Kazunari Domen

List of Publications by Year
in descending order

573 papers	88,790 citations	317 138 h-index	353 284 g-index
599 all docs	599 docs citations	599 times ranked	35678 citing authors

#	Article	IF	Citations
1	Unraveling of cocatalysts photodeposited selectively on facets of BiVO4 to boost solar water splitting. Nature Communications, 2022, 13, 484.	12.8	156
2	Interface engineering of Ta3N5 thin film photoanode for highly efficient photoelectrochemical water splitting. Nature Communications, 2022, 13, 729.	12.8	99
3	Enhanced Overall Water Splitting by a Zirconiumâ€Doped TaONâ€Based Photocatalyst. Angewandte Chemie - International Edition, 2022, 61, e202116573.	13.8	36
4	Enhanced Overall Water Splitting by a Zirconiumâ€Doped TaONâ€Based Photocatalyst. Angewandte Chemie, 2022, 134, .	2.0	2
5	Overall photosynthesis of H2O2 by an inorganic semiconductor. Nature Communications, 2022, 13, 1034.	12.8	105
6	Strategies and Methods of Modulating Nitrogen-Incorporated Oxide Photocatalysts for Promoted Water Splitting. Accounts of Materials Research, 2022, 3, 449-460.	11.7	20
7	Physical properties and photocatalytic activity of pulverized Ga-doped La5Ti2Cu0.9Ag0.1O7S5 powder. Materials Letters, 2022, 319, 132290.	2.6	0
8	The 2022 solar fuels roadmap. Journal Physics D: Applied Physics, 2022, 55, 323003.	2.8	58
9	Bimetallic Synergy in Ultrafine Cocatalyst Alloy Nanoparticles for Efficient Photocatalytic Water Splitting. Advanced Functional Materials, 2022, 32, .	14.9	35
10	(Invited) Solar Hydrogen Production with Particulate Photocatalysts. ECS Meeting Abstracts, 2022, MA2022-01, 1565-1565.	0.0	0
11	Boosted Hydrogenâ€Evolution Kinetics Over Particulate Lanthanum and Rhodiumâ€Doped Strontium Titanate Photocatalysts Modified with Phosphonate Groups. Angewandte Chemie - International Edition, 2021, 60, 3654-3660.	13.8	22
12	Boosted Hydrogenâ€Evolution Kinetics Over Particulate Lanthanum and Rhodiumâ€Doped Strontium Titanate Photocatalysts Modified with Phosphonate Groups. Angewandte Chemie, 2021, 133, 3698-3704.	2.0	0
13	Enhanced photoelectrochemical performance from particulate ZnSe:Cu(In,Ga)Se₂ photocathodes during solar hydrogen production <i>via</i> particle size control. Sustainable Energy and Fuels, 2021, 5, 412-423.	4.9	16
14	Probing fundamental losses in nanostructured Ta₃N₅ photoanodes: design principles for efficient water oxidation. Energy and Environmental Science, 2021, 14, 4038-4047.	30.8	31
15	Photocatalytic oxygen evolution triggered by photon upconverted emission based on tripletâ€"triplet annihilation. Physical Chemistry Chemical Physics, 2021, 23, 5673-5679.	2.8	6
16	Synthesis of Y2Ti2O5S2 by thermal sulfidation for photocatalytic water oxidation and reduction under visible light irradiation. Research on Chemical Intermediates, 2021, 47, 225-234.	2.7	19
17	A Na-containing Pt cocatalyst for efficient visible-light-induced hydrogen evolution on BaTaO₂N. Journal of Materials Chemistry A, 2021, 9, 13851-13854.	10.3	13
18	Linking in situ charge accumulation to electronic structure in doped SrTiO3 reveals design principles for hydrogen-evolving photocatalysts. Nature Materials, 2021, 20, 511-517.	27.5	82

