Tsutomu Minegishi

List of Publications by Year
in descending order

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196 papers	9,746 citations	36203 51 h-index	40881 93 g-index
200 all docs	200 docs citations	200 times ranked	7996 citing authors

#	Article	IF	Citations
1	Surface Modification of CoO_x Loaded BiVO₄ Photoanodes with Ultrathin p-Type NiO Layers for Improved Solar Water Oxidation. Journal of the American Chemical Society, 2015, 137, 5053-5060.	6.6	542
2	A Particulate Photocatalyst Water-Splitting Panel for Large-Scale Solar Hydrogen Generation. Joule, 2018, 2, 509-520.	11.7	468
3	Vertically Aligned Ta₃N₅ Nanorod Arrays for Solarâ€Driven Photoelectrochemical Water Splitting. Advanced Materials, 2013, 25, 125-131.	11.1	363
4	Particulate Photocatalyst Sheets Based on Carbon Conductor Layer for Efficient Z-Scheme Pure-Water Splitting at Ambient Pressure. Journal of the American Chemical Society, 2017, 139, 1675-1683.	6.6	322
5	Ultrastable low-bias water splitting photoanodes via photocorrosion inhibition and in situ catalystÂregeneration. Nature Energy, 2017, 2, .	19.8	298
6	Stable Hydrogen Evolution from CdS-Modified CuGaSe₂ Photoelectrode under Visible-Light Irradiation. Journal of the American Chemical Society, 2013, 135, 3733-3735.	6.6	287
7	Pt/In₂S₃/CdS/Cu₂ZnSnS₄ Thin Film as an Efficient and Stable Photocathode for Water Reduction under Sunlight Radiation. Journal of the American Chemical Society, 2015, 137, 13691-13697.	6.6	262
8	Photoelectrochemical properties of LaTiO2N electrodes prepared by particle transfer for sunlight-driven water splitting. Chemical Science, 2013, 4, 1120.	3.7	258
9	Enhancement of Solar Hydrogen Evolution from Water by Surface Modification with CdS and TiO₂ on Porous CuInS₂ Photocathodes Prepared by an Electrodepositionâ€“Sulfurization Method. Angewandte Chemie - International Edition, 2014, 53, 11808-11812.	7.2	181
10	Efficient Photocatalytic Water Splitting Using Al-Doped SrTiO₃ Coloaded with Molybdenum Oxide and Rhodiumâ€“Chromium Oxide. ACS Catalysis, 2018, 8, 2782-2788.	5.5	180
11	Mgâ€“Zr Cosubstituted Ta₃N₅ Photoanode for Lower-Onset-Potential Solar-Driven Photoelectrochemical Water Splitting. Journal of the American Chemical Society, 2015, 137, 12780-12783.	6.6	176
12	Photoelectrochemical Oxidation of Water Using BaTaO₂N Photoanodes Prepared by Particle Transfer Method. Journal of the American Chemical Society, 2015, 137, 2227-2230.	6.6	167
13	An Al-doped SrTiO₃photocatalyst maintaining sunlight-driven overall water splitting activity for over 1000Âh of constant illumination. Chemical Science, 2019, 10, 3196-3201.	3.7	163
14	Photoelectrochemical water splitting using a Cu(In,Ga)Se2 thin film. Electrochemistry Communications, 2010, 12, 851-853.	2.3	156
15	Efficient solar hydrogen production from neutral electrolytes using surface-modified Cu(In,Ga)Se₂photocathodes. Journal of Materials Chemistry A, 2015, 3, 8300-8307.	5.2	155
16	H₂Evolution from Water on Modified Cu₂ZnSnS₄Photoelectrode under Solar Light. Applied Physics Express, 2010, 3, 101202.	1.1	154
17	Selective CO production by Au coupled ZnTe/ZnO in the photoelectrochemical CO₂reduction system. Energy and Environmental Science, 2015, 8, 3597-3604.	15.6	152
18	Ta3N5 photoanodes for water splitting prepared by sputtering. Thin Solid Films, 2011, 519, 2087-2092.	0.8	136

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19	Behavior and Energy States of Photogenerated Charge Carriers on Pt- or CoO_x-Loaded LaTiO₂N Photocatalysts: Time-Resolved Visible to Mid-Infrared Absorption Study. Journal of Physical Chemistry C, 2014, 118, 23897-23906.	1.5	132
