

Junxue Liu

List of Publications by Year in descending order

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53
papers

3,578
citations

147801

31
h-index

182427

51
g-index

53
all docs

53
docs citations

53
times ranked

5530
citing authors

#	ARTICLE	IF	CITATIONS
1	Macroscopic assembled graphene nanofilms based room temperature ultrafast mid-infrared photodetectors. <i>Informa Mater</i> , 2022, 4, .	17.3	24
2	Long-Lived Internal Charge-Separated State in Two-Dimensional Metal-Organic Frameworks Improving Photocatalytic Performance. <i>ACS Energy Letters</i> , 2022, 7, 2323-2330.	17.4	24
3	Nanospatial Charge Modulation of Monodispersed Polymeric Microsphere Photocatalysts for Exceptional Hydrogen Peroxide Production. <i>Small</i> , 2021, 17, e2103224.	10.0	48
4	Defect-Induced Inhomogeneous Phase Transition in 2D Perovskite Single Crystals at Low Temperatures. <i>ACS Omega</i> , 2021, 6, 35427-35432.	3.5	1
5	Macroscopic-Assembled-Graphene Nanofilms/Germanium Broadband Photodetectors. , 2021, , .		6
6	Ultrafast Dopant-Induced Exciton Auger-like Recombination in Mn-Doped Perovskite Nanocrystals. <i>ACS Energy Letters</i> , 2020, 5, 328-334.	17.4	33
7	Unraveling the Kinetics of Photocatalytic Water Oxidation on WO ₃ . <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 412-418.	4.6	21
8	Trap-Enabled Long-Distance Carrier Transport in Perovskite Quantum Wells. <i>Journal of the American Chemical Society</i> , 2020, 142, 15091-15097.	13.7	66
9	Water-stable Mn-based MOF nanosheet as robust visible-light-responsive photocatalyst in aqueous solution. <i>Science China Chemistry</i> , 2020, 63, 1756-1760.	8.2	14
10	Photovoltaic Control of Ferromagnetism for Flexible Spintronics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41999-42006.	8.0	5
11	Boosting Interfacial Charge-Transfer Kinetics for Efficient Overall CO ₂ Photoreduction via Rational Design of Coordination Spheres on Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 12515-12523.	13.7	289
12	Performance Enhancement of Ternary Polymer Solar Cells Induced by Tetrafluorotetracyanoquinodimethane Doping. <i>Chemistry of Materials</i> , 2019, 31, 7650-7656.	6.7	11
13	Sunlight Control of Interfacial Magnetism for Solar Driven Spintronic Applications. <i>Advanced Science</i> , 2019, 6, 1901994.	11.2	16
14	Visible-light-driven coproduction of diesel precursors and hydrogen from lignocellulose-derived methylfurans. <i>Nature Energy</i> , 2019, 4, 575-584.	39.5	268
15	Stable Two-Photon Pumped Amplified Spontaneous Emission from Millimeter-Sized CsPbBr ₃ Single Crystals. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2357-2362.	4.6	43
16	Intralayer A-Site Compositional Engineering of Ruddlesden-Popper Perovskites for Thermostable and Efficient Solar Cells. <i>ACS Energy Letters</i> , 2019, 4, 1216-1224.	17.4	65
17	Efficient photoredox conversion of alcohol to aldehyde and H ₂ by heterointerface engineering of bimetal-semiconductor hybrids. <i>Chemical Science</i> , 2019, 10, 3514-3522.	7.4	90
18	Tailoring vertical phase distribution of quasi-two-dimensional perovskite films via surface modification of hole-transporting layer. <i>Nature Communications</i> , 2019, 10, 878.	12.8	115