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19	Microelectrode-based transient amperometry of O2 adsorption and desorption on a SrTiO3 photocatalyst excited under water. Physical Chemistry Chemical Physics, 2021, 23, 19386-19393.	2.8	3
20	Dual Ag/Co cocatalyst synergism for the highly effective photocatalytic conversion of CO₂ by H₂O over Al-SrTiO₃. Chemical Science, 2021, 12, 4940-4948.	7.4	34
21	Doped semiconductor photocatalysts. , 2021, , .		1
22	Effect of Mg²⁺ substitution on the photocatalytic water splitting activity of LaMg_xNb_{1âˆ’x}O_{1+3x}N_{2âˆ’3x}. Journal of Materials Chemistry A, 2021, 9, 8655-8662.	10.3	18
23	Efficiency Accreditation and Testing Protocols for Particulate Photocatalysts toward Solar Fuel Production. Joule, 2021, 5, 344-359.	24.0	165
24	Sequential cocatalyst decoration on BaTaO2N towards highly-active Z-scheme water splitting. Nature Communications, 2021, 12, 1005.	12.8	124
25	Maximizing Oxygen Evolution Performance on a Transparent NiFeO_{<i>x</i>}/Ta₃N₅ Photoelectrode Fabricated on an Insulator. ACS Applied Materials & Interfaces, 2021, 13, 16317-16325.	8.0	21
26	Surface-Modified Ta3N5 Photoanodes for Sunlight-Driven Overall Water Splitting by Photoelectrochemical Cells. Catalysts, 2021, 11, 584.	3.5	18
27	Photocatalytic and Photoelectrochemical Hydrogen Evolution from Water over Cu₂Sn_{<i>x</i>}Ge_{1â€“<i>x</i>}S₃ Particles. Journal of the American Chemical Society, 2021, 143, 5698-5708.	13.7	33
28	Oxygen Evolution Activity of LaNbN2O-Based Photocatalysts Obtained from Nitridation of a Precursor Oxide Structurally Modified by Incorporating Volatile Elements. Catalysts, 2021, 11, 566.	3.5	0
29	Recent Developments in Visibleâ€Lightâ€Absorbing Semitransparent Photoanodes for Tandem Cells Driving Solar Water Splitting. Advanced Energy and Sustainability Research, 2021, 2, 2100023.	5.8	16
30	Z-Scheme Overall Water Splitting Using Zn<i>_x</i>Cd_{1â€“<i>x</i>}Se Particles Coated with Metal Cyanoferrates as Hydrogen Evolution Photocatalysts. ACS Catalysis, 2021, 11, 8004-8014.	11.2	21
31	Charge carrier mapping for Z-scheme photocatalytic water-splitting sheet via categorization of microscopic time-resolved image sequences. Nature Communications, 2021, 12, 3716.	12.8	42
32	Simultaneously Tuning the Defects and Surface Properties of Ta₃N₅ Nanoparticles by Mgâ€“Zr Codoping for Significantly Accelerated Photocatalytic H₂ Evolution. Journal of the American Chemical Society, 2021, 143, 10059-10064.	13.7	62
33	Surface Modifications of (ZnSe)_{0.5}(CuGa_{2.5}Se_{4.25})_{0.5} to Promote Photocatalytic Z-Scheme Overall Water Splitting. Journal of the American Chemical Society, 2021, 143, 10633-10641.	13.7	88
34	Highly Selective Photocatalytic Conversion of Carbon Dioxide by Water over Al-SrTiO₃ Photocatalyst Modified with Silverâ€“Metal Dual Cocatalysts. ACS Sustainable Chemistry and Engineering, 2021, 9, 9327-9335.	6.7	26
35	Synthesis of a Ga-doped La5Ti2Cu0.9Ag0.1O7S5 photocatalyst by thermal sulfidation for hydrogen evolution under visible light. Journal of Catalysis, 2021, 399, 230-236.	6.2	10
36	Photocatalytic solar hydrogen production from water on a 100-m2 scale. Nature, 2021, 598, 304-307.	27.8	728

