

Kazuhiro Takanabe

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.

200
papers

23,764
citations

55
h-index

153
g-index

213
ext. papers

26,776
ext. citations

7.8
avg, IF

7.29
L-index

#	Paper	IF	Citations
200	Transient Potassium Peroxide Species in Highly Selective Oxidative Coupling of Methane over an Unmolten K ₂ WO ₄ /SiO ₂ Catalyst Revealed by In Situ Characterization. <i>ACS Catalysis</i> , 2021 , 11, 14237-14248	12.1	3
199	Noncatalytic Oxidative Coupling of Methane (OCM): Gas-Phase Reactions in a Jet Stirred Reactor (JSR).. <i>ACS Omega</i> , 2021 , 6, 33757-33768	3.9	2
198	Gas crossover regulation by porosity-controlled glass sheet achieves pure hydrogen production by buffered water electrolysis at neutral pH.. <i>ChemSusChem</i> , 2021 , e202102294	8.3	3
197	Maximizing Oxygen Evolution Performance on a Transparent NiFeO/TaN Photoelectrode Fabricated on an Insulator. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 16317-16325	9.5	4
196	Surface-Modified Ta ₃ N ₅ Photoanodes for Sunlight-Driven Overall Water Splitting by Photoelectrochemical Cells. <i>Catalysts</i> , 2021 , 11, 584	4	6
195	Recent Developments in Visible-Light-Absorbing Semitransparent Photoanodes for Tandem Cells Driving Solar Water Splitting. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2100023	1.6	4
194	Operando Elucidation on the Working State of Immobilized Fluorinated Iron Porphyrin for Selective Aqueous Electroreduction of CO ₂ to CO. <i>ACS Catalysis</i> , 2021 , 11, 6499-6509	13.1	6
193	Photocatalytic Water Splitting: Fundamentals and Current Concepts 2021 , 269-286		1
192	Oxidative coupling of methane over sodium zirconate catalyst. <i>Catalysis Science and Technology</i> , 2021 , 11, 4803-4811	5.5	2
191	Recent advances in understanding oxygen evolution reaction mechanisms over iridium oxide. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 2900-2917	6.8	24
190	Delivering the Full Potential of Oxygen Evolving Electrocatalyst by Conditioning Electrolytes at Near-Neutral pH. <i>ChemSusChem</i> , 2021 , 14, 1554-1564	8.3	7
189	Structural and photoelectrochemical properties of SrTaO ₂ N oxynitride thin films deposited by reactive magnetron sputtering. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 6301-6308	6	1
188	Efficient Water Oxidation Using Ta N Thin Film Photoelectrodes Prepared on Insulating Transparent Substrates. <i>ChemSusChem</i> , 2020 , 13, 1974-1978	8.3	11
187	Microkinetic assessment of electrocatalytic oxygen evolution reaction over iridium oxide in unbuffered conditions. <i>Journal of Catalysis</i> , 2020 , 391, 435-445	7.3	18
186	Methane dry reforming on supported cobalt nanoparticles promoted by boron. <i>Journal of Catalysis</i> , 2020 , 392, 126-134	7.3	11
185	Role of Oxidized Mo Species on the Active Surface of NiMo Electrocatalysts for Hydrogen Evolution under Alkaline Conditions. <i>ACS Catalysis</i> , 2020 , 10, 12858-12866	13.1	24
184	Water Electrolysis in Saturated Phosphate Buffer at Neutral pH. <i>ChemSusChem</i> , 2020 , 13, 5921-5933	8.3	16

