

# Kazunari Domen

## 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.

570  
papers

71,835  
citations

127  
h-index

257  
g-index

599  
ext. papers

80,192  
ext. citations

9.6  
avg, IF

8.41  
L-index

#	Paper	IF	Citations
570	Unraveling of cocatalysts photodeposited selectively on facets of BiVO to boost solar water splitting.. <i>Nature Communications</i> , <b>2022</b> , 13, 484	17.4	21
569	Interface engineering of TaN thin film photoanode for highly efficient photoelectrochemical water splitting.. <i>Nature Communications</i> , <b>2022</b> , 13, 729	17.4	13
568	Enhanced Overall Water Splitting by a Zirconium-Doped TaON-Based Photocatalyst.. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> , e202116573	16.4	3
567	Overall photosynthesis of HO by an inorganic semiconductor.. <i>Nature Communications</i> , <b>2022</b> , 13, 1034	17.4	11
566	Physical properties and photocatalytic activity of pulverized Ga-doped La <sub>5</sub> Ti <sub>2</sub> Cu <sub>0.9</sub> Ag <sub>0.1</sub> O <sub>7</sub> S <sub>5</sub> powder. <i>Materials Letters</i> , <b>2022</b> , 319, 132290	3.3	
565	Key Goals and Systems for Large-Scale Solar Hydrogen Production. <i>Springer Handbooks</i> , <b>2022</b> , 1331-1347	1.3	
564	A self-healing catalyst for electrocatalytic and photoelectrochemical oxygen evolution in highly alkaline conditions. <i>Nature Communications</i> , <b>2021</b> , 12, 5980	17.4	10
563	Maximizing Oxygen Evolution Performance on a Transparent NiFeO/TaN Photoelectrode Fabricated on an Insulator. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 16317-16325	9.5	4
562	Surface-Modified Ta <sub>3</sub> N <sub>5</sub> Photoanodes for Sunlight-Driven Overall Water Splitting by Photoelectrochemical Cells. <i>Catalysts</i> , <b>2021</b> , 11, 584	4	6
561	Photocatalytic and Photoelectrochemical Hydrogen Evolution from Water over CuSnGeS Particles. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 5698-5708	16.4	9
560	Oxygen Evolution Activity of LaNbN <sub>2</sub> O-Based Photocatalysts Obtained from Nitridation of a Precursor Oxide Structurally Modified by Incorporating Volatile Elements. <i>Catalysts</i> , <b>2021</b> , 11, 566	4	
559	Recent Developments in Visible-Light-Absorbing Semitransparent Photoanodes for Tandem Cells Driving Solar Water Splitting. <i>Advanced Energy and Sustainability Research</i> , <b>2021</b> , 2, 2100023	1.6	4
558	Z-Scheme Overall Water Splitting Using Zn <sub>x</sub> Cd <sub>1-x</sub> Se Particles Coated with Metal Cyanoferrates as Hydrogen Evolution Photocatalysts. <i>ACS Catalysis</i> , <b>2021</b> , 11, 8004-8014	13.1	8
557	Charge carrier mapping for Z-scheme photocatalytic water-splitting sheet via categorization of microscopic time-resolved image sequences. <i>Nature Communications</i> , <b>2021</b> , 12, 3716	17.4	17
556	Simultaneously Tuning the Defects and Surface Properties of TaN Nanoparticles by Mg-Zr Codoping for Significantly Accelerated Photocatalytic H Evolution. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 10059-10064	16.4	17
555	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
554	Boosted Hydrogen-Evolution Kinetics Over Particulate Lanthanum and Rhodium-Doped Strontium Titanate Photocatalysts Modified with Phosphonate Groups. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 3654-3660	16.4	6

553	Boosted Hydrogen-Evolution Kinetics Over Particulate Lanthanum and Rhodium-Doped Strontium Titanate Photocatalysts Modified with Phosphonate Groups. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 3698-3704 <sup>3.6</sup>		
552	Enhanced photoelectrochemical performance from particulate ZnSe:Cu(In,Ga)Se <sub>2</sub> photocathodes during solar hydrogen production via particle size control. <i>Sustainable Energy and Fuels</i> , <b>2021</b> , 5, 412-423 <sup>5.8</sup>	9	
551	Probing fundamental losses in nanostructured Ta <sub>3</sub> N <sub>5</sub> photoanodes: design principles for efficient water oxidation. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 4038-4047	35.4	9
550	Photocatalytic oxygen evolution triggered by photon upconverted emission based on triplet-triplet annihilation. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 5673-5679	3.6	1
549	Synthesis of Y <sub>2</sub> Ti <sub>2</sub> O <sub>5</sub> S <sub>2</sub> by thermal sulfidation for photocatalytic water oxidation and reduction under visible light irradiation. <i>Research on Chemical Intermediates</i> , <b>2021</b> , 47, 225-234	2.8	6
548	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
547	Linking in situ charge accumulation to electronic structure in doped SrTiO reveals design principles for hydrogen-evolving photocatalysts. <i>Nature Materials</i> , <b>2021</b> , 20, 511-517	27	24
546	Microelectrode-based transient amperometry of O adsorption and desorption on a SrTiO photocatalyst excited under water. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 19386-19393	3.6	2
545	Dual Ag/Co cocatalyst synergism for the highly effective photocatalytic conversion of CO by HO over Al-SrTiO. <i>Chemical Science</i> , <b>2021</b> , 12, 4940-4948	9.4	11
544	Effect of Mg <sup>2+</sup> substitution on the photocatalytic water splitting activity of LaMg <sub>x</sub> Nb <sub>1-x</sub> O <sub>1+3x</sub> N <sub>2</sub> B <sub>x</sub> . <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 8655-8662	13	6
543	Efficiency Accreditation and Testing Protocols for Particulate Photocatalysts toward Solar Fuel Production. <i>Joule</i> , <b>2021</b> , 5, 344-359	27.8	39
542	Sequential cocatalyst decoration on BaTaON towards highly-active Z-scheme water splitting. <i>Nature Communications</i> , <b>2021</b> , 12, 1005	17.4	46
541	Highly Selective Photocatalytic Conversion of Carbon Dioxide by Water over Al-SrTiO <sub>3</sub> Photocatalyst Modified with Silver/Metal Dual Cocatalysts. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 9327-9335	8.3	7
540	Synthesis of a Ga-doped La <sub>5</sub> Ti <sub>2</sub> Cu <sub>0.9</sub> Ag <sub>0.1</sub> O <sub>7.5</sub> S <sub>5</sub> photocatalyst by thermal sulfidation for hydrogen evolution under visible light. <i>Journal of Catalysis</i> , <b>2021</b> , 399, 230-236	7.3	5
539	Photocatalytic solar hydrogen production from water on a 100-m scale. <i>Nature</i> , <b>2021</b> , 598, 304-307	50.4	134
538	Accelerated photoelectrochemical oxygen evolution over a BaTaO <sub>2</sub> N photoanode modified with cobalt-phosphate-loaded TiO <sub>2</sub> nanoparticles. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 123902	3.4	1
537	Use of metamodels for rapid discovery of narrow bandgap oxide photocatalysts. <i>iScience</i> , <b>2021</b> , 24, 103068	6.8	4
536	The sputter-based synthesis of tantalum oxynitride nanoparticles with architecture and bandgap controlled by design. <i>Applied Surface Science</i> , <b>2021</b> , 559, 149974	6.7	4