20	Efficient Redox-Mediator-Free Z-Scheme Water Splitting Employing Oxysulfide Photocatalysts under Visible Light. ACS Catalysis, 2018, 8, 1690-1696.	5.5	127
21	Photocatalytic Hydrogen Evolution from Water Using Copper Gallium Sulfide under Visible-Light Irradiation. Journal of Physical Chemistry C, 2010, 114, 11215-11220.	1.5	126
22	Photocatalytic oxygen evolution using BaNbO2N modified with cobalt oxide under photoexcitation up to 740 nm. Energy and Environmental Science, 2013, 6, 3595.	15.6	125
23	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.	15.6	122
24	Overall Photoelectrochemical Water Splitting using Tandem Cell under Simulated Sunlight. ChemSusChem, 2016, 9, 61-66.	3.6	112
25	Structural variation of cubic and hexagonal MgxZn1â^'xO layers grown on MgO(111)â^•c-sapphire. Journal of Applied Physics, 2005, 98, 054911.	1.1	107
26	A Novel Photocathode Material for Sunlightâ€Đriven Overall Water Splitting: Solid Solution of ZnSe and Cu(In,Ga)Se₂. Advanced Functional Materials, 2016, 26, 4570-4577.	7.8	104
27	Photoelectrochemical hydrogen production on Cu2ZnSnS4/Mo-mesh thin-film electrodes prepared by electroplating. Chemical Physics Letters, 2011, 501, 619-622.	1.2	103
28	Solution-Processed Cd-Substituted CZTS Photocathode for Efficient Solar Hydrogen Evolution from Neutral Water. Joule, 2018, 2, 537-548.	11.7	102
29	Visible Light-Driven Z-Scheme Water Splitting Using Oxysulfide H₂ Evolution Photocatalysts. Journal of Physical Chemistry Letters, 2016, 7, 3892-3896.	2.1	101
30	Platinum and indium sulfide-modified CuInS₂ as efficient photocathodes for photoelectrochemical water splitting. Chemical Communications, 2014, 50, 8941-8943.	2.2	98
31	Structural and optical properties of non-polar A-plane ZnO films grown on R-plane sapphire substrates by plasma-assisted molecular-beam epitaxy. Journal of Crystal Growth, 2007, 309, 121-127.	0.7	90
32	Durable hydrogen evolution from water driven by sunlight using (Ag,Cu)GaSe₂ photocathodes modified with CdS and CuGa₃Se₅. Chemical Science, 2015, 6, 894-901.	3.7	89
33	Photoelectrochemical Hydrogen Evolution from Water Using Copper Gallium Selenide Electrodes Prepared by a Particle Transfer Method. Journal of Physical Chemistry C, 2014, 118, 16386-16392.	1.5	86
34	Ta₃N₅-Nanorods enabling highly efficient water oxidation via advantageous light harvesting and charge collection. Energy and Environmental Science, 2020, 13, 1519-1530.	15.6	80
35	Photocatalyst Sheets Composed of Particulate LaMg_{1/3}Ta_{2/3}O₂N and Mo-Doped BiVO₄ for Z-Scheme Water Splitting under Visible Light. ACS Catalysis, 2016, 6, 7188-7196.	5.5	79
36	Photoreduction of Water by using Modified CuInS₂ Electrodes. ChemSusChem, 2011, 4, 262-268.	3.6	78

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37	Transparent Ta₃N₅ Photoanodes for Efficient Oxygen Evolution toward the Development of Tandem Cells. Angewandte Chemie - International Edition, 2019, 58, 2300-2304.	7.2	75
38	Trapped State Sensitive Kinetics in LaTiO₂N Solid Photocatalyst with and without Cocatalyst Loading. Journal of the American Chemical Society, 2014, 136, 17324-17331.	6.6	70
39	Kinetic Assessment and Numerical Modeling of Photocatalytic Water Splitting toward Efficient Solar Hydrogen Production. Bulletin of the Chemical Society of Japan, 2012, 85, 647-655.	2.0	69
40	Band engineering of perovskite-type transition metal oxynitrides for photocatalytic overall water splitting. Journal of Materials Chemistry A, 2016, 4, 4544-4552.	5.2	69
