Mamiko Nakabayashi

List of Publications by Year in Descending Order

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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
 5,107
 30
 68

 papers
 6,639
 14
 5.71

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
66	Interface engineering of TaN thin film photoanode for highly efficient photoelectrochemical water splitting <i>Nature Communications</i> , 2022 , 13, 729	17.4	13
65	Enhanced Overall Water Splitting by a Zirconium-Doped TaON-Based Photocatalyst <i>Angewandte Chemie - International Edition</i> , 2022 , e202116573	16.4	3
64	A self-healing catalyst for electrocatalytic and photoelectrochemical oxygen evolution in highly alkaline conditions. <i>Nature Communications</i> , 2021 , 12, 5980	17.4	10
63	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
62	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
61	Synthesis of Y2Ti2O5S2 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
60	Sequential cocatalyst decoration on BaTaON towards highly-active Z-scheme water splitting. <i>Nature Communications</i> , 2021 , 12, 1005	17.4	46
59	Synthesis of a Ga-doped La5Ti2Cu0.9Ag0.1O7S5 photocatalyst by thermal sulfidation for hydrogen evolution under visible light. <i>Journal of Catalysis</i> , 2021 , 399, 230-236	7.3	5
58	Photocatalytic solar hydrogen production from water on a 100-m scale. <i>Nature</i> , 2021 , 598, 304-307	50.4	134
57	Photocatalytic water splitting with a quantum efficiency of almost unity. <i>Nature</i> , 2020 , 581, 411-414	50.4	533
56	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
55	Ta3N5-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
54	Efficient Water Oxidation Using Ta N Thin Film Photoelectrodes Prepared on Insulating Transparent Substrates. <i>ChemSusChem</i> , 2020 , 13, 1974-1978	8.3	11
53	Plasma-enhanced chemical vapor deposition Ta3N5 synthesis leading to high current density during PEC oxygen evolution. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 2293-2300	5.8	4
52	Fabrication of BaTaO2N Thin Films by Interfacial Reactions of BaCO3/Ta3N5 Layers on a Ta Substrate and Resulting High Photoanode Efficiencies During Water Splitting. <i>Solar Rrl</i> , 2020 , 4, 190054	12.1	9
51	Band structure engineering and defect control of Ta3N5 for efficient photoelectrochemical water oxidation. <i>Nature Catalysis</i> , 2020 , 3, 932-940	36.5	80
50	Efficient photocatalytic hydrogen evolution on single-crystalline metal selenide particles with suitable cocatalysts. <i>Chemical Science</i> , 2020 , 11, 6436-6441	9.4	13

(2017-2019)

49	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
48	Defect-Rich NiCeOx Electrocatalyst with Ultrahigh Stability and Low Overpotential for Water Oxidation. <i>ACS Catalysis</i> , 2019 , 9, 1605-1611	13.1	64
47	Efficient hydrogen evolution on (CuInS)(ZnS) solid solution-based photocathodes under simulated sunlight. <i>Chemical Communications</i> , 2019 , 55, 470-473	5.8	16
46	Sunlight-Driven Production of Methylcyclohexane from Water and Toluene Using ZnSe: Cu(In,Ga)Se2-Based Photocathode. <i>ChemCatChem</i> , 2019 , 11, 4266-4271	5.2	7
45	Oxysulfide photocatalyst for visible-light-driven overall water splitting. <i>Nature Materials</i> , 2019 , 18, 827	-8372	222
44	One-dimensional Anisotropic Electronic States in Needle-shaped La5Ti2CuS5O7 Single Crystals Grown in Molten Salt in Bridgman Furnace. <i>Crystal Growth and Design</i> , 2019 , 19, 2419-2427	3.5	2
43	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
42	Solar-Driven Water Splitting over a BaTaO2N Photoanode Enhanced by Annealing in Argon. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5777-5784	6.1	23
41	Upscaling of Temperature-Sensitive Particle Photocatalyst Electrodes: Fully Ambient and Scalable Roll-Press Fabrication of Ta3N5 Photoelectrodes on Metal Substrate. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 19407-19414	8.3	6
40	Stable Hydrogen Production from Water on an NIR-Responsive Photocathode under Harsh Conditions. <i>Small Methods</i> , 2018 , 2, 1800018	12.8	14
39	Activation of a particulate Ta3N5 water-oxidation photoanode with a GaN hole-blocking layer. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 73-78	5.8	13
38	Towards zero bias photoelectrochemical water splitting: onset potential improvement on a Mg:GaN modified-Ta3N5 photoanode. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15265-15273	13	22
37	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	
36	Surface Protective and Catalytic Layer Consisting of RuO and Pt for Stable Production of Methylcyclohexane Using Solar Energy. <i>ACS Applied Materials & District Materials</i> (2018), 10, 44396-44402	9.5	11
35	Printable Photocatalyst Sheets Incorporating a Transparent Conductive Mediator for Z-Scheme Water Splitting. <i>Joule</i> , 2018 , 2, 2667-2680	27.8	41
34	Efficient Solar-Driven Water Oxidation over Perovskite-Type BaNbO2N Photoanodes Absorbing Visible Light up to 740 nm. <i>Advanced Energy Materials</i> , 2018 , 8, 1800094	21.8	47
33	Molten salt flux synthesis of La5Ti2CuS5O7 towards elongated single crystallites. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 055503	1.4	7
32	Highly Active GaN-Stabilized Ta3N5 Thin-Film Photoanode for Solar Water Oxidation. <i>Angewandte Chemie</i> , 2017 , 129, 4817-4821	3.6	22