535	A semitransparent particulate photoanode composed of SrTiO <sub>3</sub> powder anchored on titania nanosheets. <i>Sustainable Energy and Fuels</i> , <b>2021</b> , 5, 4850-4857	5.8	
534	Unveiling charge dynamics of visible light absorbing oxysulfide for efficient overall water splitting. <i>Nature Communications</i> , <b>2021</b> , 12, 7055	17.4	4
533	Enhanced Photoelectrochemical Water Oxidation from CdTe Photoanodes Annealed with CdCl <sub>2</sub> . <i>Angewandte Chemie</i> , <b>2020</b> , 132, 13904-13910	3.6	3
532	Facet engineering of LaNbO <sub>2</sub> transformed from LaKNaNbO <sub>5</sub> for enhanced photocatalytic O <sub>2</sub> evolution. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 11743-11751	13	11
531	Enhanced Photoelectrochemical Water Oxidation from CdTe Photoanodes Annealed with CdCl <sub>2</sub> . <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 13800-13806	16.4	6
530	Photoelectrochemical Properties of Particulate CuGaSe <sub>2</sub> and CuIn <sub>0.7</sub> Ga <sub>0.3</sub> Se <sub>2</sub> Photocathodes in Nonaqueous Electrolyte. <i>Bulletin of the Chemical Society of Japan</i> , <b>2020</b> , 93, 942-948	5.1	2
529	Photocatalytic water splitting with a quantum efficiency of almost unity. <i>Nature</i> , <b>2020</b> , 581, 411-414	50.4	533
528	Self-activated Rh-Zr mixed oxide as a nonhazardous cocatalyst for photocatalytic hydrogen evolution. <i>Chemical Science</i> , <b>2020</b> , 11, 6862-6867	9.4	8
527	Spatially separating redox centers on 2D carbon nitride with cobalt single atom for photocatalytic H <sub>2</sub> O production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 6376-6382	11.5	95
526	Ta <sub>3</sub> N <sub>5</sub> -Nanorods enabling highly efficient water oxidation via advantageous light harvesting and charge collection. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 1519-1530	35.4	42
525	Efficient Water Oxidation Using Ta <sub>3</sub> N <sub>5</sub> Thin Film Photoelectrodes Prepared on Insulating Transparent Substrates. <i>ChemSusChem</i> , <b>2020</b> , 13, 1974-1978	8.3	11
524	Development of a Core-Shell Heterojunction Ta <sub>3</sub> N <sub>5</sub> -Nanorods/BaTaO <sub>2</sub> N Photoanode for Solar Water Splitting. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 2492-2497	20.1	29
523	Gas phase photocatalytic water splitting of moisture in ambient air: Toward reagent-free hydrogen production. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2020</b> , 401, 112757	4.7	3
522	Plasma-enhanced chemical vapor deposition Ta <sub>3</sub> N <sub>5</sub> synthesis leading to high current density during PEC oxygen evolution. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 2293-2300	5.8	4
521	Fabrication of BaTaO <sub>2</sub> N Thin Films by Interfacial Reactions of BaCO <sub>3</sub> /Ta <sub>3</sub> N <sub>5</sub> Layers on a Ta Substrate and Resulting High Photoanode Efficiencies During Water Splitting. <i>Solar Rrl</i> , <b>2020</b> , 4, 1900542 <sup>7.1</sup>	7.1	9
520	Minimizing energy demand and environmental impact for sustainable NH <sub>3</sub> and H <sub>2</sub> O <sub>2</sub> production—A perspective on contributions from thermal, electro-, and photo-catalysis. <i>Applied Catalysis A: General</i> , <b>2020</b> , 594, 117419	5.1	18
519	Efficient photoelectrochemical hydrogen production over CuInS <sub>2</sub> photocathodes modified with amorphous Ni-MoS <sub>x</sub> operating in a neutral electrolyte. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 1607-1611	5.8	4
518	Effective Driving of Ag-Loaded and Al-Doped SrTiO <sub>3</sub> under Irradiation at λ > 300 nm for the Photocatalytic Conversion of CO <sub>2</sub> by H <sub>2</sub> O. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 1468-1475	6.1	29