41	Photoelectrochemical Water Splitting on Particulate ANbO₂N (A = Ba, Sr) Photoanodes Prepared from Perovskite-Type ANbO₃. Chemistry of Materials, 2016, 28, 6869-6876.	3.2	68
42	Synthesis of Nanostructured BaTaO₂N Thin Films as Photoanodes for Solar Water Splitting. Journal of Physical Chemistry C, 2016, 120, 15758-15764.	1.5	68
43	Metal selenide photocatalysts for visible-light-driven Z-scheme pure water splitting. Journal of Materials Chemistry A, 2019, 7, 7415-7422.	5.2	67
44	Hydrogen evolution from water using AgxCu1â^'xGaSe2 photocathodes under visible light. Physical Chemistry Chemical Physics, 2014, 16, 6167.	1.3	66
45	Ordered Arrays of ZnO Nanorods Grown on Periodically Polarity-Inverted Surfaces. Nano Letters, 2008, 8, 2419-2422.	4.5	64
46	Photoreduced Graphene Oxide as a Conductive Binder to Improve the Water Splitting Activity of Photocatalyst Sheets. Advanced Functional Materials, 2016, 26, 7011-7019.	7.8	62
47	Improving the photoelectrochemical activity of La₅Ti₂CuS₅O₇ for hydrogen evolution by particle transfer and doping. Energy and Environmental Science, 2014, 7, 2239-2242.	15.6	61
48	Development of a Coreâ€“Shell Heterojunction Ta₃N₅-Nanorods/BaTaO₂N Photoanode for Solar Water Splitting. ACS Energy Letters, 2020, 5, 2492-2497.	8.8	58
49	Enhanced photoelectrochemical properties of CuGa₃Se₅thin films for water splitting by the hydrogen mediated co-evaporation method. Energy and Environmental Science, 2012, 5, 6368-6374.	15.6	56
50	Efficient Solarâ€Driven Water Oxidation over Perovskiteâ€Type BaNbO₂N Photoanodes Absorbing Visible Light up to 740 nm. Advanced Energy Materials, 2018, 8, 1800094.	10.2	56
51	La₅Ti₂Cu_{1â^'x}Ag_xS₅O₇photocathodes operating at positive potentials during photoelectrochemical hydrogen evolution under irradiation of up to 710 nm. Energy and Environmental Science, 2015, 8, 3354-3362.	15.6	55
52	Photoelectrochemical Conversion of Toluene to Methylcyclohexane as an Organic Hydride by Cu₂ZnSnS₄-Based Photoelectrode Assemblies. Journal of the American Chemical Society, 2012, 134, 2469-2472.	6.6	53
53	Adrenomedullin and atrial natriuretic peptide concentrations in normal pregnancy and pre-eclampsia. Molecular Human Reproduction, 1999, 5, 767-770.	1.3	52
54	A Role of Insulin-Like Growth Factor I for Follicle-Stimulating Hormone Receptor Expression in Rat Granulosa Cells1. Biology of Reproduction, 2000, 62, 325-333.	1.2	52

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55	Lattice relaxation mechanism of ZnO thin films grown on c-Al2O3 substrates by plasma-assisted molecular-beam epitaxy. Applied Physics Letters, 2007, 91, .	1.5	50
56	The cross-substitution effect of tantalum on the visible-light-driven water oxidation activity of BaNbO₂N crystals grown directly by an NH₃-assisted flux method. Journal of Materials Chemistry A, 2016, 4, 12807-12817.	5.2	50
57	Photoelectrochemical properties of SrNbO₂N photoanodes for water oxidation fabricated by the particle transfer method. Faraday Discussions, 2014, 176, 213-223.	1.6	49
58	Recent Progress in the Surface Modification of Photoelectrodes toward Efficient and Stable Overall Water Splitting. Chemistry - A European Journal, 2018, 24, 5697-5706.	1.7	49
59	Surgery for endometrial cancers with suspected cervical involvement: is radical hysterectomy needed (a GOTIC study)?. British Journal of Cancer, 2013, 109, 1760-1765.	2.9	47
60	Photoelectrochemical hydrogen evolution from water on a surface modified CdTe thin film electrode under simulated sunlight. Journal of Materials Chemistry A, 2017, 5, 4486-4492.	5.2	47
