

# Akira Yamakata

## 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.

147  
papers

5,776  
citations

38  
h-index

72  
g-index

157  
ext. papers

6,984  
ext. citations

7.8  
avg, IF

6.01  
L-index

#	Paper	IF	Citations
147	Manipulation of charge carrier flow in BiNbOCl nanoplate photocatalyst with metal loading.. <i>Chemical Science</i> , <b>2022</b> , 13, 3118-3128	9.4	4
146	Influences of pulverization and annealing treatment on the photocatalytic activity of BiVO <sub>4</sub> for oxygen evolution. <i>Sustainable Energy and Fuels</i> , <b>2022</b> , 6, 1698-1707	5.8	2
145	Enhanced Overall Water Splitting by a Zirconium-Doped TaON-Based Photocatalyst.. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> , e202116573	16.4	3
144	Overall photosynthesis of H <sub>2</sub> by an inorganic semiconductor.. <i>Nature Communications</i> , <b>2022</b> , 13, 1034	17.4	11
143	Identification of a Self-Photosensitizing Hydrogen Atom Transfer Organocatalyst System.. <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	3
142	Donor-Acceptor Type Porphyrin-Fullerene Dyad with Acetylene Bridge for p-Type Dye-sensitized Solar Cell. <i>Chemistry Letters</i> , <b>2022</b> , 51, 260-263	1.7	
141	Eliciting the Contribution of TiN to Photoelectrochemical Performance Enhancement of Imma-LaTiO <sub>2</sub> N at Neutral pH. <i>Materials Today Energy</i> , <b>2022</b> , 101053	7	1
140	Modified SILAR Grown ZnO Films on p-Si(100) with Enhanced Charge Separation for UV Light Sensing Application. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2021</b> , 218, 2100363	1.6	
139	Atomically dispersed antimony on carbon nitride for the artificial photosynthesis of hydrogen peroxide. <i>Nature Catalysis</i> , <b>2021</b> , 4, 374-384	36.5	96
138	Titanium Dioxide/Polyvinyl Alcohol/Cork Nanocomposite: A Floating Photocatalyst for the Degradation of Methylene Blue under Irradiation of a Visible Light Source. <i>ACS Omega</i> , <b>2021</b> , 6, 14493-14503	3.9	7
137	Buckyball as an Electron Donor in a Dyad of C <sub>60</sub> and Xanthene Dye. <i>European Journal of Organic Chemistry</i> , <b>2021</b> , 2021, 3377-3381	3.2	0
136	Simultaneously Tuning the Defects and Surface Properties of TaN Nanoparticles by Mg-Zr Codoping for Significantly Accelerated Photocatalytic H <sub>2</sub> Evolution. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 10059-10064	16.4	17
135	Surface Modifications of (ZnSe)(CuGaSe) to Promote Photocatalytic Z-Scheme Overall Water Splitting. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 10633-10641	16.4	29
134	Core-Shell Double Doping of Zn and Ca on BiGa <sub>2</sub> O <sub>3</sub> Photocatalysts for Remarkable Water Splitting. <i>ACS Catalysis</i> , <b>2021</b> , 11, 1911-1919	13.1	10
133	A Na-containing Pt cocatalyst for efficient visible-light-induced hydrogen evolution on BaTaO <sub>2</sub> N. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 13851-13854	13	3
132	Utilization of Perovskite-Type Oxynitride La <sub>0.5</sub> Sr <sub>0.5</sub> Ta <sub>0.5</sub> Ti <sub>0.5</sub> O <sub>2</sub> N as an O <sub>2</sub> -Evolving Photocatalyst in Z-Scheme Water Splitting. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 2056-2060	6.1	6
131	Sequential cocatalyst decoration on BaTaON towards highly-active Z-scheme water splitting. <i>Nature Communications</i> , <b>2021</b> , 12, 1005	17.4	46