183	Impact of OH Radical Generator Involvement in the Gas-Phase Radical Reaction Network on the Oxidative Coupling of Methane: A Simulation Study. <i>Energy Technology</i> , 2020 , 8, 1900563	3.5	7
182	Determination and perturbation of the electronic potentials of solid catalysts for innovative catalysis. <i>Chemical Science</i> , 2020 , 12, 540-545	9.4	3
181	Combined theoretical and experimental characterizations of semiconductors for photoelectrocatalytic applications. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2019 , 40, 212-233	16.4	19
180	On the reconstruction of NiMo electrocatalysts by operando spectroscopy. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15031-15035	13	11
179	Compositionally Screened Eutectic Catalytic Coatings on Halide Perovskite Photocathodes for Photoassisted Selective CO ₂ Reduction. <i>ACS Energy Letters</i> , 2019 , 4, 1279-1286	20.1	32
178	Electrochemical Oxidation of a Highly Soluble Redox Mediator in Aqueous Solution for Energy Conversion. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7241-7251	8.3	6
177	Optoelectronic Structure and Photocatalytic Applications of Na(Bi,La)S ₂ Solid Solutions with Tunable Band Gaps. <i>Chemistry of Materials</i> , 2019 , 31, 3211-3220	9.6	10
176	Maximizing Hydrogen Evolution Performance on Pt in Buffered Solutions: Mass Transfer Constrains of H ₂ and Buffer Ions. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 21554-21563	3.8	19
175	A Stand-Alone Module for Solar-Driven H ₂ Production Coupled with Redox-Mediated Sulfide Remediation. <i>Energy Technology</i> , 2019 , 7, 1900575	3.5	3
174	Catalytic consequences of ultrafine Pt clusters supported on SrTiO ₃ for photocatalytic overall water splitting. <i>Journal of Catalysis</i> , 2019 , 376, 180-190	7.3	37
173	Switching of Kinetically Relevant Reactants for the Aqueous Cathodic Process Determined by Mass-transport Coupled with Protolysis. <i>ChemCatChem</i> , 2019 , 11, 5961-5968	5.2	6
172	Oxidative-Coupling-Assisted Methane Aromatization: A Simulation Study. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 22884-22892	3.9	4
171	TiO ₂ -supported Pt single atoms by surface organometallic chemistry for photocatalytic hydrogen evolution. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 24429-24440	3.6	22
170	Addressing fundamental experimental aspects of photocatalysis studies. <i>Journal of Catalysis</i> , 2019 , 370, 480-484	7.3	21
169	A new high temperature reactor for operando XAS: Application for the dry reforming of methane over Ni/ZrO ₂ catalyst. <i>Review of Scientific Instruments</i> , 2018 , 89, 035109	1.7	7
168	Contribution of electrolyte in nanoscale electrolysis of pure and buffered water by particulate photocatalysis. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 2044-2052	5.8	13
167	A Permselective CeO _x Coating To Improve the Stability of Oxygen Evolution Electrocatalysts. <i>Angewandte Chemie</i> , 2018 , 130, 1632-1636	3.6	20
166	A Permselective CeO Coating To Improve the Stability of Oxygen Evolution Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1616-1620	16.4	69