61	Overall water splitting by photoelectrochemical cells consisting of (ZnSe)_{0.85}(CuIn_{0.7}Ga_{0.3}Se₂)_{0.15} photocathodes and BiVO₄ photoanodes. Chemical Communications, 2017, 53, 11674-11677.	2.2	47
62	A SrTiO₃ photoanode prepared by the particle transfer method for oxygen evolution from water with high quantum efficiencies. Chemical Communications, 2016, 52, 5011-5014.	2.2	46
63	Issues in ZnO homoepitaxy. Superlattices and Microstructures, 2005, 38, 349-363.	1.4	45
64	Polarity control of ZnO films on (0001) Al2O3 by Cr-compound intermediate layers. Applied Physics Letters, 2007, 90, 201907.	1.5	45
65	Particulate photocatalyst sheets for Z-scheme water splitting: advantages over powder suspension and photoelectrochemical systems and future challenges. Faraday Discussions, 2017, 197, 491-504.	1.6	45
66	The Effects of Preparation Conditions for a BaNbO₂N Photocatalyst on Its Physical Properties. ChemSusChem, 2014, 7, 2016-2021.	3.6	42
67	Highly Efficient Water Oxidation Photoanode Made of Surface Modified LaTiO₂N Particles. Small, 2016, 12, 5468-5476.	5.2	42
68	Effects of flux synthesis on SrNbO₂N particles for photoelectrochemical water splitting. Journal of Materials Chemistry A, 2016, 4, 7658-7664.	5.2	42
69	Bulky crystalline BiVO₄ thin films for efficient solar water splitting. Journal of Materials Chemistry A, 2016, 4, 9858-9864.	5.2	40
70	Enhanced Hydrogen Evolution under Simulated Sunlight from Neutral Electrolytes on (ZnSe)_{0.85}(CuIn_{0.7}Ga_{0.3}Se₂)_{0.15} Photocathodes Prepared by a Bilayer Method. Angewandte Chemie - International Edition, 2016, 55, 15329-15333.	7.2	38
71	Efficient hydrogen evolution from water using CdTe photocathodes under simulated sunlight. Journal of Materials Chemistry A, 2017, 5, 13154-13160.	5.2	38
72	Site-selective photodeposition of Pt on a particulate Sc-La5Ti2CuS5O7 photocathode: evidence for one-dimensional charge transfer. Chemical Communications, 2015, 51, 4302-4305.	2.2	36

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73	Photoanodic and photocathodic behaviour of La₅Ti₂CuS₅O₇ electrodes in the water splitting reaction. Chemical Science, 2015, 6, 4513-4518.	3.7	36
74	Efficient photocatalytic oxygen evolution using BaTaO₂N obtained from nitridation of perovskite-type oxide. Journal of Materials Chemistry A, 2020, 8, 1127-1130.	5.2	35
75	A CoOx-modified SnNb2O6photoelectrode for highly efficient oxygen evolution from water. Chemical Communications, 2017, 53, 629-632.	2.2	33
76	Solar-Driven Water Splitting over a BaTaO₂N Photoanode Enhanced by Annealing in Argon. ACS Applied Energy Materials, 2019, 2, 5777-5784.	2.5	33
77	Regulation of Midkine Messenger Ribonucleic Acid Levels in Cultured Rat Granulosa Cells. Biochemical and Biophysical Research Communications, 1996, 229, 799-805.	1.0	32
78	SunlightâEĐriven Overall Water Splitting by the Combination of SurfaceâEModified La₅Ti₂Cu_{0.9}Ag_{0.1}S₅O₇ and BaTaO₂N Photoelectrodes. ChemPhotoChem, 2017, 1, 167-172.	1.5	32
79	Probing fundamental losses in nanostructured Ta₃N₅ photoanodes: design principles for efficient water oxidation. Energy and Environmental Science, 2021, 14, 4038-4047.	15.6	31
80	High-Quality p-Type ZnO Films Grown by Co-Doping of N and Te on Zn-Face ZnO Substrates. Applied Physics Express, 2010, 3, 031103.	1.1	30
81	The mechanisms of retinoic acid-induced regulation on the follicle-stimulating hormone receptor in rat granulosa cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2000, 1495, 203-211.	1.9	29
82	Effect of particle size of La5Ti2CuS5O7on photoelectrochemical properties in solar hydrogen evolution. Journal of Materials Chemistry A, 2016, 4, 4848-4854.	5.2	28
