# Junqing Yan

List of Publications by Year
in descending order

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|---|---|---|---|
| 56<br>papers | 6,223<br>citations | 117453<br>34<br>h-index | 149479<br>56<br>g-index |
| 56<br>all docs | 56<br>docs citations | 56<br>times ranked | 10384<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Stable Highâ€Performance Perovskite Solar Cells via Grain Boundary Passivation. Advanced Materials, 2018, 30, e1706576. | 11.1 | 665 |
| 2 | Sub-10â€‰nm rutile titanium dioxide nanoparticles for efficient visible-light-driven photocatalytic hydrogen production. Nature Communications, 2015, 6, 5881. | 5.8 | 653 |
| 3 | Understanding the effect of surface/bulk defects on the photocatalytic activity of TiO2: anatase versus rutile. Physical Chemistry Chemical Physics, 2013, 15, 10978. | 1.3 | 549 |
| 4 | Tungsten Oxide Single Crystal Nanosheets for Enhanced Multichannel Solar Light Harvesting. Advanced Materials, 2015, 27, 1580-1586. | 11.1 | 436 |
| 5 | Single atom tungsten doped ultrathin Î±-Ni(OH)2 for enhanced electrocatalytic water oxidation. Nature Communications, 2019, 10, 2149. | 5.8 | 363 |
| 6 | Fabrication of TiO2/C3N4 heterostructure for enhanced photocatalytic Z-scheme overall water splitting. Applied Catalysis B: Environmental, 2016, 191, 130-137. | 10.8 | 344 |
| 7 | 3Dâ€“2Dâ€“0D Interface Profiling for Record Efficiency Allâ€Inorganic CsPbBrI<sub>2</sub> Perovskite Solar Cells with Superior Stability. Advanced Energy Materials, 2018, 8, 1703246. | 10.2 | 301 |
| 8 | Polymer Doping for Highâ€Efficiency Perovskite Solar Cells with Improved Moisture Stability. Advanced Energy Materials, 2018, 8, 1701757. | 10.2 | 293 |
| 9 | gâ€C<sub>3</sub>N<sub>4</sub> Loading Black Phosphorus Quantum Dot for Efficient and Stable Photocatalytic H<sub>2</sub> Generation under Visible Light. Advanced Functional Materials, 2018, 28, 1800668. | 7.8 | 257 |
| 10 | Recent Progress in Singleâ€Crystalline Perovskite Research Including Crystal Preparation, Property Evaluation, and Applications. Advanced Science, 2018, 5, 1700471. | 5.6 | 223 |
| 11 | Nb2O5/TiO2 heterojunctions: Synthesis strategy and photocatalytic activity. Applied Catalysis B: Environmental, 2014, 152-153, 280-288. | 10.8 | 207 |
| 12 | Fe(<scp>iii</scp>) doped NiS<sub>2</sub> nanosheet: a highly efficient and low-cost hydrogen evolution catalyst. Journal of Materials Chemistry A, 2017, 5, 10173-10181. | 5.2 | 137 |
| 13 | Polyoxometalate-Based Metalâ€“Organic Frameworks as Visible-Light-Induced Photocatalysts. Inorganic Chemistry, 2018, 57, 5030-5037. | 1.9 | 130 |
| 14 | One-pot hydrothermal fabrication of layered Î²-Ni(OH) 2 /g-C 3 N 4 nanohybrids for enhanced photocatalytic water splitting. Applied Catalysis B: Environmental, 2016, 194, 74-83. | 10.8 | 102 |
| 15 | High Density and Unit Activity Integrated in Amorphous Catalysts for Electrochemical Water Splitting. Small Structures, 2021, 2, 2000096. | 6.9 | 102 |
| 16 | Ag Nanoparticle-Sensitized WO<sub>3</sub> Hollow Nanosphere for Localized Surface Plasmon Enhanced Gas Sensors. ACS Applied Materials & Interfaces, 2016, 8, 18165-18172. | 4.0 | 90 |
| 17 | In Situ Synthesis of Fewâ€Layered gâ€C<sub>3</sub>N<sub>4</sub> with Vertically Aligned MoS<sub>2</sub> Loading for Boosting Solarâ€toâ€Hydrogen Generation. Small, 2018, 14, 1703003. | 5.2 | 90 |
| 18 | P Doped MoO<sub>3â^’</sub><sub>x</sub> Nanosheets as Efficient and Stable Electrocatalysts for Hydrogen Evolution. Small, 2017, 13, 1700441. | 5.2 | 88 |

