

Tsutomu Minegishi

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188
papers

7,903
citations

47
h-index

83
g-index

200
ext. papers

8,818
ext. citations

8.8
avg, IF

5.99
L-index

#	Paper	IF	Citations
188	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
187	Vertically aligned Ta ₃ N ₅ nanorod arrays for solar-driven photoelectrochemical water splitting. <i>Advanced Materials</i> , 2013 , 25, 125-31	24	334
186	A Particulate Photocatalyst Water-Splitting Panel for Large-Scale Solar Hydrogen Generation. <i>Joule</i> , 2018 , 2, 509-520	27.8	307
185	Stable hydrogen evolution from CdS-modified CuGaSe ₂ photoelectrode under visible-light irradiation. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3733-5	16.4	255
184	Particulate Photocatalyst Sheets Based on Carbon Conductor Layer for Efficient Z-Scheme Pure-Water Splitting at Ambient Pressure. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1675-1683	16.4	252
183	Photoelectrochemical properties of LaTiO ₂ N electrodes prepared by particle transfer for sunlight-driven water splitting. <i>Chemical Science</i> , 2013 , 4, 1120	9.4	226
182	Pt/In ₂ S ₃ /CdS/Cu ₂ ZnSnS ₄ Thin Film as an Efficient and Stable Photocathode for Water Reduction under Sunlight Radiation. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13691-7	16.4	221
181	Ultrastable low-bias water splitting photoanodes via photocorrosion inhibition and in situ catalyst regeneration. <i>Nature Energy</i> , 2017 , 2,	62.3	206
180	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
179	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
178	Photoelectrochemical water splitting using a Cu(In,Ga)Se ₂ thin film. <i>Electrochemistry Communications</i> , 2010 , 12, 851-853	5.1	144
177	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
176	Efficient solar hydrogen production from neutral electrolytes using surface-modified Cu(In,Ga)Se ₂ photocathodes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8300-8307	13	139
175	H ₂ Evolution from Water on Modified Cu ₂ ZnSnS ₄ Photoelectrode under Solar Light. <i>Applied Physics Express</i> , 2010 , 3, 101202	2.4	135
174	Ta ₃ N ₅ photoanodes for water splitting prepared by sputtering. <i>Thin Solid Films</i> , 2011 , 519, 2087-2092	2.2	130
173	Efficient Photocatalytic Water Splitting Using Al-Doped SrTiO ₃ Coloaded with Molybdenum Oxide and Rhodium-Chromium Oxide. <i>ACS Catalysis</i> , 2018 , 8, 2782-2788	13.1	126
172	Selective CO production by Au coupled ZnTe/ZnO in the photoelectrochemical CO ₂ reduction system. <i>Energy and Environmental Science</i> , 2015 , 8, 3597-3604	35.4	122