31	Highly Active GaN-Stabilized Ta N Thin-Film Photoanode for Solar Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4739-4743	16.4	110
30	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
29	Ultrastable low-bias water splitting photoanodes via photocorrosion inhibition and in situ catalyst regeneration. <i>Nature Energy</i> , 2017 , 2,	62.3	206
28	A particulate (ZnSe)0.85(CuIn0.7Ga0.3Se2)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
27	Highly Efficient Water Oxidation Photoanode Made of Surface Modified LaTiO N Particles. <i>Small</i> , 2016 , 12, 5468-5476	11	33
26	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
25	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
24	Photocatalyst Sheets Composed of Particulate LaMg1/3Ta2/3O2N and Mo-Doped BiVO4 for Z-Scheme Water Splitting under Visible Light. <i>ACS Catalysis</i> , 2016 , 6, 7188-7196	13.1	68
23	Enhanced Hydrogen Evolution under Simulated Sunlight from Neutral Electrolytes on (ZnSe)0.85(CuIn0.7Ga0.3Se2)0.15 Photocathodes Prepared by a Bilayer Method. <i>Angewandte Chemie</i> , 2016 , 128, 15555-15559	3.6	7
22	Enhanced Hydrogen Evolution under Simulated Sunlight from Neutral Electrolytes on (ZnSe) (CuIn Ga Se) Photocathodes Prepared by a Bilayer Method. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15329-15333	16.4	35
21	A Novel Photocathode Material for Sunlight-Driven Overall Water Splitting: Solid Solution of ZnSe and Cu(In,Ga)Se2. <i>Advanced Functional Materials</i> , 2016 , 26, 4570-4577	15.6	91
20	Application of LaMg1/3Ta2/3O2N 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
19	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
18	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
17	Simultaneous enhancement of photovoltage and charge transfer in Cu2O-based photocathode using buffer and protective layers. <i>Applied Physics Letters</i> , 2016 , 109, 033902	3.4	25
16	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
15	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
14	Positive onset potential and stability of Cu2O-based photocathodes in water splitting by atomic layer deposition of a Ga2O3 buffer layer. <i>Energy and Environmental Science</i> , 2015 , 8, 1493-1500	35.4	170

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13	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. Journal of the American Chemical Society, 2015 , 137, 9627-34	16.4	135
12	Surface Modification of CoO(x) Loaded BiVOIPhotoanodes 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
11	Mg-Zr Cosubstituted Ta3N5 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
10	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
9	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
8	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
7	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
6	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
5	Photoelectrochemical oxidation of water using BaTaO2N photoanodes prepared by particle transfer method. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2227-30	16.4	140
4	Enhancement of Solar Hydrogen Evolution from Water by Surface Modification with CdS and TiO2 on Porous CuInS2 Photocathodes Prepared by an ElectrodepositionBulfurization Method. Angewandte Chemie, 2014, 126, 12002-12006	3.6	12
3	Enhancement of solar hydrogen evolution from water by surface modification with CdS and TiO2 on porous CuInS2 photocathodes prepared by an electrodeposition-sulfurization method. Angewandte Chemie - International Edition, 2014, 53, 11808-12	16.4	151
2	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
1	Cocatalyst engineering of a narrow bandgap Ga-La5Ti2Cu0.9Ag0.1O7S5 photocatalyst towards effectively enhanced water splitting. <i>Journal of Materials Chemistry A</i> ,	13	1