

Junhui Wang

List of Publications by Year in descending order

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44
papers

1,979
citations

257450

24
h-index

243625

44
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45
all docs

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docs citations

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times ranked

2072
citing authors

#	ARTICLE	IF	CITATIONS
1	Triplet Energy Transfer from CsPbBr ₃ Nanocrystals Enabled by Quantum Confinement. <i>Journal of the American Chemical Society</i> , 2019, 141, 4186-4190.	13.7	169
2	Regulating Local Electron Density of Iron Single Sites by Introducing Nitrogen Vacancies for Efficient Photo-Fenton Process. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21261-21266.	13.8	158
3	Covalent organic frameworks with high quantum efficiency in sacrificial photocatalytic hydrogen evolution. <i>Nature Communications</i> , 2022, 13, 2357.	12.8	156
4	Dimension control of in situ fabricated CsPbClBr ₂ nanocrystal films toward efficient blue light-emitting diodes. <i>Nature Communications</i> , 2020, 11, 6428.	12.8	147
5	Promoting Photocatalytic H ₂ Evolution on Organic-Inorganic Hybrid Perovskite Nanocrystals by Simultaneous Dual-Charge Transportation Modulation. <i>ACS Energy Letters</i> , 2019, 4, 40-47.	17.4	127
6	Isomerism in Titanium-Oxo Clusters: Molecular Anatase Model with Atomic Structure and Improved Photocatalytic Activity. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1320-1323.	13.8	121
7	Postsynthesis Phase Transformation for CsPbBr ₃ /Rb ₄ PbBr ₆ Core/Shell Nanocrystals with Exceptional Photostability. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 23303-23310.	8.0	98
8	Boosting the Electrocatalysis of MXenes by Plasmon-Induced Thermalization and Hot-Electron Injection. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9416-9420.	13.8	78
9	Defects Engineering Leads to Enhanced Photocatalytic H ₂ Evolution on Graphitic Carbon Nitride-Covalent Organic Framework Nanosheet Composite. <i>Small</i> , 2020, 16, e2001100.	10.0	72
10	Reverse-Graded 2D Ruddlesden-Popper Perovskites for Efficient Air-Stable Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1900612.	19.5	69
11	Tailoring of electronic and surface structures boosts exciton-triggering photocatalysis for singlet oxygen generation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	61
12	Pt-Cu Interaction Induced Construction of Single Pt Sites for Synchronous Electron Capture and Transfer in Photocatalysis. <i>Advanced Functional Materials</i> , 2021, 31, 2104343.	14.9	50
13	Mechanistic Understanding of Efficient Photocatalytic H ₂ Evolution on Two-Dimensional Layered Lead Iodide Hybrid Perovskites. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7376-7381.	13.8	48
14	An oligomeric semiconducting nanozyme with ultrafast electron transfers alleviates acute brain injury. <i>Science Advances</i> , 2021, 7, eabk1210.	10.3	46
15	Low-Threshold Blue Quasi-2D Perovskite Laser through Domain Distribution Control. <i>Nano Letters</i> , 2022, 22, 1338-1344.	9.1	44
16	Carrier Doping by Pump-Probe Spectroscopy in Combination with Interfacial Charge Transfer: A Case Study of CsPbBr ₃ Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 3372-3377.	4.6	42
17	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
18	Charge Transfer from n-Doped Nanocrystals: Mimicking Intermediate Events in Multielectron Photocatalysis. <i>Journal of the American Chemical Society</i> , 2018, 140, 7791-7794.	13.7	37