171	Photocatalytic Hydrogen Evolution from Water Using Copper Gallium Sulfide under Visible-Light Irradiation. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 11215-11220	3.8	119
170	Photocatalytic oxygen evolution using BaNbO ₂ N modified with cobalt oxide under photoexcitation up to 740 nm. <i>Energy and Environmental Science</i> , 2013 , 6, 3595	35.4	108
169	Behavior and Energy States of Photogenerated Charge Carriers on Pt- or CoOx-Loaded LaTiO ₂ N Photocatalysts: Time-Resolved Visible to Mid-Infrared Absorption Study. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 23897-23906	3.8	102
168	Structural variation of cubic and hexagonal Mg _x Zn _{1-x} O layers grown on MgO(111)-sapphire. <i>Journal of Applied Physics</i> , 2005 , 98, 054911	2.5	98
167	An Al-doped SrTiO photocatalyst maintaining sunlight-driven overall water splitting activity for over 1000h of constant illumination. <i>Chemical Science</i> , 2019 , 10, 3196-3201	9.4	96
166	Overall Photoelectrochemical Water Splitting using Tandem Cell under Simulated Sunlight. <i>ChemSusChem</i> , 2016 , 9, 61-6	8.3	96
165	Photoelectrochemical hydrogen production on Cu ₂ ZnSnS ₄ /Mo-mesh thin-film electrodes prepared by electroplating. <i>Chemical Physics Letters</i> , 2011 , 501, 619-622	2.5	93
164	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
163	Efficient Redox-Mediator-Free Z-Scheme Water Splitting Employing Oxysulfide Photocatalysts under Visible Light. <i>ACS Catalysis</i> , 2018 , 8, 1690-1696	13.1	90
162	Platinum and indium sulfide-modified CuInS ₂ as efficient photocathodes for photoelectrochemical water splitting. <i>Chemical Communications</i> , 2014 , 50, 8941-8943	5.8	88
161	Development of highly efficient CuIn _{0.5} Ga _{0.5} Se ₂ -based photocathode and application to overall solar driven water splitting. <i>Energy and Environmental Science</i> , 2018 , 11, 3003-3009	35.4	85
160	Structural and optical properties of non-polar A-plane ZnO films grown on R-plane sapphire substrates by plasma-assisted molecular-beam epitaxy. <i>Journal of Crystal Growth</i> , 2007 , 309, 121-127	1.6	85
159	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
158	Photoelectrochemical Hydrogen Evolution from Water Using Copper Gallium Selenide Electrodes Prepared by a Particle Transfer Method. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16386-16392	3.8	79
157	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
156	Solution-Processed Cd-Substituted CZTS Photocathode for Efficient Solar Hydrogen Evolution from Neutral Water. <i>Joule</i> , 2018 , 2, 537-548	27.8	74
155	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
154	Trapped state sensitive kinetics in LaTiO ₂ N solid photocatalyst with and without cocatalyst loading. <i>Journal of the American Chemical Society</i> , 2014 , 136, 17324-31	16.4	63

153	Photoreduction of water by using modified CuInS ₂ electrodes. <i>ChemSusChem</i> , 2011 , 4, 262-8	8.3	63
152	Hydrogen evolution from water using Ag(x)Cu(1-x)GaSe ₂ photocathodes under visible light. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 6167-74	3.6	59
151	Ordered arrays of ZnO nanorods grown on periodically polarity-inverted surfaces. <i>Nano Letters</i> , 2008 , 8, 2419-22	11.5	58
150	Kinetic Assessment and Numerical Modeling of Photocatalytic Water Splitting toward Efficient Solar Hydrogen Production. <i>Bulletin of the Chemical Society of Japan</i> , 2012 , 85, 647-655	5.1	56
149	Synthesis of Nanostructured BaTaO ₂ N Thin Films as Photoanodes for Solar Water Splitting. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 15758-15764	3.8	55
148	Photoelectrochemical Water Splitting on Particulate ANbO ₂ N (A = Ba, Sr) Photoanodes Prepared from Perovskite-Type ANbO ₃ . <i>Chemistry of Materials</i> , 2016 , 28, 6869-6876	9.6	53
147	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
146	Enhanced photoelectrochemical properties of CuGa ₃ Se ₅ thin films for water splitting by the hydrogen mediated co-evaporation method. <i>Energy and Environmental Science</i> , 2012 , 5, 6368-6374	35.4	51
145	A role of insulin-like growth factor I for follicle-stimulating hormone receptor expression in rat granulosa cells. <i>Biology of Reproduction</i> , 2000 , 62, 325-33	3.9	51
144	Improving the photoelectrochemical activity of La ₅ Ti ₂ Cu ₅ SnO ₇ for hydrogen evolution by particle transfer and doping. <i>Energy and Environmental Science</i> , 2014 , 7, 2239-2242	35.4	50
143	Photoelectrochemical conversion of toluene to methylcyclohexane as an organic hydride by Cu ₂ ZnSnS ₄ -based photoelectrode assemblies. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2469-2472	16.4	49
142	Transparent Ta N Photoanodes for Efficient Oxygen Evolution toward the Development of Tandem Cells. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 2300-2304	16.4	48
141	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
140	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
139	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
138	La ₅ Ti ₂ Cu ₅ Ag _x SnO ₇ photocathodes operating at positive potentials during photoelectrochemical hydrogen evolution under irradiation of up to 710 nm. <i>Energy and Environmental Science</i> , 2015 , 8, 3354-3362	35.4	44
137	Photoelectrochemical properties of SrNbO ₂ N photoanodes for water oxidation fabricated by the particle transfer method. <i>Faraday Discussions</i> , 2014 , 176, 213-23	3.6	44
136	Polarity control of ZnO films on (0001) Al ₂ O ₃ by Cr-compound intermediate layers. <i>Applied Physics Letters</i> , 2007 , 90, 201907	3.4	44

