# Hajime Suzuki

List of Publications by Year
in descending order



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|---|---|---|---|
| 40 papers | 2,320 citations | 361045 20 h-index | 276539 41 g-index |
| 41 all docs | 41 docs citations | 41 times ranked | 2868 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Mimicking Natural Photosynthesis: Solar to Renewable H<sub>2</sub> Fuel Synthesis by Z-Scheme Water Splitting Systems. Chemical Reviews, 2018, 118, 5201-5241. | 23.0 | 748 |
| 2 | Layered Perovskite Oxychloride Bi<sub>4</sub>NbO<sub>8</sub>Cl: A Stable Visible Light Responsive Photocatalyst for Water Splitting. Journal of the American Chemical Society, 2016, 138, 2082-2085. | 6.6 | 364 |
| 3 | Valence Band Engineering of Layered Bismuth Oxyhalides toward Stable Visible-Light Water Splitting: Madelung Site Potential Analysis. Journal of the American Chemical Society, 2017, 139, 18725-18731. | 6.6 | 144 |
| 4 | Developing sustainable, high-performance perovskites in photocatalysis: design strategies and applications. Chemical Society Reviews, 2021, 50, 13692-13729. | 18.7 | 97 |
| 5 | Identification of Prime Factors to Maximize the Photocatalytic Hydrogen Evolution of Covalent Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 9752-9762. | 6.6 | 94 |
| 6 | Flux Synthesis of Layered Oxyhalide Bi<sub>4</sub>NbO<sub>8</sub>Cl Photocatalyst for Efficient <i>Z</i>-Scheme Water Splitting Under Visible Light. ACS Applied Materials & Interfaces, 2019, 11, 5642-5650. | 4.0 | 89 |
| 7 | Lead Bismuth Oxyhalides PbBiO<sub>2</sub>X (X = Cl, Br) as Visible-Light-Responsive Photocatalysts for Water Oxidation: Role of Lone-Pair Electrons in Valence Band Engineering. Chemistry of Materials, 2018, 30, 5862-5869. | 3.2 | 82 |
| 8 | Hydride in BaTiO<sub>2.5</sub>H<sub>0.5</sub>: A Labile Ligand in Solid State Chemistry. Journal of the American Chemical Society, 2015, 137, 15315-15321. | 6.6 | 69 |
| 9 | Conduction Band Control of Oxyhalides with a Triple-Fluorite Layer for Visible Light Photocatalysis. Journal of the American Chemical Society, 2021, 143, 2491-2499. | 6.6 | 52 |
| 10 | Band Engineering of Double-Layered SillÃ©nâ€“Aurivillius Perovskite Oxychlorides for Visible-Light-Driven Water Splitting. Chemistry of Materials, 2019, 31, 3419-3429. | 3.2 | 50 |
| 11 | Two-step photocatalytic water splitting into H<sub>2</sub> and O<sub>2</sub> using layered metal oxide KCa<sub>2</sub>Nb<sub>3</sub>O<sub>10</sub> and its derivatives as O<sub>2</sub>-evolving photocatalysts with IO<sub>3</sub><sup>â^'</sup>/I<sup>â^'</sup> or Fe<sup>3+</sup>/Fe<sup>2+</sup> redox mediator. Catalysis Science and Technology, 2015, 5, 2640-2648. | 2.1 | 46 |
| 12 | Layered Perovskite Oxyiodide with Narrow Band Gap and Long Lifetime Carriers for Water Splitting Photocatalysis. Journal of the American Chemical Society, 2021, 143, 8446-8453. | 6.6 | 46 |
| 13 | Highly Dispersed RuO<sub>2</sub> Hydrates Prepared via Simple Adsorption as Efficient Cocatalysts for Visible-Light-Driven Z-Scheme Water Splitting with an IO<sub>3</sub><sup>â€"</sup>/I<sup>â€"</sup> Redox Mediator. ACS Catalysis, 2017, 7, 4336-4343. | 5.5 | 42 |
