

# Roel van de krol

## 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.

140  
papers

10,785  
citations

45  
h-index

103  
g-index

149  
ext. papers

12,325  
ext. citations

9.4  
avg, IF

6.8  
L-index

#	Paper	IF	Citations
140	Photocatalytic hydrogenation of acetophenone on a titanium dioxide cellulose film.. <i>RSC Advances</i> , <b>2022</b> , 12, 7055-7065	3.7	0
139	Activating Semiconductor-Liquid Junction via Laser Derived Dual Interfacial Layers for Boosted Photoelectrochemical Water Splitting.. <i>Advanced Materials</i> , <b>2022</b> , e2201140	24	3
138	Extraction of mobile charge carrier photogeneration yield spectrum of ultrathin-film metal oxide photoanodes for solar water splitting. <i>Nature Materials</i> , <b>2021</b> , 20, 833-840	27	10
137	Influence of the Metal Center in MnOx Catalysts on the CO2 Reduction Reaction on Gas Diffusion Electrodes. <i>ACS Catalysis</i> , <b>2021</b> , 11, 5850-5864	13.1	17
136	Protonated Imine-Linked Covalent Organic Frameworks for Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 19797-19803	16.4	38
135	Understanding the Hydrogen Evolution Reaction Kinetics of Electrodeposited Nickel-Molybdenum in Acidic, Near-Neutral, and Alkaline Conditions. <i>ChemElectroChem</i> , <b>2021</b> , 8, 195-208	4.3	12
134	Overcoming Phase-Purity Challenges in Complex Metal Oxide Photoelectrodes: A Case Study of CuBi2O4. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003474	21.8	9
133	Interfacial Oxide Formation Limits the Photovoltage of BiVO4/NiOx Photoanodes Prepared by Pulsed Laser Deposition. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003183	21.8	11
132	In situ investigation of the bismuth vanadate/potassium phosphate interface reveals morphological and composition dependent light-induced surface reactions. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 164001	3	1
131	Host, Suppressor, and Promoter: The Roles of Ni and Fe on Oxygen Evolution Reaction Activity and Stability of NiFe Alloy Thin Films in Alkaline Media. <i>ACS Catalysis</i> , <b>2021</b> , 11, 10537-10552	13.1	16
130	Spectroscopic analysis with tender X-rays: SpAnTeX, a new AP-HAXPES end-station at BESSY II. <i>Surface Science</i> , <b>2021</b> , 713, 121903	1.8	8
129	On the Origin of the OER Activity of Ultrathin Manganese Oxide Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 2428-2436	9.5	8
128	A Faster Path to Solar Water Splitting. <i>Matter</i> , <b>2020</b> , 3, 1389-1391	12.7	5
127	Elucidating the optical, electronic, and photoelectrochemical properties of p-type copper vanadate (p-Cu5V2O10) photocathodes. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 12538-12547	13	4
126	Pure CuBi2O4 Photoelectrodes with Increased Stability by Rapid Thermal Processing of Bi2O3/CuO Grown by Pulsed Laser Deposition. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910832	15.6	24
125	Influence of post-deposition annealing on the photoelectrochemical performance of CuBi2O4 thin films. <i>APL Materials</i> , <b>2020</b> , 8, 061101	5.7	4
124	Elucidating the Pulsed Laser Deposition Process of BiVO4 Photoelectrodes for Solar Water Splitting. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 4438-4447	3.8	17