135	Lattice relaxation mechanism of ZnO thin films grown on c-Al ₂ O ₃ substrates by plasma-assisted molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2007 , 91, 231904	3.4	43
134	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
133	Photoelectrochemical hydrogen evolution from water on a surface modified CdTe thin film electrode under simulated sunlight. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4486-4492	13	41
132	Issues in ZnO homoepitaxy. <i>Superlattices and Microstructures</i> , 2005 , 38, 349-363	2.8	41
131	Recent Progress in the Surface Modification of Photoelectrodes toward Efficient and Stable Overall Water Splitting. <i>Chemistry - A European Journal</i> , 2018 , 24, 5697-5706	4.8	39
130	Adrenomedullin and atrial natriuretic peptide concentrations in normal pregnancy and pre-eclampsia. <i>Molecular Human Reproduction</i> , 1999 , 5, 767-70	4.4	39
129	The cross-substitution effect of tantalum on the visible-light-driven water oxidation activity of BaNbO ₂ N crystals grown directly by an NH ₃ -assisted flux method. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12807-12817	13	39
128	Overall water splitting by photoelectrochemical cells consisting of (ZnSe)(CuInGaSe) photocathodes and BiVO photoanodes. <i>Chemical Communications</i> , 2017 , 53, 11674-11677	5.8	38
127	A SrTiO ₃ photoanode prepared by the particle transfer method for oxygen evolution from water with high quantum efficiencies. <i>Chemical Communications</i> , 2016 , 52, 5011-4	5.8	38
126	Effects of flux synthesis on SrNbO ₂ N particles for photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7658-7664	13	37
125	Bulky crystalline BiVO ₄ thin films for efficient solar water splitting. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 9858-9864	13	36
124	Enhanced Hydrogen Evolution under Simulated Sunlight from Neutral Electrolytes on (ZnSe) (CuInGaSe) Photocathodes Prepared by a Bilayer Method. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15329-15333	16.4	35
123	The effects of preparation conditions for a BaNbO ₂ N photocatalyst on its physical properties. <i>ChemSusChem</i> , 2014 , 7, 2016-21	8.3	35
122	Particulate photocatalyst sheets for Z-scheme water splitting: advantages over powder suspension and photoelectrochemical systems and future challenges. <i>Faraday Discussions</i> , 2017 , 197, 491-504	3.6	34
121	Surgery for endometrial cancers with suspected cervical involvement: is radical hysterectomy needed (a GOTIC study)?. <i>British Journal of Cancer</i> , 2013 , 109, 1760-5	8.7	34
120	Highly Efficient Water Oxidation Photoanode Made of Surface Modified LaTiO ₃ N Particles. <i>Small</i> , 2016 , 12, 5468-5476	11	33
119	Site-selective photodeposition of Pt on a particulate Sc-La ₅ Ti ₂ Cu ₅ O ₇ photocathode: evidence for one-dimensional charge transfer. <i>Chemical Communications</i> , 2015 , 51, 4302-5	5.8	33
118	A CoO-modified SnNbO photoelectrode for highly efficient oxygen evolution from water. <i>Chemical Communications</i> , 2017 , 53, 629-632	5.8	32

