

Lei Wang

List of Publications by Year in descending order

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36
papers

4,543
citations

236925

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345221

36
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docs citations

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times ranked

4971
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Ordered Mesoporous Black TiO ₂ as Highly Efficient Hydrogen Evolution Photocatalyst. <i>Journal of the American Chemical Society</i> , 2014, 136, 9280-9283. | 13.7 | 878 |
| 2 | 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. | 13.8 | 558 |
| 3 | Conjugated Microporous Polymer Nanosheets for Overall Water Splitting Using Visible Light. <i>Advanced Materials</i> , 2017, 29, 1702428. | 21.0 | 302 |
| 4 | Modulating Benzothiadiazole-Based Covalent Organic Frameworks via Halogenation for Enhanced Photocatalytic Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16902-16909. | 13.8 | 293 |
| 5 | 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. | 13.8 | 262 |
| 6 | 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. | 13.8 | 248 |
| 7 | 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. | 21.0 | 225 |
| 8 | 2D Polymers as Emerging Materials for Photocatalytic Overall Water Splitting. <i>Advanced Materials</i> , 2018, 30, e1801955. | 21.0 | 211 |
| 9 | 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. | 13.7 | 207 |
| 10 | 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. | 21.0 | 136 |
| 11 | 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. | 5.6 | 126 |
| 12 | Poly(benzothiadiazoles) and Their Derivatives as Heterogeneous Photocatalysts for Visible-Light-Driven Chemical Transformations. <i>ACS Catalysis</i> , 2018, 8, 4735-4750. | 11.2 | 119 |
| 13 | 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. | 21.0 | 119 |
| 14 | PEG-stabilized coaxial stacking of two-dimensional covalent organic frameworks for enhanced photocatalytic hydrogen evolution. <i>Nature Communications</i> , 2021, 12, 3934. | 12.8 | 111 |
| 15 | Advanced Ultrathin RuPdM (M = Ni, Co, Fe) Nanosheets Electrocatalyst Boosts Hydrogen Evolution. <i>ACS Central Science</i> , 2019, 5, 1991-1997. | 11.3 | 78 |
| 16 | Stable Unbiased Photo-Electrochemical Overall Water Splitting Exceeding 3% Efficiency via Covalent Triazine Framework/Metal Oxide Hybrid Photoelectrodes. <i>Advanced Materials</i> , 2021, 33, e2008264. | 21.0 | 74 |
| 17 | Modulating Benzothiadiazole-Based Covalent Organic Frameworks via Halogenation for Enhanced Photocatalytic Water Splitting. <i>Angewandte Chemie</i> , 2020, 132, 17050-17057. | 2.0 | 66 |
| 18 | Van der Waals Heterostructures Comprised of Ultrathin Polymer Nanosheets for Efficient Z-scheme Overall Water Splitting. <i>Angewandte Chemie</i> , 2018, 130, 3512-3516. | 2.0 | 64 |

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|----|---|------|-----------|
| 19 | Thermally assisted photocatalytic conversion of CO ₂ to CH ₄ over carbon doped In ₂ S ₃ nanosheets. Journal of Materials Chemistry A, 2020, 8, 10175-10179. | 10.3 | 61 |
| 20 | Reaction Pathways toward Sustainable Photosynthesis of Hydrogen Peroxide by Polymer Photocatalysts. Chemistry of Materials, 2022, 34, 4259-4273. | 6.7 | 60 |
| 21 | Ionic Covalent Organic Framework Nanozyme as Effective Cascade Catalyst against Bacterial Wound Infection. Small, 2021, 17, e2100756. | 10.0 | 55 |
| 22 | 2D Covalent Organic Frameworks Toward Efficient Photocatalytic Hydrogen Evolution. ChemSusChem, 2022, 15, . | 6.8 | 35 |
| 23 | Rapid metal-free synthesis of pyridyl-functionalized conjugated microporous polymers for visible-light-driven water splitting. Polymer Chemistry, 2020, 11, 3393-3397. | 3.9 | 31 |
| 24 | 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. Advanced Materials, 2022, 34, e2200723. | 21.0 | 30 |
| 25 | Highly Crystalline Mesoporous Silicon Spheres for Efficient Visible Photocatalytic Hydrogen Evolution. ChemNanoMat, 2017, 3, 22-26. | 2.8 | 27 |
| 26 | Reversing Immunosuppression in Hypoxic and Immune Cold Tumors with Ultrathin Oxygen Self-Supplementing Polymer Nanosheets under Near Infrared Light Irradiation. Advanced Functional Materials, 2021, 31, 2100354. | 14.9 | 25 |
| 27 | 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. Chemical Engineering Journal, 2021, 426, 130808. | 12.7 | 22 |
| 28 | A bridging coordination of urea tailoring metal hydroxides oxygen evolution catalysts promotes stable solar water splitting. Chemical Engineering Journal, 2021, 426, 131062. | 12.7 | 21 |
| 29 | Integrating bimetallic AuPd nanocatalysts with a 2D aza-fused π -conjugated microporous polymer for light-driven benzyl alcohol oxidation. Chinese Chemical Letters, 2020, 31, 231-234. | 9.0 | 19 |
| 30 | Forming electron traps deactivates self-assembled crystalline organic nanosheets toward photocatalytic overall water splitting. Science Bulletin, 2021, 66, 265-274. | 9.0 | 18 |
| 31 | Selective CO ₂ to CH ₄ Photoconversion in Aqueous Solutions Catalyzed by Atomically Dispersed Copper Sites Anchored on Ultrathin Graphdiyne Oxide Nanosheets. Solar Rrl, 2021, 5, 2100200. | 5.8 | 13 |
| 32 | Ultrathin 2D Conjugated Polymer Nanosheets for Solar Fuel Generation. Chinese Journal of Polymer Science (English Edition), 2019, 37, 101-114. | 3.8 | 12 |
| 33 | Triangular Topological 2D Covalent Organic Frameworks Constructed via Symmetric or Asymmetric α -Two- β -One-Type Monomers. Advanced Science, 2022, 9, e2105517. | 11.2 | 12 |
| 34 | Fully Conjugated Ladder Polymers as Metal-Free Photocatalysts for Visible-Light-Driven Water Oxidation. Chinese Journal of Chemistry, 2021, 39, 1079-1084. | 4.9 | 10 |
| 35 | Unraveling the Photocatalytic Water Dissociation Pathways on Two-Dimensional Conjugated Polymers. ChemCatChem, 2019, 11, 6236-6243. | 3.7 | 8 |
| 36 | Facile preparation of novel Cd _x Zn _{2-x} GeO ₄ solid solutions with efficient photocatalytic hydrogen evolution. Journal of Alloys and Compounds, 2020, 830, 154391. | 5.5 | 7 |