123	The role of ultra-thin MnO <sub>x</sub> co-catalysts on the photoelectrochemical properties of BiVO <sub>4</sub> photoanodes. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 5508-5516	13	11
122	Assessment of a W:BiVO-CuBiO Tandem Photoelectrochemical Cell for Overall Solar Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 13959-13970	9.5	24
121	Evaluation of Copper Vanadate (Cu <sub>2</sub> V <sub>2</sub> O <sub>7</sub> ) as a Photoanode Material for Photoelectrochemical Water Oxidation. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 2408-2419	9.6	27
120	Nature of Nitrogen Incorporation in BiVO <sub>4</sub> Photoanodes through Chemical and Physical Methods. <i>Solar Rrl</i> , <b>2020</b> , 4, 1900290	7.1	14
119	Planar and Nanostructured n-Si/Metal-Oxide/WO <sub>3</sub> /BiVO <sub>4</sub> Monolithic Tandem Devices for Unassisted Solar Water Splitting. <i>Advanced Energy and Sustainability Research</i> , <b>2020</b> , 1, 2000037	1.6	3
118	Revealing the relationship between photoelectrochemical performance and interface hole trapping in CuBiO heterojunction photoelectrodes. <i>Chemical Science</i> , <b>2020</b> , 11, 11195-11204	9.4	2
117	Protection Mechanism against Photocorrosion of GaN Photoanodes Provided by NiO Thin Layers. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000568	7.1	1
116	Different Photostability of BiVO in Near-pH-Neutral Electrolytes. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 9523-9527	6.1	18
115	Zn-Doped Fe <sub>2</sub> TiO <sub>5</sub> Pseudobrookite-Based Photoanodes Grown by Aerosol-Assisted Chemical Vapor Deposition. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 12066-12077	6.1	6
114	In situ observation of pH change during water splitting in neutral pH conditions: impact of natural convection driven by buoyancy effects. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 5104-5116	35.4	22
113	Pulsed Laser Deposited Fe <sub>2</sub> TiO <sub>5</sub> Photoanodes for Photoelectrochemical Water Oxidation. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 19911-19921	3.8	5
112	Effect of Doping and Excitation Wavelength on Charge Carrier Dynamics in Hematite by Time-Resolved Microwave and Terahertz Photoconductivity. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1901590	15.6	17
111	Grain Boundaries Limit the Charge Carrier Transport in Pulsed Laser Deposited Bi <sub>2</sub> WO <sub>4</sub> Thin Film Photoabsorbers. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 4320-4330	6.1	15
110	Growth of Bi <sub>2</sub> O <sub>3</sub> Films by Thermal- and Plasma-Enhanced Atomic Layer Deposition Monitored with Real-Time Spectroscopic Ellipsometry for Photocatalytic Water Splitting. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 6277-6286	5.6	2
109	Structural Transformation Identification of Sputtered Amorphous MoS <sub>x</sub> as an Efficient Hydrogen-Evolving Catalyst during Electrochemical Activation. <i>ACS Catalysis</i> , <b>2019</b> , 9, 2368-2380	13.1	48
108	Analysis of the interfacial characteristics of BiVO/metal oxide heterostructures and its implication on their junction properties. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 5086-5096	3.6	43
107	Structural Monitoring of NiBi Modified BiVO <sub>4</sub> Photoanodes Using in Situ Soft and Hard X-ray Absorption Spectroscopies. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 4126-4134	6.1	2
106	Embedding laser generated nanocrystals in BiVO photoanode for efficient photoelectrochemical water splitting. <i>Nature Communications</i> , <b>2019</b> , 10, 2609	17.4	93

105	The electronic structure and the formation of polarons in Mo-doped BiVO measured by angle-resolved photoemission spectroscopy.. <i>RSC Advances</i> , <b>2019</b> , 9, 15606-15614	3.7	5
104	Femtosecond time-resolved two-photon photoemission studies of ultrafast carrier relaxation in CuO photoelectrodes. <i>Nature Communications</i> , <b>2019</b> , 10, 2106	17.4	14
103	Cu:NiO as a hole-selective back contact to improve the photoelectrochemical performance of CuBi <sub>2</sub> O <sub>4</sub> thin film photocathodes. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 9183-9194	13	40
102	Interface Science Using Ambient Pressure Hard X-ray Photoelectron Spectroscopy. <i>Surfaces</i> , <b>2019</b> , 2, 78-99	2.9	34
101	Demonstration of a 50 cm <sup>2</sup> BiVO <sub>4</sub> tandem photoelectrochemical-photovoltaic water splitting device. <i>Sustainable Energy and Fuels</i> , <b>2019</b> , 3, 2366-2379	5.8	48
100	Chemical, Structural, and Electronic Characterization of the (010) Surface of Single Crystalline Bismuth Vanadate. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 8347-8359	3.8	17
99	Light-Induced Surface Reactions at the Bismuth Vanadate/Potassium Phosphate Interface. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 801-809	3.4	22
98	Photocurrent Enhancement by Spontaneous Formation of a p-n Junction in Calcium-Doped Bismuth Vanadate Photoelectrodes. <i>ChemPlusChem</i> , <b>2018</b> , 83, 941-946	2.8	6
97	Energy-Band Alignment of BiVO <sub>4</sub> from Photoelectron Spectroscopy of Solid-State Interfaces. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 20861-20870	3.8	22
96	Pathways to electrochemical solar-hydrogen technologies. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2768-2783	35.4	165
95	Elucidation of the opto-electronic and photoelectrochemical properties of FeVO <sub>4</sub> photoanodes for solar water oxidation. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 548-555	13	38
94	Enhanced Carrier Transport and Bandgap Reduction in Sulfur-Modified BiVO <sub>4</sub> Photoanodes. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 8630-8638	9.6	25
93	Absorption Enhancement for Ultrathin Solar Fuel Devices with Plasmonic Gratings. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 5810-5815	6.1	4
92	Revealing the Performance-Limiting Factors in BiWO <sub>4</sub> Photoanodes for Solar Water Splitting. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 8322-8331	9.6	39
91	Formation and suppression of defects during heat treatment of BiVO <sub>4</sub> photoanodes for solar water splitting. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 18694-18700	13	49
90	Recent advances in rational engineering of multinary semiconductors for photoelectrochemical hydrogen generation. <i>Nano Energy</i> , <b>2018</b> , 51, 457-480	17.1	106
89	Photocurrent of BiVO is limited by surface recombination, not surface catalysis. <i>Chemical Science</i> , <b>2017</b> , 8, 3712-3719	9.4	281
88	Probing the Interfacial Chemistry of Ultrathin ALD-Grown TiO <sub>2</sub> Films: An In-Line XPS Study. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 5531-5538	3.8	50