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|---|---|---|---|
| 19 | Low-temperature and facile solution-processed two-dimensional TiS<sub>2</sub> as an effective electron transport layer for UV-stable planar perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 9132-9138. | 5.2 | 78 |
| 20 | Metal-doped Mo2C (metal = Fe, Co, Ni, Cu) as catalysts on TiO2 for photocatalytic hydrogen evolution in neutral solution. Chinese Journal of Catalysis, 2021, 42, 205-216. | 6.9 | 64 |
| 21 | Synergetic promotion of the photocatalytic activity of TiO2 by gold deposition under UV-visible light irradiation. Chemical Communications, 2013, 49, 11767. | 2.2 | 61 |
| 22 | Fe<sub>2</sub>O<sub>3</sub>/Câ€“C<sub>3</sub>N<sub>4</sub>-Based Tight Heterojunction for Boosting Visible-Light-Driven Photocatalytic Water Oxidation. ACS Sustainable Chemistry and Engineering, 2018, 6, 10436-10444. | 3.2 | 61 |
| 23 | One-pot fabrication of NiFe 2 O 4 nanoparticles on Î±-Ni(OH) 2 nanosheet for enhanced water oxidation. Journal of Power Sources, 2016, 324, 499-508. | 4.0 | 57 |
| 24 | Earth-abundant elements doping for robust and stable solar-driven water splitting by FeOOH. Journal of Materials Chemistry A, 2017, 5, 21478-21485. | 5.2 | 54 |
| 25 | Breaking Platinum Nanoparticles to Singleâ€Atomic Ptâ€C<sub>4</sub> Coâ€catalysts for Enhanced Solarâ€toâ€Hydrogen Conversion. Angewandte Chemie - International Edition, 2021, 60, 2541-2547. | 7.2 | 51 |
| 26 | Facile synthesis of an iron doped rutile TiO<sub>2</sub> photocatalyst for enhanced visible-light-driven water oxidation. Journal of Materials Chemistry A, 2015, 3, 21434-21438. | 5.2 | 50 |
| 27 | Recent Progress on Black Phosphorusâ€Based Materials for Photocatalytic Water Splitting. Small Methods, 2018, 2, 1800212. | 4.6 | 50 |
| 28 | 2D WS2 nanosheet supported Pt nanoparticles for enhanced hydrogen evolution reaction. International Journal of Hydrogen Energy, 2017, 42, 5472-5477. | 3.8 | 45 |
| 29 | Synthetic Design of Gold Nanoparticles on Anatase TiO<sub>2</sub> {001} for Enhanced Visible Light Harvesting. ACS Sustainable Chemistry and Engineering, 2014, 2, 1940-1946. | 3.2 | 42 |
| 30 | Carbonyl Linked Carbon Nitride Loading Few Layered MoS<sub>2</sub> for Boosting Photocatalytic Hydrogen Generation. ACS Sustainable Chemistry and Engineering, 2019, 7, 1389-1398. | 3.2 | 39 |
| 31 | Photo-Redeposition Synthesis of Bimetal Ptâ€“Cu Co-catalysts for TiO<sub>2</sub> Photocatalytic Solar-Fuel Production. ACS Sustainable Chemistry and Engineering, 2020, 8, 6055-6064. | 3.2 | 39 |
| 32 | Perovskite â€“ A wonder catalyst for solar hydrogen production. Journal of Energy Chemistry, 2021, 57, 325-340. | 7.1 | 39 |
| 33 | Air-stable phosphorus-doped molybdenum nitride for enhanced electrocatalytic hydrogen evolution. Communications Chemistry, 2018, 1, . | 2.0 | 36 |
| 34 | Controllable synthesis of Ag-WO3 core-shell nanospheres for light-enhanced gas sensors. Sensors and Actuators B: Chemical, 2017, 251, 583-589. | 4.0 | 35 |
| 35 | Nitrogen-promoted molybdenum dioxide nanosheets for electrochemical hydrogen generation. Journal of Materials Chemistry A, 2018, 6, 12532-12540. | 5.2 | 34 |
| 36 | Fabrication of nanoporous Ni and NiO via a dealloying strategy for water oxidation catalysis. Journal of Energy Chemistry, 2020, 50, 125-134. | 7.1 | 34 |

