Hajime Suzuki

List of Publications by Citations

39 papers	1,450 citations	17 h-index	38 g-index
41 ext. papers	1,877 ext. citations	12.7 avg, IF	4.82 L-index

#	Paper	IF	Citations
39	Mimicking Natural Photosynthesis: Solar to Renewable H Fuel Synthesis by Z-Scheme Water Splitting Systems. *Chemical Reviews*, **2018**, 118, 5201-5241	68.1	497
38	Layered Perovskite Oxychloride Bi4NbO8Cl: A Stable Visible Light Responsive Photocatalyst for Water Splitting. *Journal of the American Chemical Society*, **2016**, 138, 2082-5	16.4	265
37	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	16.4	95
36	Lead Bismuth Oxyhalides PbBiO2X (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	9.6	62
35	Flux Synthesis of Layered Oxyhalide BiNbOCl Photocatalyst for Efficient Z-Scheme Water Splitting Under Visible Light. *ACS Applied Materials & Interfaces*, **2019**, 11, 5642-5650	9.5	58
34	Identification of Prime Factors to Maximize the Photocatalytic Hydrogen Evolution of Covalent Organic Frameworks. *Journal of the American Chemical Society*, **2020**, 142, 9752-9762	16.4	55
33	Hydride in BaTiO2.5H0.5: A Labile Ligand in Solid State Chemistry. *Journal of the American Chemical Society*, **2015**, 137, 15315-21	16.4	54
32	Two-step photocatalytic water splitting into H2 and O2 using layered metal oxide KCa2Nb3O10 and its derivatives as O2-evolving photocatalysts with IO3⁻/I⁻ or Fe3+/Fe2+ redox mediator. *Catalysis Science and Technology*, **2015**, 5, 2640-2648	5.5	41
31	Highly Dispersed RuO2 Hydrates Prepared via Simple Adsorption as Efficient Cocatalysts for Visible-Light-Driven Z-Scheme Water Splitting with an IO3⁻/I⁻ Redox Mediator. *ACS Catalysis*, **2017**, 7, 4336-4343	13.1	33
30	Band Engineering of Double-Layered Sill□Aurivillius Perovskite Oxychlorides for Visible-Light-Driven Water Splitting. *Chemistry of Materials*, **2019**, 31, 3419-3429	9.6	32
29	New rare earth hafnium oxynitride perovskites with photocatalytic activity in water oxidation and reduction. *Chemical Communications*, **2018**, 54, 1525-1528	5.8	28
28	Tungstic acids H2WO4 and H4WO5 as stable photocatalysts for water oxidation under visible light. *Journal of Materials Chemistry A*, **2017**, 5, 10280-10288	13	23
27	Photoconductivity□lifetime Product Correlates Well with the Photocatalytic Activity of Oxyhalides Bi4TaO8Cl and PbBiO2Cl: An Approach to Boost Their O2 Evolution Rates. *ACS Energy Letters*, **2019**, 4, 1572-1578	20.1	21
26	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	13	21
25	Conduction Band Control of Oxyhalides with a Triple-Fluorite Layer for Visible Light Photocatalysis. *Journal of the American Chemical Society*, **2021**, 143, 2491-2499	16.4	20
24	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	16.4	19
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	21.8	17

22	Exploring the Relationship between Effective Mass, Transient Photoconductivity, and Photocatalytic Activity of SrxPb1−xBiO2Cl (x = 0−1) Oxyhalides. *Chemistry of Materials*, **2020**, 32, 4166-4173	9.6	12
21	Complex Photoconductivity Reveals How the Nonstoichiometric Sr/Ti Affects the Charge Dynamics of a SrTiO Photocatalyst. *Journal of Physical Chemistry Letters*, **2019**, 10, 1986-1991	6.4	11
20	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	1.7	10
19	Developing sustainable, high-performance perovskites in photocatalysis: design strategies and applications. *Chemical Society Reviews*, **2021**,	58.5	10
18	Z-Scheme Overall Water Splitting Using ZnxCd1−xSe Particles Coated with Metal Cyanoferrates as Hydrogen Evolution Photocatalysts. *ACS Catalysis*, **2021**, 11, 8004-8014	13.1	8
17	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	9.5	7
16	Supramolecular photocatalysts fixed on the inside of the polypyrrole layer in dye sensitized molecular photocathodes: application to photocatalytic CO reduction coupled with water oxidation. *Chemical Science*, **2021**, 12, 13216-13232	9.4	7
15	Synthesis, band structure and photocatalytic properties of Sillén–Aurivillius oxychlorides BaBi5Ti3O14Cl, Ba2Bi5Ti4O17Cl and Ba3Bi5Ti5O20Cl with triple-, quadruple- and quintuple-perovskite layers. *Journal of Materials Chemistry A*, **2021**, 9, 8332-8340	13	7
14	Triple-layered Sillén–Aurivillius Perovskite Oxychloride Bi5PbTi3O14Cl as a Visible-light-responsive Photocatalyst for Water Splitting. *Chemistry Letters*, **2020**, 49, 978-981	1.7	6
13	Manipulation of charge carrier flow in BiNbOCl nanoplate photocatalyst with metal loading.. *Chemical Science*, **2022**, 13, 3118-3128	9.4	4
12	Two-Dimensional Metal−Organic Framework Acts as a Hydrogen Evolution Cocatalyst for Overall Photocatalytic Water Splitting. *ACS Catalysis*, **2022**, 12, 3881-3889	13.1	4
11	A new lead-free Sillén–Aurivillius oxychloride Bi5SrTi3O14Cl with triple-perovskite layers for photocatalytic water splitting under visible light. *Journal of Photochemistry and Photobiology A: Chemistry*, **2021**, 408, 113095	4.7	3
10	Earth-abundant iron(III) species serves as a cocatalyst boosting the multielectron reduction of IO_3^- redox shuttle in Z-scheme photocatalytic water splitting. *Journal of Materials Chemistry A*, **2021**, 9, 11718-11725	13	3
9	PbBi3O4X3 (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	9.6	3
8	The first example of an oxide semiconductor photocatalyst consisting of a heptavalent cation: visible-light-induced water oxidation on M3ReO8. *Journal of Materials Chemistry A*, **2018**, 6, 1991-1994	13	2
7	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	4.7	2
6	Visible-Light-Responsive Oxyhalide PbBiOCl Photoelectrode: On-Site Flux Synthesis on a Fluorine-Doped Tin Oxide Electrode. *ACS Applied Materials & Interfaces*, **2021**, 13, 5176-5183	9.5	2
5	BiOCl (= Ba, Sr, Ca) with Double and Triple Fluorite Layers for Visible-Light Water Splitting. *Inorganic Chemistry*, **2021**, 60, 15667-15674	5.1	2

4	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	4.7	1
3	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	4.7	1
2	Controlling the Carrier Density in Niobium Oxynitride BaNbO2N via Cation Doping for Efficient Photoelectrochemical Water Splitting under Visible Light. *Sustainable Energy and Fuels*,	5.8	1
1	Domain observation in the visible-light photocatalyst Bi4NbO8Br with the layered perovskite structure. *Applied Physics Express*, **2020**, 13, 091004	2.4	0