165	Solvent-Free Synthesis of Quaternary Metal Sulfide Nanoparticles Derived from Thiourea. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1700183	3.1	4
164	Poly(3-hydroxybutyrate) production in an integrated electromicrobial setup: Investigation under stress-inducing conditions. <i>PLoS ONE</i> , 2018 , 13, e0196079	3.7	23
163	Theoretical insights into dehydrogenative chemisorption of alkylaromatics on Pt(1 0 0) and Ni(1 0 0). <i>Journal of Catalysis</i> , 2018 , 363, 197-203	7.3	3
162	Kinetics on NiZn Bimetallic Catalysts for Hydrogen Evolution via Selective Dehydrogenation of Methylcyclohexane to Toluene. <i>ACS Catalysis</i> , 2017 , 7, 1592-1600	13.1	34
161	Catalytic routes to fuels from C and oxygenate molecules. <i>Faraday Discussions</i> , 2017 , 197, 9-39	3.6	15
160	Photophysical Properties of SrTaO ₂ N Thin Films and Influence of Anion Ordering: A Joint Theoretical and Experimental Investigation. <i>Chemistry of Materials</i> , 2017 , 29, 3989-3998	9.6	26
159	An Oxygen-Insensitive Hydrogen Evolution Catalyst Coated by a Molybdenum-Based Layer for Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5780-5784	16.4	89
158	An Oxygen-Insensitive Hydrogen Evolution Catalyst Coated by a Molybdenum-Based Layer for Overall Water Splitting. <i>Angewandte Chemie</i> , 2017 , 129, 5874-5878	3.6	12
157	In-operando elucidation of bimetallic CoNi nanoparticles during high-temperature CH ₄ /CO ₂ reaction. <i>Applied Catalysis B: Environmental</i> , 2017 , 213, 177-189	21.8	60
156	Boosting the Performance of the Nickel Anode in the Oxygen Evolution Reaction by Simple Electrochemical Activation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5061-5065	16.4	43
155	Boosting the Performance of the Nickel Anode in the Oxygen Evolution Reaction by Simple Electrochemical Activation. <i>Angewandte Chemie</i> , 2017 , 129, 5143-5147	3.6	13
154	Towards Versatile and Sustainable Hydrogen Production through Electrocatalytic Water Splitting: Electrolyte Engineering. <i>ChemSusChem</i> , 2017 , 10, 1318-1336	8.3	104
153	Photocatalytic Water Splitting: Quantitative Approaches toward Photocatalyst by Design. <i>ACS Catalysis</i> , 2017 , 7, 8006-8022	13.1	424
152	Ultrathin Microporous SiO ₂ Membranes Photodeposited on Hydrogen Evolving Catalysts Enabling Overall Water Splitting. <i>ACS Catalysis</i> , 2017 , 7, 7931-7940	13.1	30
151	Electrolyte Engineering towards Efficient Water Splitting at Mild pH. <i>ChemSusChem</i> , 2017 , 10, 4155-4163	8.3	32
150	Bismuth Silver Oxysulfide for Photoconversion Applications: Structural and Optoelectronic Properties. <i>Chemistry of Materials</i> , 2017 , 29, 8679-8689	9.6	18
149	Exclusive Hydrogen Generation by Electrocatalysts Coated with an Amorphous Chromium-Based Layer Achieving Efficient Overall Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 8079-8088	8.3	32
148	Electrolyte Engineering towards Efficient Water Splitting at Mild pH. <i>ChemSusChem</i> , 2017 , 10, 4122-4128	8.3	3