130	Control of the Photocatalytic Activity of Metastable Layered Oxynitride K <sub>2</sub> LaTa <sub>2</sub> O <sub>6</sub> N through Topochemical Transformation of Tuned Oxide Precursors. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 6443-6452	9.6	2
129	Time-Retrrenched Synthesis of BaTaO <sub>2</sub> N by Localizing an NH <sub>3</sub> Delivery System for Visible-Light-Driven Photoelectrochemical Water Oxidation at Neutral pH: Solid-State Reaction or Flux Method?. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 9315-9327	6.1	2
128	Forward and backward electron transfer on Pt loaded TiO <sub>2</sub> photocatalysts under visible-light illumination. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 133905	3.4	1
127	Earth-abundant iron(III) species serves as a cocatalyst boosting the multielectron reduction of IO <sub>3</sub> <sup>-</sup> /I <sup>-</sup> redox shuttle in Z-scheme photocatalytic water splitting. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 11718-11725	13	3
126	Heteroatom Dopants Promote Two-Electron O <sub>2</sub> Reduction for Photocatalytic Production of H <sub>2</sub> O <sub>2</sub> on Polymeric Carbon Nitride. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 16343-16351	3.6	7
125	Heteroatom Dopants Promote Two-Electron O Reduction for Photocatalytic Production of H <sub>2</sub> O on Polymeric Carbon Nitride. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 16209-16217	16.4	98
124	Nano vs. bulk rutile TiO <sub>2</sub> :N,F in Z-scheme overall water splitting under visible light. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 11996-12002	13	14
123	Enhancement of photoelectrochemical activity of TiO electrode by particulate/dense double-layer formation. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 241101	3.9	3
122	Synthesis of three-component C <sub>3</sub> N <sub>4</sub> /rGO/C-TiO <sub>2</sub> photocatalyst with enhanced visible-light responsive photocatalytic deNO activity. <i>Chemical Engineering Journal</i> , <b>2020</b> , 390, 124616	14.7	27
121	Cobalt Aluminate Spinel as a Cocatalyst for Photocatalytic Oxidation of Water: Significant Hole-Trapping Effect. <i>ACS Catalysis</i> , <b>2020</b> , 10, 4960-4966	13.1	19
120	Defect-Induced Acceleration and Deceleration of Photocarrier Recombination in SrTiO <sub>3</sub> Powders. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 11057-11063	3.8	9
119	Activation of a Pt-loaded Pb <sub>2</sub> Ti <sub>2</sub> O <sub>5.4</sub> F <sub>1.2</sub> photocatalyst by alkaline chloride treatment for improved H <sub>2</sub> evolution under visible light. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 9099-9108	13	7
118	Time-Resolved Spectroscopy of Defect-Induced Effects on Photocarrier Dynamics in SrTiO <sub>3</sub> Powder. <i>ECS Meeting Abstracts</i> , <b>2020</b> , MA2020-02, 3873-3873	0	
117	Enhancement of UV-responsive photocatalysts aided by visible-light responsive photocatalysts: Role of WO <sub>3</sub> for H <sub>2</sub> evolution on CuCl. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 263, 118333	21.8	9
116	Identification of Individual Electron- and Hole-Transfer Kinetics at CoO <sub>x</sub> /BiVO <sub>4</sub> /SnO <sub>2</sub> Double Heterojunctions. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 1207-1214	6.1	10
115	Synthesis of Copolymerized Carbon Nitride Nanosheets from Urea and 2-Aminobenzonitrile for Enhanced Visible Light CO <sub>2</sub> Reduction with a Ruthenium(II) Complex Catalyst. <i>Solar Rrl</i> , <b>2020</b> , 4, 1900461	7.1	7
114	Synthesis of Three-Layer Perovskite Oxynitride KCaTaON <sub>2</sub> HO and Photocatalytic Activity for H <sub>2</sub> Evolution under Visible Light. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 11122-11128	5.1	9
113	Heavy Metal Effects on the Photovoltaic Properties of Metalloporphyrins in Dye-Sensitized Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 12460-12467	6.1	9

