	204
150	Light-Induced Ambient Degradation of Few-Layer Black Phosphorus: Mechanism and Protection. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11437-41	16.4	387
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