83	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.	2.5	28
84	Particulate photocatalyst sheets based on non-oxide semiconductor materials for water splitting under visible light irradiation. Catalysis Science and Technology, 2018, 8, 3918-3925.	2.1	27
85	The effects of annealing barium niobium oxynitride in argon on photoelectrochemical water oxidation activity. Journal of Materials Chemistry A, 2019, 7, 493-502.	5.2	27
86	Effects of interfacial layer structures on crystal structural properties of ZnO films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2008, 26, 90-96.	0.9	26
87	Kinetics of Distance-Dependent Recombination between Geminate Charge Carriers by Diffusion under Coulomb Interaction. Journal of Physical Chemistry C, 2015, 119, 5364-5373.	1.5	26
88	Thin film transfer for the fabrication of tantalum nitride photoelectrodes with controllable layered structures for water splitting. Chemical Science, 2016, 7, 5821-5826.	3.7	26
89	Structural characterization of MgxZn1â^'xO/ZnO heterostructures. Journal of Crystal Growth, 2007, 306, 269-275.	0.7	25
90	A miniature solar device for overall water splitting consisting of series-connected spherical silicon solar cells. Scientific Reports, 2016, 6, 24633.	1.6	25

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91	Crystal Structure, Electronic Structure, and Photocatalytic Activity of Oxysulfides: La₂Ta₂ZrS₂O₈, La₂Ta₂TiS₂O₈, and La₂Nb₂TiS₂O₈. Inorganic Chemistry, 2016, 55, 3674-3679.	1.9	25
92	Efficient hydrogen evolution on (CuInS₂)_x(ZnS)_{1â^'x} solid solution-based photocathodes under simulated sunlight. Chemical Communications, 2019, 55, 470-473.	2.2	25
93	A particulate (ZnSe)_{0.85}(CuIn_{0.7}Ga_{0.3}Se₂)_{0.15} photocathode modified with CdS and ZnS for sunlight-driven overall water splitting. Journal of Materials Chemistry A, 2017, 5, 21242-21248.	5.2	23
94	CdTe-Based Photoanode for Oxygen Evolution from Water under Simulated Sunlight. Journal of Physical Chemistry Letters, 2017, 8, 5712-5717.	2.1	23
95	Activation of a particulate Ta₃N₅ water-oxidation photoanode with a GaN hole-blocking layer. Sustainable Energy and Fuels, 2018, 2, 73-78.	2.5	23
96	Expression of steroidogenic acute regulatory protein (StAR) in rat granulosa cells. Life Sciences, 2000, 67, 1015-1024.	2.0	22
97	Relation between interdiffusion and polarity for MBE growth of GaN epilayers on ZnO substrates. Current Applied Physics, 2004, 4, 643-646.	1.1	22
98	Selective growth of Zn- and O-polar ZnO layers by plasma-assisted molecular beam epitaxy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 1286.	1.6	22
99	Strain-free GaN thick films grown on single crystalline ZnO buffer layer with in situ lift-off technique. Applied Physics Letters, 2007, 90, 061907.	1.5	22
100	Expression of gonadotropin and activin receptor messenger ribonucleic acid in human ovarian epithelial neoplasms. Clinical Cancer Research, 2000, 6, 2764-70.	3.2	22
101	Chalcopyrite Thin Film Materials for Photoelectrochemical Hydrogen Evolution from Water under Sunlight. Coatings, 2015, 5, 293-311.	1.2	21
102	Investigation on nitridation processes of Sr2Nb2O7 and SrNbO3 to SrNbO2N for photoelectrochemical water splitting. Scientific Reports, 2018, 8, 15849.	1.6	21
103	Enhanced Photoelectrochemical Water Oxidation from CdTe Photoanodes Annealed with CdCl₂. Angewandte Chemie - International Edition, 2020, 59, 13800-13806.	7.2	21
104	Investigation of the crystallinity of N and Te codoped Zn-polar ZnO films grown by plasma-assisted molecular-beam epitaxy. Journal of Applied Physics, 2010, 108, 093518.	1.1	20