112	Investigation on the highly active SrTiO <sub>3</sub> photocatalyst toward overall H <sub>2</sub> O splitting by doping Na ion. <i>Journal of Catalysis</i> , <b>2020</b> , 390, 81-89	7.3	13
111	Optically Transparent Colloidal Dispersion of Titania Nanoparticles Storable for Longer than One Year Prepared by Sol/Gel Progressive Hydrolysis/Condensation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 44743-44753	9.5	5
110	How g-CN Works and Is Different from TiO as an Environmental Photocatalyst: Mechanistic View. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 497-506	10.3	33
109	Efficient photocatalytic hydrogen evolution on single-crystalline metal selenide particles with suitable cocatalysts. <i>Chemical Science</i> , <b>2020</b> , 11, 6436-6441	9.4	13
108	Effect of Na-Doping on Electron Decay Kinetics in SrTiO <sub>3</sub> Photocatalyst. <i>ChemCatChem</i> , <b>2019</b> , 11, 6349-6354	9.3	13
107	Solar-Driven Photoelectrochemical Water Oxidation over an n-Type Lead-Titanium Oxyfluoride Anode. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 17158-17165	16.4	28
106	Sodium titanium oxide bronze nanoparticles synthesized via concurrent reduction and Na-doping into TiO(B). <i>Nanoscale</i> , <b>2019</b> , 11, 1442-1450	7.7	6
105	Clear and transparent nanocrystals for infrared-responsive carrier transfer. <i>Nature Communications</i> , <b>2019</b> , 10, 406	17.4	25
104	Oxygen-Doped Ta <sub>3</sub> N <sub>5</sub> Nanoparticles for Enhanced Z-Scheme Carbon Dioxide Reduction with a Binuclear Ruthenium(II) Complex under Visible Light. <i>ChemPhotoChem</i> , <b>2019</b> , 3, 1027-1033	3.3	7
103	Construction of Spatial Charge Separation Facets on BaTaON Crystals by Flux Growth Approach for Visible-Light-Driven H <sub>2</sub> Production. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 22264-22271	9.5	31
102	Effect of CuFe <sub>2</sub> O <sub>4</sub> ferrite on photocatalysis and carrier dynamics of electrospun Fe <sub>2</sub> O <sub>3</sub> nanofibers by time-resolved transient absorption spectroscopy. <i>Ceramics International</i> , <b>2019</b> , 45, 15676-15680	5.1	6
101	Enhanced Visible Light Response of TiO <sub>2</sub> Codoped with Cr and Ta Photocatalysts by Electron Doping. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 3274-3282	6.1	7
100	Enhanced water splitting through two-step photoexcitation by sunlight using tantalum/nitrogen-codoped rutile titania as a water oxidation photocatalyst. <i>Sustainable Energy and Fuels</i> , <b>2019</b> , 3, 2337-2346	5.8	11
99	Fe/Ru Oxide as a Versatile and Effective Cocatalyst for Boosting Z-Scheme Water-Splitting: Suppressing Undesirable Backward Electron Transfer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 45606-45611	9.5	7
98	Achievement of High Photocatalytic Performance to BaTi <sub>4</sub> O <sub>9</sub> Toward Overall H <sub>2</sub> O Splitting. <i>ChemCatChem</i> , <b>2019</b> , 11, 6213-6217	5.2	4
97	Improvement of photocatalytic activity under visible-light irradiation by heterojunction of Cu ion loaded WO <sub>3</sub> and Cu ion loaded N-TiO <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 248, 249-254	21.8	16
96	Crucial impact of reduction on the photocarrier dynamics of SrTiO <sub>3</sub> powders studied by transient absorption spectroscopy. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 26139-26146	13	12
95	Plasmonic p-n Junction for Infrared Light to Chemical Energy Conversion. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 2446-2450	16.4	70