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37	Accelerated photoelectrochemical oxygen evolution over a BaTaO2N photoanode modified with cobalt-phosphate-loaded TiO2 nanoparticles. Applied Physics Letters, 2021, 119, 123902.	3.3	6
38	Use of metamodels for rapid discovery of narrow bandgap oxide photocatalysts. IScience, 2021, 24, 103068.	4.1	17
39	The sputter-based synthesis of tantalum oxynitride nanoparticles with architecture and bandgap controlled by design. Applied Surface Science, 2021, 559, 149974.	6.1	11
40	A semitransparent particulate photoanode composed of SrTiO₃ powder anchored on titania nanosheets. Sustainable Energy and Fuels, 2021, 5, 4850-4857.	4.9	0
41	A self-healing catalyst for electrocatalytic and photoelectrochemical oxygen evolution in highly alkaline conditions. Nature Communications, 2021, 12, 5980.	12.8	88
42	Cocatalyst engineering of a narrow bandgap Ga-La₅Ti₂Cu_{0.9}Ag_{0.1}O₇S₅ photocatalyst towards effectively enhanced water splitting. Journal of Materials Chemistry A, 2021, 9, 27485-27492.	10.3	16
43	Unveiling charge dynamics of visible light absorbing oxysulfide for efficient overall water splitting. Nature Communications, 2021, 12, 7055.	12.8	31
44	Effects of annealing conditions on the oxygen evolution activity of a BaTaO2N photocatalyst loaded with cobalt species. Catalysis Today, 2020, 354, 204-210.	4.4	18
45	Particulate Photocatalysts for Light-Driven Water Splitting: Mechanisms, Challenges, and Design Strategies. Chemical Reviews, 2020, 120, 919-985.	47.7	1,605
46	Phase segregated Cu_{2âˆ'x}Se/Ni₃Se₄ bimetallic selenide nanocrystals formed through the cation exchange reaction for active water oxidation precatalysts. Chemical Science, 2020, 11, 1523-1530.	7.4	26
47	Efficient photocatalytic oxygen evolution using BaTaO₂N obtained from nitridation of perovskite-type oxide. Journal of Materials Chemistry A, 2020, 8, 1127-1130.	10.3	35
48	Mutually-dependent kinetics and energetics of photocatalyst/co-catalyst/two-redox liquid junctions. Energy and Environmental Science, 2020, 13, 162-173.	30.8	29
49	Fabrication of Single-Crystalline BaTaO₂N from Chloride Fluxes for Photocatalytic H₂ Evolution under Visible Light. Crystal Growth and Design, 2020, 20, 255-261.	3.0	32
50	Band structure engineering and defect control of Ta3N5 for efficient photoelectrochemical water oxidation. Nature Catalysis, 2020, 3, 932-940.	34.4	211
51	Zâ€Scheme Water Splitting under Nearâ€Ambient Pressure using a Zirconium Oxide Coating on Printable Photocatalyst Sheets. ChemSusChem, 2020, 13, 4906-4910.	6.8	10
52	Optimized Synthesis of Agâ€Modified Alâ€Doped SrTiO₃ Photocatalyst for the Conversion of CO₂ Using H₂O as an Electron Donor. ChemistrySelect, 2020, 5, 8779-8786.	1.5	26
53	Visible-Light-Driven Photocatalytic Water Splitting: Recent Progress and Challenges. Trends in Chemistry, 2020, 2, 813-824.	8.5	126
54	Transient Kinetics of O₂ Evolution in Photocatalytic Water-Splitting Reaction. ACS Catalysis, 2020, 10, 13159-13164.	11.2	17

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55	Platy BaTaO₂N Crystals Fabricated from K₂CO₃â€“KCl Binary Flux for Photocatalytic H₂ Evolution. ACS Applied Energy Materials, 2020, 3, 10669-10675.	5.1	15