105	A novel flux coating method for the fabrication of layers of visible-light-responsive Ta₃N₅crystals on tantalum substrates. Journal of Materials Chemistry A, 2015, 3, 13946-13952.	5.2	20
106	Conversion Reaction in the Binder-Free Anode for Fast-Charging Li-Ion Batteries Based on WO₃ Nanorods. ACS Applied Energy Materials, 2020, 3, 6700-6708.	2.5	20
107	p-type conductivity control of heteroepitaxially grown ZnO films by N and Te codoping and thermal annealing. Journal of Crystal Growth, 2013, 363, 190-194.	0.7	19
108	Lattice deformation of ZnO films with high nitrogen concentration. Applied Surface Science, 2008, 254, 7972-7975.	3.1	18

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109	Effects of flux treatment on morphology of single-crystalline BaNbO₂N particles. CrystEngComm, 2016, 18, 3186-3190.	1.3	18
110	Stable Hydrogen Production from Water on an NIRâ€Responsive Photocathode under Harsh Conditions. Small Methods, 2018, 2, 1800018.	4.6	18
111	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.	1.5	18
112	Effects of annealing conditions on the oxygen evolution activity of a BaTaO2N photocatalyst loaded with cobalt species. Catalysis Today, 2020, 354, 204-210.	2.2	18
113	Investigation of Cu-Deficient Copper Gallium Selenide Thin Film as a Photocathode for Photoelectrochemical Water Splitting. Japanese Journal of Applied Physics, 2012, 51, 015802.	0.8	18
114	Enhancement of the H₂ evolution activity of La₅Ti₂Cu(S_{1â^'x}Se_x)₅O₇ photocatalysts by coloading Pt and NiS cocatalysts. Journal of Materials Chemistry A, 2017, 5, 6106-6112.	5.2	17
115	Enhancement of Charge Separation and Hydrogen Evolution on Particulate La₅Ti₂CuS₅O₇ Photocathodes by Surface Modification. Journal of Physical Chemistry Letters, 2017, 8, 375-379.	2.1	17
116	Effects of Se Incorporation in La₅Ti₂CuS₅O₇ by Annealing on Physical Properties and Photocatalytic H₂ Evolution Activity. ACS Applied Materials & Interfaces, 2019, 11, 5595-5601.	4.0	17
117	Growth mechanism of ZnO low-temperature homoepitaxy. Journal of Applied Physics, 2011, 110, .	1.1	16
118	Synthesis and Photocatalytic Activity of La₅Ti₂Cu(S_{1â^'x}Se_x)₅O₇ Solid Solutions for H₂ Production under Visible Light Irradiation. ChemPhotoChem, 2017, 1, 265-272.	1.5	16
119	Investigation of charge separation in particulate oxysulfide and oxynitride photoelectrodes by surface photovoltage spectroscopy. Chemical Physics Letters, 2017, 683, 140-144.	1.2	16
120	Efficient Water Oxidation Using Ta 3 N 5 Thin Film Photoelectrodes Prepared on Insulating Transparent Substrates. ChemSusChem, 2020, 13, 1974-1978.	3.6	16
121	Retinoic Acid (RA) Represses Follicle Stimulating Hormone (FSH)-Induced Luteinizing Hormone (LH) Receptor in Rat Granulosa Cells. Archives of Biochemistry and Biophysics, 2000, 373, 203-210.	1.4	15
122	Investigation on the ZnO:N films grown on (0001) and (0001Â¯) ZnO templates by plasma-assisted molecular beam epitaxy. Journal of Crystal Growth, 2009, 311, 2167-2171.	0.7	15
123	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.	2.5	15
124	Growth of Polarity-Controlled ZnO Films on (0001) Al2O3. Journal of Electronic Materials, 2008, 37, 736-742.	1.0	14
125	Investigation of Cu-Deficient Copper Gallium Selenide Thin Film as a Photocathode for Photoelectrochemical Water Splitting. Japanese Journal of Applied Physics, 2012, 51, 015802.	0.8	14
126	Follicle-stimulating hormone regulation on its receptor messenger ribonucleic acid levels in cultured rat granulosa cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 1997, 1359, 165-173.	1.9	13

