

Increasing Solar Absorption for Photocatalysis with Black Nanocrystals

Science

331, 746-750

DOI: [10.1126/science.1200448](https://doi.org/10.1126/science.1200448)

Citation Report

#	ARTICLE	IF	CITATIONS
13	Nanocables composed of anatase nanofibers wrapped in UV-light reduced graphene oxide and their enhancement of photoinduced electron transfer in photoanodes. <i>Journal of Materials Chemistry</i> , 2011, 21, 18174.	6.7	53
14	Selective oxidation of sacrificial ethanol over TiO ₂ -based photocatalysts during water splitting. <i>Energy and Environmental Science</i> , 2011, 4, 3384.	15.6	107
15	Fundamental aspects of surface engineering of transition metal oxide photocatalysts. <i>Energy and Environmental Science</i> , 2011, 4, 3275.	15.6	251
16	Enhanced TiO ₂ surface electrochemistry with carbonised layer-by-layer cellulose-PDDA composite films. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 9857.	1.3	8
17	Visible-light-driven surface reconstruction of mesoporous TiO ₂ : toward visible-light absorption and enhanced photocatalytic activities. <i>Chemical Communications</i> , 2011, 47, 8584.	2.2	35
18	Effective increasing of optical absorption and energy conversion efficiency of anatase TiO ₂ nanocrystals by hydrogenation. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 18063.	1.3	92
19	Three-Dimensional High-Density Hierarchical Nanowire Architecture for High-Performance Photoelectrochemical Electrodes. <i>Nano Letters</i> , 2011, 11, 3413-3419.	4.5	223
20	A New Route to Size and Population Control of Silver Clusters on Colloidal TiO ₂ Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2228-2234.	4.0	49
21	Hydrothermal Growth of Layered Titanate Nanosheet Arrays on Titanium Foil and Their Topotactic Transformation to Heterostructured TiO ₂ Photocatalysts. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22276-22285.	1.5	111
22	Hydrogen Incorporation and Storage in Well-Defined Nanocrystals of Anatase Titanium Dioxide. <i>Journal of Physical Chemistry C</i> , 2011, 115, 25590-25594.	1.5	93
23	Tuning the Relative Concentration Ratio of Bulk Defects to Surface Defects in TiO ₂ Nanocrystals Leads to High Photocatalytic Efficiency. <i>Journal of the American Chemical Society</i> , 2011, 133, 16414-16417.	6.6	963
24	Simple pyrolysis of urea into graphitic carbon nitride with recyclable adsorption and photocatalytic activity. <i>Journal of Materials Chemistry</i> , 2011, 21, 14398.	6.7	1,410
25	Effects of H-, N-, and (H, N)-Doping on the Photocatalytic Activity of TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2011, 115, 12224-12231.	1.5	144
26	Hierarchical assembly of anatase nanowhiskers and evaluation of their photocatalytic efficiency in comparison to various one-dimensional TiO ₂ nanostructures. <i>Journal of Materials Chemistry</i> , 2011, 21, 11844.	6.7	42
27	Tuning TiO ₂ Photoelectrochemical Properties by Nanoring/Nanotube Combined Structure. <i>Journal of Physical Chemistry C</i> , 2011, 115, 14635-14640.	1.5	46
28	Reduced graphene oxide as capturer of dyes and electrons during photocatalysis: surface wrapping and capture promoted efficiency. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 13216.	1.3	94
29	Synthesis of mono-dispersed m-BiVO ₄ octahedral nano-crystals with enhanced visible light photocatalytic properties. <i>CrystEngComm</i> , 2011, 13, 6674.	1.3	57
30	Poly(3-hexylthiophene)/TiO ₂ Nanoparticle-Functionalized Electrodes for Visible Light and Low Potential Photoelectrochemical Sensing of Organophosphorus Pesticide Chlopyrifos. <i>Analytical Chemistry</i> , 2011, 83, 9681-9686.	3.2	155

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32	One-pot synthesis of N-F-Cr-doped anatase TiO ₂ microspheres with nearly all-(001) surface for enhanced solar absorption. <i>Nanoscale</i> , 2011, 3, 3915.	2.8	31
33	Visible-light-driven photocatalytic water splitting on nanostructured semiconducting materials. <i>International Journal of Nanotechnology</i> , 2011, 8, 523.	0.1	82
34	Hydrogen-Treated TiO ₂ Nanowire Arrays for Photoelectrochemical Water Splitting. <i>Nano Letters</i> , 2011, 11, 3026-3033.	4.5	2,344
35	Theoretical Investigation of the Hydrogenation of (TiO ₂) _N Clusters ($\langle i \rangle N \langle /i \rangle = 1 \hat{a} \text{€} 10$). <i>Journal of Physical Chemistry C</i> , 2011, 115, 15890-15899.	1.5	69
36	Preparation and characterization of visible light-driven AgCl/PPy photocatalyst. <i>Journal of Alloys and Compounds</i> , 2011, 509, 5677-5682.	2.8	37