517	Theoretical perspective of performance-limiting parameters of Cu(In <sub>1-x</sub> Gax)Se <sub>2</sub> -based photocathodes. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 9194-9201	13	9
516	ZnTe-based photocathode for hydrogen evolution from water under sunlight. <i>APL Materials</i> , <b>2020</b> , 8, 041101	5.7	5
515	Efficient photocatalytic oxygen evolution using BaTaO <sub>2</sub> N obtained from nitridation of perovskite-type oxide. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 1127-1130	13	20
514	Mutually-dependent kinetics and energetics of photocatalyst/co-catalyst/two-redox liquid junctions. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 162-173	35.4	17
513	Fabrication of Single-Crystalline BaTaO <sub>2</sub> N from Chloride Fluxes for Photocatalytic H <sub>2</sub> Evolution under Visible Light. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 255-261	3.5	17
512	Band structure engineering and defect control of Ta <sub>3</sub> N <sub>5</sub> for efficient photoelectrochemical water oxidation. <i>Nature Catalysis</i> , <b>2020</b> , 3, 932-940	36.5	80
511	Z-Scheme Water Splitting under Near-Ambient Pressure using a Zirconium Oxide Coating on Printable Photocatalyst Sheets. <i>ChemSusChem</i> , <b>2020</b> , 13, 4906-4910	8.3	7
510	Optimized Synthesis of Ag-Modified Al-Doped SrTiO <sub>3</sub> Photocatalyst for the Conversion of CO <sub>2</sub> Using H <sub>2</sub> O as an Electron Donor. <i>ChemistrySelect</i> , <b>2020</b> , 5, 8779-8786	1.8	9
509	Visible-Light-Driven Photocatalytic Water Splitting: Recent Progress and Challenges. <i>Trends in Chemistry</i> , <b>2020</b> , 2, 813-824	14.8	53
508	Transient Kinetics of O <sub>2</sub> Evolution in Photocatalytic Water-Splitting Reaction. <i>ACS Catalysis</i> , <b>2020</b> , 10, 13159-13164	13.1	7
507	Platy BaTaO <sub>2</sub> N Crystals Fabricated from K <sub>2</sub> CO <sub>3</sub> /Cl Binary Flux for Photocatalytic H <sub>2</sub> Evolution. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 10669-10675	6.1	6
506	Molecularly engineered photocatalyst sheet for scalable solar formate production from carbon dioxide and water. <i>Nature Energy</i> , <b>2020</b> , 5, 703-710	62.3	67
505	A one-step synthesis of a TaN nanorod photoanode from Ta plates and NHCl powder for photoelectrochemical water oxidation. <i>Chemical Communications</i> , <b>2020</b> , 56, 11843-11846	5.8	2
504	Effects of annealing conditions on the oxygen evolution activity of a BaTaO <sub>2</sub> N photocatalyst loaded with cobalt species. <i>Catalysis Today</i> , <b>2020</b> , 354, 204-210	5.3	8
503	Particulate Photocatalysts for Light-Driven Water Splitting: Mechanisms, Challenges, and Design Strategies. <i>Chemical Reviews</i> , <b>2020</b> , 120, 919-985	68.1	765
502	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
501	Electrochemical Evaluation for Multiple Functions of Pt-loaded TiO <sub>2</sub> Nanoparticles Deposited on a Photocathode. <i>ChemElectroChem</i> , <b>2019</b> , 6, 4859-4866	4.3	9
500	Impact of lattice defects on water oxidation properties in SnNb <sub>2</sub> O <sub>6</sub> photoanode prepared by pulsed-laser deposition method. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 094901	2.5	2