56	Molecularly engineered photocatalyst sheet for scalable solar formate production from carbon dioxide and water. Nature Energy, 2020, 5, 703-710.	39.5	156
57	A one-step synthesis of a Ta₃N₅ nanorod photoanode from Ta plates and NH₄Cl powder for photoelectrochemical water oxidation. Chemical Communications, 2020, 56, 11843-11846.	4.1	6
58	Enhanced Photoelectrochemical Water Oxidation from CdTe Photoanodes Annealed with CdCl 2. Angewandte Chemie, 2020, 132, 13904-13910.	2.0	7
59	Facet engineering of LaNbON₂ transformed from LaKNaNbO₅ for enhanced photocatalytic O₂ evolution. Journal of Materials Chemistry A, 2020, 8, 11743-11751.	10.3	21
60	Enhanced Photoelectrochemical Water Oxidation from CdTe Photoanodes Annealed with CdCl₂. Angewandte Chemie - International Edition, 2020, 59, 13800-13806.	13.8	21
61	Photoelectrochemical Properties of Particulate CuGaSe2 and CuIn0.7Ga0.3Se2 Photocathodes in Nonaqueous Electrolyte. Bulletin of the Chemical Society of Japan, 2020, 93, 942-948.	3.2	3
62	Photocatalytic water splitting with a quantum efficiency of almost unity. Nature, 2020, 581, 411-414.	27.8	1,227
63	Self-activated Rhâ€“Zr mixed oxide as a nonhazardous cocatalyst for photocatalytic hydrogen evolution. Chemical Science, 2020, 11, 6862-6867.	7.4	12
64	Spatially separating redox centers on 2D carbon nitride with cobalt single atom for photocatalytic H ₂ O ₂ production. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6376-6382.	7.1	245
65	Ta₃N₅-Nanorods enabling highly efficient water oxidation <i>via</i> advantageous light harvesting and charge collection. Energy and Environmental Science, 2020, 13, 1519-1530.	30.8	80
66	Efficient Water Oxidation Using Ta 3 N 5 Thin Film Photoelectrodes Prepared on Insulating Transparent Substrates. ChemSusChem, 2020, 13, 1974-1978.	6.8	16
67	Development of a Coreâ€“Shell Heterojunction Ta₃N₅-Nanorods/BaTaO₂N Photoanode for Solar Water Splitting. ACS Energy Letters, 2020, 5, 2492-2497.	17.4	58
68	Gas phase photocatalytic water splitting of moisture in ambient air: Toward reagent-free hydrogen production. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 401, 112757.	3.9	15
69	Plasma-enhanced chemical vapor deposition Ta₃N₅ synthesis leading to high current density during PEC oxygen evolution. Sustainable Energy and Fuels, 2020, 4, 2293-2300.	4.9	7
70	Fabrication of BaTaO₂N Thin Films by Interfacial Reactions of BaCO₃/Ta₃N₅ Layers on a Ta Substrate and Resulting High Photoanode Efficiencies During Water Splitting. Solar Rrl, 2020, 4, 1900542.	5.8	15
71	Minimizing energy demand and environmental impact for sustainable NH3 and H2O2 productionâ€"A perspective on contributions from thermal, electro-, and photo-catalysis. Applied Catalysis A: General, 2020, 594, 117419.	4.3	32
72	Efficient photoelectrochemical hydrogen production over CuInS₂photocathodes modified with amorphous Ni-MoS_xoperating in a neutral electrolyte. Sustainable Energy and Fuels, 2020, 4, 1607-1611.	4.9	10

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73	Effective Driving of Ag-Loaded and Al-Doped SrTiO₃ under Irradiation at Î» > 300 nm for the Photocatalytic Conversion of CO₂ by H₂O. ACS Applied Energy Materials, 2020, 3, 1468-1475.	5.1	56