87	On the benchmarking of multi-junction photoelectrochemical fuel generating devices. <i>Sustainable Energy and Fuels</i> , <b>2017</b> , 1, 492-503	5.8	20
86	Evaluation of electrodeposited $\text{Mn}_2\text{O}_3$ as a catalyst for the oxygen evolution reaction. <i>Catalysis Today</i> , <b>2017</b> , 290, 2-9	5.3	42
85	Evaluating Charge Carrier Transport and Surface States in $\text{CuFeO}_2$ Photocathodes. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 4952-4962	9.6	106
84	Combined soft and hard X-ray ambient pressure photoelectron spectroscopy studies of semiconductor/electrolyte interfaces. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , <b>2017</b> , 221, 106-115	1.7	32
83	Spray pyrolysis of $\text{CuBi}_2\text{O}_4$ photocathodes: improved solution chemistry for highly homogeneous thin films. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 12838-12847	13	62
82	Photoelectrochemical Properties of GaN Photoanodes with Cobalt Phosphate Catalyst for Solar Water Splitting in Neutral Electrolyte. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 12540-12545	3.8	31
81	Ion beam modification of single crystalline $\text{BiVO}_4$ . <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2017</b> , 409, 133-137	1.2	2
80	Assessing the Suitability of Iron Tungstate ( $\text{Fe}_2\text{WO}_6$ ) as a Photoelectrode Material for Water Oxidation. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 153-160	3.8	37
79	Gradient Self-Doped $\text{CuBiO}$ with Highly Improved Charge Separation Efficiency. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 15094-15103	16.4	122
78	In situ XAS study of CoB modified hematite photoanodes. <i>Dalton Transactions</i> , <b>2017</b> , 46, 15719-15726	4.3	17
77	Enhancing Charge Carrier Lifetime in Metal Oxide Photoelectrodes through Mild Hydrogen Treatment. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1701536	21.8	78
76	In Situ Structural Study of MnPi-Modified $\text{BiVO}_4$ Photoanodes by Soft X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 19668-19676	3.8	20
75	Perspectives on the photoelectrochemical storage of solar energy. <i>MRS Energy &amp; Sustainability</i> , <b>2017</b> , 4, 1	2.2	33
74	Solar Water Splitting: Enhancing Charge Carrier Lifetime in Metal Oxide Photoelectrodes through Mild Hydrogen Treatment (Adv. Energy Mater. 22/2017). <i>Advanced Energy Materials</i> , <b>2017</b> , 7,	21.8	1
73	Addressing the Key Aspects of Photoelectrocatalytic Systems for Solar Fuel Production. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 2725-2726	20.1	
72	Semiconducting materials for photoelectrochemical energy conversion. <i>Nature Reviews Materials</i> , <b>2016</b> , 1,	73.3	899
71	Comprehensive Evaluation of $\text{CuBi}_2\text{O}_4$ as a Photocathode Material for Photoelectrochemical Water Splitting. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 4231-4242	9.6	191
70	Architectures for scalable integrated photo driven catalytic devices-A concept study. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 20823-20831	6.7	11