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19	Picosecond multi-hole transfer and microsecond charge-separated states at the perovskite nanocrystal/tetracene interface. <i>Chemical Science</i> , 2019, 10, 2459-2464.	7.4	33
20	Electric-Field-Mediated Electron Tunneling of Supramolecular Naphthalimide Nanostructures for Biomimetic H ₂ Production. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1235-1243.	13.8	33
21	Molecular Dipole-Induced Photoredox Catalysis for Hydrogen Evolution over Self-Assembled Naphthalimide Nanoribbons. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	31
22	A supramolecular polymeric heterojunction composed of an all-carbon conjugated polymer and fullerenes. <i>Chemical Science</i> , 2021, 12, 10506-10513.	7.4	27
23	Marcus inverted region of charge transfer from low-dimensional semiconductor materials. <i>Nature Communications</i> , 2021, 12, 6333.	12.8	27
24	Spin-Controlled Charge-Recombination Pathways across the Inorganic/Organic Interface. <i>Journal of the American Chemical Society</i> , 2020, 142, 4723-4731.	13.7	25
25	Host-Guest and Photophysical Behavior of Ti ₈ L ₁₂ Cube with Encapsulated [Ti(H ₂ O) ₆] Species. <i>Chemistry - A European Journal</i> , 2018, 24, 14358-14362.	3.3	24
26	Spin blockade and phonon bottleneck for hot electron relaxation observed in n-doped colloidal quantum dots. <i>Nature Communications</i> , 2021, 12, 550.	12.8	23
27	Isomerism in Titanium-Oxo Clusters: Molecular Anatase Model with Atomic Structure and Improved Photocatalytic Activity. <i>Angewandte Chemie</i> , 2019, 131, 1334-1337.	2.0	21
28	Electron Transfer into Electron-Accumulated Nanocrystals: Mimicking Intermediate Events in Multielectron Photocatalysis II. <i>Journal of the American Chemical Society</i> , 2018, 140, 10117-10120.	13.7	20
29	Charge transfer dynamics and catalytic performance of a covalently linked hybrid assembly comprising a functionalized cobalt tetraazamacrocyclic catalyst and CuInS ₂ /ZnS quantum dots for photochemical hydrogen production. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27432-27440.	10.3	19
30	Coulomb Barrier for Sequential Two-Electron Transfer in a Nanoengineered Photocatalyst. <i>Journal of the American Chemical Society</i> , 2020, 142, 13934-13940.	13.7	19
31	Long-Lifetime and Asymmetric Singlet Oxygen Photoluminescence from Aqueous Fullerene Suspensions. <i>Langmuir</i> , 2013, 29, 9051-9056.	3.5	18
32	Electron and Hole Spin Relaxation in CdSe Colloidal Nanoplatelets. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 86-93.	4.6	13
33	Photo-Induced Cluster-to-Cluster Transformation of [Au ₃₇ Ag ₁₃ Cl ₁₀] ³⁺ into [Au ₂₅ Ag ₁₀ Cl ₈] ⁴⁺ : Fragmentation of a Trimer of 8-Electron Superatoms by Light. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10920-10926.	4.6	13
34	Regulating Local Electron Density of Iron Single Sites by Introducing Nitrogen Vacancies for Efficient Photo-Fenton Process. <i>Angewandte Chemie</i> , 2021, 133, 21431-21436.	2.0	12
35	Mechanistic Understanding of Efficient Photocatalytic H ₂ Evolution on Two-Dimensional Layered Lead Iodide Hybrid Perovskites. <i>Angewandte Chemie</i> , 2021, 133, 7452-7457.	2.0	9
36	Colloidal n-Doped CdSe and CdSe/ZnS Nanoplatelets. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11259-11266.	4.6	9

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37	Spin-enabled photochemistry using nanocrystal-molecule hybrids. <i>CheM</i> , 2022, , .	11.7	8
38	Molecular Dipole-Induced Photoredox Catalysis for Hydrogen Evolution over Self-Assembled Naphthalimide Nanoribbons. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	7
39	Carrier-doping as a tool to probe the electronic structure and multi-carrier recombination dynamics in heterostructured colloidal nanocrystals. <i>Chemical Science</i> , 2018, 9, 7253-7260.	7.4	6
40	Enhanced Luminescence by SPR-Induced Hot Electron Injection in Hybrid Au and Ga ₂ O ₃ :Ni Nanoglass Ceramics. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23394-23399.	3.1	6
41	Electric-Field-Mediated Electron Tunneling of Supramolecular Naphthalimide Nanostructures for Biomimetic H ₂ Production. <i>Angewandte Chemie</i> , 2021, 133, 1255-1263.	2.0	6
42	Boosting the Electrocatalysis of MXenes by Plasmon-Induced Thermalization and Hot-Electron Injection. <i>Angewandte Chemie</i> , 2021, 133, 9502-9506.	2.0	4
43	Study on gas phase collisional deactivation of O ₂ (a ¹ g) by alkanes and alkenes. <i>Journal of Chemical Physics</i> , 2013, 138, 024320.	3.0	3
44	Perovskite Solar Cells: Reverse-Graded 2D Ruddlesden-Popper Perovskites for Efficient Air-Stable Solar Cells (<i>Adv. Energy Mater.</i> 21/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970075.	19.5	1