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|---|---|---|---|
| 37 | 2D-C<sub>3</sub>N<sub>4</sub> encapsulated perovskite nanocrystals for efficient photo-assisted thermocatalytic CO<sub>2</sub> reduction. Chemical Science, 2022, 13, 1335-1341. | 3.7 | 29 |
| 38 | Singleâ€Atom Doping and Highâ€Valence State for Synergistic Enhancement of NiO Electrocatalytic Water Oxidation. Small, 2021, 17, e2102448. | 5.2 | 28 |
| 39 | Surface Engineering to Reduce the Interfacial Resistance for Enhanced Photocatalytic Water Oxidation. ACS Catalysis, 2020, 10, 8742-8750. | 5.5 | 26 |
| 40 | Shapeâ€and Trapâ€Controlled Nanocrystals for Giantâ€Performance Improvement of Allâ€Inorganic Perovskite Photodetectors. Particle and Particle Systems Characterization, 2018, 35, 1700363. | 1.2 | 24 |
| 41 | Doubleâ€Site Niâ€“W Nanosheet for Best Alkaline HER Performance at High Current Density >500 mA cm<sup>â^'2</sup>. Advanced Materials Interfaces, 2019, 6, 1900308. | 1.9 | 24 |
| 42 | IrO<sub>x</sub>@In<sub>2</sub>O<sub>3</sub> Heterojunction from Individually Crystallized Oxides for Weakâ€Lightâ€Promoted Electrocatalytic Water Oxidation. Angewandte Chemie - International Edition, 2021, 60, 26790-26797. | 7.2 | 23 |
| 43 | Synthesis of a nano-sized hybrid C<sub>3</sub>N<sub>4</sub>/TiO<sub>2</sub> sample for enhanced and steady solar energy absorption and utilization. Sustainable Energy and Fuels, 2017, 1, 95-102. | 2.5 | 22 |
| 44 | P-type sub-tungsten-oxide based urchin-like nanostructure for superior room temperature alcohol sensor. Applied Surface Science, 2018, 441, 277-284. | 3.1 | 20 |
| 45 | Self-assembled CoOOH on TiO2 for enhanced photoelectrochemical water oxidation. Journal of Energy Chemistry, 2021, 60, 512-521. | 7.1 | 20 |
| 46 | Hydrothermal synthesis and photocatalytic properties of tantalum pentoxide nanorods. Chinese Journal of Catalysis, 2015, 36, 432-438. | 6.9 | 18 |
| 47 | Photoassisted Hydrothermal Synthesis of IrOxâ€“TiO<sub>2</sub> for Enhanced Water Oxidation. ACS Sustainable Chemistry and Engineering, 2019, 7, 17941-17949. | 3.2 | 18 |
| 48 | Black Phosphorusâ€Based Compound with Few Layers for Photocatalytic Water Oxidation. ChemCatChem, 2018, 10, 3424-3428. | 1.8 | 14 |
| 49 | Ultrafine metal nanoparticles loaded on TiO2 nanorods: Synthesis strategy and photocatalytic activity. Chinese Journal of Catalysis, 2015, 36, 1968-1975. | 6.9 | 11 |
| 50 | Unraveling the Mechanism of the Zn-Improved Catalytic Activity of Pd-Based Catalysts for Waterâ€“Gas Shift Reaction. Journal of Physical Chemistry C, 2016, 120, 20181-20191. | 1.5 | 9 |
| 51 | Nanosheets: Tungsten Oxide Single Crystal Nanosheets for Enhanced Multichannel Solar Light Harvesting (Adv. Mater. 9/2015). Advanced Materials, 2015, 27, 1579-1579. | 11.1 | 8 |
| 52 | Breaking Platinum Nanoparticles to Singleâ€Atomic Ptâ€“ 4 Coâ€catalysts for Enhanced Solarâ€toâ€Hydrogen Conversion. Angewandte Chemie, 2021, 133, 2571-2577. | 1.6 | 8 |
| 53 | Solid-state NMR investigation of the 16/17O isotope exchange of oxygen species in pure-anatase and mixed-phase TiO2. Chemical Physics Letters, 2014, 594, 34-40. | 1.2 | 7 |
| 54 | Enabling Solar Hydrogen Production over Selenium: Surface State Passivation and Cocatalyst Decoration. ACS Sustainable Chemistry and Engineering, 2021, 9, 9923-9931. | 3.2 | 7 |

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|---|---|---|---|
| 55 | Synthesis of hierarchical structure Cu2SnSe3 microsphere by a solvothermal method. Materials Letters, 2015, 161, 727-730. | 1.3 | 4 |
| 56 | IrO<sub>x</sub>@In<sub>2</sub>O<sub>3</sub> Heterojunction from Individually Crystallized Oxides for Weakâ€Lightâ€Promoted Electrocatalytic Water Oxidation. Angewandte Chemie, 2021, 133, 26994-27001. | 1.6 | 4 |