CITATION REPORT List of articles citing

Photoelectrochemical water splitting using dense and aligned TiO2 nanorod arrays

DOI: 10.1002/smll.200800902 Small, 2009, 5, 104-11.

Source: https://exaly.com/paper-pdf/46290476/citation-report.pdf

Version: 2024-04-17

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper IF	Citations
367	EIGENFUNCTIONS OF THE BELTRAMI-LAPLACE OPERATOR ON HOMOGENEOUS PSEUDO-RIEMANNIAN SYMMETRIC SPACES OF RANK 1. 1993 , 75, 371-404	
366	Crystal structures of inorganic compounds with atomic defects. 2003 , 72, 35-47	0
365	Photoelectrochemical Study of Nanostructured ZnO Thin Films for Hydrogen Generation from Water Splitting. 2009 , 19, 1849-1856	389
364	Hydrogen generation from photoelectrochemical water splitting based on nanomaterials. 2009 , 4, 517-528	3 230
363	High Five!. <i>Small</i> , 2009 , 5, 3-4	
362	Nitrogen-doped ZnO nanowire arrays for photoelectrochemical water splitting. 2009, 9, 2331-6	967
361	Photoelectrochemical Study on Charge Transfer Properties of ZnO Nanowires Promoted by Carbon Nanotubes. 2009 , 113, 16247-16253	127
360	Photoelectrochemical and photocatalytic properties of tungsten oxide nanorods grown by thermal evaporation. 2010 , 120, 452-455	62
359	Multidimensional Nanostructures for Solar Water Splitting: Synthesis, Properties, and Applications. 459-50)5
358	Quantum Dot Monolayer Sensitized ZnO Nanowire-Array Photoelectrodes: True Efficiency for Water Splitting. 2010 , 122, 6102-6105	93
357	Quantum dot monolayer sensitized ZnO nanowire-array photoelectrodes: true efficiency for water splitting. 2010 , 49, 5966-9	233
356	The control of the diameter of the nanorods prepared by dc reactive magnetron sputtering and the applications for DSSC. 2010 , 256, 3676-3682	31
355	Photoelectrochemical water splitting on highly smooth and ordered TiO2 nanotube arrays for hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 8528-8535	7 202
354	Highly efficient photoelectrochemical hydrogen generation using a ZnO nanowire array and a CdSe/CdS co-sensitizer. 2010 , 12, 1416-1418	78
353	Synthesis and Photocatalytic Activity of Highly Ordered TiO2 and SrTiO3/TiO2 Nanotube Arrays on Ti Substrates. 2010 , 93, 2771-2778	103
352	Titania nanostructure arrays from lithographically defined templates. 2010 , 97, 223106	10
351	On the photoconduction properties of low resistivity TiO2 nanotubes. <i>Nanotechnology</i> , 2010 , 21, 445703 _{3.2}	4 45

(2011-2010)

350	A NiO/TiO2junction electrode constructed using self-organized TiO2nanotube arrays for highly efficient photoelectrocatalytic visible light activations. 2010 , 43, 245202		32	
349	Reactive ballistic deposition of alpha-Fe2O3 thin films for photoelectrochemical water oxidation. 2010 , 4, 1977-86		165	
348	Polymer-templated nanospider TiO(2) thin films for efficient photoelectrochemical water splitting. 2010 , 2, 974-9		21	
347	Photoelectrochemical Performance of Nanostructured Ti- and Sn-Doped #e2O3Photoanodes. 2010 , 22, 6474-6482		237	
346	Patterning of rutile TiO2 surface by ion beam lithography through full-solid masks. <i>Nanotechnology</i> , 2010 , 21, 235301	3.4	11	
345	CuO/ZnO core/shell heterostructure nanowire arrays: synthesis, optical property, and energy application. 2010 , 46, 6768-70		97	
344	Electrochemiluminescence induced photoelectrochemistry for sensing of the DNA based on DNA-linked CdS NPs superstructure with intercalator molecules. 2011 , 47, 1595-7		25	
343	The design, fabrication, and photocatalytic utility of nanostructured semiconductors: focus on TiO2-based nanostructures. 2011 , 4, 35-65		164	
342	Nanotube- and Nanorod-Based Dye-Sensitized Solar Cells. 2011 , 317-350			
341	Nanostructured Materials for Photolytic Hydrogen Production. 2011 , 441-486		3	
340	Metal oxide photoanodes for water splitting. 2011 , 303, 1-38		38	
339	One-Dimensional Metal Oxide Nanostructures for Photoelectrochemical Hydrogen Generation. 2011 , 133-166			
338	Synthesis of transparent mesoporous tungsten trioxide films with enhanced photoelectrochemical response: application to unassisted solar water splitting. 2011 , 4, 1465		132	
337	Branched TiO[hanorods for photoelectrochemical hydrogen production. 2011 , 11, 4978-84		760	
336	Chapter 3:Inorganic Nanowires. RSC Nanoscience and Nanotechnology, 2011 , 343-530			
335	Quasi-core-shell TiO2/WO3 and WO3/TiO2 nanorod arrays fabricated by glancing angle deposition for solar water splitting. 2011 , 21, 10792		118	
334	Carrier Transport in Dye-Sensitized Solar Cells Using Single Crystalline TiO2 Nanorods Grown by a Microwave-Assisted Hydrothermal Reaction. 2011 , 115, 14534-14541		61	
333	Structural, Optical, and Photocatalytic Properties of Cr:TiO2 Nanorod Array Fabricated by Oblique Angle Codeposition. 2011 , 115, 16892-16903		33	

332	Doped, porous iron oxide films and their optical functions and anodic photocurrents for solar water splitting. 2011 , 98, 092108		21
331	Three-Dimensional Nanoarchitectures. 2011,		16
330	Solution-based fabrication of ZnO/ZnSe heterostructure nanowire arrays for solar energy conversion. 2011 , 21, 17816		36
329	Photocatalysis. 2011,		12
328	Synthesis, characterization and photocatalytic activity of NaNbO3/ZnO heterojunction photocatalysts. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 9157-9163	5.7	38
327	Thermal conduction effects impacting morphology during synthesis of columnar nanostructured TiO2 thin films. 2011 , 21, 7913		16
326	Electrogenerated chemiluminescence of anatase TiO[hanotubes film. 2011, 85, 56-62		20
325	Polarity-dependent photoelectrochemical activity in ZnO nanostructures for solar water splitting. 2011 , 13, 1383-1386		75
324	Wafer-level photocatalytic water splitting on GaN nanowire arrays grown by molecular beam epitaxy. 2011 , 11, 2353-7		306
323	Multi-Bandgap-Sensitized ZnO Nanorod Photoelectrode Arrays for Water Splitting: An X-ray Absorption Spectroscopy Approach for the Electronic Evolution under Solar Illumination. 2011 , 115, 21	971-2 ⁻	1985
322	CdSe quantum dot-sensitized Au/TiO2 hybrid mesoporous films and their enhanced photoelectrochemical performance. 2011 , 4, 249-258		78
322 321			78 16
	photoelectrochemical performance. 2011 , 4, 249-258		
321	photoelectrochemical performance. 2011 , 4, 249-258 The energy-environment nexus: aerosol science and technology enabling solutions. 2011 , 5, 299-312 Metal oxide nanomaterials for solar hydrogen generation from photoelectrochemical water	2.5	16
321	photoelectrochemical performance. 2011 , 4, 249-258 The energy-environment nexus: aerosol science and technology enabling solutions. 2011 , 5, 299-312 Metal oxide nanomaterials for solar hydrogen generation from photoelectrochemical water splitting. 2011 , 36, 48-55 Control of the optical and crystalline properties of TiO2 in visible-light active TiO2/TiN bi-layer	2.5	16 93
321 320 319	photoelectrochemical performance. 2011, 4, 249-258 The energy-environment nexus: aerosol science and technology enabling solutions. 2011, 5, 299-312 Metal oxide nanomaterials for solar hydrogen generation from photoelectrochemical water splitting. 2011, 36, 48-55 Control of the optical and crystalline properties of TiO2 in visible-light active TiO2/TiN bi-layer thin-film stacks. <i>Journal of Applied Physics</i> , 2012, 111, 024301 One-Dimensional Core/Shell Structured TiO2/ZnO Heterojunction for Improved	2.5	16 93 7
321 320 319 318	photoelectrochemical performance. 2011, 4, 249-258 The energy-environment nexus: aerosol science and technology enabling solutions. 2011, 5, 299-312 Metal oxide nanomaterials for solar hydrogen generation from photoelectrochemical water splitting. 2011, 36, 48-55 Control of the optical and crystalline properties of TiO2 in visible-light active TiO2/TiN bi-layer thin-film stacks. <i>Journal of Applied Physics</i> , 2012, 111, 024301 One-Dimensional Core/Shell Structured TiO2/ZnO Heterojunction for Improved Photoelectrochemical Performance. 2012, 33, 2200-2206 Photo-electrochemical water splitting system with three-layer n-type organic semiconductor film as	2.5	16 93 7 31

