

Mamiko Nakabayashi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66 papers	5,107 citations	30 h-index	68 g-index
68 ext. papers	6,639 ext. citations	14 avg, IF	5.71 L-index

#	Paper	IF	Citations
66	Scalable water splitting on particulate photocatalyst sheets with a solar-to-hydrogen energy conversion efficiency exceeding 1. <i>Nature Materials</i> , 2016 , 15, 611-5	27	979
65	Photocatalytic water splitting with a quantum efficiency of almost unity. <i>Nature</i> , 2020 , 581, 411-414	50.4	533
64	Surface Modification of CoO(x) Loaded BiVO ₄ Photoanodes with Ultrathin p-Type NiO Layers for Improved Solar Water Oxidation. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5053-60	16.4	436
63	A complex perovskite-type oxynitride: the first photocatalyst for water splitting operable at up to 600 nm. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 2955-9	16.4	311
62	Oxysulfide photocatalyst for visible-light-driven overall water splitting. <i>Nature Materials</i> , 2019 , 18, 827-832	27	222
61	Ultrastable low-bias water splitting photoanodes via photocorrosion inhibition and in situ catalyst regeneration. <i>Nature Energy</i> , 2017 , 2,	62.3	206
60	Positive onset potential and stability of Cu ₂ O-based photocathodes in water splitting by atomic layer deposition of a Ga ₂ O ₃ buffer layer. <i>Energy and Environmental Science</i> , 2015 , 8, 1493-1500	35.4	170
59	Enhancement of solar hydrogen evolution from water by surface modification with CdS and TiO ₂ on porous CuInS ₂ photocathodes prepared by an electrodeposition-sulfurization method. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 11808-12	16.4	151
58	Mg-Zr Cosubstituted Ta ₃ N ₅ Photoanode for Lower-Onset-Potential Solar-Driven Photoelectrochemical Water Splitting. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12780-3	16.4	147
57	Photoelectrochemical oxidation of water using BaTaO ₂ N photoanodes prepared by particle transfer method. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2227-30	16.4	140
56	Fabrication of a Core-Shell-Type Photocatalyst via Photodeposition of Group IV and V Transition Metal Oxyhydroxides: An Effective Surface Modification Method for Overall Water Splitting. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9627-34	16.4	135
55	Photocatalytic solar hydrogen production from water on a 100-m scale. <i>Nature</i> , 2021 , 598, 304-307	50.4	134
54	Highly Active GaN-Stabilized Ta ₃ N ₅ Thin-Film Photoanode for Solar Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4739-4743	16.4	110
53	A Novel Photocathode Material for Sunlight-Driven Overall Water Splitting: Solid Solution of ZnSe and Cu(In,Ga)Se ₂ . <i>Advanced Functional Materials</i> , 2016 , 26, 4570-4577	15.6	91
52	Z-scheme water splitting using particulate semiconductors immobilized onto metal layers for efficient electron relay. <i>Journal of Catalysis</i> , 2015 , 328, 308-315	7.3	91
51	Durable hydrogen evolution from water driven by sunlight using (Ag,Cu)GaSe photocathodes modified with CdS and CuGaSe. <i>Chemical Science</i> , 2015 , 6, 894-901	9.4	80
50	Band structure engineering and defect control of Ta ₃ N ₅ for efficient photoelectrochemical water oxidation. <i>Nature Catalysis</i> , 2020 , 3, 932-940	36.5	80