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127	Effects of interfacial layers on the photoelectrochemical properties of tantalum nitride photoanodes for solar water splitting. Journal of Materials Chemistry A, 2016, 4, 13837-13843.	5.2	13
128	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.	4.0	13
129	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.	1.7	13
130	A Semitransparent Nitride Photoanode Responsive up to Î»=600â€...nm Based on a Carbon Nanotube Thin Film Electrode. ChemPhotoChem, 2019, 3, 521-524.	1.5	13
131	Defect and interface studies of ZnO/MgxZn1â^'xO heterostructures. Journal of Physics and Chemistry of Solids, 2008, 69, 497-500.	1.9	11
132	A Photoelectrochemical Solar Cell Consisting of a Cadmium Sulfide Photoanode and a Ruthenium–2,2â€²â€Bipyridine Redox Shuttle in a Nonâ€aqueous Electrolyte. Angewandte Chemie - International Edition, 2015, 54, 7877-7881.	7.2	11
133	Synthesis of Concentrated Methylcyclohexane as Hydrogen Carrier through Photoelectrochemical Conversion of Toluene and Water. ChemSusChem, 2017, 10, 659-663.	3.6	11
134	Electrochemical Evaluation for Multiple Functions of Ptâ€loaded TiO 2 Nanoparticles Deposited on a Photocathode. ChemElectroChem, 2019, 6, 4859-4866.	1.7	11
135	Suppression of poisoning of photocathode catalysts in photoelectrochemical cells for highly stable sunlight-driven overall water splitting. Journal of Chemical Physics, 2019, 150, 041713.	1.2	11
136	The high quality ZnO growth on c-Al2O3 substrate with Cr2O3 buffer layer using plasma-assisted molecular beam epitaxy. Applied Surface Science, 2008, 254, 7786-7789.	3.1	10
137	Structural and optical investigations of periodically polarity inverted ZnO heterostructures on (0001) Al2O3. Applied Physics Letters, 2009, 94, 141904.	1.5	10
138	Efficient photoelectrochemical hydrogen production over CuInS₂photocathodes modified with amorphous Ni-MoS_xoperating in a neutral electrolyte. Sustainable Energy and Fuels, 2020, 4, 1607-1611.	2.5	10
139	Transparent Ta₃N₅ Photoanodes for Efficient Oxygen Evolution toward the Development of Tandem Cells. Angewandte Chemie, 2019, 131, 2322-2326.	1.6	9
140	Control of crystal polarity in oxide and nitride semiconductors by interface engineering. Journal of Electroceramics, 2006, 17, 255-261.	0.8	8
141	Low-temperature growth of high-quality ZnO layers by surfactant-mediated molecular-beam epitaxy. Journal of Crystal Growth, 2007, 309, 158-163.	0.7	8
142	Influence of Isoelectronic Te Doping on the Physical Properties of ZnO Films Grown by Molecular-Beam Epitaxy. Japanese Journal of Applied Physics, 2013, 52, 055501.	0.8	8
143	Conversion of Toluene and Water to Methylcyclohexane and Oxygen using Niobiumâ€Doped Strontium Titanate Photoelectrodes. ChemSusChem, 2014, 7, 2690-2694.	3.6	8
144	Enhanced Hydrogen Evolution under Simulated Sunlight from Neutral Electrolytes on (ZnSe)_{0.85}(CuIn_{0.7}Ga_{0.3}Se₂)_{0.15} Photocathodes Prepared by a Bilayer Method. Angewandte Chemie, 2016, 128, 15555-15559.	1.6	8

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145	Effects of Calcination Temperature on the Physical Properties and Hydrogen Evolution Activities of La₅Ti₂Cu(S_{1â€}_xSe_x)₅O₇ Photocatalysts. Particle and Particle Systems Characterization, 2018, 35, 1700275.		8
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147	Structural investigation of nitrided c-sapphire substrate by grazing incidence x-ray diffraction and transmission electron microscopy. Applied Physics Letters, 2007, 91, 202116.	1.5	7
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