499	Progress in the Development of Highly Efficient Photocatalytic Systems for Hydrogen Production from Water under Sunlight. <i>Journal of the Japan Petroleum Institute</i> , <b>2019</b> , 62, 120-125	1	0
498	Distinguishing the effects of altered morphology and size on the visible light-induced water oxidation activity and photoelectrochemical performance of BaTaON crystal structures. <i>Faraday Discussions</i> , <b>2019</b> , 215, 227-241	3.6	8
497	The effects of annealing barium niobium oxynitride in argon on photoelectrochemical water oxidation activity. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 493-502	13	19
496	Recent developments in heterogeneous photocatalysts for solar-driven overall water splitting. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 2109-2125	58.5	1029
495	An Al-doped SrTiO photocatalyst maintaining sunlight-driven overall water splitting activity for over 1000h of constant illumination. <i>Chemical Science</i> , <b>2019</b> , 10, 3196-3201	9.4	96
494	Particulate Photocatalysts for Water Splitting: Recent Advances and Future Prospects. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 542-549	20.1	140
493	Regression model for stabilization energies associated with anion ordering in perovskite-type oxynitrides. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 36, 7-14	12	14
492	Efficient hydrogen evolution on (CuInS)(ZnS) solid solution-based photocathodes under simulated sunlight. <i>Chemical Communications</i> , <b>2019</b> , 55, 470-473	5.8	16
491	Revealing the role of the Rh valence state, La doping level and Ru cocatalyst in determining the H <sub>2</sub> evolution efficiency in doped SrTiO <sub>3</sub> photocatalysts. <i>Sustainable Energy and Fuels</i> , <b>2019</b> , 3, 208-218	5.8	36
490	Sunlight-Driven Production of Methylcyclohexane from Water and Toluene Using ZnSe : Cu(In,Ga)Se <sub>2</sub> -Based Photocathode. <i>ChemCatChem</i> , <b>2019</b> , 11, 4266-4271	5.2	7
489	Oxysulfide photocatalyst for visible-light-driven overall water splitting. <i>Nature Materials</i> , <b>2019</b> , 18, 827-832	832	222
488	Transient Absorption Spectroscopy Reveals Performance-Limiting Factors in a Narrow-Bandgap Oxysulfide La <sub>5</sub> (Ti <sub>0.99</sub> Mg <sub>0.01</sub> ) <sub>2</sub> Cu <sub>5</sub> O <sub>6.99</sub> Photocatalyst for H <sub>2</sub> Generation. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 14246-14252	3.8	4
487	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
486	Core-Shell-Structured LaTaON <sub>2</sub> Transformed from LaKNaTaO <sub>5</sub> Plates for Enhanced Photocatalytic H <sub>2</sub> Evolution. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 10776-10780	3.6	4
485	Core-Shell-Structured LaTaON Transformed from LaKNaTaO Plates for Enhanced Photocatalytic H <sub>2</sub> Evolution. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 10666-10670	16.4	32
484	Origin of the overall water splitting activity of TaN revealed by ultrafast transient absorption spectroscopy. <i>Chemical Science</i> , <b>2019</b> , 10, 5353-5362	9.4	35
483	One-dimensional Anisotropic Electronic States in Needle-shaped La <sub>5</sub> Ti <sub>2</sub> Cu <sub>5</sub> O <sub>7</sub> Single Crystals Grown in Molten Salt in Bridgman Furnace. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 2419-2427	3.5	2
482	Reaction systems for solar hydrogen production via water splitting with particulate semiconductor photocatalysts. <i>Nature Catalysis</i> , <b>2019</b> , 2, 387-399	36.5	539



481	Metal selenide photocatalysts for visible-light-driven Z-scheme pure water splitting. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 7415-7422	13	46
480	A Semitransparent Nitride Photoanode Responsive up to 600 nm Based on a Carbon Nanotube Thin Film Electrode. <i>ChemPhotoChem</i> , <b>2019</b> , 3, 521-524	3.3	8
479	Effects of Se Incorporation in LaTiCuSO by Annealing on Physical Properties and Photocatalytic H <sub>2</sub> Evolution Activity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 5595-5601	9.5	14
478	Photoelectrochemical-voltaic cells consisting of particulate ZnxCd1-xSe photoanodes with photovoltages exceeding 1.23 V. <i>Sustainable Energy and Fuels</i> , <b>2019</b> , 3, 2733-2741	5.8	2
477	Solar-Driven Water Splitting over a BaTaO <sub>2</sub> N Photoanode Enhanced by Annealing in Argon. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 5777-5784	6.1	23
476	Metal selenides for photocatalytic Z-scheme pure water splitting mediated by reduced graphene oxide. <i>Chinese Journal of Catalysis</i> , <b>2019</b> , 40, 1668-1672	11.3	15
475	Upscaling of Temperature-Sensitive Particle Photocatalyst Electrodes: Fully Ambient and Scalable Roll-Press Fabrication of Ta <sub>3</sub> N <sub>5</sub> Photoelectrodes on Metal Substrate. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 19407-19414	8.3	6
474	Phase segregated Cu Se/NiSe bimetallic selenide nanocrystals formed through the cation exchange reaction for active water oxidation precatalysts. <i>Chemical Science</i> , <b>2019</b> , 11, 1523-1530	9.4	15
473	Visible-Light-Driven Photocatalytic Z-Scheme Overall Water Splitting in La Ti AgS O -based Powder-Suspension System. <i>ChemSusChem</i> , <b>2019</b> , 12, 1906-1910	8.3	20
472	Suppression of poisoning of photocathode catalysts in photoelectrochemical cells for highly stable sunlight-driven overall water splitting. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 041713	3.9	10
471	Transparent Ta N Photoanodes for Efficient Oxygen Evolution toward the Development of Tandem Cells. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 2300-2304	16.4	48
470	Efficient Photocatalytic Water Splitting Using Al-Doped SrTiO <sub>3</sub> Coloaded with Molybdenum Oxide and Rhodium/Chromium Oxide. <i>ACS Catalysis</i> , <b>2018</b> , 8, 2782-2788	13.1	126
469	A Particulate Photocatalyst Water-Splitting Panel for Large-Scale Solar Hydrogen Generation. <i>Joule</i> , <b>2018</b> , 2, 509-520	27.8	307
468	Particulate photocathode composed of (ZnSe) <sub>0.85</sub> (CuIn <sub>0.7</sub> Ga <sub>0.3</sub> Se <sub>2</sub> ) <sub>0.15</sub> synthesized with Na <sub>2</sub> S for enhanced sunlight-driven hydrogen evolution. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 1957-1965	5.8	15
467	Stable Hydrogen Production from Water on an NIR-Responsive Photocathode under Harsh Conditions. <i>Small Methods</i> , <b>2018</b> , 2, 1800018	12.8	14
466	Solution-Processed Cd-Substituted CZTS Photocathode for Efficient Solar Hydrogen Evolution from Neutral Water. <i>Joule</i> , <b>2018</b> , 2, 537-548	27.8	74
465	"A bridge over troubled gaps": up-conversion driven photocatalysis for hydrogen generation and pollutant degradation by near-infrared excitation. <i>Chemical Communications</i> , <b>2018</b> , 54, 1905-1908	5.8	11
464	Visible-Light-Responsive Photoanodes for Highly Active, Stable Water Oxidation. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 8396-8415	16.4	104