49	Visible Light-Driven Z-Scheme Water Splitting Using Oxysulfide H Evolution Photocatalysts. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3892-3896	6.4	78
48	Photocatalyst Sheets Composed of Particulate LaMg _{1/3} Ta _{2/3} O ₂ N and Mo-Doped BiVO ₄ for Z-Scheme Water Splitting under Visible Light. <i>ACS Catalysis</i> , 2016 , 6, 7188-7196	13.1	68
47	Defect-Rich NiCeOx Electrocatalyst with Ultrahigh Stability and Low Overpotential for Water Oxidation. <i>ACS Catalysis</i> , 2019 , 9, 1605-1611	13.1	64
46	A Complex Perovskite-Type Oxynitride: The First Photocatalyst for Water Splitting Operable at up to 600 nm. <i>Angewandte Chemie</i> , 2015 , 127, 2998-3002	3.6	56
45	Band engineering of perovskite-type transition metal oxynitrides for photocatalytic overall water splitting. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4544-4552	13	52
44	Photoreduced Graphene Oxide as a Conductive Binder to Improve the Water Splitting Activity of Photocatalyst Sheets. <i>Advanced Functional Materials</i> , 2016 , 26, 7011-7019	15.6	47
43	Efficient Solar-Driven Water Oxidation over Perovskite-Type BaNbO ₂ N Photoanodes Absorbing Visible Light up to 740 nm. <i>Advanced Energy Materials</i> , 2018 , 8, 1800094	21.8	47
42	Metal selenide photocatalysts for visible-light-driven Z-scheme pure water splitting. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7415-7422	13	46
41	Sequential cocatalyst decoration on BaTaON towards highly-active Z-scheme water splitting. <i>Nature Communications</i> , 2021 , 12, 1005	17.4	46
40	Ta ₃ N ₅ -Nanorods enabling highly efficient water oxidation via advantageous light harvesting and charge collection. <i>Energy and Environmental Science</i> , 2020 , 13, 1519-1530	35.4	42
39	Printable Photocatalyst Sheets Incorporating a Transparent Conductive Mediator for Z-Scheme Water Splitting. <i>Joule</i> , 2018 , 2, 2667-2680	27.8	41
38	Enhanced Hydrogen Evolution under Simulated Sunlight from Neutral Electrolytes on (ZnSe) (CuGaSe) Photocathodes Prepared by a Bilayer Method. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15329-15333	16.4	35
37	Highly Efficient Water Oxidation Photoanode Made of Surface Modified LaTiO ₃ N Particles. <i>Small</i> , 2016 , 12, 5468-5476	11	33
36	Surface Modifications of (ZnSe)(CuGaSe) to Promote Photocatalytic Z-Scheme Overall Water Splitting. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10633-10641	16.4	29
35	Application of LaMg _{1/3} Ta _{2/3} O ₂ N as a hydrogen evolution photocatalyst of a photocatalyst sheet for Z-scheme water splitting. <i>Applied Catalysis A: General</i> , 2016 , 521, 26-33	5.1	28
34	Simultaneous enhancement of photovoltage and charge transfer in Cu ₂ O-based photocathode using buffer and protective layers. <i>Applied Physics Letters</i> , 2016 , 109, 033902	3.4	25
33	Solar-Driven Water Splitting over a BaTaO ₂ N Photoanode Enhanced by Annealing in Argon. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5777-5784	6.1	23
32	Highly Active GaN-Stabilized Ta ₃ N ₅ Thin-Film Photoanode for Solar Water Oxidation. <i>Angewandte Chemie</i> , 2017 , 129, 4817-4821	3.6	22

31	Towards zero bias photoelectrochemical water splitting: onset potential improvement on a Mg:Ga _N modified-Ta ₃ N ₅ photoanode. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15265-15273	13	22
30	A particulate (ZnSe) _{0.85} (CuIn _{0.7} Ga _{0.3} Se ₂) _{0.15} photocathode modified with CdS and ZnS for sunlight-driven overall water splitting. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 21242-21248	13	21
29	Thin film transfer for the fabrication of tantalum nitride photoelectrodes with controllable layered structures for water splitting. <i>Chemical Science</i> , 2016 , 7, 5821-5826	9.4	21
28	The effects of annealing barium niobium oxynitride in argon on photoelectrochemical water oxidation activity. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 493-502	13	19
27	Simultaneously Tuning the Defects and Surface Properties of TaN Nanoparticles by Mg-Zr Codoping for Significantly Accelerated Photocatalytic H Evolution. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10059-10064	16.4	17
26	Efficient hydrogen evolution on (CuInS)(ZnS) solid solution-based photocathodes under simulated sunlight. <i>Chemical Communications</i> , 2019 , 55, 470-473	5.8	16
25	Enhancement of Charge Separation and Hydrogen Evolution on Particulate LaTiCuSO Photocathodes by Surface Modification. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 375-379	6.4	14
24	Stable Hydrogen Production from Water on an NIR-Responsive Photocathode under Harsh Conditions. <i>Small Methods</i> , 2018 , 2, 1800018	12.8	14
23	Activation of a particulate Ta ₃ N ₅ water-oxidation photoanode with a GaN hole-blocking layer. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 73-78	5.8	13
22	Interface engineering of TaN thin film photoanode for highly efficient photoelectrochemical water splitting.. <i>Nature Communications</i> , 2022 , 13, 729	17.4	13
21	Efficient photocatalytic hydrogen evolution on single-crystalline metal selenide particles with suitable cocatalysts. <i>Chemical Science</i> , 2020 , 11, 6436-6441	9.4	13
20	Enhancement of Solar Hydrogen Evolution from Water by Surface Modification with CdS and TiO ₂ on Porous CuInS ₂ Photocathodes Prepared by an Electrodeposition/Sulfurization Method. <i>Angewandte Chemie</i> , 2014 , 126, 12002-12006	3.6	12
19	Efficient Water Oxidation Using Ta N Thin Film Photoelectrodes Prepared on Insulating Transparent Substrates. <i>ChemSusChem</i> , 2020 , 13, 1974-1978	8.3	11
18	Surface Protective and Catalytic Layer Consisting of RuO and Pt for Stable Production of Methylcyclohexane Using Solar Energy. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44396-44402	9.5	11
17	A self-healing catalyst for electrocatalytic and photoelectrochemical oxygen evolution in highly alkaline conditions. <i>Nature Communications</i> , 2021 , 12, 5980	17.4	10
16	Effects of interfacial layers on the photoelectrochemical properties of tantalum nitride photoanodes for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13837-13843	13	10
15	Fabrication of BaTaO ₂ N Thin Films by Interfacial Reactions of BaCO ₃ /Ta ₃ N ₅ Layers on a Ta Substrate and Resulting High Photoanode Efficiencies During Water Splitting. <i>Solar Rrl</i> , 2020 , 4, 1900542	7.1	9
14	Self-activated Rh-Zr mixed oxide as a nonhazardous cocatalyst for photocatalytic hydrogen evolution. <i>Chemical Science</i> , 2020 , 11, 6862-6867	9.4	8