| 14 | Tungstic acids H<sub>2</sub>WO<sub>4</sub> and H<sub>4</sub>WO<sub>5</sub> as stable photocatalysts for water oxidation under visible light. Journal of Materials Chemistry A, 2017, 5, 10280-10288. | 5.2 | 33 |
| 15 | Two-Dimensional Metalâ€“Organic Framework Acts as a Hydrogen Evolution Cocatalyst for Overall Photocatalytic Water Splitting. ACS Catalysis, 2022, 12, 3881-3889. | 5.5 | 32 |
| 16 | New rare earth hafnium oxynitride perovskites with photocatalytic activity in water oxidation and reduction. Chemical Communications, 2018, 54, 1525-1528. | 2.2 | 31 |
| 17 | Photoconductivityâ€“Lifetime Product Correlates Well with the Photocatalytic Activity of Oxyhalides Bi<sub>4</sub>TaO<sub>8</sub>Cl and PbBiO<sub>2</sub>Cl: An Approach to Boost Their O<sub>2</sub> Evolution Rates. ACS Energy Letters, 2019, 4, 1572-1578. | 8.8 | 31 |
| 18 | Design of nitrogen-doped layered tantalates for non-sacrificial and selective hydrogen evolution from water under visible light. Journal of Materials Chemistry A, 2016, 4, 14444-14452. | 5.2 | 29 |

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|---|---|---|---|
| 19 | Exploring the Relationship between Effective Mass, Transient Photoconductivity, and Photocatalytic Activity of Sr<sub><i>x</i></sub>Pb<sub>1â€“<i>x</i></sub>BiO<sub>2</sub>Cl (<i>x</i> = 0â€“1) Oxyhalides. Chemistry of Materials, 2020, 32, 4166-4173. | 3.2 | 24 |
| 20 | Synthesis, band structure and photocatalytic properties of SillÃ©nâ€“Aurivillius oxychlorides BaBi<sub>5</sub>Ti<sub>3</sub>O<sub>14</sub>Cl, Ba<sub>2</sub>Bi<sub>5</sub>Ti<sub>4</sub>O<sub>17</sub>Cl and Ba<sub>3</sub>Bi<sub>5</sub>Ti<sub>5</sub>O<sub>20</sub>Cl with triple-, quadruple- and quintuple-perovskite layers. Journal of Materials Chemistry A, 2021, 9, 8332-8340. | 5.2 | 22 |
| 21 | Z-Scheme Overall Water Splitting Using Zn<i><sub>x</sub></i>Cd<sub>1â€“<i>x</i></sub>Se Particles Coated with Metal Cyanoferrates as Hydrogen Evolution Photocatalysts. ACS Catalysis, 2021, 11, 8004-8014. | 5.5 | 21 |
| 22 | Supramolecular photocatalysts fixed on the inside of the polypyrrole layer in dye sensitized molecular photocathodes: application to photocatalytic CO<sub>2</sub> reduction coupled with water oxidation. Chemical Science, 2021, 12, 13216-13232. | 3.7 | 20 |
| 23 | Improved visible-light activity of nitrogen-doped layered niobate photocatalysts by NH3-nitridation with KCl flux. Applied Catalysis B: Environmental, 2018, 232, 49-54. | 10.8 | 19 |
| 24 | Z-scheme Water Splitting into H2 and O2 Using Tungstic Acid as an Oxygen-evolving Photocatalyst under Visible Light Irradiation. Chemistry Letters, 2015, 44, 1134-1136. | 0.7 | 17 |
| 25 | Manipulation of charge carrier flow in Bi<sub>4</sub>NbO<sub>8</sub>Cl nanoplate photocatalyst with metal loading. Chemical Science, 2022, 13, 3118-3128. | 3.7 | 17 |
| 26 | Complex Photoconductivity Reveals How the Nonstoichiometric Sr/Ti Affects the Charge Dynamics of a SrTiO3 Photocatalyst. Journal of Physical Chemistry Letters, 2019, 10, 1986-1991. | 2.1 | 16 |
| 27 | Fe/Ru Oxide as a Versatile and Effective Cocatalyst for Boosting Z-Scheme Water-Splitting: Suppressing Undesirable Backward Electron Transfer. ACS Applied Materials & Interfaces, 2019, 11, 45606-45611. | 4.0 | 11 |