69	Solution-processed multilayered BiVO <sub>4</sub> photoanodes: influence of intermediate heat treatments on the photoactivity. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 1723-1728	13	22
68	BiVO <sub>4</sub> photoanodes for water splitting with high injection efficiency, deposited by reactive magnetron co-sputtering. <i>AIP Advances</i> , <b>2016</b> , 6, 045108	1.5	37
67	Hetero-type dual photoanodes for unbiased solar water splitting with extended light harvesting. <i>Nature Communications</i> , <b>2016</b> , 7, 13380	17.4	197
66	Artificial Leaf for Water Splitting Based on a Triple-Junction Thin-Film Silicon Solar Cell and a PEDOT:PSS/Catalyst Blend. <i>Energy Technology</i> , <b>2016</b> , 4, 230-241	3.5	25
65	Deposition of conductive TiN shells on SiO <sub>2</sub> nanoparticles with a fluidized bed ALD reactor. <i>Journal of Nanoparticle Research</i> , <b>2016</b> , 18, 1	2.3	1
64	Multinary Metal Oxide Photoelectrodes <b>2016</b> , 355-391		11
63	Direct Time-Resolved Observation of Carrier Trapping and Polaron Conductivity in BiVO <sub>4</sub> . <i>ACS Energy Letters</i> , <b>2016</b> , 1, 888-894	20.1	88
62	Solar Water Splitting Combining a BiVO <sub>4</sub> Light Absorber with a Ru-Based Molecular Cocatalyst. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 7275-7281	3.8	65
61	Efficient and Stable TiO <sub>2</sub> :PtAu(In,Ga)Se <sub>2</sub> Composite Photoelectrodes for Visible Light Driven Hydrogen Evolution. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1402148	21.8	24
60	Oxynitrogenography: Controlled Synthesis of Single-Phase Tantalum Oxynitride Photoabsorbers. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 7091-7099	9.6	51
59	Microcontact-printing-assisted access of graphitic carbon nitride films with favorable textures toward photoelectrochemical application. <i>Advanced Materials</i> , <b>2015</b> , 27, 712-8	24	151
58	Photocorrosion Mechanism of TiO <sub>2</sub> -Coated Photoanodes. <i>International Journal of Photoenergy</i> , <b>2015</b> , 2015, 1-8	2.1	15
57	High-Temperature Ammonolysis of Thin Film Ta <sub>2</sub> O <sub>5</sub> Photoanodes: Evolution of Structural, Optical, and Photoelectrochemical Properties. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 708-715	9.6	63
56	A dopant-mediated recombination mechanism in Fe-doped TiO <sub>2</sub> nanoparticles for the photocatalytic decomposition of nitric oxide. <i>Catalysis Today</i> , <b>2014</b> , 225, 96-101	5.3	29
55	Probing hydrogen spillover in Pd@MIL-101(Cr) with a focus on hydrogen chemisorption. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 5803-9	3.6	29
54	Fluidized-bed atomic layer deposition reactor for the synthesis of core-shell nanoparticles. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 013905	1.7	13
53	Unravelling the mechanism of photoinduced charge transfer processes in lead iodide perovskite solar cells. <i>Nature Photonics</i> , <b>2014</b> , 8, 250-255	33.9	567
52	Optimization of amorphous silicon double junction solar cells for an efficient photoelectrochemical water splitting device based on a bismuth vanadate photoanode. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 4220-9	3.6	39