13	Molten salt flux synthesis of La ₅ Ti ₂ CuS ₅ O ₇ towards elongated single crystallites. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 055503	1.4	7
12	Sunlight-Driven Production of Methylcyclohexane from Water and Toluene Using ZnSe : Cu(In,Ga)Se ₂ -Based Photocathode. <i>ChemCatChem</i> , 2019 , 11, 4266-4271	5.2	7
11	Enhanced Hydrogen Evolution under Simulated Sunlight from Neutral Electrolytes on (ZnSe) _{0.85} (CuIn _{0.7} Ga _{0.3} Se ₂) _{0.15} Photocathodes Prepared by a Bilayer Method. <i>Angewandte Chemie</i> , 2016 , 128, 15555-15559	3.6	7
10	Upscaling of Temperature-Sensitive Particle Photocatalyst Electrodes: Fully Ambient and Scalable Roll-Press Fabrication of Ta ₃ N ₅ Photoelectrodes on Metal Substrate. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 19407-19414	8.3	6
9	Synthesis of Y ₂ Ti ₂ O ₅ S ₂ by thermal sulfidation for photocatalytic water oxidation and reduction under visible light irradiation. <i>Research on Chemical Intermediates</i> , 2021 , 47, 225-234	2.8	6
8	Synthesis of a Ga-doped La ₅ Ti ₂ Cu _{0.9} Ag _{0.1} O ₇ S ₅ photocatalyst by thermal sulfidation for hydrogen evolution under visible light. <i>Journal of Catalysis</i> , 2021 , 399, 230-236	7.3	5
7	Plasma-enhanced chemical vapor deposition Ta ₃ N ₅ synthesis leading to high current density during PEC oxygen evolution. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 2293-2300	5.8	4
6	Preparation of Size-controlled Ruthenium Metal Particles on Carbon from Hydrido-carbonyl Cluster Complex. <i>Chemistry Letters</i> , 1994 , 23, 1275-1278	1.7	4
5	Enhanced Overall Water Splitting by a Zirconium-Doped TaON-Based Photocatalyst.. <i>Angewandte Chemie - International Edition</i> , 2022 , e202116573	16.4	3
4	One-dimensional Anisotropic Electronic States in Needle-shaped La ₅ Ti ₂ CuS ₅ O ₇ Single Crystals Grown in Molten Salt in Bridgman Furnace. <i>Crystal Growth and Design</i> , 2019 , 19, 2419-2427	3.5	2
3	Innentitelbild: A Complex Perovskite-Type Oxynitride: The First Photocatalyst for Water Splitting Operable at up to 600 nm (Angew. Chem. 10/2015). <i>Angewandte Chemie</i> , 2015 , 127, 2900-2900	3.6	2
2	Cocatalyst engineering of a narrow bandgap Ga-La ₅ Ti ₂ Cu _{0.9} Ag _{0.1} O ₇ S ₅ photocatalyst towards effectively enhanced water splitting. <i>Journal of Materials Chemistry A</i> ,	13	1
1	Water Splitting: Stable Hydrogen Production from Water on an NIR-Responsive Photocathode under Harsh Conditions (Small Methods 5/2018). <i>Small Methods</i> , 2018 , 2, 1800029	12.8	