37	Size-dependent photocatalytic reduction of CO ₂ with PbS quantum dot sensitized TiO ₂ heterostructured photocatalysts. <i>Journal of Materials Chemistry</i> , 2011, 21, 13452.	6.7	196
38	Nanoporous TiO ₂ spheres with narrow pore size distribution and improved visible light photocatalytic abilities. <i>Chemical Communications</i> , 2011, 47, 8025.	2.2	63
39	Closing the gap. <i>Nature Chemistry</i> , 2011, 3, 271-272.	6.6	74
40	Photocatalytic decomposition of toluene by nanodiamond-supported TiO ₂ prepared using atomic layer deposition. <i>Applied Catalysis A: General</i> , 2011, 408, 148-155.	2.2	45
41	Er ³⁺ doped bismuth molybdate nanosheets with exposed {010} facets and enhanced photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2011, 110, 221-230.	10.8	119
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43	Light-driven bioinspired water splitting: Recent developments in photoelectrode materials. <i>Comptes Rendus Chimie</i> , 2011, 14, 799-810.	0.2	20
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45	Size effect on the conduction band orbital character of anatase TiO ₂ nanocrystals. <i>Applied Physics Letters</i> , 2011, 99, 183101.	1.5	32
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47	How the Anatase-to-Rutile Ratio Influences the Photoreactivity of TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2011, 115, 24287-24292.	1.5	248
48	Visible-light active nanohybrid TiO ₂ /carbon photocatalysts with programmed morphology by direct carbonization of block copolymer templates. <i>Green Chemistry</i> , 2011, 13, 3397.	4.6	44

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52	Synthesis of Nanostructured Reduced Titanium Oxide: Crystal Structure Transformation Maintaining Nanomorphology. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7418-7421.	7.2	110
53	A Highly Active Titanium Dioxide Based Visible-Light Photocatalyst with Nonmetal Doping and Plasmonic Metal Decoration. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7088-7092.	7.2	290
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55	Ion motion and electrochemistry in nanostructures. <i>MRS Bulletin</i> , 2011, 36, 914-920.	1.7	7
56	$\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{Ti} \langle \text{mml:mtext} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle \text{SrTiO} \langle \text{mml:math} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle (001)$ the Surface of Titanium Dioxide: Generation, Properties and Photocatalytic Application. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-13.	1.5	326
57	Ultrafast Charge Carrier Dynamics and Photoelectrochemical Properties of Hydrogen-treated TiO ₂ Nanowire Arrays. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1387, 1.	0.1	5
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63	Controlled Synthesis of Heterogeneous Metal-Titania Nanostructures and Their Applications. <i>Journal of the American Chemical Society</i> , 2012, 134, 17505-17512.	6.6	67
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66	Green Synthesis of Biphasic TiO ₂ -Reduced Graphene Oxide Nanocomposites with Highly Enhanced Photocatalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3893-3901.	4.0	509
67	Titanium, zirconium, hafnium. <i>Annual Reports on the Progress of Chemistry Section A</i> , 2012, 108, 146.	0.8	2
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70	Mesoporous Hollow Sphere Titanium Dioxide Photocatalysts through Hydrothermal Silica Etching. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6062-6070.	4.0	67
71	Effects of Interface Defects on Charge Transfer and Photoinduced Properties of TiO ₂ Bilayer Films. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25354-25361.	1.5	66
72	Coincorporation of N and Ta into TiO ₂ Nanowires for Visible Light Driven Photoelectrochemical Water Oxidation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23283-23290.	1.5	64
73	Stepwise Photocatalytic Dissociation of Methanol and Water on TiO ₂ (110). <i>Journal of the American Chemical Society</i> , 2012, 134, 13366-13373.	6.6	244
74	Enhanced Raman Spectroscopy of Molecules Adsorbed on Carbon-Doped TiO ₂ Obtained from Titanium Carbide: A Visible-Light-Assisted Renewable Substrate. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3818-3828.	4.0	72