117	Regulation of midkine messenger ribonucleic acid levels in cultured rat granulosa cells. <i>Biochemical and Biophysical Research Communications</i> , 1996 , 229, 799-805	3.4	30
116	Photoanodic and photocathodic behaviour of LaTiCuSO electrodes in the water splitting reaction. <i>Chemical Science</i> , 2015 , 6, 4513-4518	9.4	29
115	Development of a CoreShell Heterojunction Ta ₃ N ₅ -Nanorods/BaTaO ₂ N Photoanode for Solar Water Splitting. <i>ACS Energy Letters</i> , 2020 , 5, 2492-2497	20.1	29
114	High-Quality p-Type ZnO Films Grown by Co-Doping of N and Te on Zn-Face ZnO Substrates. <i>Applied Physics Express</i> , 2010 , 3, 031103	2.4	28
113	Efficient hydrogen evolution from water using CdTe photocathodes under simulated sunlight. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13154-13160	13	28
112	The mechanisms of retinoic acid-induced regulation on the follicle-stimulating hormone receptor in rat granulosa cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2000 , 1495, 203-11	4.9	26
111	Kinetics of Distance-Dependent Recombination between Geminate Charge Carriers by Diffusion under Coulomb Interaction. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 5364-5373	3.8	25
110	Effects of interfacial layer structures on crystal structural properties of ZnO films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2008 , 26, 90-96	2.9	25
109	Effect of particle size of La ₅ Ti ₂ Cu ₅ O ₇ on photoelectrochemical properties in solar hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4848-4854	13	23
108	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
107	A miniature solar device for overall water splitting consisting of series-connected spherical silicon solar cells. <i>Scientific Reports</i> , 2016 , 6, 24633	4.9	22
106	Structural characterization of Mg _x Zn _{1-x} O/ZnO heterostructures. <i>Journal of Crystal Growth</i> , 2007 , 306, 269-275	1.6	22
105	Strain-free GaN thick films grown on single crystalline ZnO buffer layer with in situ lift-off technique. <i>Applied Physics Letters</i> , 2007 , 90, 061907	3.4	22
104	Selective growth of Zn- and O-polar ZnO layers by plasma-assisted molecular beam epitaxy. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005 , 23, 1286		22
103	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
102	Powder-based (CuGa _{1-x} In _x) _{1-x} Zn _{2x} S ₂ solid solution photocathodes with a largely positive onset potential for solar water splitting. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 2016-2024	5.8	21
101	Sunlight-Driven Overall Water Splitting by the Combination of Surface-Modified La ₅ Ti ₂ Cu _{0.9} Ag _{0.1} S ₅ O ₇ and BaTaO ₂ N Photoelectrodes. <i>ChemPhotoChem</i> , 2017 , 1, 167-172	3.3	21
100	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

99	Crystal Structure, Electronic Structure, and Photocatalytic Activity of Oxysulfides: La ₂ Ta ₂ ZrS ₂ O ₈ , La ₂ Ta ₂ TiS ₂ O ₈ , and La ₂ Nb ₂ TiS ₂ O ₈ . <i>Inorganic Chemistry</i> , 2016 , 55, 3674-9	5.1	20
98	Chalcopyrite Thin Film Materials for Photoelectrochemical Hydrogen Evolution from Water under Sunlight. <i>Coatings</i> , 2015 , 5, 293-311	2.9	20
97	A novel flux coating method for the fabrication of layers of visible-light-responsive Ta ₃ N ₅ crystals on tantalum substrates. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13946-13952	13	20
96	Investigation of the crystallinity of N and Te codoped Zn-polar ZnO films grown by plasma-assisted molecular-beam epitaxy. <i>Journal of Applied Physics</i> , 2010 , 108, 093518	2.5	20
95	Efficient photocatalytic oxygen evolution using BaTaO ₂ N obtained from nitridation of perovskite-type oxide. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1127-1130	13	20
94	Expression of gonadotropin and activin receptor messenger ribonucleic acid in human ovarian epithelial neoplasms. <i>Clinical Cancer Research</i> , 2000 , 6, 2764-70	12.9	20
93	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
92	CdTe-Based Photoanode for Oxygen Evolution from Water under Simulated Sunlight. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5712-5717	6.4	19
91	Relation between interdiffusion and polarity for MBE growth of GaN epilayers on ZnO substrates. <i>Current Applied Physics</i> , 2004 , 4, 643-646	2.6	19
90	p-type conductivity control of heteroepitaxially grown ZnO films by N and Te codoping and thermal annealing. <i>Journal of Crystal Growth</i> , 2013 , 363, 190-194	1.6	18
89	Enhancement of the H ₂ evolution activity of La ₅ Ti ₂ Cu(S _{1-x} Se _x) ₅ O ₇ photocatalysts by coloaded Pt and NiS cocatalysts. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6106-6112	13	17
88	Particulate photocatalyst sheets based on non-oxide semiconductor materials for water splitting under visible light irradiation. <i>Catalysis Science and Technology</i> , 2018 , 8, 3918-3925	5.5	17
87	Investigation of Cu-Deficient Copper Gallium Selenide Thin Film as a Photocathode for Photoelectrochemical Water Splitting. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 015802	1.4	17
86	Efficient hydrogen evolution on (CuInS)(ZnS) solid solution-based photocathodes under simulated sunlight. <i>Chemical Communications</i> , 2019 , 55, 470-473	5.8	16
85	Lattice deformation of ZnO films with high nitrogen concentration. <i>Applied Surface Science</i> , 2008 , 254, 7972-7975	6.7	16
84	Expression of steroidogenic acute regulatory protein (StAR) in rat granulosa cells. <i>Life Sciences</i> , 2000 , 67, 1015-24	6.8	16
83	Synthesis and Photocatalytic Activity of La ₅ Ti ₂ Cu(S _{1-x} Se _x) ₅ O ₇ Solid Solutions for H ₂ Production under Visible Light Irradiation. <i>ChemPhotoChem</i> , 2017 , 1, 265-272	3.3	15
82	Particulate photocathode composed of (ZnSe) _{0.85} (CuIn _{0.7} Ga _{0.3} Se ₂) _{0.15} synthesized with Na ₂ S for enhanced sunlight-driven hydrogen evolution. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 1957-1965	5.8	15

