Junxue Liu

List of Publications by Year in descending order

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	Observation of Internal Photoinduced Electron and Hole Separation in Hybrid Two-Dimentional Perovskite Films. Journal of the American Chemical Society, 2017, 139, 1432-1435.	13.7	477
2	Boosting Interfacial Charge-Transfer Kinetics for Efficient Overall CO₂ Photoreduction via Rational Design of Coordination Spheres on Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 12515-12523.	13.7	289
3	Visible-light-driven coproduction of diesel precursors and hydrogen from lignocellulose-derived methylfurans. Nature Energy, 2019, 4, 575-584.	39.5	268
4	Ultralong UV/mechano-excited room temperature phosphorescence from purely organic cluster excitons. Nature Communications, 2019, 10, 5161.	12.8	216
5	Photo-generated dinuclear {Eu(II)}2 active sites for selective CO2 reduction in a photosensitizing metal-organic framework. Nature Communications, 2018, 9, 3353.	12.8	195
6	Dynamical Transformation of Two-Dimensional Perovskites with Alternating Cations in the Interlayer Space for High-Performance Photovoltaics. Journal of the American Chemical Society, 2019, 141, 2684-2694.	13.7	189
7	Enhancing the Photocatalytic Hydrogen Evolution Activity of Mixed-Halide Perovskite CH₃NH₃PbBr_{3â€“x}I_x Achieved by Bandgap Funneling of Charge Carriers. ACS Catalysis, 2018, 8, 10349-10357.	11.2	159
8	Synthesis of few-layer 1Tâ€²-MoTe₂ ultrathin nanosheets for high-performance pseudocapacitors. Journal of Materials Chemistry A, 2017, 5, 1035-1042.	10.3	134
9	Tailoring vertical phase distribution of quasi-two-dimensional perovskite films via surface modification of hole-transporting layer. Nature Communications, 2019, 10, 878.	12.8	115
10	(C₆H₅C₂H₄NH₃)₂GeI₄: A Layered Two-Dimensional Perovskite with Potential for Photovoltaic Applications. Journal of Physical Chemistry Letters, 2017, 8, 4402-4406.	4.6	98
11	Lead-Free, Two-Dimensional Mixed Germanium and Tin Perovskites. Journal of Physical Chemistry Letters, 2018, 9, 2518-2522.	4.6	92
12	Efficient photoredox conversion of alcohol to aldehyde and H₂ by heterointerface engineering of bimetalâ€“semiconductor hybrids. Chemical Science, 2019, 10, 3514-3522.	7.4	90
13	Ultrathin Co(Ni)-doped MoS2 nanosheets as catalytic promoters enabling efficient solar hydrogen production. Nano Research, 2016, 9, 2284-2293.	10.4	80
14	Trap-Enabled Long-Distance Carrier Transport in Perovskite Quantum Wells. Journal of the American Chemical Society, 2020, 142, 15091-15097.	13.7	66
15	Facile aqueous synthesis of Î²-AgI nanoplates as efficient visible-light-responsive photocatalyst. Dalton Transactions, 2014, 43, 300-305.	3.3	65
16	Engineering monomer structure of carbon nitride for the effective and mild photooxidation reaction. Carbon, 2016, 100, 450-455.	10.3	65
17	Bromine Doping as an Efficient Strategy to Reduce the Interfacial Defects in Hybrid Two-Dimensional/Three-Dimensional Stacking Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 31755-31764.	8.0	65
18	Intralayer A-Site Compositional Engineering of Ruddlesdenâ€“Popper Perovskites for Thermostable and Efficient Solar Cells. ACS Energy Letters, 2019, 4, 1216-1224.	17.4	65