75	Magnetic composite microspheres with exposed {001} faceted TiO ₂ shells: a highly active and selective visible-light photocatalyst. <i>Journal of Materials Chemistry</i> , 2012, 22, 13341.	6.7	46
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81	Photocatalytic Conversion of Diluted CO ₂ into Light Hydrocarbons Using Periodically Modulated Multiwalled Nanotube Arrays. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12732-12735.	7.2	150
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85	WO ₃ photocatalysts: Influence of structure and composition. <i>Journal of Catalysis</i> , 2012, 294, 119-127.	3.1	299
86	Oxidation of thin Ti films and its simultaneous hydrogenation by water vapor plasma. <i>Thin Solid Films</i> , 2012, 524, 133-136.	0.8	5
87	Enhancing the photocatalytic efficiency of TiO ₂ nanopowders for H ₂ production by using non-noble transition metal co-catalysts. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11596.	1.3	123
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89	Nanostructured Titania: the current and future promise of Titania nanotubes. <i>Catalysis Science and Technology</i> , 2012, 2, 1617.	2.1	20

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91	Enhanced field emission from hydrogenated TiO ₂ nanotube arrays. <i>Nanotechnology</i> , 2012, 23, 455204.	1.3	94
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96	Tuning the reduction power of supported gold nanoparticle photocatalysts for selective reductions by manipulating the wavelength of visible light irradiation. <i>Chemical Communications</i> , 2012, 48, 3509.	2.2	110
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129	Facile Synthesis of an Ag ₂ O@ZnO Nanohybrid and Its High Photocatalytic Activity. <i>ChemPlusChem</i> , 2012, 77, 931-935.	1.3	43
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132	Hydrogenated TiO ₂ Nanotube Arrays for Supercapacitors. <i>Nano Letters</i> , 2012, 12, 1690-1696.	4.5	1,226
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145	Solar absorption and microstructure of C-doped and H-co-doped TiO ₂ thin films. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 385305.	1.3	18
146	Spontaneous Dissociation of CO ₂ to CO on Defective Surface of Cu(I)/TiO ₂ Nanoparticles at Room Temperature. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7904-7912.	1.5	262
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752	Well-controlled metal co-catalysts synthesised by chemical vapour impregnation for photocatalytic hydrogen production and water purification. <i>Dalton Transactions</i> , 2014, 43, 14976-14982.	1.6	9
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755	Rapid formation of black titania photoanodes: pulsed laser-induced oxygen release and enhanced solar water splitting efficiency. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6762-6771.	5.2	52
756	Interaction of hydrogen with defects in ZnO nanoparticles studied by positron annihilation, Raman and photoluminescence spectroscopy. <i>CrystEngComm</i> , 2014, 16, 1207.	1.3	49
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762	Oxygen Vacancy Enhanced Photocatalytic Activity of Perovskite SrTiO ₃ . <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19184-19190.	4.0	608
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767	Safe and facile hydrogenation of commercial Degussa P25 at room temperature with enhanced photocatalytic activity. <i>RSC Advances</i> , 2014, 4, 1128-1132.	1.7	130
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775	O ₂ Adsorption and Dissociation on A Hydrogenated Anatase (101) Surface. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3471-3482.	1.5	34
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777	One-pot synthesis of Ag/AgCl@SiO ₂ core-shell plasmonic photocatalyst in natural geothermal water for efficient photocatalysis under visible light. <i>Journal of Molecular Catalysis A</i> , 2014, 393, 30-38.	4.8	34
778	Doping of wide-bandgap titanium-dioxide nanotubes: optical, electronic and magnetic properties. <i>Nanoscale</i> , 2014, 6, 10839-10849.	2.8	33
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1737	Defect-rich ZnO nanosheets of high surface area as an efficient visible-light photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2016, 192, 8-16.	10.8	231
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1745	Effect of Ti ³⁺ Ions and Conduction Band Electrons on Photocatalytic and Photoelectrochemical Activity of Rutile Titania for Water Oxidation. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6467-6474.	1.5	147