147	Transferring Knowledge of Electrocatalysis to Photocatalysis: Photocatalytic Water Splitting 2017 , 891-906		1
146	Integrated In Situ Characterization of a Molten Salt Catalyst Surface: Evidence of Sodium Peroxide and Hydroxyl Radical Formation. <i>Angewandte Chemie</i> , 2017 , 129, 10539-10543	3.6	11
145	Integrated In Situ Characterization of a Molten Salt Catalyst Surface: Evidence of Sodium Peroxide and Hydroxyl Radical Formation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10403-10407	16.4	36
144	Photophysics and electrochemistry relevant to photocatalytic water splitting involved at solid-electrolyte interfaces. <i>Journal of Energy Chemistry</i> , 2017 , 26, 259-269	12	14
143	Dehydrogenation of ethane to ethylene via radical pathways enhanced by alkali metal based catalyst in oxysteam condition. <i>AIChE Journal</i> , 2017 , 63, 105-110	3.6	15
142	Insights on Measuring and Reporting Heterogeneous Photocatalysis: Efficiency Definitions and Setup Examples. <i>Chemistry of Materials</i> , 2017 , 29, 158-167	9.6	180
141	Solar Water Splitting Using Semiconductor Photocatalyst Powders. <i>Topics in Current Chemistry</i> , 2016 , 371, 73-103		40
140	Tantalum nitride for photocatalytic water splitting: concept and applications. <i>Materials for Renewable and Sustainable Energy</i> , 2016 , 5, 1	4.7	51
139	State-of-the-art Sn ²⁺ -based ternary oxides as photocatalysts for water splitting: electronic structures and optoelectronic properties. <i>Catalysis Science and Technology</i> , 2016 , 6, 7656-7670	5.5	37
138	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
137	Generation of Transparent Oxygen Evolution Electrode Consisting of Regularly Ordered Nanoparticles from Self-Assembly Cobalt Phthalocyanine as a Template. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32376-32384	9.5	6
136	An Efficient and Stable Hydrophobic Molecular Cobalt Catalyst for Water Electro-oxidation at Neutral pH. <i>ACS Catalysis</i> , 2016 , 6, 4647-4652	13.1	44
135	Design of a core-shell Pt@SiO ₂ catalyst in a reverse microemulsion system: Distinctive kinetics on CO oxidation at low temperature. <i>Journal of Catalysis</i> , 2016 , 340, 368-375	7.3	46
134	Solar Cells: Homo-Tandem Polymer Solar Cells with VOC >1.8 V for Efficient PV-Driven Water Splitting (Adv. Mater. 17/2016). <i>Advanced Materials</i> , 2016 , 28, 3412-3412	24	1
133	Temperature Dependence of Electrocatalytic and Photocatalytic Oxygen Evolution Reaction Rates Using NiFe Oxide. <i>ACS Catalysis</i> , 2016 , 6, 1713-1722	13.1	106
132	Cu _n Bn Bimetallic Catalyst for Selective Aqueous Electroreduction of CO ₂ to CO. <i>ACS Catalysis</i> , 2016 , 6, 2842-2851	13.1	284
131	Electrolyte Engineering toward Efficient Hydrogen Production Electrocatalysis with Oxygen-Crossover Regulation under Densely Buffered Near-Neutral pH Conditions. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 1785-1794	3.8	22
130	Solvent-induced deposition of Cu ₂ O@TiO ₂ nanocrystals onto a titanium dioxide surface for visible-light-driven photocatalytic hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2016 , 184, 264-269	21.8	24

129	A simplified theoretical guideline for overall water splitting using photocatalyst particles. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2894-2908	13	53
128	Critical difference between optoelectronic properties of BiVO_4 and BiWO_4 semiconductors: A DFT/HSE06 and experimental investigation. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 1115-1119	13	15
127	Electrocatalytic Reduction of Carbon Dioxide with a Well-Defined PN -Ru Pincer Complex. <i>ChemPlusChem</i> , 2016 , 81, 166-171	2.8	18
126	Homo-Tandem Polymer Solar Cells with VOC >1.8 V for Efficient PV-Driven Water Splitting. <i>Advanced Materials</i> , 2016 , 28, 3366-73	24	46
125	Determination of the electronic, dielectric, and optical properties of sillenite $\text{Bi}_{12}\text{TiO}_{20}$ and perovskite-like $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ materials from hybrid first-principle calculations. <i>Journal of Chemical Physics</i> , 2016 , 144, 134702	3.9	38
124	Enhanced Kinetics of Hole Transfer and Electrocatalysis during Photocatalytic Oxygen Evolution by Cocatalyst Tuning. <i>ACS Catalysis</i> , 2016 , 6, 4117-4126	13.1	38
123	Simultaneous Reduction of CO_2 and Splitting of H_2O by a Single Immobilized Cobalt Phthalocyanine Electrocatalyst. <i>ACS Catalysis</i> , 2016 , 6, 3092-3095	13.1	183
122	New Insight into the Hydrogen Evolution Reaction under Buffered Near-Neutral pH Conditions: Enthalpy and Entropy of Activation. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 24187-24196	3.8	31
121	Generation and Characteristics of IV-VI transition Metal Nitride and Carbide Nanoparticles using a Reactive Mesoporous Carbon Nitride. <i>ChemistrySelect</i> , 2016 , 1, 290-296	1.8	7
120	Impact of solute concentration on the electrocatalytic conversion of dissolved gases in buffered solutions. <i>Journal of Power Sources</i> , 2015 , 287, 465-471	8.9	22
119	Establishing Efficient Cobalt-Based Catalytic Sites for Oxygen Evolution on a Ta_3N_5 Photocatalyst. <i>Chemistry of Materials</i> , 2015 , 27, 5685-5694	9.6	40
118	Non-precious bimetallic catalysts for selective dehydrogenation of an organic chemical hydride system. <i>Chemical Communications</i> , 2015 , 51, 12931-4	5.8	22
117	Immobilization of a molecular cobalt electrocatalyst by hydrophobic interaction with a hematite photoanode for highly stable oxygen evolution. <i>Chemical Communications</i> , 2015 , 51, 13481-4	5.8	40
116	Electronic structure and photocatalytic activity of wurtzite $\text{Cu}_x\text{Ta}_3\text{N}_5$ nanocrystals and their Zn substitution. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8896-8904	13	32
115	Combined experimental and theoretical assessments of the lattice dynamics and optoelectronics of TaON and Ta_3N_5 . <i>Journal of Solid State Chemistry</i> , 2015 , 229, 219-227	3.3	63
114	Generation of CuIn alloy surfaces from CuInO_2 as selective catalytic sites for CO_2 electroreduction. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19085-19092	13	77
113	Electrocatalytic Hydrogen Evolution under Densely Buffered Neutral pH Conditions. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 20453-20458	3.8	53
112	Dendritic Tip-on Polytriazine-Based Carbon Nitride Photocatalyst with High Hydrogen Evolution Activity. <i>Chemistry of Materials</i> , 2015 , 27, 8237-8247	9.6	108