(2012-2012)

314	Nanomaterials for renewable energy production and storage. 2012 , 41, 7909-37	729
313	Photoelectrochemical Cells for Hydrogen Generation. 2012 , 541-599	2
312	Oxygen-deficient metal oxide nanostructures for photoelectrochemical water oxidation and other applications. 2012 , 4, 6682-91	306
311	Carbon doped TiO2 nanowire arrays with improved photoelectrochemical water splitting performance. 2012 , 263, 273-276	36
310	Improved photocatalytic activity of highly ordered TiO2 nanowire arrays for methylene blue degradation. 2012 , 136, 789-795	15
309	Hierarchical top-porous/bottom-tubular TiO2 nanostructures decorated with Pd nanoparticles for efficient Photoelectrocatalytic decomposition of synergistic pollutants. 2012 , 4, 990-6	173
308	Nanostructure-based WO3 photoanodes for photoelectrochemical water splitting. 2012 , 14, 7894-911	341
307	Optimization of photoelectrochemical water splitting performance on hierarchical TiO2 nanotube arrays. 2012 , 5, 6506	273
306	Visible-light-driven photocatalytic carbon-doped porous ZnO nanoarchitectures for solar water-splitting. 2012 , 4, 6515-9	106
305	Nanowires for energy generation. <i>Nanotechnology</i> , 2012 , 23, 194002	35
305	Nanowires for energy generation. <i>Nanotechnology</i> , 2012 , 23, 194002 Controlling Morphological Parameters of Anodized Titania Nanotubes for Optimized Solar Energy Applications. 2012 , 5, 1890-1909	35 46
	Controlling Morphological Parameters of Anodized Titania Nanotubes for Optimized Solar Energy	
304	Controlling Morphological Parameters of Anodized Titania Nanotubes for Optimized Solar Energy Applications. 2012 , 5, 1890-1909 Ultrafast Charge Transfer Dynamics in Polycrystalline CdSe/TiO2 Nanorods Prepared by Oblique	46
304	Controlling Morphological Parameters of Anodized Titania Nanotubes for Optimized Solar Energy Applications. 2012, 5, 1890-1909 Ultrafast Charge Transfer Dynamics in Polycrystalline CdSe/TiO2 Nanorods Prepared by Oblique Angle Codeposition. 2012, 116, 5033-5041 Controlled Sn-doping in TiO2 nanowire photoanodes with enhanced photoelectrochemical	46 35
304 303 302	Controlling Morphological Parameters of Anodized Titania Nanotubes for Optimized Solar Energy Applications. 2012, 5, 1890-1909 Ultrafast Charge Transfer Dynamics in Polycrystalline CdSe/TiO2 Nanorods Prepared by Oblique Angle Codeposition. 2012, 116, 5033-5041 Controlled Sn-doping in TiO2 nanowire photoanodes with enhanced photoelectrochemical conversion. 2012, 12, 1503-8 Birnessite-type manganese oxides nanosheets with hole acceptor assisted photoelectrochemical	4635349
304 303 302 301	Controlling Morphological Parameters of Anodized Titania Nanotubes for Optimized Solar Energy Applications. 2012, 5, 1890-1909 Ultrafast Charge Transfer Dynamics in Polycrystalline CdSe/TiO2 Nanorods Prepared by Oblique Angle Codeposition. 2012, 116, 5033-5041 Controlled Sn-doping in TiO2 nanowire photoanodes with enhanced photoelectrochemical conversion. 2012, 12, 1503-8 Birnessite-type manganese oxides nanosheets with hole acceptor assisted photoelectrochemical activity in response to visible light. 2012, 22, 2733-2739 Composition-Graded ZnxCd1N[email[protected] CoreBhell Nanowire Array Electrodes for	46 35 349 78
304 303 302 301 300	Controlling Morphological Parameters of Anodized Titania Nanotubes for Optimized Solar Energy Applications. 2012, 5, 1890-1909 Ultrafast Charge Transfer Dynamics in Polycrystalline CdSe/TiO2 Nanorods Prepared by Oblique Angle Codeposition. 2012, 116, 5033-5041 Controlled Sn-doping in TiO2 nanowire photoanodes with enhanced photoelectrochemical conversion. 2012, 12, 1503-8 Birnessite-type manganese oxides nanosheets with hole acceptor assisted photoelectrochemical activity in response to visible light. 2012, 22, 2733-2739 Composition-Graded ZnxCd1\(\mathbb{R} \) [email[\(\mathbb{P} \) protected] Core\(\mathbb{S} \) hell Nanowire Array Electrodes for Photoelectrochemical Hydrogen Generation. 2012, 116, 3802-3807	46 35 349 78 72

296	Heterostructured TiO2 Nanoparticles/Nanotube Arrays: In Situ Formation from Amorphous TiO2 Nanotube Arrays in Water and Enhanced Photocatalytic Activity. 2012 , 77, 323-329		58
295	Modification of TiO2 nanorod arrays by graphite-like C3N4 with high visible light photoelectrochemical activity. <i>Electrochimica Acta</i> , 2012 , 71, 10-16	6.7	167
294	Enhanced photoelectrochemical properties of ternary Zn1\(\mathbb{L}\)CuxO nanorods with tunable band gaps for solar water splitting. <i>Electrochimica Acta</i> , 2012 , 74, 73-77	6.7	20
293	Synthesis of CdS quantum-dot sensitized TiO2 nanowires with high photocatalytic activity for water splitting. 2012 , 233, 65-71		35
292	Hematite modified tungsten trioxide nanoparticle photoanode for solar water oxidation. <i>Journal of Power Sources</i> , 2012 , 210, 32-37	8.9	38
291	Fabrication, characterization, and photocatalytic activity of double-layer TiO2 nanosheet films. <i>Materials Letters</i> , 2012 , 81, 123-126	3.3	17
290	Photoelectrochemical performance of CdS nanorods grafted vertically aligned TiO2 nanorods. 2013 , 48, 4548-4554		15
289	Enhancing the performance of dye-sensitized solar cells based on TiO2 nanotube/nanoparticle composite photoanodes. <i>Electrochimica Acta</i> , 2013 , 105, 142-148	6.7	12
288	A facile hydrothermal deposition of ZnFe2O4 nanoparticles on TiO2 nanotube arrays for enhanced visible light photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12082	13	104
287	Three dimensional urchin-like ordered hollow TiO2/ZnO nanorods structure as efficient photoelectrochemical anode. <i>Nano Energy</i> , 2013 , 2, 779-786	17.1	76
286	Anion-Doped Mixed Metal Oxide Nanostructures Derived from Layered Double Hydroxide as Visible Light Photocatalysts. 2013 , 23, 2348-2356		75
285	Facile route for synthesis of TiO2 nanorod arrays by high-temperature calcinations. <i>Materials Letters</i> , 2013 , 108, 208-211	3.3	5
285		3.3	5
	Letters, 2013, 108, 208-211 High energy electron beam irradiated TiO2 photoanodes for improved water splitting. Journal of		
284	Letters, 2013, 108, 208-211 High energy electron beam irradiated TiO2 photoanodes for improved water splitting. Journal of Materials Chemistry A, 2013, 1, 13567 Chronoamperometric study of membrane electrode assembly operation in continuous flow		26
284	High energy electron beam irradiated TiO2 photoanodes for improved water splitting. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13567 Chronoamperometric study of membrane electrode assembly operation in continuous flow photoelectrochemical water splitting. 2013 , 15, 9315-25 Carbon quantum dot sensitized TiOIhanotube arrays for photoelectrochemical hydrogen		26
284 283 282	High energy electron beam irradiated TiO2 photoanodes for improved water splitting. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13567 Chronoamperometric study of membrane electrode assembly operation in continuous flow photoelectrochemical water splitting. 2013 , 15, 9315-25 Carbon quantum dot sensitized TiOlhanotube arrays for photoelectrochemical hydrogen generation under visible light. 2013 , 5, 2274-8 Remarkable role of annealing time on anatase phase titania nanotubes and its	13	26 29 256