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1748	Synthesis of V ₂ O ₅ @TiO ₂ core-shell hybrid composites for sunlight degradation of methylene blue. <i>RSC Advances</i> , 2016, 6, 34103-34109.	1.7	36
1749	Band Structure Engineering: Insights from Defects, Band Gap, and Electron Mobility, from Study of Magnesium Tantalate. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6930-6937.	1.5	26
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2170	A novel and facile synthesis of black TiO ₂ with improved visible-light photocatalytic H ₂ generation: Impact of surface modification with CTAB on morphology, structure and property. <i>Applied Surface Science</i> , 2017, 426, 325-332.	3.1	33
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2177	The distribution of excess carriers and their effects on water dissociation on rutile (110) surface. <i>Computational Materials Science</i> , 2017, 136, 150-156.	1.4	4
2178	Metal Organic Frameworks: A New Generation Coordination Polymers for Visible Light Photocatalysis. <i>ChemistrySelect</i> , 2017, 2, 6163-6177.	0.7	23
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2505	Oxygen vacancy regulation on tungsten oxides with specific exposed facets for enhanced visible-light-driven photocatalytic oxidation. <i>Nanoscale</i> , 2018, 10, 2908-2915.	2.8	92
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2513	Black TiO ₂ with stable surface oxygen vacancies as the support of efficient gold catalysts for water-gas shift reaction. <i>Catalysis Science and Technology</i> , 2018, 8, 1277-1287.	2.1	52
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2517	Enhanced visible photocatalytic activity of TiO ₂ hollow boxes modified by methionine for RhB degradation and NO oxidation. <i>Chinese Journal of Catalysis</i> , 2018, 39, 736-746.	6.9	43
2518	Designer hydrogenated wrinkled yolk@shell TiO ₂ architectures towards advanced visible light photocatalysts for selective alcohol oxidation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8962-8968.	5.2	25
2519	Photocatalytic degradation of methylene blue over boron-doped g-C ₃ N ₄ together with nitrogen-vacancies under visible light irradiation. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2018, 125, 1179-1190.	0.8	22
2520	Hydrogen evolution with CsPbBr ₃ perovskite nanocrystals under visible light in solution. <i>Materials Today Communications</i> , 2018, 16, 90-96.	0.9	30
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2532	A photochemical diode artificial photosynthesis system for unassisted high efficiency overall pure water splitting. Nature Communications, 2018, 9, 1707.	5.8	123
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2535	Fabrication of three-dimensional porous La-doped SrTiO ₃ microspheres with enhanced visible light catalytic activity for Cr(VI) reduction. Frontiers of Chemical Science and Engineering, 2018, 12, 440-449.	2.3	23
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2542	Sustainable photocatalytic activities of visible-light sensitive N-doped TiO ₂ microspheres with permeable silica shells. <i>Applied Catalysis A: General</i> , 2018, 558, 9-17.	2.2	12
2543	Rice spike-like g-C ₃ N ₄ /TiO ₂ heterojunctions with tight-binding interface by using sodium titanate ultralong nanotube as precursor and template. <i>Ceramics International</i> , 2018, 44, 8125-8132.	2.3	19
2544	Density functional theory study of atomic and electronic properties of defects in reduced anatase TiO ₂ nanocrystals. <i>AIP Advances</i> , 2018, 8, .	0.6	22
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2548	Laser sintering of screen-printed TiO ₂ nanoparticles for improvement of mechanical and electrical properties. <i>Ceramics International</i> , 2018, 44, 10975-10983.	2.3	4
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2550	The effects of sodium content and hydrogenation of TiO ₂ nanotubes on photocatalytic activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 358, 226-235.	2.0	4
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2552	BIOX (X = Cl, Br, I) photocatalytic nanomaterials: Applications for fuels and environmental management. <i>Advances in Colloid and Interface Science</i> , 2018, 254, 76-93.	7.0	422
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2559	The Effects of Hydrogenation on Graphitic C ₃ N ₄ Nanosheets for Enhanced Photocatalytic Activity. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700038.	1.2	52