81	Investigation on the ZnO:N films grown on (0 0 0 1) and (0 0 0 1 $\bar{1}$) ZnO templates by plasma-assisted molecular beam epitaxy. <i>Journal of Crystal Growth</i> , 2009 , 311, 2167-2171	1.6	15
80	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
79	Stable Hydrogen Production from Water on an NIR-Responsive Photocathode under Harsh Conditions. <i>Small Methods</i> , 2018 , 2, 1800018	12.8	14
78	Effects of Se Incorporation in LaTiCuSO by Annealing on Physical Properties and Photocatalytic H Evolution Activity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5595-5601	9.5	14
77	Growth mechanism of ZnO low-temperature homoepitaxy. <i>Journal of Applied Physics</i> , 2011 , 110, 053520	2.5	14
76	Retinoic acid (RA) represses follicle stimulating hormone (FSH)-induced luteinizing hormone (LH) receptor in rat granulosa cells. <i>Archives of Biochemistry and Biophysics</i> , 2000 , 373, 203-10	4.1	14
75	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
74	Effects of flux treatment on morphology of single-crystalline BaNbO ₂ N particles. <i>CrystEngComm</i> , 2016 , 18, 3186-3190	3.3	13
73	Growth of Polarity-Controlled ZnO Films on (0001) Al ₂ O ₃ . <i>Journal of Electronic Materials</i> , 2008 , 37, 736-742	1.2	13
72	Investigation of charge separation in particulate oxysulfide and oxynitride photoelectrodes by surface photovoltage spectroscopy. <i>Chemical Physics Letters</i> , 2017 , 683, 140-144	2.5	12
71	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
70	Follicle-stimulating hormone regulation on its receptor messenger ribonucleic acid levels in cultured rat granulosa cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1997 , 1359, 165-73	4.9	12
69	Investigation on nitridation processes of SrNbO and SrNbO to SrNbON for photoelectrochemical water splitting. <i>Scientific Reports</i> , 2018 , 8, 15849	4.9	12
68	Efficient Water Oxidation Using Ta N Thin Film Photoelectrodes Prepared on Insulating Transparent Substrates. <i>ChemSusChem</i> , 2020 , 13, 1974-1978	8.3	11
67	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
66	La Ti Cu Ag S O Modified with a Molecular Ni Catalyst for Photoelectrochemical H Generation. <i>Chemistry - A European Journal</i> , 2018 , 24, 18393-18397	4.8	10
65	A Photoelectrochemical Solar Cell Consisting of a Cadmium Sulfide Photoanode and a Ruthenium-2,2SBipyridine Redox Shuttle in a Non-aqueous Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 7877-81	16.4	10
64	Structural and optical investigations of periodically polarity inverted ZnO heterostructures on (0001) Al ₂ O ₃ . <i>Applied Physics Letters</i> , 2009 , 94, 141904	3.4	10