463	Auf sichtbares Licht ansprechende Photoanoden für hochaktive, dauerhafte Wasseroxidation. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 8530-8550	3.6	16
462	Plate-like Sm <sub>2</sub> Ti <sub>2</sub> S <sub>2</sub> O <sub>5</sub> Particles Prepared by a Flux-Assisted One-Step Synthesis for the Evolution of O <sub>2</sub> from Aqueous Solutions by Both Photocatalytic and Photoelectrochemical Reactions. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 13492-13499	3.8	9
461	Efficient Redox-Mediator-Free Z-Scheme Water Splitting Employing Oxysulfide Photocatalysts under Visible Light. <i>ACS Catalysis</i> , <b>2018</b> , 8, 1690-1696	13.1	90
460	Phase-segregated NiP @FeP O core@shell nanoparticles: ready-to-use nanocatalysts for electro- and photo-catalytic water oxidation through activation by structural transformation and spontaneous ligand removal. <i>Chemical Science</i> , <b>2018</b> , 9, 4830-4836	9.4	15
459	Powder-based (CuGa <sub>1-x</sub> In <sub>x</sub> ) <sub>1-x</sub> Zn <sub>2x</sub> S <sub>2</sub> solid solution photocathodes with a largely positive onset potential for solar water splitting. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 2016-2024	5.8	21
458	Boosting photocatalytic overall water splitting by Co doping into MnO nanoparticles as oxygen evolution cocatalysts. <i>Nanoscale</i> , <b>2018</b> , 10, 10420-10427	7.7	45
457	Recent Progress in the Surface Modification of Photoelectrodes toward Efficient and Stable Overall Water Splitting. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 5697-5706	4.8	39
456	Effects of Calcination Temperature on the Physical Properties and Hydrogen Evolution Activities of La <sub>5</sub> Ti <sub>2</sub> Cu(S <sub>1-x</sub> Se <sub>x</sub> ) <sub>5</sub> O <sub>7</sub> Photocatalysts. <i>Particle and Particle Systems Characterization</i> , <b>2018</b> , 35, 1700275	3.1	8
455	Synthesis and visible-light-induced sacrificial photocatalytic water oxidation of quinary oxynitride BaNb <sub>0.5</sub> Ta <sub>0.5</sub> O <sub>2</sub> N crystals. <i>Journal of Energy Chemistry</i> , <b>2018</b> , 27, 1415-1421	12	12
454	Activation of a particulate Ta <sub>3</sub> N <sub>5</sub> water-oxidation photoanode with a GaN hole-blocking layer. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 73-78	5.8	13
453	Optimal Metal Oxide Deposition Conditions and Properties for the Enhancement of Hydrogen Evolution over Particulate La <sub>5</sub> Ti <sub>2</sub> Cu <sub>1-x</sub> Ag <sub>x</sub> S <sub>5</sub> O <sub>7</sub> Photocathodes. <i>ChemPhotoChem</i> , <b>2018</b> , 2, 234-239	3.3	2
452	Development of highly efficient CuIn <sub>0.5</sub> Ga <sub>0.5</sub> Se <sub>2</sub> -based photocathode and application to overall solar driven water splitting. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 3003-3009	35.4	85
451	Towards zero bias photoelectrochemical water splitting: onset potential improvement on a Mg:GaN modified-Ta <sub>3</sub> N <sub>5</sub> photoanode. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 15265-15273	13	22
450	Particulate photocatalyst sheets based on non-oxide semiconductor materials for water splitting under visible light irradiation. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 3918-3925	5.5	17
449	Water Splitting: Stable Hydrogen Production from Water on an NIR-Responsive Photocathode under Harsh Conditions (Small Methods 5/2018). <i>Small Methods</i> , <b>2018</b> , 2, 1800029	12.8	
448	La Ti Cu Ag S O Modified with a Molecular Ni Catalyst for Photoelectrochemical H Generation. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 18393-18397	4.8	10
447	Development of Sunlight Driven Water Splitting Devices towards Future Artificial Photosynthetic Industry. <i>ChemEngineering</i> , <b>2018</b> , 2, 36	2.6	21
446	Understanding the visible-light photocatalytic activity of GaN:ZnO solid solution: the role of Rh Cr O cocatalyst and charge carrier lifetimes over tens of seconds. <i>Chemical Science</i> , <b>2018</b> , 9, 7546-7555	9.4	30