| 28 | Triple-layered SillÃ©nâ€“Aurivillius Perovskite Oxychloride Bi<sub>5</sub>PbTi<sub>3</sub>O<sub>14</sub>Cl as a Visible-light-responsive Photocatalyst for Water Splitting. Chemistry Letters, 2020, 49, 978-981. | 0.7 | 11 |
| 29 | PbBi<sub>3</sub>O<sub>4</sub>X<sub>3</sub> (X = Cl, Br) with Single/Double Halogen Layers as a Photocatalyst for Visible-Light-Driven Water Splitting: Impact of a Halogen Layer on the Band Structure and Stability. Chemistry of Materials, 2021, 33, 9580-9587. | 3.2 | 11 |
| 30 | A new lead-free SillÃ©nâ€“Aurivillius oxychloride Bi5SrTi3O14Cl with triple-perovskite layers for photocatalytic water splitting under visible light. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 408, 113095. | 2.0 | 8 |
| 31 | Earth-abundant iron(<scp>iii</scp>) species serves as a cocatalyst boosting the multielectron reduction of IO<sub>3</sub><sup>âˆ’</sup>/I<sup>âˆ’</sup>redox shuttle in Z-scheme photocatalytic water splitting. Journal of Materials Chemistry A, 2021, 9, 11718-11725. | 5.2 | 8 |
| 32 | Controlling the carrier density in niobium oxynitride BaNbO<sub>2</sub>N <i>via</i> cation doping for efficient photoelectrochemical water splitting under visible light. Sustainable Energy and Fuels, 2021, 5, 6181-6188. | 2.5 | 6 |
| 33 | The first example of an oxide semiconductor photocatalyst consisting of a heptavalent cation: visible-light-induced water oxidation on M<sub>3</sub>ReO<sub>8</sub>. Journal of Materials Chemistry A, 2018, 6, 1991-1994. | 5.2 | 5 |
| 34 | A pressure-assisted low temperature sintering of particulate bismuth chalcohalides BiSX (X = Br, I) for fabricating efficient photoelectrodes with porous structures. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 413, 113264. | 2.0 | 5 |
| 35 | Bi4AO6Cl2 (A = Ba, Sr, Ca) with Double and Triple Fluorite Layers for Visible-Light Water Splitting. Inorganic Chemistry, 2021, 60, 15667-15674. | 1.9 | 4 |
| 36 | Cobalt hexacyanoferrate as an effective cocatalyst boosting water oxidation on oxynitride TaON photocatalyst under visible light. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 426, 113753. | 2.0 | 4 |

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|---|---|---|---|
| 37 | Domain observation in the visible-light photocatalyst Bi<sub>4</sub>NbO<sub>8</sub>Br with the layered perovskite structure. Applied Physics Express, 2020, 13, 091004. | 1.1 | 3 |
| 38 | Visible-light-induced hydrogen evolution from water on hybrid photocatalysts consisting of synthetic chlorophyll-a derivatives with a carboxy group in the 20-substituent adsorbed on semiconductors. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 426, 113750. | 2.0 | 3 |
| 39 | Visible-Light-Responsive Oxyhalide PbBiO2Cl Photoelectrode: On-Site Flux Synthesis on a Fluorine-Doped Tin Oxide Electrode. ACS Applied Materials & Interfaces, 2021, 13, 5176-5183. | 4.0 | 2 |
| 40 | Improved water oxidation activity of a SillÃ©n SrBi<sub>3</sub>O<sub>4</sub>Cl<sub>3</sub> photocatalyst by flux method with an appropriate binary-component molten salt. Sustainable Energy and Fuels, 2022, 6, 3263-3270. | 2.5 | 1 |