111	A highly selective copper-indium bimetallic electrocatalyst for the electrochemical reduction of aqueous CO ₂ to CO. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 2146-50	16.4	338
110	Perfluorinated Cobalt Phthalocyanine Effectively Catalyzes Water Electrooxidation. <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 49-52	2.3	31
109	Carrier dynamics of a visible-light-responsive Ta ₃ N ₅ photoanode for water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 2670-7	3.6	76
108	Nano-design of quantum dot-based photocatalysts for hydrogen generation using advanced surface molecular chemistry. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 1001-9	3.6	12
107	Insight on Tafel slopes from a microkinetic analysis of aqueous electrocatalysis for energy conversion. <i>Scientific Reports</i> , 2015 , 5, 13801	4.9	1315
106	Ammonia Synthesis Using Ti and Nb Nitride Nanoparticles Prepared by Mesoporous Graphitic C ₃ N ₄ . <i>Bulletin of the Chemical Society of Japan</i> , 2015 , 88, 584-590	5.1	7
105	UV-Vis optoelectronic properties of Bi ₂ WO ₄ : A comparative experimental and density functional theory based study. <i>APL Materials</i> , 2015 , 3, 096101	5.7	34
104	Surface Functionalization of g-C ₃ N ₄ : Molecular-Level Design of Noble-Metal-Free Hydrogen Evolution Photocatalysts. <i>Chemistry - A European Journal</i> , 2015 , 21, 10290-5	4.8	36
103	Frontispiece: Surface Functionalization of g-C ₃ N ₄ : Molecular-Level Design of Noble-Metal-Free Hydrogen Evolution Photocatalysts. <i>Chemistry - A European Journal</i> , 2015 , 21, n/a-n/a	4.8	1
102	A Highly Selective Copper/Indium Bimetallic Electrocatalyst for the Electrochemical Reduction of Aqueous CO ₂ to CO. <i>Angewandte Chemie</i> , 2015 , 127, 2174-2178	3.6	118
101	Identification of intrinsic catalytic activity for electrochemical reduction of water molecules to generate hydrogen. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 15111-4	3.6	23
100	Combined experimental/theoretical study of the optoelectronic properties of non-stoichiometric pyrochlore bismuth titanate. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 12032-12039	7.1	27
99	Photocatalytic Water-Splitting Reaction from Catalytic and Kinetic Perspectives. <i>Catalysis Letters</i> , 2015 , 145, 95-108	2.8	165
98	Methane Coupling Reaction in an Oxy-Steam Stream through an OH Radical Pathway by using Supported Alkali Metal Catalysts. <i>ChemCatChem</i> , 2014 , 6, n/a-n/a	5.2	12
97	Nb-doped TiO ₂ cathode catalysts for oxygen reduction reaction of polymer electrolyte fuel cells. <i>Catalysis Today</i> , 2014 , 233, 181-186	5.3	24
96	Generation of Multiple Excitons in Ag ₂ S Quantum Dots: Single High-Energy versus Multiple-Photon Excitation. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 659-65	6.4	72
95	Mechanistic Switching by Hydronium Ion Activity for Hydrogen Evolution and Oxidation over Polycrystalline Platinum Disk and Platinum/Carbon Electrodes. <i>ChemElectroChem</i> , 2014 , 1, 1497-1507	4.3	37
94	Nano-sized quaternary CuGa ₂ In ₃ S ₈ as an efficient photocatalyst for solar hydrogen production. <i>ChemSusChem</i> , 2014 , 7, 3112-21	8.3	16