74	Theoretical perspective of performance-limiting parameters of Cu(In_{1âˆ’x}Ga_x)Se₂-based photocathodes. Journal of Materials Chemistry A, 2020, 8, 9194-9201.	10.3	11
75	ZnTe-based photocathode for hydrogen evolution from water under sunlight. APL Materials, 2020, 8, 041101.	5.1	6
76	Efficient photocatalytic hydrogen evolution on single-crystalline metal selenide particles with suitable cocatalysts. Chemical Science, 2020, 11, 6436-6441.	7.4	21
77	(Keynote) Large Scale Solar Hydrogen Production with Water Splitting Panel. ECS Meeting Abstracts, 2020, MA2020-01, 1726-1726.	0.0	0
78	Transparent Ta₃N₅ Photoanodes for Efficient Oxygen Evolution toward the Development of Tandem Cells. Angewandte Chemie, 2019, 131, 2322-2326.	2.0	9
79	Effects of Se Incorporation in La₅Ti₂CuS₅O₇ by Annealing on Physical Properties and Photocatalytic H₂ Evolution Activity. ACS Applied Materials & Interfaces, 2019, 11, 5595-5601.	8.0	17
80	Photoelectrochemical-voltaic cells consisting of particulate Zn_xCd_{1âˆ’x}Se photoanodes with photovoltages exceeding 1.23 V. Sustainable Energy and Fuels, 2019, 3, 2733-2741.	4.9	2
81	Solar-Driven Water Splitting over a BaTaO₂N Photoanode Enhanced by Annealing in Argon. ACS Applied Energy Materials, 2019, 2, 5777-5784.	5.1	33
82	Metal selenides for photocatalytic Z-scheme pure water splitting mediated by reduced graphene oxide. Chinese Journal of Catalysis, 2019, 40, 1668-1672.	14.0	21
83	Upscaling of Temperature-Sensitive Particle Photocatalyst Electrodes: Fully Ambient and Scalable Roll-Press Fabrication of Ta3N5 Photoelectrodes on Metal Substrate. ACS Sustainable Chemistry and Engineering, 2019, 7, 19407-19414.	6.7	10
84	Electrochemical Evaluation for Multiple Functions of Ptâ€loaded TiO 2 Nanoparticles Deposited on a Photocathode. ChemElectroChem, 2019, 6, 4859-4866.	3.4	11
85	Impact of lattice defects on water oxidation properties in SnNb2O6 photoanode prepared by pulsed-laser deposition method. Journal of Applied Physics, 2019, 126, .	2.5	5
86	Progress in the Development of Highly Efficient Photocatalytic Systems for Hydrogen Production from Water under Sunlight. Journal of the Japan Petroleum Institute, 2019, 62, 120-125.	0.6	1
87	Distinguishing the effects of altered morphology and size on the visible light-induced water oxidation activity and photoelectrochemical performance of BaTaO₂N crystal structures. Faraday Discussions, 2019, 215, 227-241.	3.2	14
88	The effects of annealing barium niobium oxynitride in argon on photoelectrochemical water oxidation activity. Journal of Materials Chemistry A, 2019, 7, 493-502.	10.3	27
89	Recent developments in heterogeneous photocatalysts for solar-driven overall water splitting. Chemical Society Reviews, 2019, 48, 2109-2125.	38.1	1,639
90	An Al-doped SrTiO₃photocatalyst maintaining sunlight-driven overall water splitting activity for over 1000Âh of constant illumination. Chemical Science, 2019, 10, 3196-3201.	7.4	163

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91	Particulate Photocatalysts for Water Splitting: Recent Advances and Future Prospects. ACS Energy Letters, 2019, 4, 542-549.	17.4	229
92	Regression model for stabilization energies associated with anion ordering in perovskite-type oxynitrides. Journal of Energy Chemistry, 2019, 36, 7-14.	12.9	21
