

Lei Wang

List of Publications by Year in descending order

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36
papers

4,543
citations

293460

24
h-index

388640

36
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docs citations

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times ranked

5646
citing authors

#	ARTICLE	IF	CITATIONS
1	Rational Design of Covalent Heptazine Frameworks with Spatially Separated Redox Centers for High Efficiency Photocatalytic Hydrogen Peroxide Production. <i>Advanced Materials</i> , 2022, 34, e2107480.	11.1	119
2	Triangular Topological 2D Covalent Organic Frameworks Constructed via Symmetric or Asymmetric Two- and One-Type Monomers. <i>Advanced Science</i> , 2022, 9, e2105517.	5.6	12
3	Reaction Pathways toward Sustainable Photosynthesis of Hydrogen Peroxide by Polymer Photocatalysts. <i>Chemistry of Materials</i> , 2022, 34, 4259-4273.	3.2	60
4	Polarization Engineering of Covalent Triazine Frameworks for Highly Efficient Photosynthesis of Hydrogen Peroxide from Molecular Oxygen and Water. <i>Advanced Materials</i> , 2022, 34, e2110266.	11.1	136
5	A Transparent, High Performance, and Stable Sb ₂ S ₃ Photoanode Enabled by Heterojunction Engineering with Conjugated Polycarbazole Frameworks for Unbiased Photoelectrochemical Overall Water Splitting Devices. <i>Advanced Materials</i> , 2022, 34, e2200723.	11.1	30
6	2D Covalent Organic Frameworks Toward Efficient Photocatalytic Hydrogen Evolution. <i>ChemSusChem</i> , 2022, 15, .	3.6	35
7	Forming electron traps deactivates self-assembled crystalline organic nanosheets toward photocatalytic overall water splitting. <i>Science Bulletin</i> , 2021, 66, 265-274.	4.3	18
8	Stable Unbiased Photoelectrochemical Overall Water Splitting Exceeding 3% Efficiency via Covalent Triazine Framework/Metal Oxide Hybrid Photoelectrodes. <i>Advanced Materials</i> , 2021, 33, e2008264.	11.1	74
9	Reversing Immunosuppression in Hypoxic and Immune Cold Tumors with Ultrathin Oxygen Self-Supplementing Polymer Nanosheets under Near Infrared Light Irradiation. <i>Advanced Functional Materials</i> , 2021, 31, 2100354.	7.8	25
10	Fully Conjugated Ladder Polymers as Metal-Free Photocatalysts for Visible-Light-Driven Water Oxidation. <i>Chinese Journal of Chemistry</i> , 2021, 39, 1079-1084.	2.6	10
11	Selective CO ₂ to CH ₄ Photoconversion in Aqueous Solutions Catalyzed by Atomically Dispersed Copper Sites Anchored on Ultrathin Graphdiyne Oxide Nanosheets. <i>Solar Rrl</i> , 2021, 5, 2100200.	3.1	13
12	PEG-stabilized coaxial stacking of two-dimensional covalent organic frameworks for enhanced photocatalytic hydrogen evolution. <i>Nature Communications</i> , 2021, 12, 3934.	5.8	111
13	Ionic Covalent Organic Framework Nanozyme as Effective Cascade Catalyst against Bacterial Wound Infection. <i>Small</i> , 2021, 17, e2100756.	5.2	55
14	Enhanced photocatalytic H ₂ /H ₂ O ₂ production and tetracycline degradation performance of CdSe quantum dots supported on K, P, N-co-doped hollow carbon polyhedrons. <i>Chemical Engineering Journal</i> , 2021, 426, 130808.	6.6	22
15	A bridging coordination of urea tailoring metal hydroxides oxygen evolution catalysts promotes stable solar water splitting. <i>Chemical Engineering Journal</i> , 2021, 426, 131062.	6.6	21
16	Integrating bimetallic AuPd nanocatalysts with a 2D aza-fused π -conjugated microporous polymer for light-driven benzyl alcohol oxidation. <i>Chinese Chemical Letters</i> , 2020, 31, 231-234.	4.8	19
17	Acetylene and Diacetylene Functionalized Covalent Triazine Frameworks as Metal-Free Photocatalysts for Hydrogen Peroxide Production: A New Two-Electron Water Oxidation Pathway. <i>Advanced Materials</i> , 2020, 32, e1904433.	11.1	225
18	Modulating Benzothiadiazole-Based Covalent Organic Frameworks via Halogenation for Enhanced Photocatalytic Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16902-16909.	7.2	293