(2014-2013)

278	Three-dimensional CdS-titanate composite nanomaterials for enhanced visible-light-driven hydrogen evolution. <i>Small</i> , 2013 , 9, 996-1002	11	118
277	Understanding the Role of Nanostructures for Efficient Hydrogen Generation on Immobilized Photocatalysts. 2013 , 3, 1368-1380		118
276	Nanotechnology in Solar and Biofuels. 2013 , 1, 779-797		73
275	Optimization of surface charge transfer processes on rutile TiO2 nanorods photoanodes for water splitting. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 2979-2985	6.7	42
274	Synthesis of raspberry-like SiO2-TiO2 nanoparticles toward antireflective and self-cleaning coatings. 2013 , 5, 5282-90		136
273	Biocompatible and freestanding anatase TiO2 nanomembrane with enhanced photocatalytic performance. <i>Nanotechnology</i> , 2013 , 24, 305706	3.4	16
272	Layered WO3/TiO2 nanostructures with enhanced photocurrent densities. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 15954-15964	6.7	40
271	Visible Light Photoelectrochemical Properties of N-Doped TiO2Nanorod Arrays from TiN. 2013 , 2013, 1-8		8
270	Ultrafast transient absorption studies of hematite nanoparticles: the effect of particle shape on exciton dynamics. 2013 , 6, 1907-14		22
269	Introduction to Production of Valuable Compounds from Biomass and Waste Valorization Using Nanomaterials. 2013 , 13-18		2
268	High-Efficiency Photochemical Water Splitting of CdZnS/CdZnSe Nanostructures. 2013, 2013, 1-7		3
267	Dynamic Shadowing Growth and Its Energy Applications. 2014 , 2,		12
266	Aniodic TiO2 Nanotubes Synthesis and Applications. 2014 , 7, 1-7		1
265	Freestanding atomically-thin cuprous oxide sheets for improved visible-light photoelectrochemical water splitting. <i>Nano Energy</i> , 2014 , 8, 205-213	17.1	47
264	Enhanced photoelectrochemical properties of TiO nanorod arrays decorated with CdS nanoparticles. 2014 , 15, 055006		30
263	Epitaxial growth of ZnO Nanodisks with large exposed polar facets on nanowire arrays for promoting photoelectrochemical water splitting. <i>Small</i> , 2014 , 10, 4760-9	11	53
262	Visible Light Photocatalytic Activity in AACVD-Prepared N-modified TiO2 Thin Films. 2014 , 20, 91-97		13
261	A facile strategy to fabricate high-quality single crystalline brookite TiOIhanoarrays and their photoelectrochemical properties. 2014 , 6, 13900-9		33

260	Photoelectrochemical Water Splitting with Rutile TiO2 Nanowires Array: Synergistic Effect of Hydrogen Treatment and Surface Modification with Anatase Nanoparticles. <i>Electrochimica Acta</i> , 2014 , 130, 290-295	6.7	74
259	Hierarchical Nanowire Arrays Based on ZnO Corellayered Double Hydroxide Shell for Largely Enhanced Photoelectrochemical Water Splitting. 2014 , 24, 580-586		222
258	Facet cutting and hydrogenation of In(2)O(3) nanowires for enhanced photoelectrochemical water splitting. 2014 , 6, 4081-8		42
257	TiO2 nanotube arrays modified with Cr-doped SrTiO3 nanocubes for highly efficient hydrogen evolution under visible light. 2014 , 20, 2654-62		42
256	Growth of rutile TiO2 nanorods on TiO2 seed layer prepared using facile low cost chemical methods. <i>Materials Letters</i> , 2014 , 116, 191-194	3.3	25
255	Optimization of quantum dot-sensitized photoelectrode for realization of visible light hydrogen generation. <i>Small</i> , 2014 , 10, 2325-30	11	13
254	Research Update: Strategies for efficient photoelectrochemical water splitting using metal oxide photoanodes. 2014 , 2, 010703		87
253	Template-Free Fabrication of Highly-Oriented Single-Crystalline 1D-Rutile TiO2-MWCNT Composite for Enhanced Photoelectrochemical Activity. 2014 , 118, 19363-19373		42
252	Electrochemical synthesis of coaxial TiO2Ag nanowires and their application in photocatalytic water splitting. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2648-2656	13	34
251	Earth-abundant oxygen evolution catalysts coupled onto ZnO nanowire arrays for efficient photoelectrochemical water cleavage. 2014 , 20, 12954-61		54
250	Quantum-size effect on the electronic and optical properties of hybrid TiO/Au clusters. 2014, 141, 0543	301	1
249	Low-cost Nanomaterials. 2014,		11
248	2D ZnIn(2)S(4) nanosheet/1D TiO(2) nanorod heterostructure arrays for improved photoelectrochemical water splitting. 2014 , 6, 17200-7		249
247	A three-dimensional hierarchical TiO2 urchin as a photoelectrochemical anode with omnidirectional anti-reflectance properties. 2014 , 16, 22953-7		35
246	Surface Passivation of TiO2 Nanowires Using a Facile Precursor-Treatment Approach for Photoelectrochemical Water Oxidation. 2014 , 118, 15086-15094		74
245	Development of a high performance hollow CuInSe2 nanospheres-based photoelectrochemical cell for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18974-18987	13	23
244	Multi-walled Carbon Nanotubes Modified ZnO Nanorods: a Photoanode for Photoelectrochemical Cell. <i>Electrochimica Acta</i> , 2014 , 143, 188-195	6.7	17
243	Highly Crystalline Mesoporous TiO2(B) Nanofibers. 2014 , 118, 3049-3055		18

(2015-2014)

242	In Situ Preparation of a Ti3+ Self-Doped TiO2 Film with Enhanced Activity as Photoanode by N2H4 Reduction. 2014 , 126, 10653-10657	49
241	Unveiling Two Electron-Transport Modes in Oxygen-Deficient TiO2 Nanowires and Their Influence on Photoelectrochemical Operation. 2014 , 5, 2890-6	46
240	In situ preparation of a Till+ self-doped TiOlfilm with enhanced activity as photoanode by N田l reduction. 2014 , 53, 10485-9	176
239	Low-Cost Nanomaterials for Photoelectrochemical Water Splitting. 2014 , 267-295	4
238	Design, Fabrication, and Modification of Cost-Effective Nanostructured TiO2 for Solar Energy Applications. 2014 , 9-54	1
237	Facile preparation of hierarchical TiO2 nano structures: growth mechanism and enhanced photocatalytic H2 production from water splitting using methanol as a sacrificial reagent. 2014 , 6, 10342-52	65
236	Fabrication of TiN nanostructure as a hydrogen peroxide sensor by oblique angle deposition. 2014 , 9, 105	15
235	Preparation and enhanced visible light photoelectrochemical activity of g-C3N4/ZnO nanotube arrays. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 2921-2929	27
234	Three-dimensional plasmonic photoanodes based on Au-embedded TiO(2) structures for enhanced visible-light water splitting. 2014 , 6, 1139-44	94
233	3D TiO2/SnO2 hierarchically branched nanowires on transparent FTO substrate as photoanode for efficient water splitting. <i>Nano Energy</i> , 2014 , 5, 132-138	59
232	Effect of seed layer on the growth of rutile TiO2 nanorod arrays and their performance in dye-sensitized solar cells. <i>Materials Science in Semiconductor Processing</i> , 2014 , 24, 1-8	22
231	Solar photocatalytic fuel cell using CdSIIiO2 photoanode and air-breathing cathode for wastewater treatment and simultaneous electricity production. <i>Chemical Engineering Journal</i> , 2014 , 14.7 253, 174-182	74
230	Preparation and Characterization of TiO2 Nanotube Arrays in Ionic Liquid for Water Splitting. Electrochimica Acta, 2014 , 136, 404-411	32
229	Photoexcitation of TiO2 photoanode in water splitting. 2014 , 143, 1417-1422	10
228	. 2015,	
227	Architecting smart IlmbrellaIBi2S3/rGO-modified TiO2 nanorod array structures at the nanoscale for efficient photoelectrocatalysis under visible light. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1235-1242	84
226	A nanostructured chromium(III) oxide/tungsten(VI) oxide pl junction photoanode toward enhanced efficiency for water oxidation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14046-14053	53
225	Hierarchical nanowire arrays based on carbon nanotubes and Co3O4 decorated ZnO for enhanced photoelectrochemical water oxidation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13731-13737	45