93	Surface Generation of a Cobalt-Derived Water Oxidation Electrocatalyst Developed in a Neutral HCO ₃ ⁻ /CO ₂ System. <i>Advanced Energy Materials</i> , 2014 , 4, 1400252	21.8	52
92	Electrodeposited Ultrafine TaOx/CB Catalysts for PEFC Cathode Application: Their Oxygen Reduction Reaction Kinetics. <i>Electrochimica Acta</i> , 2014 , 149, 76-85	6.7	15
91	Screened coulomb hybrid DFT investigation of band gap and optical absorption predictions of CuVO ₃ , CuNbO ₃ and Cu ₅ Ta ₁₁ O ₃₀ materials. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 18198-204	3.6	33
90	Tuning the properties of visible-light-responsive tantalum (oxy)nitride photocatalysts by non-stoichiometric compositions: a first-principles viewpoint. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 20548-60	3.6	77
89	Photoelectrochemical and electrocatalytic properties of thermally oxidized copper oxide for efficient solar fuel production. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7389-7401	13	35
88	Particle size dependence on oxygen reduction reaction activity of electrodeposited TaO(x) catalysts in acidic media. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 895-8	3.6	30
87	Critical Role of the Semiconductor/Electrolyte Interface in Photocatalytic Performance for Water-Splitting Reactions Using Ta ₃ N ₅ Particles. <i>Chemistry of Materials</i> , 2014 , 26, 4812-4825	9.6	88
86	Harvesting Solar Light with Crystalline Carbon Nitrides for Efficient Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie</i> , 2014 , 126, 11181-11185	3.6	83
85	Harvesting solar light with crystalline carbon nitrides for efficient photocatalytic hydrogen evolution. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 11001-5	16.4	238
84	Flux-assisted synthesis of SnNb ₂ O ₆ for tuning photocatalytic properties. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 10762-9	3.6	34
83	Molybdenum carbide/carbon nanocomposites synthesized from a reactive template for electrochemical hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10548-10556	13	114
82	Tethering metal ions to photocatalyst particulate surfaces by bifunctional molecular linkers for efficient hydrogen evolution. <i>ChemSusChem</i> , 2014 , 7, 2575-83	8.3	17
81	Photocatalytic hydrogen production using visible-light-responsive Ta ₃ N ₅ photocatalyst supported on monodisperse spherical SiO ₂ particulates. <i>Materials Research Bulletin</i> , 2014 , 49, 58-65	5.1	43
80	Electrocatalysts: Surface Generation of a Cobalt-Derived Water Oxidation Electrocatalyst Developed in a Neutral HCO ₃ ⁻ /CO ₂ System (Adv. Energy Mater. 16/2014). <i>Advanced Energy Materials</i> , 2014 , 4, n/a-n/a	21.8	5
79	R&Ktitelbild: Harvesting Solar Light with Crystalline Carbon Nitrides for Efficient Photocatalytic Hydrogen Evolution (Angew. Chem. 41/2014). <i>Angewandte Chemie</i> , 2014 , 126, 11278-11278	3.6	
78	The effect of temperature in flux-assisted synthesis of SnNb ₂ O ₆ 2014 ,		1
77	Electrodeposited Ultrafine NbOx, ZrOx, and TaOx Nanoparticles on Carbon Black Supports for Oxygen Reduction Electrocatalysts in Acidic Media. <i>ACS Catalysis</i> , 2013 , 3, 2181-2189	13.1	38
76	Cobalt phosphate-modified barium-doped tantalum nitride nanorod photoanode with 1.5% solar energy conversion efficiency. <i>Nature Communications</i> , 2013 , 4, 2566	17.4	279