445	Anatomy of a Visible Light Activated Photocatalyst for Water Splitting. <i>ACS Catalysis</i> , <b>2018</b> , 8, 6650-6658	3.1	19
444	PHOTOANODIC AND PHOTOCATHODIC MATERIALS APPLIED FOR FREE-RUNNING SOLAR WATER SPLITTING DEVICES <b>2018</b> , 251-289		
443	Transparent Ta <sub>3</sub> N <sub>5</sub> Photoanodes for Efficient Oxygen Evolution toward the Development of Tandem Cells. <i>Angewandte Chemie</i> , <b>2018</b> , 131, 2322	3.6	4
442	Surface Protective and Catalytic Layer Consisting of RuO and Pt for Stable Production of Methylcyclohexane Using Solar Energy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 44396-44402	9.5	11
441	Printable Photocatalyst Sheets Incorporating a Transparent Conductive Mediator for Z-Scheme Water Splitting. <i>Joule</i> , <b>2018</b> , 2, 2667-2680	27.8	41
440	Surface Strategies for Particulate Photocatalysts toward Artificial Photosynthesis. <i>Joule</i> , <b>2018</b> , 2, 2260-2288	27.8	89
439	Developments and Trends of the Photocatalyst ~Hydrogen Production Technologies based on Particulate Photocatalysts. <i>Journal of the Institute of Electrical Engineers of Japan</i> , <b>2018</b> , 138, 598-601	0	
438	Ta <sub>3</sub> N <sub>5</sub> Photoanodes Fabricated by Providing NaCl/Na <sub>2</sub> CO <sub>3</sub> Evaporants to Tantalum Substrate Surface under NH <sub>3</sub> Atmosphere. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 6129-6135	6.1	7
437	Investigation on nitridation processes of SrNbO and SrNbO to SrNbON for photoelectrochemical water splitting. <i>Scientific Reports</i> , <b>2018</b> , 8, 15849	4.9	12
436	Overall water splitting by Ta <sub>3</sub> N <sub>5</sub> nanorod single crystals grown on the edges of KTaO <sub>3</sub> particles. <i>Nature Catalysis</i> , <b>2018</b> , 1, 756-763	36.5	259
435	Direct observation of hydrogen bubble generation on photocatalyst particles by in situ electron microscopy. <i>Chemical Physics Letters</i> , <b>2018</b> , 706, 564-567	2.5	2
434	Shifting the NIR into the UV-blue: Up-conversion boosted photocatalysis. <i>Optical Materials</i> , <b>2018</b> , 83, 315-320	3.3	6
433	Efficient Solar-Driven Water Oxidation over Perovskite-Type BaNbO <sub>2</sub> N Photoanodes Absorbing Visible Light up to 740 nm. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800094	21.8	47
432	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> , <b>2017</b> , 139, 1675-1683	16.4	252
431	Application of Flux Method to the Fabrication of Ba <sub>5</sub> Ta <sub>4</sub> O <sub>15</sub> , Sr <sub>5</sub> Ta <sub>4</sub> O <sub>15</sub> , Sr <sub>2</sub> Ta <sub>2</sub> O <sub>7</sub> , and BaTaO <sub>2</sub> N Polycrystalline Films on Ta Substrates. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 1583-1588	3.5	17
430	Synthesis and Photocatalytic Activity of La <sub>5</sub> Ti <sub>2</sub> Cu(S <sub>1-x</sub> Se <sub>x</sub> ) <sub>5</sub> O <sub>7</sub> Solid Solutions for H <sub>2</sub> Production under Visible Light Irradiation. <i>ChemPhotoChem</i> , <b>2017</b> , 1, 265-272	3.3	15
429	Photoelectrochemical hydrogen evolution from water on a surface modified CdTe thin film electrode under simulated sunlight. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 4486-4492	13	41
428	Enhancement of the H <sub>2</sub> evolution activity of La <sub>5</sub> Ti <sub>2</sub> Cu(S <sub>1-x</sub> Se <sub>x</sub> ) <sub>5</sub> O <sub>7</sub> photocatalysts by coloaded Pt and NiS cocatalysts. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 6106-6112	13	17

427	Particulate photocatalyst sheets for Z-scheme water splitting: advantages over powder suspension and photoelectrochemical systems and future challenges. <i>Faraday Discussions</i> , <b>2017</b> , 197, 491-504	3.6	34
426	An Oxygen-Insensitive Hydrogen Evolution Catalyst Coated by a Molybdenum-Based Layer for Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 5780-5784	16.4	89
425	An Oxygen-Insensitive Hydrogen Evolution Catalyst Coated by a Molybdenum-Based Layer for Overall Water Splitting. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 5874-5878	3.6	12
424	Understanding the effect of partial N <sub>3</sub> to-O <sub>2</sub> substitution and H <sup>+</sup> -to-K <sup>+</sup> exchange on photocatalytic water reduction activity of Ruddlesden-Popper layered perovskite KLaTiO <sub>4</sub> . <i>Molecular Catalysis</i> , <b>2017</b> , 432, 250-258	3.3	14
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422	Progress in the demonstration and understanding of water splitting using particulate photocatalysts. <i>Current Opinion in Electrochemistry</i> , <b>2017</b> , 2, 148-154	7.2	22
421	Molten salt flux synthesis of La <sub>5</sub> Ti <sub>2</sub> Cu <sub>5</sub> O <sub>7</sub> towards elongated single crystallites. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 055503	1.4	7
420	Development of non-oxide semiconductors as light harvesting materials in photocatalytic and photoelectrochemical water splitting. <i>Dalton Transactions</i> , <b>2017</b> , 46, 10529-10544	4.3	52
419	NH <sub>3</sub> -assisted chloride flux-coating method for direct fabrication of visible-light-responsive SrNbO <sub>2</sub> N crystal layers. <i>CrystEngComm</i> , <b>2017</b> , 19, 5532-5541	3.3	21
418	Investigation of charge separation in particulate oxysulfide and oxynitride photoelectrodes by surface photovoltage spectroscopy. <i>Chemical Physics Letters</i> , <b>2017</b> , 683, 140-144	2.5	12
417	Highly Active GaN-Stabilized Ta <sub>3</sub> N <sub>5</sub> Thin-Film Photoanode for Solar Water Oxidation. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 4817-4821	3.6	22
416	Highly Active GaN-Stabilized Ta <sub>3</sub> N <sub>5</sub> Thin-Film Photoanode for Solar Water Oxidation. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 4739-4743	16.4	110
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414	Ultrastable low-bias water splitting photoanodes via photocorrosion inhibition and in situ catalyst regeneration. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	206
413	Introductory lecture: sunlight-driven water splitting and carbon dioxide reduction by heterogeneous semiconductor systems as key processes in artificial photosynthesis. <i>Faraday Discussions</i> , <b>2017</b> , 198, 11-35	3.6	68
412	Synthesis of Concentrated Methylcyclohexane as Hydrogen Carrier through Photoelectrochemical Conversion of Toluene and Water. <i>ChemSusChem</i> , <b>2017</b> , 10, 659-663	8.3	9
411	A CoO-modified SnNbO photoelectrode for highly efficient oxygen evolution from water. <i>Chemical Communications</i> , <b>2017</b> , 53, 629-632	5.8	32
410	Surface and Interface Engineering for Photoelectrochemical Water Oxidation. <i>Joule</i> , <b>2017</b> , 1, 290-305	27.8	101