224	One-dimensional hybrid nanostructures for heterogeneous photocatalysis and photoelectrocatalysis. <i>Small</i> , 2015 , 11, 2115-31	11	183
223	Photoelectrochemical solar water splitting using electrospun TiO2 nanofibers. 2015 , 328, 109-114		23
222	Large-scale patterned ZnO nanorod arrays for efficient photoelectrochemical water splitting. 2015 , 339, 122-127		34
221	TiO2/Bi2S3 coreBhell nanowire arrays for photoelectrochemical hydrogen generation. 2015 , 5, 13544-7	13549	40
220	Synthesis of TiO2-SrTiO3Hetero-Structured Nanorod Arrays and Their Photoelectrical Performance in All-Solid-State Dye-Sensitized Solar Cells. 2015 , 4, Q17-Q20		12
219	ZnSeID.5N2H4 hybrid nanostructures: a promising alternative photocatalyst for solar conversion. 2015 , 7, 1616-23		64
218	Recent Advances in Metal Oxide-Based Photoelectrochemical Hydrogen Production. 2015 , 343-370		
217	Fabrication of titanium dioxide nanotubes in fluoride-free electrolyte via rapid breakdown anodization. 2015 , 22, 1437-1444		12
216	Effect of H2O2 concentration on electrochemical growth and properties of vertically oriented ZnO nanorods electrodeposited from chloride solutions. <i>Materials Science in Semiconductor Processing</i> , 2015 , 40, 585-590	4.3	20
215	Enhanced photovoltaic performance of dye-sensitized solar cells based on Sr-doped TiO2/SrTiO3 nanorod array heterostructures. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 17417-17425	13	54
214	Investigation of photoinduced electron transfer on TiO2 nanowire arrays/porphyrin composite via scanning electrochemical microscopy. 2015 , 5, 56697-56703		4
213	Morphological Modification of TiOlThin Films as Highly Efficient Photoanodes for Photoelectrochemical Water Splitting. 2015 , 7, 9088-97		34
212	Irradiation-induced TiO2 nanorods for photoelectrochemical hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 5034-5041	6.7	18
211	Growth of porous In2S3 films and their photoelectrochemical properties. <i>Journal of Solid State Electrochemistry</i> , 2015 , 19, 2321-2330	2.6	15
210	Enhancement of photoelectrochemical activity for water splitting by controlling hydrodynamic conditions on titanium anodization. <i>Journal of Power Sources</i> , 2015 , 286, 224-231	8.9	36
209	Highly Transparent Dual-Sensitized Titanium Dioxide Nanotube Arrays for Spontaneous Solar Water Splitting Tandem Configuration. 2015 , 7, 18429-34		14
208	A three-dimensional interconnected hierarchical FeOOH/TiO/ZnO nanostructural photoanode for enhancing the performance of photoelectrochemical water oxidation. 2015 , 7, 19178-83		40
207	Hierarchical TiO2 nanoflowers/nanosheets array film: synthesis, growth mechanism and enhanced photoelectrochemical properties. 2015 , 5, 6429-6436		14

206	Synthesis of mesoporous ITO/TiO2 electrodes for optoelectronics. <i>Materials Letters</i> , 2015 , 139, 355-3583.3	14
205	Facile one-pot controlled synthesis of Sn and C codoped single crystal TiO2 nanowire arrays for highly efficient photoelectrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , 2015 , 163, 478-486	44
204	Enhanced Visible Light Photocatalytic Performance by Nanostructured Semiconductors with Glancing Angle Deposition Method. 2016 ,	1
203	Synthesis and performance of Cu2ZnSnS4 semiconductor as photocathode for solar water splitting. <i>Journal of Alloys and Compounds</i> , 2016 , 688, 923-932 5.7	30
202	Enhancing Charge Separation in Metallic Photocatalysts: A Case Study of the Conducting Molybdenum Dioxide. 2016 , 26, 4445-4455	109
201	Built-in microscale electrostatic fields induced by anatase-rutile-phase transition in selective areas promote osteogenesis. 2016 , 8,	26
200	The Effects of Gold Nanoparticles Deposition on the Surface of TiO2 Nanorods for Solar Water Splitting Applications. 2016 , 06, 1650004	4
199	Photoelectrochemical characteristics of TiO2 nanorod arrays grown on fluorine doped tin oxide substrates by the facile seeding layer assisted hydrothermal method. 2016 , 12, 161-165	3
198	Novel WO3/Sb2S3 Heterojunction Photocatalyst Based on WO3 of Different Morphologies for Enhanced Efficiency in Photoelectrochemical Water Splitting. 2016 , 8, 9684-91	216
197	CdSe-sensitized branched CdS hierarchical nanostructures for efficient photoelectrochemical solar hydrogen generation. 2016 , 18, 11460-6	13
196	Enhanced Photoelectrochemical Performance from Rationally Designed Anatase/Rutile TiO2 Heterostructures. 2016 , 8, 12239-45	116
195	Tuning PbS QDs deposited onto TiO nanotube arrays to improve photoelectrochemical performances. 2016 , 484, 213-219	24
194	Quantum dots and plasmonic Ag decorated WO3 nanorod photoanodes with enhanced photoelectrochemical performances. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 20529-20535	63
193	Enhanced photoelectrochemical performance with in-situ Au modified TiO2 nanorod arrays as photoanode. <i>Journal of Alloys and Compounds</i> , 2016 , 688, 914-920	10
192	Amorphous Semiconductor Nanowires Created by Site-Specific Heteroatom Substitution with Significantly Enhanced Photoelectrochemical Performance. 2016 , 10, 7882-91	22
191	Basic Concepts of Solar-to-Chemical Energy Conversion by Oxide Semiconductors. 2016 , 253, 1-10	1
190	Hierarchical P-doped TiO2 nanotubes array@Ti plate: Towards advanced CO2 photocatalytic reduction catalysts. 2016 , 42, 16405-16411	23
189	Clean TiO2 nanocuboid film tightly attached on a conductive substrate for highly efficient photoelectrochemical water splitting. 2016 , 49, 48LT01	1