93	Efficient hydrogen evolution on (CuInS₂)_x(ZnS)_{1âˆ'x} solid solution-based photocathodes under simulated sunlight. Chemical Communications, 2019, 55, 470-473.	4.1	25
94	Revealing the role of the Rh valence state, La doping level and Ru cocatalyst in determining the H₂ evolution efficiency in doped SrTiO₃ photocatalysts. Sustainable Energy and Fuels, 2019, 3, 208-218.	4.9	56
95	Sunlightâ€Driven Production of Methylcyclohexane from Water and Toluene Using ZnSeâ€‰:â€‰Cu(In,Ga)Se₂â€Based Photocathode. ChemCatChem, 2019, 11, 4266-4271.	3.7	7
96	Oxysulfide photocatalyst for visible-light-driven overall water splitting. Nature Materials, 2019, 18, 827-832.	27.5	422
97	Transient Absorption Spectroscopy Reveals Performance-Limiting Factors in a Narrow-Bandgap Oxysulfide La₅(Ti_{0.99}Mg_{0.01})₂CuS₅O_{6.99} Photocatalyst for H₂ Generation. Journal of Physical Chemistry C, 2019, 123, 14246-14252.	3.1	6
98	Construction of Spatial Charge Separation Facets on BaTaO₂N Crystals by Flux Growth Approach for Visible-Light-Driven H₂ Production. ACS Applied Materials & Interfaces, 2019, 11, 22264-22271.	8.0	51
99	Coreâ€“Shellâ€Structured LaTaON₂ Transformed from LaKNaTaO₅ Plates for Enhanced Photocatalytic H₂ Evolution. Angewandte Chemie, 2019, 131, 10776-10780.	2.0	8
100	Coreâ€“Shellâ€Structured LaTaON₂ Transformed from LaKNaTaO₅ Plates for Enhanced Photocatalytic H₂ Evolution. Angewandte Chemie - International Edition, 2019, 58, 10666-10670.	13.8	49
101	Origin of the overall water splitting activity of Ta₃N₅ revealed by ultrafast transient absorption spectroscopy. Chemical Science, 2019, 10, 5353-5362.	7.4	57
102	One-dimensional Anisotropic Electronic States in Needle-shaped La5Ti2CuS5O7 Single Crystals Grown in Molten Salt in Bridgman Furnace. Crystal Growth and Design, 2019, 19, 2419-2427.	3.0	3
103	Reaction systems for solar hydrogen production via water splitting with particulate semiconductor photocatalysts. Nature Catalysis, 2019, 2, 387-399.	34.4	985
104	Metal selenide photocatalysts for visible-light-driven <i>Z</i>-scheme pure water splitting. Journal of Materials Chemistry A, 2019, 7, 7415-7422.	10.3	67
105	A Semitransparent Nitride Photoanode Responsive up to <i>Î»</i>=600â€…nm Based on a Carbon Nanotube Thin Film Electrode. ChemPhotoChem, 2019, 3, 521-524.	3.0	13
106	Visibleâ€Lightâ€Driven Photocatalytic Zâ€Scheme Overall Water Splitting in La₅Ti₂AgS₅O₇â€based Powderâ€Suspension System. ChemSusChem, 2019, 12, 1906-1910.	6.8	29
107	Suppression of poisoning of photocathode catalysts in photoelectrochemical cells for highly stable sunlight-driven overall water splitting. Journal of Chemical Physics, 2019, 150, 041713.	3.0	11
108	Transparent Ta₃N₅ Photoanodes for Efficient Oxygen Evolution toward the Development of Tandem Cells. Angewandte Chemie - International Edition, 2019, 58, 2300-2304.	13.8	75

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109	Visible-Light-Driven Water Splitting Using Perovskite-Type Oxynitride Photoanodes. ECS Meeting Abstracts, 2019, , .	0.0	0
110	Efficient Photocatalytic Water Splitting Using Al-Doped SrTiO₃ Coloaded with Molybdenum Oxide and Rhodiumâ€"Chromium Oxide. ACS Catalysis, 2018, 8, 2782-2788.	11.2	180