63	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
62	Suppression of poisoning of photocathode catalysts in photoelectrochemical cells for highly stable sunlight-driven overall water splitting. <i>Journal of Chemical Physics</i> , 2019 , 150, 041713	3.9	10
61	Synthesis of Concentrated Methylcyclohexane as Hydrogen Carrier through Photoelectrochemical Conversion of Toluene and Water. <i>ChemSusChem</i> , 2017 , 10, 659-663	8.3	9
60	Electrochemical Evaluation for Multiple Functions of Pt-loaded TiO ₂ Nanoparticles Deposited on a Photocathode. <i>ChemElectroChem</i> , 2019 , 6, 4859-4866	4.3	9
59	Plate-like Sm ₂ Ti ₂ S ₂ O ₅ Particles Prepared by a Flux-Assisted One-Step Synthesis for the Evolution of O ₂ from Aqueous Solutions by Both Photocatalytic and Photoelectrochemical Reactions. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13492-13499	3.8	9
58	Probing fundamental losses in nanostructured Ta ₃ N ₅ photoanodes: design principles for efficient water oxidation. <i>Energy and Environmental Science</i> , 2021 , 14, 4038-4047	35.4	9
57	A Semitransparent Nitride Photoanode Responsive up to 600 nm Based on a Carbon Nanotube Thin Film Electrode. <i>ChemPhotoChem</i> , 2019 , 3, 521-524	3.3	8
56	Effects of Calcination Temperature on the Physical Properties and Hydrogen Evolution Activities of La ₅ Ti ₂ Cu(S _{1-x} Se _x) ₅ O ₇ Photocatalysts. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1700275	3.1	8
55	Investigation of Cu-Deficient Copper Gallium Selenide Thin Film as a Photocathode for Photoelectrochemical Water Splitting. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 015802	1.4	8
54	Low-temperature growth of high-quality ZnO layers by surfactant-mediated molecular-beam epitaxy. <i>Journal of Crystal Growth</i> , 2007 , 309, 158-163	1.6	8
53	Defect and interface studies of ZnO/Mg _x Zn _{1-x} O heterostructures. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 497-500	3.9	8
52	Effects of annealing conditions on the oxygen evolution activity of a BaTaO ₂ N photocatalyst loaded with cobalt species. <i>Catalysis Today</i> , 2020 , 354, 204-210	5.3	8
51	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
50	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
49	Conversion of toluene and water to methylcyclohexane and oxygen using niobium-doped strontium titanate photoelectrodes. <i>ChemSusChem</i> , 2014 , 7, 2690-4	8.3	7
48	Structural investigation of nitrated c-sapphire substrate by grazing incidence x-ray diffraction and transmission electron microscopy. <i>Applied Physics Letters</i> , 2007 , 91, 202116	3.4	7
47	The high quality ZnO growth on c-Al ₂ O ₃ substrate with Cr ₂ O ₃ buffer layer using plasma-assisted molecular beam epitaxy. <i>Applied Surface Science</i> , 2008 , 254, 7786-7789	6.7	7
46	Control of crystal polarity in oxide and nitride semiconductors by interface engineering. <i>Journal of Electroceramics</i> , 2006 , 17, 255-261	1.5	7