188	Semiconductor Nanowires for Energy Harvesting. 2016 , 94, 297-368		4
187	Very High Surface Area Mesoporous Thin Films of SrTiO Grown by Pulsed Laser Deposition and Application to Efficient Photoelectrochemical Water Splitting. 2016 , 16, 7338-7345		37
186	Morphology engineering of WO3/BiVO4 heterojunctions for efficient photocatalytic water oxidation. <i>CrystEngComm</i> , 2016 , 18, 8961-8970	3.3	37
185	Phosphorus Cation Doping: A New Strategy for Boosting Photoelectrochemical Performance on TiO Nanotube Photonic Crystals. 2016 , 8, 30972-30979		40
184	Free-Standing Membranes to Study the Optical Properties of Anodic TiO2 Nanotube Layers. 2016 , 11, 789-97		25
183	Enhancement in solar driven water splitting by Au P d nanoparticle decoration of electrochemically grown ZnO nanorods. 2016 , 46, 819-827		21
182	Tuning the composition of Bi x W y O nanorods towards zero bias PEC water splitting. <i>Nanotechnology</i> , 2016 , 27, 255401	3.4	9
181	Prolonged Electron Lifetime in Ordered TiO2 Mesophyll Cell-Like Microspheres for Efficient Photocatalytic Water Reduction and Oxidation. <i>Small</i> , 2016 , 12, 2291-9	11	45
180	CdS/Cu2S co-sensitized TiO2 branched nanorod arrays of enhanced photoelectrochemical properties by forming nanoscale heterostructure. <i>Journal of Alloys and Compounds</i> , 2016 , 662, 516-527	5.7	62
179	Realizing omnidirectional light harvesting by employing hierarchical architecture for dye sensitized solar cells. 2016 , 8, 5478-87		10
178	Effects of growth substrate on the morphologies of TiO2 hierarchical nanoarrays and their optical and photocatalytic properties. 2016 , 27, 2103-2107		10
177	Synthesis of BiOI nanosheet/coarsened TiO2 nanobelt heterostructures for enhancing visible light photocatalytic activity. 2016 , 6, 30037-30047		34
176	Effects of Hydroxylation on PbS Quantum Dot Sensitized TiO2 Nanotube Array Photoelectrodes. <i>Electrochimica Acta</i> , 2016 , 187, 480-487	6.7	22
175	Studies on the structural, morphological, optical and electrical properties of Al-doped ZnO nanorods prepared by electrochemical deposition. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 763, 149	94754	40
174	Visible light harvesting Pt/CdS/Co-doped ZnO nanorods molecular device for hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 2298-2306	6.7	26
173	Ligand-exchange assisted preparation of plasmonic Au/TiO2 nanotube arrays photoanodes for visible-light-driven photoelectrochemical water splitting. <i>Journal of Power Sources</i> , 2016 , 303, 287-293	8.9	39
172	Enhancing the photoelectrochemical water splitting activity of rutile nanorods by removal of surface hydroxyl groups. 2016 , 259, 360-367		17
171	Tuning the CuxO nanorod composition for efficient visible light induced photocatalysis. 2016 , 6, 2228-2	238	49

170	Hierarchical nanostructures of metal oxides for enhancing charge separation and transport in photoelectrochemical solar energy conversion systems. 2016 , 1, 96-108		65	
169	Perspectives on oblique angle deposition of thin films: From fundamentals to devices. 2016 , 76, 59-153		423	
168	Electrocatalytic activity of lithium polysulfides adsorbed into porous TiO coated MWCNTs hybrid structure for lithium-sulfur batteries. 2017 , 7, 40679		23	
167	Enhancing the Sensing Properties of TiO Nanosheets with Exposed {001} Facets by a Hydrogenation and Sensing Mechanism. 2017 , 56, 1504-1510		41	
166	Ultralight, Flexible, and Semi-Transparent Metal Oxide Papers for Photoelectrochemical Water Splitting. 2017 , 9, 3922-3930		15	
165	Enhanced photoelectrochemical water splitting using oxidized mass-selected Ti nanoclusters on metal oxide photoelectrodes. 2017 , 1, 336-344		6	
164	Facile Fabrication of Large-Aspect-Ratio g-C3N4 Nanosheets for Enhanced Photocatalytic Hydrogen Evolution. 2017 , 5, 2039-2043		74	
163	Epitaxial hetero-structure of CdSe/TiO2 nanotube arrays with PEDOT as a hole transfer layer for photoelectrochemical hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6233-6244	13	20	
162	Photoelectrochemical water splitting on nanoporous GaN thin films for energy conversion under visible light. 2017 , 4, 015019		14	
161	Plasmon-Enhanced Photocurrent using Gold Nanoparticles on a Three-Dimensional TiO Nanowire-Web Electrode. 2017 , 7, 42524		41	
160	Combinatorial synthesis and high-throughput characterization of structural and photoelectrochemical properties of Fe:WO nanostructured libraries. <i>Nanotechnology</i> , 2017 , 28, 185604	3.4	12	
159	One-Dimensional Metal-Oxide Nanostructures for Solar Photocatalytic Water-Splitting. 2017 , 46, 4716-4	4724	21	
158	A C3N4 surface passivated highly photoactive Au-TiO2 tubular nanostructure for the efficient H2 production from water under sunlight irradiation. <i>Applied Catalysis B: Environmental</i> , 2017 , 213, 9-17	21.8	57	
157	Double-Side Co-Catalytic Activation of Anodic TiO Nanotube Membranes with Sputter-Coated Pt for Photocatalytic H Generation from Water/Methanol Mixtures. 2017 , 12, 314-323		12	
156	Efficient tungsten oxide/bismuth oxyiodide core/shell photoanode for photoelectrochemical water splitting. 2017 , 423, 63-70		12	
155	Oriented epitaxial TiO nanowires for water splitting. <i>Nanotechnology</i> , 2017 , 28, 265602	3.4	7	
154	Preparation and optimization of TiO2 photoanodes fabricated by pulsed laser deposition for photoelectrochemical water splitting. <i>Journal of Solid State Electrochemistry</i> , 2017 , 21, 3139-3154	2.6	8	
153	Optimization of charge transfer and transport processes at the CdSe quantum dots/TiO2 nanorod interface by TiO2 interlayer passivation. 2017 , 50, 235305		5	

152	Synergistic promotion of photoelectrochemical water splitting efficiency of TiO 2 nanorods using metal-semiconducting nanoparticles. 2017 , 420, 631-637		20
151	Recent Advances in Bismuth-Based Nanomaterials for Photoelectrochemical Water Splitting. 2017 , 10, 3001-3018		77
150	Photoelectrode nanomaterials for photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 11078-11109	6.7	103
149	Cobalt-Nickel Layered Double Hydroxides Modified on TiO Nanotube Arrays for Highly Efficient and Stable PEC Water Splitting. <i>Small</i> , 2017 , 13, 1602420	11	54
148	Fe-doped TiO2 nanorods with enhanced electrochemical properties as efficient photoanode materials. <i>Journal of Alloys and Compounds</i> , 2017 , 708, 862-870	5.7	34
147	Enhanced photocatalytic CO2 reduction over Co-doped NH2-MIL-125(Ti) under visible light. 2017 , 7, 428	819-42	835
146	Fabrication of Au nanoparticle-decorated TiO2 nanotube arrays for stable photoelectrochemical water splitting by two-step anodization. 2017 , 43, 14063-14067		6
145	Growth of TiO2 microspheres with a radially oriented configuration. <i>CrystEngComm</i> , 2017 , 19, 4832-483	373.3	5
144	Annealing effect on the photoelectrochemical and photocatalytic performance of TiO2 nanorod arrays. 2017 , 7, 51382-51390		8
143	Enhanced hydrogen production of PbTe-PbS/TNAs electrodes modified with ordered mesoporous carbon. 2017 , 504, 652-659		10
142	Photoelectrochemical and structural properties of TiO 2 nanotubes and nanorods grown on FTO substrate: Comparative study between electrochemical anodization and hydrothermal method used for the nanostructures fabrication. 2017 , 287, 130-136		30
141	Au nanoparticles modified branched TiO2 nanorod array arranged with ultrathin nanorods for enhanced photoelectrochemical water splitting. <i>Journal of Alloys and Compounds</i> , 2017 , 693, 1124-1132	<u>5</u> .7	43
140	Heavy metal-free, near-infrared colloidal quantum dots for efficient photoelectrochemical hydrogen generation. <i>Nano Energy</i> , 2017 , 31, 441-449	17.1	97
139	Surface analysis of N-doped TiO2 nanorods and their enhanced photocatalytic oxidation activity. <i>Applied Catalysis B: Environmental</i> , 2017 , 204, 209-215	21.8	67
138	Hydrogenated TiO2/ZnO heterojunction nanorod arrays with enhanced performance for photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 3938-3946	6.7	58
137	Hydrothermal Growth of 1D ZnO Nanorods Thin Films for Hydrogen Gas Production through Water Splitting Reaction. 2017 , 264, 95-98		1
136	Nanomaterials for photoelectrochemical water splitting Ireview. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 4804-4817	6.7	248
135	Bulk-Direct Synthesis of TiO2Nanoparticles by Plasma-Assisted Electrolysis with Enhanced Photocatalytic Performance. <i>Journal of the Electrochemical Society</i> , 2018 , 165, E64-E69	3.9	2