51	Interplay of Linker Functionalization and Hydrogen Adsorption in the Metal-Organic Framework MIL-101. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 19572-19579	3.8	20
50	Plasmonic enhancement of the optical absorption and catalytic efficiency of BiVO <sub>4</sub> photoanodes decorated with Ag@SiO <sub>2</sub> core-shell nanoparticles. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 15272-73	3.6	54
49	A Bismuth Vanadate-Cuprous Oxide Tandem Cell for Overall Solar Water Splitting. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 16959-16966	3.8	206
48	Efficient water-splitting device based on a bismuth vanadate photoanode and thin-film silicon solar cells. <i>ChemSusChem</i> , <b>2014</b> , 7, 2832-8	8.3	130
47	Fe <sub>2</sub> O <sub>3</sub> films for photoelectrochemical water oxidation – Insights of key performance parameters. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 20196-20202	13	41
46	Unraveling the Carrier Dynamics of BiVO <sub>4</sub> : A Femtosecond to Microsecond Transient Absorption Study. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 27793-27800	3.8	116
45	Optical modeling of an efficient water splitting device based on bismuth vanadate photoanode and micromorph silicon solar cells <b>2014</b> ,		2
44	The Origin of Slow Carrier Transport in BiVO <sub>4</sub> Thin Film Photoanodes: A Time-Resolved Microwave Conductivity Study. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 2752-2757	6.4	394
43	Efficient plasma route to nanostructure materials: case study on the use of m-WO <sub>3</sub> for solar water splitting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 7621-5	9.5	84
42	Efficient solar water splitting by enhanced charge separation in a bismuth vanadate-silicon tandem photoelectrode. <i>Nature Communications</i> , <b>2013</b> , 4, 2195	17.4	977
41	Water-splitting catalysis and solar fuel devices: artificial leaves on the move. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 10426-37	16.4	383
40	The interface of GaP(100) and H <sub>2</sub> O studied by photoemission and reflection anisotropy spectroscopy. <i>New Journal of Physics</i> , <b>2013</b> , 15, 103003	2.9	23
39	Metal-Organic framework thin films for protective coating of Pd-based optical hydrogen sensors. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 8146	7.1	42
38	MOF@MOF core-shell vs. Janus particles and the effect of strain: potential for guest sorption, separation and sequestration. <i>CrystEngComm</i> , <b>2013</b> , 15, 6003	3.3	36
37	Photoelectrochemical properties of cadmium chalcogenide-sensitized textured porous zinc oxide plate electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 1113-21	9.5	53
36	Efficient BiVO <sub>4</sub> Thin Film Photoanodes Modified with Cobalt Phosphate Catalyst and W-doping. <i>ChemCatChem</i> , <b>2013</b> , 5, 490-496	5.2	290
35	An n-Si/n-Fe <sub>2</sub> O <sub>3</sub> heterojunction tandem photoanode for solar water splitting. <i>Chimia</i> , <b>2013</b> , 67, 168-71	1.3	23
34	Nature and Light Dependence of Bulk Recombination in Co-Pi-Catalyzed BiVO <sub>4</sub> Photoanodes. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 9398-9404	3.8	445

33	Wet ammonia Synthesis of Semiconducting N:Ta <sub>2</sub> O <sub>5</sub> , Ta <sub>3</sub> N <sub>5</sub> and FeTaON Films for Photoanode Applications. <i>Energy Procedia</i> , <b>2012</b> , 22, 15-22	2.3	24
32	Creating Oxygen Vacancies as a Novel Strategy To Form Tetrahedrally Coordinated Ti <sup>4+</sup> in Fe/TiO <sub>2</sub> Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 7219-7226	3.8	130
31	Photoelectrochemical Hydrogen Production. <i>Kluwer International Series in Electronic Materials: Science and Technology</i> , <b>2012</b> ,		319
30	Selective photoreduction of nitric oxide to nitrogen by nanostructured TiO <sub>2</sub> photocatalysts: role of oxygen vacancies and iron dopant. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 9369-75	16.4	194
29	Spray-deposited Co-Pi Catalyzed BiVO <sub>4</sub> : a low-cost route towards highly efficient photoanodes. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1446, 7		33
28	Titanium nitride: A new Ohmic contact material for n-type CdS. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 033717	2.5	26
27	Highly Improved Quantum Efficiencies for Thin Film BiVO <sub>4</sub> Photoanodes. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 17594-17598	3.8	340
26	Characterization of structured Fe <sub>2</sub> O <sub>3</sub> photoanodes prepared via electrodeposition and thermal oxidation of iron. <i>Thin Solid Films</i> , <b>2011</b> , 520, 1034-1040	2.2	23
25	Efficient NO adsorption and release at Fe <sup>3+</sup> sites in Fe/TiO <sub>2</sub> nanoparticles. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 2140	35.4	22
24	Influence of point defects on the performance of InVO <sub>4</sub> photoanodes. <i>Journal of Photonics for Energy</i> , <b>2011</b> , 1, 016001	1.2	12
23	Influence of point defects on the performance of InVO <sub>4</sub> photoanodes <b>2010</b> ,		1
22	Influence of Si dopant and SnO <sub>2</sub> interfacial layer on the structure of the spray-deposited Fe <sub>2</sub> O <sub>3</sub> films. <i>Chemical Physics Letters</i> , <b>2009</b> , 479, 86-90	2.5	17
21	Photo-electrochemical Properties of Thin-Film InVO <sub>4</sub> Photoanodes: the Role of Deep Donor States. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 19351-19360	3.8	45
20	Photoelectrocatalytic Removal of Color from Water Using TiO <sub>2</sub> and TiO <sub>2</sub> /Cu <sub>2</sub> O Thin Film Electrodes Under Low Light Intensity <b>2009</b> , 181-196		
19	Solar hydrogen production with nanostructured metal oxides. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 2311		580
18	Photoelectrochemical Characterization of Sprayed-Fe <sub>2</sub> O <sub>3</sub> Thin Films: Influence of Si Doping and SnO <sub>2</sub> Interfacial Layer. <i>International Journal of Photoenergy</i> , <b>2008</b> , 2008, 1-7	2.1	47
17	Photo-Electrochemical Production of Hydrogen <b>2008</b> , 121-142		5
16	Addition of carbon to anatase TiO <sub>2</sub> by n-hexane treatment—surface or bulk doping?. <i>Applied Surface Science</i> , <b>2006</b> , 252, 6342-6347	6.7	36