94	Curious behaviors of photogenerated electrons and holes at the defects on anatase, rutile, and brookite TiO <sub>2</sub> powders: A review. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , <b>2019</b> , 40, 234-243	16.4	71
93	Visible-light CO <sub>2</sub> reduction over a ruthenium(II)-complex/C <sub>3</sub> N <sub>4</sub> hybrid photocatalyst: the promotional effect of silver species. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 9708-9715	13	24
92	Oxygen induced enhancement of NIR emission in brookite TiO powders: comparison with rutile and anatase TiO powders. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 3241-3248	3.6	23
91	Role of CoO <sub>x</sub> cocatalyst on Ta <sub>3</sub> N <sub>5</sub> photocatalysts studied by transient visible to mid-infrared absorption spectroscopy. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2018</b> , 358, 315-319	4.7	21
90	Fabrication of robust TiO <sub>2</sub> thin films by atomized spray pyrolysis deposition for photoelectrochemical water oxidation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2018</b> , 358, 320-326	4.7	14
89	Binary flux-promoted formation of trigonal ZnIn <sub>2</sub> S <sub>4</sub> layered crystals using ZnS-containing industrial waste and their photocatalytic performance for H <sub>2</sub> production. <i>Green Chemistry</i> , <b>2018</b> , 20, 3845-3856	10	24
88	Enhanced photocatalytic NO <sub>x</sub> decomposition of visible-light responsive F-TiO <sub>2</sub> /(N,C)-TiO <sub>2</sub> by charge transfer between F-TiO <sub>2</sub> and (N,C)-TiO <sub>2</sub> through their doping levels. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 238, 358-364	21.8	43
87	Undoped Layered Perovskite Oxynitride Li <sub>2</sub> LaTa <sub>2</sub> O <sub>6</sub> N for Photocatalytic CO <sub>2</sub> Reduction with Visible Light. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 8286-8290	3.6	16
86	Undoped Layered Perovskite Oxynitride Li LaTa O N for Photocatalytic CO Reduction with Visible Light. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 8154-8158	16.4	51
85	Near infrared light induced plasmonic hot hole transfer at a nano-heterointerface. <i>Nature Communications</i> , <b>2018</b> , 9, 2314	17.4	58
84	Homogeneous Electron Doping into Nonstoichiometric Strontium Titanate Improves Its Photocatalytic Activity for Hydrogen and Oxygen Evolution. <i>ACS Catalysis</i> , <b>2018</b> , 8, 7190-7200	13.1	28
83	Structural changes of water molecules during photoelectrochemical water oxidation on TiO thin film electrodes. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 3388-3394	3.6	3
82	Expansion of the photoresponse window of a BiVO photocatalyst by doping with chromium(vi).. <i>RSC Advances</i> , <b>2018</b> , 8, 38140-38145	3.7	10
81	Copolymerization Approach to Improving Ru(II)-Complex/C <sub>3</sub> N <sub>4</sub> Hybrid Photocatalysts for Visible-Light CO <sub>2</sub> Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 15333-15340	8.3	26
80	Effects of Interfacial Electron Transfer in Metal Complex Semiconductor Hybrid Photocatalysts on Z-Scheme CO <sub>2</sub> Reduction under Visible Light. <i>ACS Catalysis</i> , <b>2018</b> , 8, 9744-9754	13.1	44
79	Nitrogen/fluorine-codoped rutile titania as a stable oxygen-evolution photocatalyst for solar-driven Z-scheme water splitting. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 2025-2035	5.8	28
78	Excited-State Dynamics of Graphitic Carbon Nitride Photocatalyst and Ultrafast Electron Injection to a Ru(II) Mononuclear Complex for Carbon Dioxide Reduction. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 16795-16802	3.8	33
77	Solar-driven Z-scheme water splitting using tantalum/nitrogen co-doped rutile titania nanorod as an oxygen evolution photocatalyst. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 11710-11719	13	76