111	A Particulate Photocatalyst Water-Splitting Panel for Large-Scale Solar Hydrogen Generation. Joule, 2018, 2, 509-520.	24.0	468
112	Particulate photocathode composed of (ZnSe)_{0.85}(CuIn_{0.7}Ga_{0.3}Se₂)_{0.15} synthesized with Na₂S for enhanced sunlight-driven hydrogen evolution. Sustainable Energy and Fuels, 2018, 2, 1957-1965.	4.9	15
113	Frontispiece: Recent Progress in the Surface Modification of Photoelectrodes toward Efficient and Stable Overall Water Splitting. Chemistry - A European Journal, 2018, 24, .	3.3	0
114	Stable Hydrogen Production from Water on an NIRâ€Responsive Photocathode under Harsh Conditions. Small Methods, 2018, 2, 1800018.	8.6	18
115	Solution-Processed Cd-Substituted CZTS Photocathode for Efficient Solar Hydrogen Evolution from Neutral Water. Joule, 2018, 2, 537-548.	24.0	102
116	Artificial Photosynthesis: Taking a Big Leap for Powering the Earth by Harnessing Solar Energy. Particle and Particle Systems Characterization, 2018, 35, 1700451.	2.3	10
117	â€œA bridge over troubled gapsâ€: up-conversion driven photocatalysis for hydrogen generation and pollutant degradation by near-infrared excitation. Chemical Communications, 2018, 54, 1905-1908.	4.1	18
118	Visibleâ€Lightâ€Responsive Photoanodes for Highly Active, Stable Water Oxidation. Angewandte Chemie - International Edition, 2018, 57, 8396-8415.	13.8	145
119	Auf sichtbares Licht ansprechende Photoanoden fÃ¼r hochaktive, dauerhafte Wasseroxidation. Angewandte Chemie, 2018, 130, 8530-8550.	2.0	22
120	Plate-like Sm₂Ti₂S₂O₅ Particles Prepared by a Flux-Assisted One-Step Synthesis for the Evolution of O₂ from Aqueous Solutions by Both Photocatalytic and Photoelectrochemical Reactions. Journal of Physical Chemistry C, 2018, 122, 13492-13499.	3.1	18
121	Efficient Redox-Mediator-Free Z-Scheme Water Splitting Employing Oxysulfide Photocatalysts under Visible Light. ACS Catalysis, 2018, 8, 1690-1696.	11.2	127
122	Phase-segregated NiP_x@FeP_yO_z core@shell nanoparticles: ready-to-use nanocatalysts for electro- and photo-catalytic water oxidation through <i>in situ</i> activation by structural transformation and spontaneous ligand removal. Chemical Science, 2018, 9, 4830-4836.	7.4	21
123	Powder-based (CuGa_{1â^'y}In_y)_{1â^'x}Zn_{2x}S₂ solid solution photocathodes with a largely positive onset potential for solar water splitting. Sustainable Energy and Fuels, 2018, 2, 2016-2024.	4.9	28
124	Boosting photocatalytic overall water splitting by Co doping into Mn₃O₄ nanoparticles as oxygen evolution cocatalysts. Nanoscale, 2018, 10, 10420-10427.	5.6	56
125	Recent Progress in the Surface Modification of Photoelectrodes toward Efficient and Stable Overall Water Splitting. Chemistry - A European Journal, 2018, 24, 5697-5706.	3.3	49
126	Effects of Calcination Temperature on the Physical Properties and Hydrogen Evolution Activities of La₅Ti₂Cu(S_{1â€‹}<i>_x</i>Se<i>_x</i>)₅O₇ Photocatalysts. Particle and Particle Systems Characterization, 2018, 35, 1700275.	2.3	8

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127	Synthesis and visible-light-induced sacrificial photocatalytic water oxidation of quinary oxynitride BaNb0.5Ta0.5O2N crystals. Journal of Energy Chemistry, 2018, 27, 1415-1421.	12.9	18