15	Properties of Carbon-doped TiO <sub>2</sub> (Anatase) Photo-Electrodes. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 885, 1		
14	Nano-Structured Materials for a Hydrogen Economy. <i>NATO Science Series Series II, Mathematics, Physics and Chemistry</i> , <b>2005</b> , 251-258		3
13	Enhanced photoluminescence at poly(3-octyl-thiophene)/TiO <sub>2</sub> interfaces. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 2539-2541	3.4	10
12	The Photoresponse of Iron- and Carbon-Doped TiO <sub>2</sub> (Anatase) Photoelectrodes. <i>Journal of Electroceramics</i> , <b>2004</b> , 13, 177-182	1.5	48
11	Nano-morphology of lithiated thin film TiO <sub>2</sub> anatase probed with in situ neutron reflectometry. <i>Physica B: Condensed Matter</i> , <b>2003</b> , 336, 124-129	2.8	23
10	Structure and properties of anatase TiO <sub>2</sub> thin films made by reactive electron beam evaporation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2003</b> , 21, 76-83	2.9	23
9	Electroceramics: The role of interfaces. <i>Solid State Ionics</i> , <b>2002</b> , 150, 167-179	3.3	44
8	Electrical and optical properties of TiO <sub>2</sub> in accumulation and of lithium titanate Li <sub>0.5</sub> TiO <sub>2</sub> . <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 2235-2242	2.5	60
7	Two phase morphology limits lithium diffusion in TiO <sub>2</sub> (anatase): a <sup>7</sup> Li MAS NMR study. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 11454-61	16.4	247
6	In Situ X-Ray Diffraction of Lithium Intercalation in Nanostructured and Thin Film Anatase TiO <sub>2</sub> . <i>Journal of the Electrochemical Society</i> , <b>1999</b> , 146, 3150-3154	3.9	169
5	Spatial Extent of Lithium Intercalation in Anatase TiO <sub>2</sub> . <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 7151-7159	3.159	159
4	Mott-Schottky Analysis of Nanometer-Scale Thin-Film Anatase TiO <sub>2</sub> . <i>Journal of the Electrochemical Society</i> , <b>1997</b> , 144, 1723-1727	3.9	170
3	Facet-dependent carrier dynamics of cuprous oxide regulating the photocatalytic hydrogen generation. <i>Materials Advances</i> ,	3.3	3
2	Shining a Hot Light on Emerging Photoabsorber Materials: The Power of Rapid Radiative Heating in Developing Oxide Thin-Film Photoelectrodes. <i>ACS Energy Letters</i> , 514-522	20.1	5
1	Sulfur-Treatment Passivates Bulk Defects in Sb <sub>2</sub> Se <sub>3</sub> Photocathodes for Water Splitting. <i>Advanced Functional Materials</i> , 2112184	15.6	3