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19	Long-term production of H2 over Pt/CdS nanoplates under sunlight illumination. Chemical Engineering Journal, 2016, 283, 351-357.	12.7	58
20	Decoupling Interfacial Charge Transfer from Bulk Diffusion Unravels Its Intrinsic Role for Efficient Charge Extraction in Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2016, 7, 5056-5061.	4.6	55
21	Nanospatial Charge Modulation of Monodispersed Polymeric Microsphere Photocatalysts for Exceptional Hydrogen Peroxide Production. Small, 2021, 17, e2103224.	10.0	48
22	Limiting Perovskite Solar Cell Performance by Heterogeneous Carrier Extraction. Angewandte Chemie - International Edition, 2016, 55, 13067-13071.	13.8	47
23	Concaving AgI sub-microparticles for enhanced photocatalysis. Nano Energy, 2014, 9, 204-211.	16.0	45
24	Photocatalytic performance of Cu2O-loaded TiO2/rGO nanoheterojunctions obtained by UV reduction. Journal of Materials Science, 2017, 52, 6754-6766.	3.7	45
25	Stable Two-Photon Pumped Amplified Spontaneous Emission from Millimeter-Sized CsPbBr₃ Single Crystals. Journal of Physical Chemistry Letters, 2019, 10, 2357-2362.	4.6	43
26	NiS nanoparticle decorated MoS₂ nanosheets as efficient promoters for enhanced solar H₂ evolution over Zn_xCd_{1â^'x}S nanorods. Inorganic Chemistry Frontiers, 2017, 4, 1042-1047.	6.0	41
27	Hierarchical self-supported C@TiO2-MoS2 core-shell nanofiber mats as flexible anode for advanced lithium ion batteries. Applied Surface Science, 2017, 423, 375-382.	6.1	40
28	Plasmonic enhancement of photocatalysis over Ag incorporated AgI hollow nanostructures. RSC Advances, 2013, 4, 2409-2413.	3.6	38
29	Engineered Directional Charge Flow in Mixed Two-Dimensional Perovskites Enabled by Facile Cation-Exchange. Journal of Physical Chemistry C, 2017, 121, 21281-21289.	3.1	38
30	Graphene oxide coupled AgBr nanosheets: an efficient dual-functional visible-light-responsive nanophotocatalyst with enhanced performance. Journal of Materials Chemistry A, 2013, 1, 2827.	10.3	33
31	Ultrafast Dopant-Induced Exciton Auger-like Recombination in Mn-Doped Perovskite Nanocrystals. ACS Energy Letters, 2020, 5, 328-334.	17.4	33
32	Carbon quantum dots decorated hierarchical Ni(OH)2 with lamellar structure for outstanding supercapacitor. Materials Letters, 2017, 186, 131-134.	2.6	27
33	Hollow AgI:Ag Nanoframes as Solar Photocatalysts for Hydrogen Generation from Water Reduction. ChemSusChem, 2013, 6, 1931-1937.	6.8	25
34	Artifacts in Transient Absorption Measurements of Perovskite Films Induced by Transient Reflection from Morphological Microstructures. Journal of Physical Chemistry Letters, 2019, 10, 97-101.	4.6	25
35	Macroscopic assembled graphene nanofilms based room temperature ultrafast midâ€infrared photodetectors. InformaÂnÂ-MateriÃ¡ly, 2022, 4, .	17.3	24
36	Long-Lived Internal Charge-Separated State in Two-Dimensional Metalâ€“Organic Frameworks Improving Photocatalytic Performance. ACS Energy Letters, 2022, 7, 2323-2330.	17.4	24

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37	Unraveling the Kinetics of Photocatalytic Water Oxidation on WO₃. Journal of Physical Chemistry Letters, 2020, 11, 412-418.	4.6	21
38	Synthesis of heterostructured Pd@TiO 2 /TiOF 2 nanohybrids with enhanced photocatalytic performance. Materials Research Bulletin, 2016, 80, 337-343.	5.2	19
39	Sunlight Control of Interfacial Magnetism for Solar Driven Spintronic Applications. Advanced Science, 2019, 6, 1901994.	11.2	16
40	Solar-driven Pt modified hollow structured CdS photocatalyst for efficient hydrogen evolution. RSC Advances, 2014, 4, 36665.	3.6	15
41	High-air-flow-velocity assisted intermediate phase engineering for controlled crystallization of mixed perovskite in high efficiency photovoltaics. Journal of Materials Chemistry A, 2018, 6, 8860-8867.	10.3	15
42	Limiting Perovskite Solar Cell Performance by Heterogeneous Carrier Extraction. Angewandte Chemie, 2016, 128, 13261-13265.	2.0	14
43	Water-stable Mn-based MOF nanosheet as robust visible-light-responsive photocatalyst in aqueous solution. Science China Chemistry, 2020, 63, 1756-1760.	8.2	14
44	Silver Iodide Nanospheres Wrapped in Reduced Graphene Oxide for Enhanced Photocatalysis. ChemCatChem, 2015, 7, 2918-2923.	3.7	13
45	Performance Enhancement of Ternary Polymer Solar Cells Induced by Tetrafluorotetracyanoquinodimethane Doping. Chemistry of Materials, 2019, 31, 7650-7656.	6.7	11
46	Macroscopic-Assembled-Graphene Nanofilms/Germanium Broadband Photodetectors. , 2021, , .		6
47	Photovoltaic Control of Ferromagnetism for Flexible Spintronics. ACS Applied Materials & Interfaces, 2020, 12, 41999-42006.	8.0	5
48	In situ thermolysis of Pt-carbonyl complex to form supported clean Pt nanoclusters with enhanced catalytic performance. Science China Materials, 2017, 60, 131-140.	6.3	4
49	Synthesis of AgInS2-xAg2S-yZnS-zIn6S7 (x, y, z = 0, or 1) Nanocomposites with Composition-Dependent Activity towards Solar Hydrogen Evolution. Materials, 2016, 9, 329.	2.9	3
50	Photoinduced Ultrafast Electron Transfer and Charge Transport in a PbI₂/C₆₀ Heterojunction. Journal of Physical Chemistry C, 2019, 123, 30791-30798.	3.1	3
51	Solar Driven Spintronics: Sunlight Control of Interfacial Magnetism for Solar Driven Spintronic Applications (Adv. Sci. 24/2019). Advanced Science, 2019, 6, 1970147.	11.2	1
52	Defect-Induced Inhomogeneous Phase Transition in 2D Perovskite Single Crystals at Low Temperatures. ACS Omega, 2021, 6, 35427-35432.	3.5	1
53	A novel organic-inorganic hybrid composition for controllably synthesizing AgI nanocrystals. AIP Conference Proceedings, 2017, , .	0.4	0