45	Reduction of dislocation density and improvement of optical quality in ZnO layers by MgO-buffer annealing. <i>Current Applied Physics</i> , 2004 , 4, 637-639	2.6	7
44	Photoelectrochemical Solar Cells Consisting of a Pt-Modified CdS Photoanode and an Fe(ClO ₄) ₂ /Fe(ClO ₄) ₃ Redox Shuttle in a Nonaqueous Electrolyte. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 10781-10790	3.8	7
43	Enhanced Photoelectrochemical Water Oxidation from CdTe Photoanodes Annealed with CdCl ₂ . <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13800-13806	16.4	6
42	Conversion Reaction in the Binder-Free Anode for Fast-Charging Li-Ion Batteries Based on WO ₃ Nanorods. <i>ACS Applied Energy Materials</i> , 2020 , 3, 6700-6708	6.1	6
41	Influence of Isoelectronic Te Doping on the Physical Properties of ZnO Films Grown by Molecular-Beam Epitaxy. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 055501	1.4	6
40	Stress dependence on N/Ga ratio in GaN epitaxial films grown on ZnO substrates. <i>Current Applied Physics</i> , 2004 , 4, 685-687	2.6	6
39	ZnTe-based photocathode for hydrogen evolution from water under sunlight. <i>APL Materials</i> , 2020 , 8, 041101	5.7	5
38	Lateral arrays of vertical ZnO nanowalls on a periodically polarity-inverted ZnO template. <i>Nanotechnology</i> , 2009 , 20, 235304	3.4	5
37	The effect of growth temperature on nitrogen incorporation into ZnO film grown on Al ₂ O ₃ substrate. <i>Journal of Crystal Growth</i> , 2009 , 311, 466-469	1.6	5
36	A surface sensitive optical method for the evaluation of processed ZnO: exploitation of LO phonon interaction. <i>Current Applied Physics</i> , 2004 , 4, 633-636	2.6	5
35	Efficient photoelectrochemical hydrogen production over CuInS ₂ photocathodes modified with amorphous Ni-MoS _x operating in a neutral electrolyte. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 1607-1611	5.8	4
34	Fabrication of periodically polarity-inverted ZnO films. <i>Journal of Vacuum Science & Technology B</i> , 2008 , 26, 1120		4
33	Transparent Ta ₃ N ₅ Photoanodes for Efficient Oxygen Evolution toward the Development of Tandem Cells. <i>Angewandte Chemie</i> , 2018 , 131, 2322	3.6	4
32	Enhanced Photoelectrochemical Water Oxidation from CdTe Photoanodes Annealed with CdCl ₂ . <i>Angewandte Chemie</i> , 2020 , 132, 13904-13910	3.6	3
31	Composite of Rh _y Cr ₂ O ₃ /(Ga _{1-x} Zn _x)(N _{1-x} O _x) Photocatalysts with Hydrophobic Polytetrafluoroethylene (PTFE) Membranes for the Fabrication of Novel Reaction Sites for Water Vapor Splitting Under Visible Light. <i>Catalysis Letters</i> , 2013 , 143, 150-153	2.8	3
30	A Photoelectrochemical Solar Cell Consisting of a Cadmium Sulfide Photoanode and a Ruthenium ^{II} -Bipyridine Redox Shuttle in a Non-aqueous Electrolyte. <i>Angewandte Chemie</i> , 2015 , 127, 7988-7992	3.6	3
29	Photoelectrodes: Vertically Aligned Ta ₃ N ₅ Nanorod Arrays for Solar-Driven Photoelectrochemical Water Splitting (Adv. Mater. 1/2013). <i>Advanced Materials</i> , 2013 , 25, 152-152	24	3
28	Photoelectrochemical Properties of Single Crystalline and Polycrystalline GaN Grown by the Na-flux Method. <i>Electrochemistry</i> , 2010 , 78, 136-139	1.2	3