2560	Enhanced photoelectrochemical CO ₂ -reduction system based on mixed Cu ₂ O nonstoichiometric TiO ₂ photocathode. <i>Catalysis Today</i> , 2018, 300, 145-151.	2.2	44
2561	Constructing 2D layered MoS ₂ nanosheets-modified Z-scheme TiO ₂ /WO ₃ nanofibers ternary nanojunction with enhanced photocatalytic activity. <i>Applied Surface Science</i> , 2018, 430, 466-474.	3.1	92
2562	Direct photoelectrochemical characterization of photocatalytic H, N doped TiO ₂ powder suspensions. <i>Journal of Electroanalytical Chemistry</i> , 2018, 819, 38-45.	1.9	10
2563	A facile preparation of TiO ₂ /ACF with C-Ti bond and abundant hydroxyls and its enhanced photocatalytic activity for formaldehyde removal. <i>Applied Surface Science</i> , 2018, 427, 608-616.	3.1	65
2564	Marginally Hydrogenated Triphasic Titania Nanotubes for Effective Visible-Light Photocatalytic Hydrogen Generation. <i>Energy Technology</i> , 2018, 6, 280-288.	1.8	9
2565	The roles of surface oxygen vacancy over Mg ₄ Ta ₂ O _{9-x} photocatalyst in enhancing visible-light photocatalytic hydrogen evolution performance. <i>Catalysis Communications</i> , 2018, 103, 29-33.	1.6	8
2566	Solvothermal synthesis of metallic 1T-WS ₂ : A supporting co-catalyst on carbon nitride nanosheets toward photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2018, 335, 282-289.	6.6	161
2567	Synthesis of black TiO ₂ with efficient visible-light photocatalytic activity by ultraviolet light irradiation and low temperature annealing. <i>Materials Research Bulletin</i> , 2018, 98, 280-287.	2.7	56
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2569	Ti ³⁺ self-doped TiO ₂ via facile catalytic reduction over Al(acac) ₃ with enhanced photoelectrochemical and photocatalytic activities. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 715-724.	10.8	54
2570	Crystalline-amorphous Co@CoO core-shell heterostructures for efficient electro-oxidation of hydrazine. <i>Materials Chemistry Frontiers</i> , 2018, 2, 96-101.	3.2	29
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2572	Efficient promotion of charge transfer and separation in hydrogenated TiO ₂ /WO ₃ with rich surface-oxygen-vacancies for photodecomposition of gaseous toluene. <i>Journal of Hazardous Materials</i> , 2018, 342, 661-669.	6.5	99
2573	A novel anode with anticorrosive coating for efficient degradation of toluene. <i>Chemical Engineering Journal</i> , 2018, 334, 206-215.	6.6	27
2574	Hydrogenated TiO ₂ @reduced graphene oxide sandwich-like nanosheets for high voltage supercapacitor applications. <i>Carbon</i> , 2018, 126, 135-144.	5.4	68
2575	Defect pair formation in fluorine and nitrogen codoped TiO ₂ . <i>Journal of Applied Physics</i> , 2018, 123, 161510.	1.1	9

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2577	Metal-organic frameworks for solar energy conversion by photoredox catalysis. <i>Coordination Chemistry Reviews</i> , 2018, 373, 83-115.	9.5	146
2578	Nanohybrids of Two-Dimensional Transition-Metal Dichalcogenides and Titanium Dioxide for Photocatalytic Applications. <i>Chemistry - A European Journal</i> , 2018, 24, 18-31.	1.7	53
2579	Local coulomb attraction for enhanced H ₂ evolution stability of metal sulfide photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 152-157.	10.8	18
2580	Improved photoelectrocatalytic hydrogen generation through BiVO ₄ quantum-dots loaded on nano-structured SnO ₂ and modified with carbon quantum-dots. <i>Chemical Engineering Journal</i> , 2018, 331, 48-53.	6.6	39
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2582	Photocatalytic hydrogen evolution of palladium nanoparticles decorated black TiO ₂ calcined in argon atmosphere. <i>Applied Surface Science</i> , 2018, 430, 407-414.	3.1	39
2583	The broad emission at 785 nm in YAG:Ce ³⁺ ,Cr ³⁺ phosphor. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 190, 76-80.	2.0	18
2584	The black and white coatings on Ti-6Al-4V alloy or pure titanium by plasma electrolytic oxidation in concentrated silicate electrolyte. <i>Applied Surface Science</i> , 2018, 428, 684-697.	3.1	66
2585	Enhanced catalytic performance by oxygen vacancy and active interface originated from facile reduction of OMS-2. <i>Chemical Engineering Journal</i> , 2018, 331, 626-635.	6.6	100