134	Construction of self-powered cytosensing device based on ZnO nanodisks@g-CN quantum dots and application in the detection of CCRF-CEM cells. <i>Nano Energy</i> , 2018 , 46, 101-109	17.1	63
133	1D alignment of ZnO@ZIF-8/67 nanorod arrays for visible-light-driven photoelectrochemical water splitting. 2018 , 448, 254-260		41
132	A highly sensitive and moisture-resistant gas sensor for diabetes diagnosis with Pt@In2O3 nanowires and a molecular sieve for protection. 2018 , 10, 293-308		81
131	Controllable Synthesis of [11-2-2] Faceted InN Nanopyramids on ZnO for Photoelectrochemical Water Splitting. <i>Small</i> , 2018 , 14, e1703623	11	12
130	Flake-like NiO/WO3 p-n heterojunction photocathode for photoelectrochemical water splitting. 2018 , 440, 1101-1106		41
129	Black Si-doped TiO nanotube photoanode for high-efficiency photoelectrochemical water splitting 2018 , 8, 5652-5660		30
128	Acid-free approach towards the growth of vertically aligned TiO 2 nanorods as an efficient photoanode for dye-sensitized solar cells. 2018 , 105, 202-209		9
127	Electrodeposition of CdS onto BiVO4 films with high photoelectrochemical performance. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 2569-2577	2.6	13
126	Exploratory Study of Zn PbO Photoelectrodes for Unassisted Overall Solar Water Splitting. 2018 , 10, 10918-10926		6
125	Hydrogenated TiO2 nanosheet based flowerlike architectures: Enhanced sensing performances and sensing mechanism. <i>Journal of Alloys and Compounds</i> , 2018 , 749, 543-555	5.7	11
124	Efficient development of Type-II TiO2 heterojunction using electrochemical approach for an enhanced photoelectrochemical water splitting performance. 2018 , 39, 438-445		19
123	Strong efficiency improvement in dye-sensitized solar cells by novel multi-dimensional TiO2 photoelectrode. 2018 , 434, 11-15		23
122	Visible light-induced electronic structure modulation of Nb- and Ta-doped ⊞eO nanorods for effective photoelectrochemical water splitting. <i>Nanotechnology</i> , 2018 , 29, 064002	3.4	13
121	Fabrication, characterization and photoelectrochemical activity of tungsten-copper co-sensitized TiO nanotube composite photoanodes. 2018 , 514, 70-82		79
120	Nanostar morphology of plasmonic particles strongly enhances photoelectrochemical water splitting of TiO2 nanorods with superior incident photon-to-current conversion efficiency in visible/near-infrared region. <i>Electrochimica Acta</i> , 2018 , 260, 212-220	6.7	33
119	Porous-Alumina-Assisted Growth of Nanostructured Anodic Films on TiNb Alloys. 2018 , 5, 2825-2835		4
118	. 2018,		3
117	Photoelectrochemical Cell: A Versatile Device for Sustainable Hydrogen Production. 2018 , 59-119		3

116	Nanostructured p-TiO/n-GaN heterostructure as a potential photoelectrode for efficient charge separation. <i>Nanotechnology</i> , 2018 , 29, 50LT02	3.4	5
115	The effect of Reynolds number on TiO2 nanosponges doped with Li+ cations. <i>New Journal of Chemistry</i> , 2018 , 42, 11054-11063	3.6	5
114	NaBH4 reduction of Ti Si O nanotubes photoanode for high-efficiency photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 14183-14192	6.7	8
113	Two-dimensional Mixed Phase Leaf-Ti1-xCuxO2 Sheets Synthesized Based on a Natural Leaf Template for Increased Photocatalytic H2 Evolution. 2018 , 10, 3813-3823		12
112	Photoelectrochemical and photocatalytic activity of TiO2-WO3 heterostructures boosted by mutual interaction. <i>Materials Science in Semiconductor Processing</i> , 2018 , 88, 10-19	4.3	31
111	Synergistic Cooperation of Rutile TiO {002}, {101}, and {110} Facets for Hydrogen Sensing. 2018 , 10, 28	3199-28	209
110	Plasmon-enhanced solar water splitting with metal oxide nanostructures: A brief overview of recent trends. 2018 , 12, 207-213		20
109	Titania morphologies modified gold nanoparticles for highly catalytic photoelectrochemical water splitting. 2018 , 364, 740-749		17
108	Titanium dioxide nanostructures for photoelectrochemical applications. 2018, 98, 299-385		148
107	Tuning the morphology of electrosprayed BiVO4 from nanopillars to nanoferns via pH control for solar water splitting. <i>Journal of Alloys and Compounds</i> , 2018 , 769, 193-200	5.7	20
106	PbTe quantum dots as electron transfer intermediates for the enhanced hydrogen evolution reaction of amorphous MoS/TiO nanotube arrays. 2018 , 10, 10288-10295		31
105	Designing biomimetic porous celery: TiO2/ZnO nanocomposite for enhanced CO2 photoreduction. Journal of Materials Science, 2018 , 53, 11595-11606	4.3	16
104	Current progress in developing metal oxide nanoarrays-based photoanodes for photoelectrochemical water splitting. 2019 , 64, 1348-1380		59
103	Morphology evolution and photocatalytic applications of W-doped Bi2O3 films prepared using unique oblique angle co-sputtering technology. 2019 , 45, 21968-21974		14
102	High-efficiency photoelectrochemical water splitting with heterojunction photoanode of In2O3-x nanorods/black TiBiD nanotubes. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 17611-17621	6.7	10
101	Edge-Enriched Ultrathin MoS2 Embedded Yolk-Shell TiO2 with Boosted Charge Transfer for Superior Photocatalytic H2 Evolution. 2019 , 29, 1901958		75
100	Achieving Controllable CoTiO3-Encapsulated TiO2 Heterostructures for Enhanced Photoelectrochemical Water Splitting. 2019 , 2, 8229-8235		17
99	Efficient Photoelectrocatalytic Water Oxidation by Palladium Doped g-C3N4 Electrodeposited Thin Film. 2019 , 123, 26106-26115		22