75	Incident Photon-to-Current Efficiency and Photocurrent Spectroscopy. <i>SpringerBriefs in Energy</i> , 2013 , 87-97	0.3	5
74	Synthesis of tantalum carbide and nitride nanoparticles using a reactive mesoporous template for electrochemical hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12606	13	60
73	Synthesis and photocatalytic activity of poly(triazine imide). <i>Chemistry - an Asian Journal</i> , 2013 , 8, 218-244.5	108	
72	Tungsten carbide nanoparticles as efficient cocatalysts for photocatalytic overall water splitting. <i>ChemSusChem</i> , 2013 , 6, 168-81	8.3	166
71	Determination of the Electronic Structure and UV-Vis Absorption Properties of (Na ₂ -xCu _x)Ta ₄ O ₁₁ from First-Principle Calculations. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 17477-17484	3.8	29
70	Highly Dispersed TaO _x Nanoparticles Prepared by Electrodeposition as Oxygen Reduction Electrocatalysts for Polymer Electrolyte Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11635-11646	3.8	25
69	Titanium Nitride Nanoparticle Electrocatalysts for Oxygen Reduction Reaction in Alkaline Solution. <i>Journal of the Electrochemical Society</i> , 2013 , 160, F501-F506	3.9	33
68	Nano-nitride Cathode Catalysts of Ti, Ta, and Nb for Polymer Electrolyte Fuel Cells: Temperature-Programmed Desorption Investigation of Molecularly Adsorbed Oxygen at Low Temperature. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 496-502	3.8	42
67	Vertically aligned Ta ₃ N ₅ nanorod arrays for solar-driven photoelectrochemical water splitting. <i>Advanced Materials</i> , 2013 , 25, 125-31	24	334
66	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
65	UV-Vis Spectroscopy. <i>SpringerBriefs in Energy</i> , 2013 , 49-62	0.3	16
64	Experimental Considerations. <i>SpringerBriefs in Energy</i> , 2013 , 17-44	0.3	1
63	Stability Testing. <i>SpringerBriefs in Energy</i> , 2013 , 115-118	0.3	
62	Hydrogen and Oxygen Detection from Photoelectrodes. <i>SpringerBriefs in Energy</i> , 2013 , 105-113	0.3	1
61	PEC Characterization Flowchart. <i>SpringerBriefs in Energy</i> , 2013 , 45-47	0.3	2
60	Flat-Band Potential Techniques. <i>SpringerBriefs in Energy</i> , 2013 , 63-85	0.3	7
59	Effect of post-calcination thermal treatment on acid properties and pores structure of a mesoporous niobium-tungsten oxide. <i>Catalysis Today</i> , 2012 , 192, 144-148	5.3	5
58	Semiconductor monolayer assemblies with oriented crystal faces. <i>CrystEngComm</i> , 2012 , 14, 59-62	3.3	3

57	Highly-dispersed Ta-oxide catalysts prepared by electrodeposition in a non-aqueous plating bath for polymer electrolyte fuel cell cathodes. <i>Chemical Communications</i> , 2012 , 48, 9074-6	5.8	31
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