27	The effect of hydrogen irradiation and annealing on the low-temperature growth of homoepitaxial ZnO layers grown on (0 0 0 1) ZnO substrates by plasma-assisted molecular beam epitaxy. <i>Applied Surface Science</i> , 2008 , 254, 3120-3124	6.7	3
26	A high-resolution electron microscopy study of Mg _x Zn _{1-x} O films grown on MgO/c-sapphire. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006 , 3, 1042-1045		3
25	ZnO Nanorods and Periodically-Polarity-Inverted Structures for Photonic Devices. <i>Journal of the Korean Physical Society</i> , 2008 , 53, 406-411	0.6	3
24	Impact of lattice defects on water oxidation properties in SnNb ₂ O ₆ photoanode prepared by pulsed-laser deposition method. <i>Journal of Applied Physics</i> , 2019 , 126, 094901	2.5	2
23	Optimal Metal Oxide Deposition Conditions and Properties for the Enhancement of Hydrogen Evolution over Particulate La ₅ Ti ₂ Cu _{1-x} Ag _x S ₅ O ₇ Photocathodes. <i>ChemPhotoChem</i> , 2018 , 2, 234-239	3.3	2
22	Anisotropic properties of periodically polarity-inverted zinc oxide structures. <i>Journal of Applied Physics</i> , 2010 , 107, 123519	2.5	2
21	The thermal treatment effects of CrN buffer layer on crystal quality of Zn-polar ZnO films. <i>Thin Solid Films</i> , 2011 , 519, 3417-3420	2.2	2
20	Fabrication of periodically polarity-inverted ZnO structures on (0001) Al ₂ O ₃ . <i>Thin Solid Films</i> , 2010 , 518, 4117-4120	2.2	2
19	Improvement of Photoelectrochemical Properties by Surface Modification with Iron Oxide on p-Type Si Electrodes for Hydrogen Evolution from Water. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 085702	1.4	2
18	In Situ Photoluminescence Analysis of GaN Photoanode during Water Oxidation. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 10493-10499	3.8	2
17	Improvement of Photoelectrochemical Reaction for Hydrogen Generation from Water using N-face GaN. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1202, 1		1
16	Fabrication of one-dimensional and two-dimensional periodically polarity inverted ZnO structures using the patterned CrN buffer layers. <i>Journal of Vacuum Science & Technology B</i> , 2009 , 27, 1658		1
15	Improvement of Photoelectrochemical Properties by Surface Modification with Iron Oxide on p-Type Si Electrodes for Hydrogen Evolution from Water. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 085702	1.4	1
14	Structural characterization of MgO/c-Al ₂ O ₃ interfaces. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007 , 4, 1715-1718		1
13	Characterization of free-standing GaN substrates prepared by self lift-off. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007 , 4, 2617-2620		1
12	Second harmonic generation of pseudo mode-locked multi ten milliwatt picosecond Ti:sapphire laser. <i>Science and Technology of Advanced Materials</i> , 2004 , 5, 593-596	7.1	1
11	Efficient hydrogen evolution from water over thin film photocathode composed of solid solutions between ZnSe and Cu(In, Ga)Se ₂ with composition gradient. <i>Applied Physics Letters</i> , 2021 , 119, 123905	3.4	1
10	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	

- 9 Stress field analysis around vortex in elastic layer of viscoelastic turbulent channel flow. *Journal of Physics: Conference Series*, **2014**, 530, 012059 0.3
- 8 Effect of anion-to-cation supplying ratio on the surface morphology of AlN films grown on ZnO substrates at low temperature. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2010**, 28, 61-64 2.9
- 7 High quality p-type ZnO film grown on ZnO substrate by nitrogen and tellurium co-doping. *Materials Research Society Symposia Proceedings*, **2009**, 1201, 136
- 6 Crystal polarity control of ZnO films and nonlinear optical response. *Materials Research Society Symposia Proceedings*, **2009**, 1201, 13
- 5 Hydrogen-assisted molecular-beam epitaxy of ZnO layers on Zn-polar ZnO. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2007**, 4, 1685-1688
- 4 The Growth of ZnO on CrN Buffer Layer Using Surface Phase Control by Plasma Assisted Molecular-beam Epitaxy. *Materials Research Society Symposia Proceedings*, **2006**, 957, 1
- 3 Effects of Surface Treatments on Optical Properties of GaN. *Materials Research Society Symposia Proceedings*, **2006**, 955, 1
- 2 ZnO/GaN Heteroepitaxy. *Materials Research Society Symposia Proceedings*, **2004**, 829, 54
- 1 Ambient Sensitive Charge Transfer from GaN to Pt during a Photocatalytic Reaction.. *Journal of Physical Chemistry Letters*, **2022**, 3978-3982 6.4