98	A colloidal heterostructured quantum dot sensitized carbon nanotube-TiO hybrid photoanode for high efficiency hydrogen generation. 2019 , 4, 404-414		24
97	Synthesis of a Cu2O/Carbon Film/NiCoB-Graphene Oxide Heterostructure as Photocathode for Photoelectrochemical Water Splitting. 2019 , 6, 2004-2012		9
96	Synergy of Ti-O-based heterojunction and hierarchical 1D nanobelt/3D microflower heteroarchitectures for enhanced photocatalytic tetracycline degradation and photoelectrochemical water splitting. <i>Chemical Engineering Journal</i> , 2019 , 378, 122072	·7	38
95	Gas-Phase Photoelectrocatalysis for Breaking Down Nitric Oxide. 2019 , 53, 7145-7154		27
94	Improvement of the Photoelectrochemical Performance of TiO2 Nanorod Array by PEDOT and Oxygen Vacancy Co-Modification. 2019 , 9, 407		3
93	Solar to chemical energy conversion using titania nanorod photoanodes augmented by size distribution of plasmonic Au-nanoparticle. 2019 , 231, 322-334		5
92	ZnO/Ag/AgWO photo-electrodes with plasmonic behavior for enhanced photoelectrochemical water oxidation 2019 , 9, 8271-8279		19
91	Hybrid CuxOIIiO2 Nanopowders Prepared by Ball Milling for Solar Energy Conversion and Visible-Light-Induced Wastewater Treatment. 2019 , 2, 2446-2455		13
90	Disposable bismuth-based electrodes for heavy metal ion detection. 2019 , 228, 012014		1
89	The remarkable morphology regulatory effect of NH4+ ions on TiO2 nanorod arrays and their application in dye-sensitized solar cells. 2019 , 125, 1		2
88	Photostable 3D heterojunction photoanode made of ZnO nanosheets coated onto TiO2 nanowire arrays for photoelectrochemical solar hydrogen generation. 2019 , 9, 1989-1997		16
87	Rational Design of Photoelectrodes with Rapid Charge Transport for Photoelectrochemical Applications. 2019 , 31, e1805132		48
86	Optimization of conditions for improved solar energy harvesting application by hydrothermally grown TiO2 nanorods. 2019 , 16, 1113-1122		1
85	New Insights into the Electron-Collection Efficiency Improvement of CdS-Sensitized TiO Nanorod Photoelectrodes by Interfacial Seed-Layer Mediation. 2019 , 11, 8126-8137		21
84	Photoelectrochemical, photocatalytic and photochromic performance of rGO-TiO2WO3 composites. 2019 , 224, 217-228		18
83	Plasmonic Ag nanowires sensitized ZnO flake-like structures as a potential photoanode material for enhanced visible light water splitting activity. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 832, 426-435 $^{4.1}$		19
82	NH2-MIL-125(Ti)/TiO2 nanorod heterojunction photoanodes for efficient photoelectrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , 2019 , 244, 511-518	.8	83
81	Experimental and Theoretical Validation of High Efficiency and Robust Electrocatalytic Response of One-Dimensional (1D) (Mn,Ir)O2:10F Nanorods for the Oxygen Evolution Reaction in PEM-Based Water Electrolysis. 2019 , 9, 2134-2157		57

80	Enhanced photoelectrochemical performance of CdO-TiO2 nanotubes prepared by direct impregnation. 2019 , 476, 136-143		7
79	Improved charge separation of NiS nanoparticles modified defect-engineered black TiO hollow nanotubes for boosting solar-driven photocatalytic H evolution. <i>Nanotechnology</i> , 2019 , 30, 125703	3.4	15
78	Hexagonal SnS nanoplates assembled onto hierarchical BiWO with enhanced photocatalytic activity in detoxification and disinfection. 2019 , 537, 345-357		26
77	Electrospun nanofibers for catalyst applications. 2019 , 153-173		2
76	Efficient removal of toxic organic dyes and photoelectrochemical properties of iron-doped zirconia nanoparticles. 2020 , 239, 124766		102
75	A current perspective for photocatalysis towards the hydrogen production from biomass-derived organic substances and water. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 18144-18159	6.7	47
74	Improvement of an Al2O3/CuO heterostructure photoelectrode by controlling the Al2O3 precursor concentration. 2020 , 82, 63-70		2
73	Enhanced photoelectrochemical water splitting using gadolinium doped titanium dioxide nanorod array photoanodes. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 2709-2719	6.7	14
72	Functional metal oxide ceramics as electron transport medium in photovoltaics and photo-electrocatalysis. 2020 , 207-273		2
71	Morphology-dependent photocatalytic and gas-sensing functions of three-dimensional TiO2InO nanoarchitectures. <i>CrystEngComm</i> , 2020 , 22, 7575-7589	3.3	13
70	Hybrid surface passivation of PbS/CdS quantum dots for efficient photoelectrochemical hydrogen generation. 2020 , 530, 147252		12
69	Photoelectrocatalytic Reduction of CO2 over CuBi2O4/TiO2-NTs under Simulated Solar Irradiation. 2020 , 5, 5137-5145		3
68	pH-differential design and operation of electrochemical and photoelectrochemical systems with bipolar membrane. 2020 , 268, 115053		10
67	Preferentially oriented Ag-TiO2 nanotube array film: An efficient visible-light-driven photocatalyst. <i>Journal of Hazardous Materials</i> , 2020 , 399, 123016	12.8	16
66	Hexafluorotitanic acid-assisted synthesis of large-sized, ultrathin titania nanosheets as multifunctional and high-performance photocatalysts. <i>Nanotechnology</i> , 2020 , 31, 405605	3.4	1
65	Nanostructured materials for photocatalytic energy conversion. 2020 , 325-343		O
64	A facile approach to synthesize CoO-Co3O4/TiO2 NAs for reinforced photoelectrocatalytic water oxidation. <i>Journal of Solid State Electrochemistry</i> , 2020 , 24, 941-950	2.6	2
63	Enhanced photocurrent generation from indium E in-oxide/Fe2TiO5 hybrid nanocone arrays. <i>Nano Energy</i> , 2020 , 76, 104965	17.1	4

(2021-2020)

62	A highly transparent thin film hematite with multi-element dopability for an efficient unassisted water splitting system. <i>Nano Energy</i> , 2020 , 76, 105089	17.1	9
61	Vertically aligned ZnO nanorods for photoelectrochemical water splitting application. <i>Materials Letters</i> , 2020 , 277, 128295	3.3	25
60	Construction of g-C3N4/TiO2 nanotube arrays Z-scheme heterojunction to improve visible light catalytic activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 603, 125193	5.1	22
59	The novel behavior of photoelectrochemical property of annealing TiO2 nanorod arrays. <i>Journal of Materials Science</i> , 2020 , 55, 5969-5981	4.3	5
58	The use of titanium dioxide nanotubes as photoanodes for chloride oxidation. <i>Materials Science in Semiconductor Processing</i> , 2020 , 109, 104930	4.3	5
57	Tuning Interfacial Electron Transfer by Anchoring NiFe-LDH on In-situ Grown Cu2O for Enhancing Oxygen Evolution. <i>Catalysis Letters</i> , 2020 , 150, 3049-3057	2.8	4
56	Incorporating graphene quantum dots to enhance the photoactivity of CdSe-sensitized TiO2 nanorods for solar hydrogen production. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13971-13979	13	35
55	Rational design of photoelectrochemical cells towards bias-free water splitting: Thermodynamic and kinetic insights. <i>Journal of Power Sources</i> , 2020 , 462, 228113	8.9	8
54	Visualization of bubble dynamic behaviors during photoelectrochemical water splitting with TiO2 photoelectrode. <i>Electrochimica Acta</i> , 2020 , 347, 136230	6.7	3
53	Langmuir-Scheaffer Technique as a Method for Controlled Alignment of 1D Materials. <i>Langmuir</i> , 2020 , 36, 4540-4547	4	7
52	Single-crystal-like black Zr-TiO2 nanotube array film: An efficient photocatalyst for fast reduction of Cr(VI). <i>Chemical Engineering Journal</i> , 2021 , 403, 126331	14.7	18
51	Electrochemical reduction induced self-doping of oxygen vacancies into TiBiD nanotubes as efficient photoanode for boosted photoelectrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 3554-3564	6.7	4
50	Construction of a TiO2 heterostructure nanowire with a sulfurized shell via a simple sulfurization process for enhanced photoelectrochemical water oxidation. <i>Journal of Alloys and Compounds</i> , 2021 , 858, 158375	5.7	2
49	Optimizing crystal characterization of WO3InO composites for boosting photoactive performance via manipulating crystal formation conditions. <i>CrystEngComm</i> , 2021 , 23, 3498-3509	3.3	1
48	Spacing prior to decorating TiO2 nanowires with dewetted Au nanoparticles for boosting photoelectrochemical water oxidation. <i>CrystEngComm</i> , 2021 , 23, 6551-6558	3.3	О
47	Metal oxide catalysts for photoelectrochemical water splitting. 2021 , 105-138		1
46	Quasi-1D Aligned Nanostructures for Solar-Driven Water Splitting Applications: Challenges, Promises, and Perspectives. <i>Solar Rrl</i> , 2021 , 5, 2000741	7.1	4
45	Nanoarray Structures for Artificial Photosynthesis. <i>Small</i> , 2021 , 17, e2006530	11	7