76	Trapping-Induced Enhancement of Photocatalytic Activity on Brookite TiO <sub>2</sub> Powders: Comparison with Anatase and Rutile TiO <sub>2</sub> Powders. <i>ACS Catalysis</i> , <b>2017</b> , 7, 2644-2651	13.1	134
75	Inorganic assembly catalysts for artificial photosynthesis: general discussion. <i>Faraday Discussions</i> , <b>2017</b> , 198, 481-507	3.6	2
74	Cation-dependent restructure of the electric double layer on CO-covered Pt electrodes: Difference between hydrophilic and hydrophobic cations. <i>Journal of Electroanalytical Chemistry</i> , <b>2017</b> , 800, 19-24	4.1	16
73	Engaging the flux-grown La <sub>1-x</sub> Bi <sub>x</sub> Fe <sub>1-y</sub> Ni <sub>y</sub> O <sub>3</sub> crystals in visible-light-driven photocatalytic hydrogen generation. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 27024-27033	6.7	12
72	Elucidating the impact of A-site cation change on photocatalytic H and O evolution activities of perovskite-type LnTaON (Ln = La and Pr). <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 22210-22220	3.6	34
71	Interfacial Manipulation by Rutile TiO Nanoparticles to Boost CO Reduction into CO on a Metal-Complex/Semiconductor Hybrid Photocatalyst. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 23869-23877	9.5	56
70	KCl flux-induced growth of isometric crystals of cadmium-containing early transition-metal (Ti <sup>4+</sup> , Nb <sup>5+</sup> , and Ta <sup>5+</sup> ) oxides and nitridability to form their (oxy)nitride derivatives under an NH <sub>3</sub> atmosphere for water splitting application. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 182, 626-635	21.8	28
69	The contrasting effect of the Ta/Nb ratio in (111)-layered B-site deficient hexagonal perovskite Ba <sub>5</sub> Nb <sub>4-x</sub> Ta <sub>x</sub> O <sub>15</sub> crystals on visible-light-induced photocatalytic water oxidation activity of their oxynitride derivatives. <i>Dalton Transactions</i> , <b>2016</b> , 45, 12559-68	4.3	21
68	Photocatalytic property of metal ion added SrTiO <sub>3</sub> to Overall H <sub>2</sub> O splitting. <i>Applied Catalysis A: General</i> , <b>2016</b> , 521, 227-232	5.1	43
67	Flux-mediated doping of SrTiO <sub>3</sub> photocatalysts for efficient overall water splitting. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 3027-3033	13	152
66	Nature-Inspired, Highly Durable CO <sub>2</sub> Reduction System Consisting of a Binuclear Ruthenium(II) Complex and an Organic Semiconductor Using Visible Light. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 5159-70	16.4	329
65	Dynamics of Photogenerated Charge Carriers on Ni- and Ta-Doped SrTiO <sub>3</sub> Photocatalysts Studied by Time-Resolved Absorption and Emission Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 7997-8004	3.8	29
64	Enhancement of photoelectrochemical activity of SnS thin-film photoelectrodes using TiO <sub>2</sub> , Nb <sub>2</sub> O <sub>5</sub> , and Ta <sub>2</sub> O <sub>5</sub> metal oxide layers. <i>Applied Physics Express</i> , <b>2016</b> , 9, 067101	2.4	15
63	Behavior and Energy State of Photogenerated Charge Carriers in Single-Crystalline and Polycrystalline Powder SrTiO <sub>3</sub> Studied by Time-Resolved Absorption Spectroscopy in the Visible to Mid-Infrared Region. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 1880-1885	3.8	74
62	NH <sub>3</sub> -Assisted Flux Growth of Cube-like BaTaO <sub>2</sub> N Submicron Crystals in a Completely Ionized Nonaqueous High-Temperature Solution and Their Water Splitting Activity. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 4663-4671	3.5	73
61	Surface-enhanced IR absorption spectroscopy of the KcsA potassium channel upon application of an electric field. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 21104-11	3.6	9
60	NH <sub>3</sub> -Assisted Flux-Mediated Direct Growth of LaTiO <sub>2</sub> N Crystallites for Visible-Light-Induced Water Splitting. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 15896-15904	3.8	44
59	Distinctive Behavior of Photogenerated Electrons and Holes in Anatase and Rutile TiO <sub>2</sub> Powders. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 24538-24545	3.8	131