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407	A particulate $(\text{ZnSe})_{0.85}(\text{CuIn}_{0.7}\text{Ga}_{0.3}\text{Se}_2)_{0.15}$ photocathode modified with CdS and ZnS for sunlight-driven overall water splitting. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 21242-21248	13	21
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404	Particulate photocatalysts for overall water splitting. <i>Nature Reviews Materials</i> , <b>2017</b> , 2,	73.3	902
403	Formation of Layer-by-Layer Assembled Cocatalyst Films of S <sub>2</sub> E <sub>2</sub> -Stabilized Ni <sub>3</sub> S <sub>4</sub> Nanoparticles for Hydrogen Evolution Reaction. <i>ChemNanoMat</i> , <b>2017</b> , 3, 764-771	3.5	5
402	CdTe-Based Photoanode for Oxygen Evolution from Water under Simulated Sunlight. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 5712-5717	6.4	19
401	Water Splitting on Particulate Semiconducting Photocatalysts under Visible Light <b>2017</b> , 851-872		
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395	Efficient hydrogen evolution from water using CdTe photocathodes under simulated sunlight. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 13154-13160	13	28
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389	Development of Novel Photocatalyst and Cocatalyst Materials for Water Splitting under Visible Light. <i>Bulletin of the Chemical Society of Japan</i> , <b>2016</b> , 89, 627-648	5.1	125
388	Photocatalyst Sheets Composed of Particulate LaMg <sub>1/3</sub> Ta <sub>2/3</sub> O <sub>2</sub> N and Mo-Doped BiVO <sub>4</sub> for Z-Scheme Water Splitting under Visible Light. <i>ACS Catalysis</i> , <b>2016</b> , 6, 7188-7196	13.1	68
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386	Enhanced Hydrogen Evolution under Simulated Sunlight from Neutral Electrolytes on (ZnSe) <sub>0.85</sub> (CuIn <sub>0.7</sub> Ga <sub>0.3</sub> Se <sub>2</sub> ) <sub>0.15</sub> Photocathodes Prepared by a Bilayer Method. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 15555-15559	3.6	7
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375	Effects of flux treatment on morphology of single-crystalline BaNbO <sub>2</sub> N particles. <i>CrystEngComm</i> , <b>2016</b> , 18, 3186-3190	3.3	13
374	Band engineering of perovskite-type transition metal oxynitrides for photocatalytic overall water splitting. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 4544-4552	13	52

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341	Selective CO production by Au coupled ZnTe/ZnO in the photoelectrochemical CO <sub>2</sub> reduction system. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 3597-3604	35.4	122
340	Durable hydrogen evolution from water driven by sunlight using (Ag,Cu)GaSe photocathodes modified with CdS and CuGaSe. <i>Chemical Science</i> , <b>2015</b> , 6, 894-901	9.4	80
339	Innentitelbild: A Complex Perovskite-Type Oxynitride: The First Photocatalyst for Water Splitting Operable at up to 600 nm (Angew. Chem. 10/2015). <i>Angewandte Chemie</i> , <b>2015</b> , 127, 2900-2900	3.6	2
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329	Recent progress in oxynitride photocatalysts for visible-light-driven water splitting. <i>Science and Technology of Advanced Materials</i> , <b>2015</b> , 16, 033506	7.1	114
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237	Highly stable water splitting on oxynitride TaON photoanode system under visible light irradiation. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 6968-71	16.4	347
236	Photoelectrochemical conversion of toluene to methylcyclohexane as an organic hydride by Cu <sub>2</sub> ZnSnS <sub>4</sub> -based photoelectrode assemblies. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 2469-72	16.4	49
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230	Preparation of calcium tantalum oxynitride from layered oxide precursors to improve photocatalytic activity for hydrogen evolution under visible light. <i>Applied Catalysis B: Environmental</i> , <b>2012</b> , 128, 72-76	21.8	25