44	Hydrogen treated TiO2 nanoparticles onto FTO glass as photoanode for dye-sensitized solar cells with remarkably enhanced performance. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 14311-143	2 9·7	4
43	Boosting photoresposive ability of WO-BiOnanocomposite rods via annealing-induced intrinsic precipitation of nanosized Bi particles. <i>Nanotechnology</i> , 2021 , 32,	3.4	1
42	Contact Electrification at the Liquid-Solid Interface. Chemical Reviews, 2021,	68.1	47
41	Highly Efficient Degradation of Persistent Pollutants with 3D Nanocone TiO-Based Photoelectrocatalysis. <i>Journal of the American Chemical Society</i> , 2021 , 143, 13664-13674	16.4	26
40	An insight in photocurrent generation mechanism on Cu2O quantum dot sensitized Cu/p-Cul photo-electrochemical cell and efficient H2 generation at Cu/p-CuI/Cu2O electrolyte interface. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 270, 115205	3.1	1
39	Hydrothermally obtained type-II heterojunction nanostructures of In2S3 / TiO2 for remarkably enhanced photoelectrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , 2021 , 295, 120276	21.8	26
38	Bismuth based photoelectrodes for solar water splitting. <i>Journal of Energy Chemistry</i> , 2021 , 61, 517-530	012	11
37	Zig-zag Ag2S nanostructures for superior optical absorption and photoelectrochemical water splitting performance. <i>Renewable Energy</i> , 2021 , 179, 2256-2266	8.1	1
36	Solar-active titanium-based oxide photocatalysts loaded on TiN array absorbers for enhanced broadband photocurrent generation. <i>Journal of Applied Physics</i> , 2021 , 129, 023103	2.5	2
35	Optical Properties and Applications of Shape-Controlled Metal Nanostructures. <i>International Journal of Behavioral and Consultation Therapy</i> , 2012 , 205-238	0.6	2
34	Enhancing the interface stability of Li1.3Al0.3Ti1.7(PO4)3 and lithium metal by amorphous Li1.5Al0.5Ge1.5(PO4)3 modification. <i>Ionics</i> , 2020 , 26, 3815-3821	2.7	5
33	Direct Z-scheme CdS-CdS nanorod arrays photoanode: Synthesis, characterization and photoelectrochemical performance. <i>Chinese Journal of Chemical Physics</i> , 2019 , 32, 715-720	0.9	2
32	Preparation of chromium and sulfur single and co-doped TiO2 nanostructures for efficient photoelectrochemical water splitting: effect of aliphatic alcohols on their activity. <i>Journal of Solid State Electrochemistry</i> , 1	2.6	О
31	Semiconductive-Ferroelectric-Enhanced Photo-Electrochemistry with Collective Improvements on Light Absorption, Charge Separation, and Carrier Transportation. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2101227	4.6	O
30	Photocatalytic Hydrogen Evolution. 2017 , 1-41		
29	Progress in Photocatalytic and Photoelectrochemical Water Splitting of TiO2 Thin Films. <i>Journal of Advances in Physical Chemistry</i> , 2017 , 06, 68-74	Ο	
28	Photoelectrochemical and photosensing study of nitrogen doped carbon nanoparticles sensitized TiO2 nanorods. <i>Diamond and Related Materials</i> , 2021 , 108683	3.5	5
27	Preparation of anatase TiO2 nanowalls using carbon nanowall templating for photoelectrochemical water splitting. <i>Japanese Journal of Applied Physics</i> , 2021 , 60, 010903	1.4	O

26 CHAPTER 10:Functionalization and Useful Properties and Potential Applications of Nanowires. *RSC Nanoscience and Nanotechnology*, **2021**, 541-584

25	Tailored TiO2 Nanorod Arrays for Dye Sensitized Solar Cell Applications. <i>EPJ Applied Physics</i> ,	1.1	
24	Ball milling IA green and sustainable technique for the preparation of titanium based materials from ilmenite. <i>Current Research in Green and Sustainable Chemistry</i> , 2022 , 5, 100236	4.1	0
23	TiO2 nanocrystal rods on titanium microwires: growth, vacuum annealing, and photoelectrochemical oxygen evolution. <i>New Journal of Chemistry</i> ,	3.6	
22	Photoactive nanomaterials enabled integrated photo-rechargeable batteries. Nanophotonics, 2022,	6.3	1
21	Leaching of ilmenite to produce titanium based materials: a review. <i>Discover Materials</i> , 2021 , 1, 1		O
20	Rational design on photoelectrodes and devices to boost photoelectrochemical performance of solar-driven water splitting: a mini review. <i>Frontiers of Chemical Science and Engineering</i> ,	4.5	O
19	Solar light driven photoelectrochemical water splitting using Mn-doped CdS quantum dots sensitized hierarchical rosette-rod TiO2 photoanodes. <i>Journal of Electroanalytical Chemistry</i> , 2022 , 916, 116384	4.1	O
18	Influence of Zinc Oxide Nanostructure Morphology on its Photocatalytic Properties. <i>Current Nanoscience</i> , 2022 , 18,	1.4	
17	Photoelectrolysis of TiO2 is Highly Localized and the Selectivity is Affected by the Light. <i>Chemical Engineering Journal</i> , 2022 , 136995	14.7	1
16	ReviewUnderstanding and Controlling Charge Functions in Materials for Electrochemically Mediated Water Treatment. <i>Journal of the Electrochemical Society</i> ,	3.9	
15	Accelerated Fe(III)/Fe(II) cycle couples with in-situ generated H2O2 boosting visible light-induced Fenton-like oxidation. <i>Separation and Purification Technology</i> , 2022 , 121688	8.3	
14	Regulating the surface of anion-doped TiO2 nanorods by hydrogen annealing for superior photoelectrochemical water oxidation. <i>Nano Convergence</i> , 2022 , 9,	9.2	1
13	On the Morphology of Nanostructured TiO2 for Energy Applications: The Shape of the Ubiquitous Nanomaterial. 2022 , 12, 2608		2
12	Sb2S3/Sb2Se3 Heterojunction for High-Performance Photodetection and Hydrogen Production. 2022 ,		0
11	ReviewCombining Experimental and Engineering Aspects of Catalyst Design for Photoelectrochemical Water Splitting. 2022 , 1, 030501		1
10	Charge reaction kinetics on TiO2 nanotubes under photoelectrochemical water oxidation condition. 2022 , 603, 154447		1
9	WO3/Ag2S type-II hierarchical heterojunction for improved charge carrier separation and photoelectrochemical water splitting performance. 2022 , 925, 166684		O

8	Photoelectrochemical study of Ti3+ self-doped Titania nanotubes arrays: A comparative study between chemical and electrochemical reduction. 2023 , 811, 140219	0
7	Fabrication of highly stable Titania photoanode with enhanced photocurrent density. 2022, 128,	O
6	Nitrogen-doped reduced graphene oxide decorated with silver nanoparticles for photoelectrochemical water splitting. 2023 , 34,	0
5	Ti3+ self-doped and nitrogen-annealed TiO2 nanocone arrays photoanode for efficient visible-LED-light-driven photoelectrocatalytic degradation of sulfamethazine. 2023 , 314, 123591	О
4	The influence of hydrothermal treatment on TiO2 nanostructure films transformed from titanates and their photoelectrochemical water splitting properties. 2023 , 38, 102767	0
3	Tailoring the deposition of MoSe2 on TiO2 nanorods arrays via radiofrequency magnetron sputtering for enhanced photoelectrochemical water splitting. 2023 , 626, 157205	О
2	MWCNT/Cr2O3 nanocomposite as a solution-processed hole transport layer for cost-effective perovskite solar cells with long-term stability. 2023 , 251, 382-391	0
1	Solar⊞ydrogen Coupling Hybrid Systems for Green Energy. 2023 , 65-95	O