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2589	A facile photoassisted route to synthesis N, F-codoped oxygen-deficient TiO ₂ with enhanced photocatalytic performance under visible light irradiation. <i>Applied Surface Science</i> , 2018, 434, 725-734.	3.1	23
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2591	Distinctive defects engineering in graphitic carbon nitride for greatly extended visible light photocatalytic hydrogen evolution. <i>Nano Energy</i> , 2018, 44, 73-81.	8.2	386
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2834	Single-step rapid aerosol synthesis of N-doped TiO ₂ for enhanced visible light photocatalytic activity. <i>Catalysis Communications</i> , 2018, 113, 1-5.	1.6	52
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2869	Metal-semiconductor ternary hybrids for efficient visible-light photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13225-13235.	5.2	37
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3193	Intrinsic intermediate gap states of TiO ₂ materials and their roles in charge carrier kinetics. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2019, 39, 1-57.	5.6	70
3194	Cobalt oxide-based nanoarchitectures for electrochemical energy applications. <i>Progress in Materials Science</i> , 2019, 103, 596-677.	16.0	166
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3247	A novel black TiO ₂ /ZnO nanocone arrays heterojunction on carbon cloth for highly efficient photoelectrochemical performance. <i>Frontiers of Materials Science</i> , 2019, 13, 43-53.	1.1	8
3248	S-, N- and C-doped ZnO as semiconductor photocatalysts: A review. <i>Frontiers of Materials Science</i> , 2019, 13, 1-22.	1.1	109
3249	Hydrogenated F-doped TiO ₂ for photocatalytic hydrogen evolution and pollutant degradation. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 8011-8019.	3.8	79
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3259	Anionic defect engineering of transition metal oxides for oxygen reduction and evolution reactions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5875-5897.	5.2	252
3260	Disordered surface formation of WS ₂ via hydrogen plasma with enhanced anode performances for lithium and sodium ion batteries. <i>Sustainable Energy and Fuels</i> , 2019, 3, 865-874.	2.5	19
3261	Synthesis and photocatalytic performance of recyclable core-shell mesoporous Fe ₃ O ₄ @Bi ₂ WO ₆ nanoparticles. <i>Materials Research Bulletin</i> , 2019, 113, 223-230.	2.7	21
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3364	Enhanced visible-light-driven photocatalytic activity of BiFeO ₃ via electric-field control of spontaneous polarization. <i>Journal of Alloys and Compounds</i> , 2019, 783, 943-951.	2.8	48
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3375	Isomerism in Titanium μ Oxo Clusters: Molecular Anatase Model with Atomic Structure and Improved Photocatalytic Activity. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1320-1323.	7.2	121
3376	Recent progress in photocatalysts for overall water splitting. <i>International Journal of Energy Research</i> , 2019, 43, 1082-1098.	2.2	72
3377	Black TiO ₂ nanotube arrays decorated with Ag nanoparticles for enhanced visible-light photocatalytic oxidation of salicylic acid. <i>Journal of Alloys and Compounds</i> , 2019, 776, 883-896.	2.8	60
3378	Isotype heterojunction g-C ₃ N ₄ /g-C ₃ N ₄ nanosheets as 2D support to highly dispersed OD metal oxide nanoparticles: Generalized self-assembly and its high photocatalytic activity. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 025501.	1.3	46
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3380	Hydrogen atom etching induced large-size ultrathin g-C ₃ N ₄ nanosheets for enhanced photoluminescence. <i>Journal of Luminescence</i> , 2019, 206, 660-665.	1.5	14
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3382	Oxygen vacancies in TiO ₂ /SnO coatings prepared by ball milling followed by calcination and their influence on the photocatalytic activity. <i>Applied Surface Science</i> , 2019, 466, 490-497.	3.1	24
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3387	Phosphor and nitrogen co-doped rutile TiO ₂ covered on TiN for oxygen reduction reaction in acidic media. <i>Catalysis Science and Technology</i> , 2019, 9, 611-619.	2.1	14
3388	Photoelectrocatalytic oxidation of methanol over RuO ₂ MnO ₂ Co ₃ O ₄ supported porous anatase under visible light irradiation. <i>Materials Chemistry and Physics</i> , 2019, 224, 196-205.	2.0	4