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19	Modulating Benzothiadiazole-Based Covalent Organic Frameworks via Halogenation for Enhanced Photocatalytic Water Splitting. <i>Angewandte Chemie</i> , 2020, 132, 17050-17057.	1.6	66
20	Thermally assisted photocatalytic conversion of CO ₂ to CH ₄ over carbon doped In ₂ S ₃ nanosheets. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10175-10179.	5.2	61
21	A Simple Molecular Design Strategy for Two-Dimensional Covalent Organic Framework Capable of Visible-Light-Driven Water Splitting. <i>Journal of the American Chemical Society</i> , 2020, 142, 4508-4516.	6.6	207
22	Facile preparation of novel CdxZn2-xGeO4 solid solutions with efficient photocatalytic hydrogen evolution. <i>Journal of Alloys and Compounds</i> , 2020, 830, 154391.	2.8	7
23	Rapid metal-free synthesis of pyridyl-functionalized conjugated microporous polymers for visible-light-driven water splitting. <i>Polymer Chemistry</i> , 2020, 11, 3393-3397.	1.9	31
24	Unraveling the Photocatalytic Water Dissociation Pathways on Two-Dimensional Conjugated Polymers. <i>ChemCatChem</i> , 2019, 11, 6236-6243.	1.8	8
25	Advanced Ultrathin RuPdM (M = Ni, Co, Fe) Nanosheets Electrocatalyst Boosts Hydrogen Evolution. <i>ACS Central Science</i> , 2019, 5, 1991-1997.	5.3	78
26	Ultrathin 2D Conjugated Polymer Nanosheets for Solar Fuel Generation. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2019, 37, 101-114.	2.0	12
27	Poly(benzothiadiazoles) and Their Derivatives as Heterogeneous Photocatalysts for Visible-Light-Driven Chemical Transformations. <i>ACS Catalysis</i> , 2018, 8, 4735-4750.	5.5	119
28	Van der Waals Heterostructures Comprised of Ultrathin Polymer Nanosheets for Efficient Z-scheme Overall Water Splitting. <i>Angewandte Chemie</i> , 2018, 130, 3512-3516.	1.6	64
29	Van der Waals Heterostructures Comprised of Ultrathin Polymer Nanosheets for Efficient Z-scheme Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3454-3458.	7.2	248
30	Ultrathin FeOOH Nanolayers with Abundant Oxygen Vacancies on BiVO ₄ Photoanodes for Efficient Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2248-2252.	7.2	558
31	Enabling Visible-Light-Driven Selective CO ₂ Reduction by Doping Quantum Dots: Trapping Electrons and Suppressing H ₂ Evolution. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16447-16451.	7.2	262
32	2D Polymers as Emerging Materials for Photocatalytic Overall Water Splitting. <i>Advanced Materials</i> , 2018, 30, e1801955.	11.1	211
33	Photocatalytic oxygen evolution from low-bandgap conjugated microporous polymer nanosheets: a combined first-principles calculation and experimental study. <i>Nanoscale</i> , 2017, 9, 4090-4096.	2.8	126
34	Conjugated Microporous Polymer Nanosheets for Overall Water Splitting Using Visible Light. <i>Advanced Materials</i> , 2017, 29, 1702428.	11.1	302
35	Highly Crystalline Mesoporous Silicon Spheres for Efficient Visible Photocatalytic Hydrogen Evolution. <i>ChemNanoMat</i> , 2017, 3, 22-26.	1.5	27
36	Ordered Mesoporous Black TiO ₂ as Highly Efficient Hydrogen Evolution Photocatalyst. <i>Journal of the American Chemical Society</i> , 2014, 136, 9280-9283.	6.6	878