128	Activation of a particulate Ta₃N₅ water-oxidation photoanode with a GaN hole-blocking layer. Sustainable Energy and Fuels, 2018, 2, 73-78.	4.9	23
129	Optimal Metal Oxide Deposition Conditions and Properties for the Enhancement of Hydrogen Evolution over Particulate La₅Ti₂Cu_{1â^'<i>x</i>}Ag_{<i>x</i>}S₅O₇ Photocathodes. ChemPhotoChem, 2018, 2, 234-239.	3.0	3
130	PHOTOANODIC AND PHOTOCATHODIC MATERIALS APPLIED FOR FREE-RUNNING SOLAR WATER SPLITTING DEVICES. , 2018, , 251-289.		0
131	Surface Protective and Catalytic Layer Consisting of RuO2 and Pt for Stable Production of Methylcyclohexane Using Solar Energy. ACS Applied Materials & Interfaces, 2018, 10, 44396-44402.	8.0	13
132	Printable Photocatalyst Sheets Incorporating a Transparent Conductive Mediator for Z-Scheme Water Splitting. Joule, 2018, 2, 2667-2680.	24.0	74
133	Surface Strategies for Particulate Photocatalysts toward Artificial Photosynthesis. Joule, 2018, 2, 2260-2288.	24.0	146
134	Developments and Trends of the Photocatalyst ï½žHydrogen Production Technologies based on Particulate Photocatalysts. Journal of the Institute of Electrical Engineers of Japan, 2018, 138, 598-601.	0.0	0
135	Ta₃N₅ Photoanodes Fabricated by Providing NaClâ€"Na₂CO₃ Evaporants to Tantalum Substrate Surface under NH₃ Atmosphere. ACS Applied Energy Materials, 2018, 1, 6129-6135.	5.1	7
136	Investigation on nitridation processes of Sr2Nb2O7 and SrNbO3 to SrNbO2N for photoelectrochemical water splitting. Scientific Reports, 2018, 8, 15849.	3.3	21
137	Overall water splitting by Ta3N5 nanorod single crystals grown on the edges of KTaO3 particles. Nature Catalysis, 2018, 1, 756-763.	34.4	390
138	Direct observation of hydrogen bubble generation on photocatalyst particles by in situ electron microscopy. Chemical Physics Letters, 2018, 706, 564-567.	2.6	3
139	Shifting the NIR into the UV-blue: Up-conversion boosted photocatalysis. Optical Materials, 2018, 83, 315-320.	3.6	9
140	Efficient Solarâ€Driven Water Oxidation over Perovskiteâ€Type BaNbO₂N Photoanodes Absorbing Visible Light up to 740 nm. Advanced Energy Materials, 2018, 8, 1800094.	19.5	56
141	Development of highly efficient CuIn_{0.5}Ga_{0.5}Se₂-based photocathode and application to overall solar driven water splitting. Energy and Environmental Science, 2018, 11, 3003-3009.	30.8	122
142	Towards zero bias photoelectrochemical water splitting: onset potential improvement on a Mg:GaN modified-Ta₃N₅ photoanode. Journal of Materials Chemistry A, 2018, 6, 15265-15273.	10.3	32
143	Particulate photocatalyst sheets based on non-oxide semiconductor materials for water splitting under visible light irradiation. Catalysis Science and Technology, 2018, 8, 3918-3925.	4.1	27
144	Water Splitting: Stable Hydrogen Production from Water on an NIR-Responsive Photocathode under Harsh Conditions (Small Methods 5/2018). Small Methods, 2018, 2, 1800029.	8.6	0

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145	La 5 Ti 2 Cu 0.9 Ag 0.1 S 5 O 7 Modified with a Molecular Ni Catalyst for Photoelectrochemical H 2 Generation. Chemistry - A European Journal, 2018, 24, 18393-18397.	3.3	13
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