58	Morphology-sensitive trapping states of photogenerated charge carriers on SrTiO <sub>3</sub> particles studied by time-resolved visible to Mid-IR absorption spectroscopy: The effects of molten salt flux treatments. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2015</b> , 313, 168-175	4.7	51
57	Behavior and Energy States of Photogenerated Charge Carriers on Pt- or CoOx-Loaded LaTiO <sub>2</sub> N Photocatalysts: Time-Resolved Visible to Mid-Infrared Absorption Study. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 23897-23906	3.8	102
56	4. ??????????????????????????????????. <i>Electrochemistry</i> , <b>2014</b> , 82, 771-776	1.2	0
55	Real-time observation of the destruction of hydration shells under electrochemical force. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 15033-9	16.4	36
54	Effect of Particle Size on the Photocatalytic Activity of WO <sub>3</sub> Particles for Water Oxidation. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 22584-22590	3.8	146
53	Photocatalytic activity of titania particles calcined at high temperature: Investigating deactivation. <i>Chemical Physics Letters</i> , <b>2013</b> , 579, 111-113	2.5	19
52	Structural changes of the KcsA potassium channel upon application of the electrode potential studied by surface-enhanced IR absorption spectroscopy. <i>Chemical Physics</i> , <b>2013</b> , 419, 224-228	2.3	4
51	ELECTRONICALLY CROSS-LINKED PbS QUANTUM DOT NETWORKS USING POLYMERS AS SURFACE LIGANDS. <i>Nano</i> , <b>2013</b> , 08, 1350013	1.1	
50	Cobalt-modified porous single-crystalline LaTiO <sub>2</sub> N for highly efficient water oxidation under visible light. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 8348-51	16.4	329
49	Effect of Photoexcited Electron Dynamics on Photocatalytic Efficiency of Bismuth Tungstate. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 16598-16605	3.8	26
48	Structure and Behavior of Water at the Electrochemical Interface Studied by Surface-Enhanced Infrared Absorption Spectroscopy. <i>Bunseki Kagaku</i> , <b>2011</b> , 60, 1-9	0.2	2
47	Infrared Spectroscopic Study of the Potential Change at Cocatalyst Particles on Oxynitride Photocatalysts for Water Splitting by Visible Light Irradiation. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 23902-23907	3.8	24
46	Potential-dependent recombination kinetics of photogenerated electrons in n- and p-type GaN photoelectrodes studied by time-resolved IR absorption spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 11351-7	16.4	42
45	Destruction of the Water Layer on a Hydrophobic Surface Induced by the Forced Approach of Hydrophilic and Hydrophobic Cations. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 1487-1491	6.4	34
44	Destruction of the hydration shell around tetraalkylammonium ions at the electrochemical interface. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 6892-3	16.4	31
43	ATR-SEIRAS investigation of the Fermi level of Pt cocatalyst on a GaN photocatalyst for hydrogen evolution under irradiation. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 13218-9	16.4	126
42	Electrocatalytic Reactions Studied by Time-resolved Surface-enhanced Infrared Spectroscopy. <i>Hyomen Kagaku</i> , <b>2009</b> , 30, 68-74		0
41	Visible light responsive pristine metal oxide photocatalyst: enhancement of activity by crystallization under hydrothermal treatment. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 17650-17654	16.4	202

40	Hydrogen evolution reaction catalyzed by proton-coupled redox cycle of 4,4'-bipyridine monolayer adsorbed on silver electrodes. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 10862-3	16.4	29
39	Surface-enhanced infrared absorption spectroscopic studies of adsorbed nitrate, nitric oxide, and related compounds 2: Nitrate ion adsorption at a platinum electrode. <i>Langmuir</i> , <b>2008</b> , 24, 4358-63	4	31
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