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3393	Ag-Ag ₂ S quantum-dots modified TiO ₂ nanorod arrays with enhanced photoelectrochemical and photocatalytic properties. <i>Journal of Alloys and Compounds</i> , 2019, 780, 347-354.	2.8	21
3394	Advanced Near-Infrared Light-Responsive Nanomaterials as Therapeutic Platforms for Cancer Therapy. <i>Advanced Therapeutics</i> , 2019, 2, 1800090.	1.6	27
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3396	High sub-band gap response of TiO ₂ nanorod arrays for visible photoelectrochemical water oxidation. <i>Applied Surface Science</i> , 2019, 465, 192-200.	3.1	24
3397	In-situ hydrogenation engineering of ZnIn ₂ S ₄ for promoted visible-light water splitting. <i>Applied Catalysis B: Environmental</i> , 2019, 241, 483-490.	10.8	98
3398	Facial fabrication of carbon quantum dots (CDs)-modified N-TiO ₂ -x nanocomposite for the efficient photoreduction of Cr(VI) under visible light. <i>Chemical Engineering Journal</i> , 2019, 357, 473-486.	6.6	123
3399	A solid-state chemical reduction approach to synthesize graphitic carbon nitride with tunable nitrogen defects for efficient visible-light photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2019, 535, 331-340.	5.0	79
3400	Sulfate radicals generation and refractory pollutants removal on defective facet-tailored TiO ₂ with reduced matrix effects. <i>Chemical Engineering Journal</i> , 2019, 358, 243-252.	6.6	12
3401	Efficient suspension plasma spray fabrication of black titanium dioxide coatings with visible light absorption performances. <i>Ceramics International</i> , 2019, 45, 930-935.	2.3	16
3402	The enhancement of photocatalytic hydrogen production via Ti ³⁺ self-doping black TiO ₂ /g-C ₃ N ₄ hollow core-shell nano-heterojunction. <i>Applied Catalysis B: Environmental</i> , 2019, 242, 92-99.	10.8	416
3403	Enhanced photocatalytic hydrogen production over conjugated polymer/black TiO ₂ hybrid: The impact of constructing active defect states. <i>Applied Surface Science</i> , 2019, 465, 288-296.	3.1	26
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3406	Uniform Mesoporous Anatase Hollow Spheres: An Unexpectedly Efficient Fabrication Process and Enhanced Performance in Photocatalytic Hydrogen Evolution. <i>Chemistry - A European Journal</i> , 2019, 25, 10965-10970.	1.7	13
3407	Core-shell structured TiO ₂ as highly efficient visible light photocatalyst for dye degradation. <i>Catalysis Today</i> , 2020, 341, 90-95.	2.2	51
3408	TiO ₂ -Based Photocatalysis at the Interface with Biology and Biomedicine. <i>ChemBioChem</i> , 2020, 21, 294-309.	1.3	22
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3411	Recent advances in earth-abundant photocatalyst materials for solar H ₂ production. <i>Advanced Powder Technology</i> , 2020, 31, 11-28.	2.0	64
3412	Enhanced visible light-driven photodegradation of rhodamine B by Ti ³⁺ self-doped TiO ₂ @Ag nanoparticles prepared using Ti vapor annealing. <i>Journal of Materials Science</i> , 2020, 55, 701-712.	1.7	23
3413	Oxygen-deficient WO ₃ ·x nanoplatt array film photoanode for efficient photoelectrocatalytic water decontamination. <i>Chemical Engineering Journal</i> , 2020, 381, 122740.	6.6	45
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3842	A Hydrogen-Deficient Nickel-Cobalt Double Hydroxide for Photocatalytic Overall Water Splitting. <i>Angewandte Chemie</i> , 2020, 132, 11607-11612.	1.6	6
3843	One-step electrochemical deposition of thin film titanium suboxide in basic titanyl sulfate solution at room temperature. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 975-986.	1.2	6
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3958	Visible-Light Responsive TiO ₂ -Based Materials for Efficient Solar Energy Utilization. <i>Advanced Energy Materials</i> , 2021, 11, 2003303.	10.2	118
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3960	Fabrication of electrochemically-modified BiVO ₄ -MoS ₂ -Co ₃ O ₄ composite film for bisphenol A degradation. <i>Journal of Environmental Sciences</i> , 2021, 102, 341-351.	3.2	16
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3968	Rutile TiO ₂ nanorod with anomalous resonance for charge storage and frequency selective absorption. <i>Ceramics International</i> , 2021, 47, 2016-2021.	2.3	9
3969	One-step hydrothermal synthesis of S-defect-controlled ZnIn ₂ S ₄ microflowers with improved kinetics process of charge-carriers for photocatalytic H ₂ evolution. <i>Journal of Energy Chemistry</i> , 2021, 58, 397-407.	7.1	100