229	Visible-light-driven nonsacrificial water oxidation over tungsten trioxide powder modified with two different cocatalysts. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 8390	35.4	139
228	Enhanced photoelectrochemical properties of CuGa <sub>3</sub> Se <sub>5</sub> thin films for water splitting by the hydrogen mediated co-evaporation method. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 6368-6374	35.4	51
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226	Photocatalytic water splitting using modified GaN:ZnO solid solution under visible light: long-time operation and regeneration of activity. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 8254-9	16.4	257
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121	Self-Templated Synthesis of Nanoporous CdS Nanostructures for Highly Efficient Photocatalytic Hydrogen Production under Visible Light. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 110-117	9.6	837
120	Glucose production from saccharides using layered transition metal oxide and exfoliated nanosheets as a water-tolerant solid acid catalyst. <i>Chemical Communications</i> , <b>2008</b> , 5363-5	5.8	203
119	Direct deposition of nanoparticulate rhodium-chromium mixed-oxides on a semiconductor powder by band-gap irradiation. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 3539		30
118	Electronic Band Structures and Photochemical Properties of La-Ga-based Oxysulfides. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 11978-11984	3.8	58
117	Photocatalytic Activity of (Ga <sub>1-x</sub> Zn <sub>x</sub> )(N <sub>1-x</sub> O <sub>x</sub> ) for Visible-Light-Driven H <sub>2</sub> and O <sub>2</sub> Evolution in the Presence of Sacrificial Reagents. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 3447-3452	3.8	104
116	Overall water splitting on (oxy)nitride photocatalysts <b>2008</b> ,		1
115	Surface Modification of TaON with Monoclinic ZrO <sub>2</sub> to Produce a Composite Photocatalyst with Enhanced Hydrogen Evolution Activity under Visible Light. <i>Bulletin of the Chemical Society of Japan</i> , <b>2008</b> , 81, 927-937	5.1	130
114	Photocatalytic Water Splitting into H <sub>2</sub> and O <sub>2</sub> over Titanate Pyrochlores Ln <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> (Ln = Lanthanoid: Eu, Lu). <i>Bulletin of the Chemical Society of Japan</i> , <b>2008</b> , 81, 1315-1321	5.1	13
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112	Z-scheme Overall Water Splitting on Modified-TaON Photocatalysts under Visible Light ( $\lambda$ ). <i>Chemistry Letters</i> , <b>2008</b> , 37, 138-139	1.7	149
111	Structure and electron density of oxysulfide Sm <sub>2</sub> Ti <sub>2</sub> S <sub>2</sub> O <sub>4.9</sub> , a visible-light-responsive photocatalyst. <i>Acta Crystallographica Section B: Structural Science</i> , <b>2008</b> , 64, 291-8		22
110	Two step water splitting into H <sub>2</sub> and O <sub>2</sub> under visible light by ATaO <sub>2</sub> N (A=Ca, Sr, Ba) and WO <sub>3</sub> with . <i>Chemical Physics Letters</i> , <b>2008</b> , 452, 120-123	2.5	174
109	Enhancement of photocatalytic activity of (Zn <sub>1+x</sub> Ge)(N <sub>2</sub> O <sub>x</sub> ) for visible-light-driven overall water splitting by calcination under nitrogen. <i>Chemical Physics Letters</i> , <b>2008</b> , 457, 134-136	2.5	62
108	Controlled Synthesis and Assembly of Nanostructured ZnO Architectures by a Solvothermal Soft Chemistry Process. <i>Crystal Growth and Design</i> , <b>2007</b> , 7, 2742-2748	3.5	34
107	Crystal Structure and Electron Density of Tantalum Oxynitride, a Visible Light Responsive Photocatalyst. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 588-593	9.6	78
106	Origin of Visible Light Absorption in GaN-Rich (Ga <sub>1-x</sub> Zn <sub>x</sub> )(N <sub>1-x</sub> O <sub>x</sub> ) Photocatalysts. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 18853-18855	3.8	79
105	Roles of Rh/Cr <sub>2</sub> O <sub>3</sub> (Core/Shell) Nanoparticles Photodeposited on Visible-Light-Responsive (Ga <sub>1-x</sub> Zn <sub>x</sub> )(N <sub>1-x</sub> O <sub>x</sub> ) Solid Solutions in Photocatalytic Overall Water Splitting. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 7554-7560	3.8	200
104	Photocatalytic Properties of RuO <sub>2</sub> -Loaded EGe <sub>3</sub> N <sub>4</sub> for Overall Water Splitting. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 4749-4755	3.8	87

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102	Dependence of Activity and Stability of Germanium Nitride Powder for Photocatalytic Overall Water Splitting on Structural Properties. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 4092-4097	9.6	50
101	New Non-Oxide Photocatalysts Designed for Overall Water Splitting under Visible Light. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 7851-7861	3.8	1239
100	Dry Autothermal Reaction (ATR) for Synthesis Gas Production on $\text{MgAlOx}$ -supported Catalysts. <i>Studies in Surface Science and Catalysis</i> , <b>2007</b> , 172, 573-574	1.8	
99	Partial Oxidation of Methane to Synthesis Gas in Dense Perovskite Membrane Reactor. <i>Studies in Surface Science and Catalysis</i> , <b>2007</b> , 172, 581-582	1.8	
98	Effects of divalent metal ion ( $\text{Mg}^{2+}$ , $\text{Zn}^{2+}$ and $\text{Be}^{2+}$ ) doping on photocatalytic activity of ruthenium oxide-loaded gallium nitride for water splitting. <i>Catalysis Today</i> , <b>2007</b> , 129, 407-413	5.3	63
97	Preparation of $(\text{Ga}_{1-x}\text{Zn}_x)(\text{N}_{1-x}\text{O}_x)$ solid-solution from $\text{ZnGa}_2\text{O}_4$ and $\text{ZnO}$ as a photo-catalyst for overall water splitting under visible light. <i>Applied Catalysis A: General</i> , <b>2007</b> , 327, 114-121	5.1	70
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95	Development of Cocatalysts for Photocatalytic Overall Water Splitting on $(\text{Ga}_{1-x}\text{Zn}_x)(\text{N}_{1-x}\text{O}_x)$ Solid Solution. <i>Catalysis Surveys From Asia</i> , <b>2007</b> , 11, 145-157	2.8	48
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91	Studies on $\text{TiN}_x\text{O}_y\text{F}_z$ as a Visible-Light-Responsive Photocatalyst. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 18264-18270	3.8	99
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89	Improvement of photocatalytic activity of $(\text{Ga}_{1-x}\text{Zn}_x)(\text{N}_{1-x}\text{O}_x)$ solid solution for overall water splitting by co-loading Cr and another transition metal. <i>Journal of Catalysis</i> , <b>2006</b> , 243, 303-308	7.3	188
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