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19	Ultralong UV/mechano-excited room temperature phosphorescence from purely organic cluster excitons. <i>Nature Communications</i> , 2019, 10, 5161.	12.8	216
20	Solar Driven Spintronics: Sunlight Control of Interfacial Magnetism for Solar Driven Spintronic Applications (<i>Adv. Sci.</i> 24/2019). <i>Advanced Science</i> , 2019, 6, 1970147.	11.2	1
21	Photoinduced Ultrafast Electron Transfer and Charge Transport in a $\text{PbI}_2/\text{C}_{60}$ Heterojunction. <i>Journal of Physical Chemistry C</i> , 2019, 123, 30791-30798.	3.1	3
22	Artifacts in Transient Absorption Measurements of Perovskite Films Induced by Transient Reflection from Morphological Microstructures. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 97-101.	4.6	25
23	Dynamical Transformation of Two-Dimensional Perovskites with Alternating Cations in the Interlayer Space for High-Performance Photovoltaics. <i>Journal of the American Chemical Society</i> , 2019, 141, 2684-2694.	13.7	189
24	High-air-flow-velocity assisted intermediate phase engineering for controlled crystallization of mixed perovskite in high efficiency photovoltaics. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8860-8867.	10.3	15
25	Lead-Free, Two-Dimensional Mixed Germanium and Tin Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2518-2522.	4.6	92
26	Enhancing the Photocatalytic Hydrogen Evolution Activity of Mixed-Halide Perovskite $\text{CH}_3\text{NH}_3\text{PbBr}_3$ Achieved by Bandgap Funneling of Charge Carriers. <i>ACS Catalysis</i> , 2018, 8, 10349-10357.	11.2	159
27	Bromine Doping as an Efficient Strategy to Reduce the Interfacial Defects in Hybrid Two-Dimensional/Three-Dimensional Stacking Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31755-31764.	8.0	65
28	Photo-generated dinuclear $\{\text{Eu(II)}\}_2$ active sites for selective CO_2 reduction in a photosensitizing metal-organic framework. <i>Nature Communications</i> , 2018, 9, 3353.	12.8	195
29	Observation of Internal Photoinduced Electron and Hole Separation in Hybrid Two-Dimensional Perovskite Films. <i>Journal of the American Chemical Society</i> , 2017, 139, 1432-1435.	13.7	477
30	NiS nanoparticle decorated MoS_2 nanosheets as efficient promoters for enhanced solar H_2 evolution over ZnCdS nanorods. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1042-1047.	6.0	41
31	Synthesis of few-layer 1-Tl-MoTe_2 ultrathin nanosheets for high-performance pseudocapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1035-1042.	10.3	134
32	Hierarchical self-supported $\text{C@TiO}_2\text{-MoS}_2$ core-shell nanofiber mats as flexible anode for advanced lithium ion batteries. <i>Applied Surface Science</i> , 2017, 423, 375-382.	6.1	40
33	Photocatalytic performance of Cu_2O -loaded TiO_2/rGO nanoheterojunctions obtained by UV reduction. <i>Journal of Materials Science</i> , 2017, 52, 6754-6766.	3.7	45
34	$(\text{C}_6\text{H}_5\text{C}_2\text{H}_4\text{NH}_3)_2\text{GeI}_4$: A Layered Two-Dimensional Perovskite with Potential for Photovoltaic Applications. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4402-4406.	4.6	98
35	Engineered Directional Charge Flow in Mixed Two-Dimensional Perovskites Enabled by Facile Cation-Exchange. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21281-21289.	3.1	38
36	A novel organic-inorganic hybrid composition for controllably synthesizing AgI nanocrystals. <i>AIP Conference Proceedings</i> , 2017, . .	0.4	0

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37	In situ thermolysis of Pt-carbonyl complex to form supported clean Pt nanoclusters with enhanced catalytic performance. <i>Science China Materials</i> , 2017, 60, 131-140.	6.3	4
38	Carbon quantum dots decorated hierarchical Ni(OH) ₂ with lamellar structure for outstanding supercapacitor. <i>Materials Letters</i> , 2017, 186, 131-134.	2.6	27
39	Synthesis of AgInS ₂ -xAg ₂ S-yZnS-zIn ₆ S ₇ (x, y, z = 0, or 1) Nanocomposites with Composition-Dependent Activity towards Solar Hydrogen Evolution. <i>Materials</i> , 2016, 9, 329.	2.9	3
40	Decoupling Interfacial Charge Transfer from Bulk Diffusion Unravels Its Intrinsic Role for Efficient Charge Extraction in Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 5056-5061.	4.6	55
41	Limiting Perovskite Solar Cell Performance by Heterogeneous Carrier Extraction. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13067-13071.	13.8	47
42	Limiting Perovskite Solar Cell Performance by Heterogeneous Carrier Extraction. <i>Angewandte Chemie</i> , 2016, 128, 13261-13265.	2.0	14
43	Ultrathin Co(Ni)-doped MoS ₂ nanosheets as catalytic promoters enabling efficient solar hydrogen production. <i>Nano Research</i> , 2016, 9, 2284-2293.	10.4	80
44	Synthesis of heterostructured Pd@TiO ₂ /TiO ₂ nanohybrids with enhanced photocatalytic performance. <i>Materials Research Bulletin</i> , 2016, 80, 337-343.	5.2	19
45	Engineering monomer structure of carbon nitride for the effective and mild photooxidation reaction. <i>Carbon</i> , 2016, 100, 450-455.	10.3	65
46	Long-term production of H ₂ over Pt/CdS nanoplates under sunlight illumination. <i>Chemical Engineering Journal</i> , 2016, 283, 351-357.	12.7	58
47	Silver Iodide Nanospheres Wrapped in Reduced Graphene Oxide for Enhanced Photocatalysis. <i>ChemCatChem</i> , 2015, 7, 2918-2923.	3.7	13
48	Concaving AgI sub-microparticles for enhanced photocatalysis. <i>Nano Energy</i> , 2014, 9, 204-211.	16.0	45
49	Solar-driven Pt modified hollow structured CdS photocatalyst for efficient hydrogen evolution. <i>RSC Advances</i> , 2014, 4, 36665.	3.6	15
50	Facile aqueous synthesis of AgI nanoplates as efficient visible-light-responsive photocatalyst. <i>Dalton Transactions</i> , 2014, 43, 300-305.	3.3	65
51	Hollow AgI:Ag Nanoframes as Solar Photocatalysts for Hydrogen Generation from Water Reduction. <i>ChemSusChem</i> , 2013, 6, 1931-1937.	6.8	25
52	Graphene oxide coupled AgBr nanosheets: an efficient dual-functional visible-light-responsive nanophotocatalyst with enhanced performance. <i>Journal of Materials Chemistry A</i> , 2013, 1, 2827.	10.3	33
53	Plasmonic enhancement of photocatalysis over Ag incorporated AgI hollow nanostructures. <i>RSC Advances</i> , 2013, 4, 2409-2413.	3.6	38