3970	Growth of Black TiO ₂ Quantum Dots by Solution-Based Electrochemical Process. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, .	0.8	6
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3982	Peroxydisulfate Activation and Singlet Oxygen Generation by Oxygen Vacancy for Degradation of Contaminants. <i>Environmental Science & Technology</i> , 2021, 55, 2110-2120.	4.6	252
3983	Photoantioxidant and antibiofilm studies of green synthesized Sn-doped CeO ₂ nanoparticles using aqueous leaf extracts of <i>Pometia pinnata</i> . <i>New Journal of Chemistry</i> , 2021, 45, 7816-7829.	1.4	29
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3990	Co-crystal of Ti ₄ Ni ₂ and Ti ₈ Ni ₄ clusters with enhanced photochemical properties. <i>CrystEngComm</i> , 2021, 23, 4402-4407.	1.3	7
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4039	Preparation of black-titanium dioxide nanotubes by thermal decomposition of sodium borohydride. <i>Acta Mathematica Spalatensis</i> , 2021, 7, 71-81.	0.1	2
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4041	Physical properties of PVDF-GO/black-TiO ₂ nanofibers and its photocatalytic degradation of methylene blue and malachite green dyes. <i>Environmental Science and Pollution Research</i> , 2021, 28, 30613-30625.	2.7	17
4042	Photocatalytic hydrogen evolution from biomass conversion. <i>Nano Convergence</i> , 2021, 8, 6.	6.3	75
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4060	Covalent Organic Framework-Titanium Oxide Nanocomposite for Enhanced Sonodynamic Therapy. <i>Bioconjugate Chemistry</i> , 2021, 32, 661-666.	1.8	26
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4069	Grey facet-controlled anatase nanosheets for photocatalytic H_2 evolution without co-catalyst. <i>JPhys Energy</i> , 2021, 3, 034003.	2.3	6
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4082	Design of dye-sensitized TiO ₂ materials for photocatalytic hydrogen production: light and shadow. <i>JPhys Energy</i> , 2021, 3, 031001.	2.3	28
4083	Rational Construction of Light-Driven Catalysts for CO ₂ Reduction. <i>Energy & Fuels</i> , 2021, 35, 5696-5715.	2.5	18
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4086	Portable wastewater treatment system based on synergistic photocatalytic and persulphate degradation under visible light. <i>Science China Materials</i> , 2021, 64, 1952-1963.	3.5	6

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4088	Preparation and application of defective graphite phase carbon nitride photocatalysts. <i>Chinese Science Bulletin</i> , 2021, , .	0.4	1
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4092	Self-Stabilization Effect and Selective-Area Effect in Electron-Proton Synergistic Doping. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2349-2354.	2.0	5
4093	A Z-scheme iron-based hollow microsphere with enhanced photocatalytic performance for tetracycline degradation. <i>Journal of Materials Research</i> , 2021, 36, 1600-1613.	1.2	4
4094	Recent advances of layered-transition metal oxides for energy-related applications. <i>Energy Storage Materials</i> , 2021, 36, 514-550.	9.5	76
4095	Fluorine-Induced Surface Metallization for Ammonia Synthesis under Photoexcitation up to 1550-nm. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11173-11179.	7.2	21
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4102	Vacancy Engineering in Semiconductor Photocatalysts: Implications in Hydrogen Evolution and Nitrogen Fixation Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2009807.	7.8	166
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4106	Novel visible-light-responsive Black-TiO ₂ /CoTiO ₃ Z-scheme heterojunction photocatalyst with efficient photocatalytic performance for the degradation of different organic dyes and tetracycline. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 121, 168-183.	2.7	34
4107	Operando Raman and UV-Vis spectroscopic investigation of the coloring and bleaching mechanism of self-powered photochromic devices for smart windows. <i>Nano Energy</i> , 2021, 82, 105721.	8.2	34
4108	Enhanced photocatalytic water splitting with surface defective SrTiO ₃ nanocrystals. <i>Frontiers in Energy</i> , 2021, 15, 700-709.	1.2	12
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4111	Defect engineering in oxides by liquid Na-K alloy for oxygen evolution reaction. <i>Applied Surface Science</i> , 2021, 544, 148813.	3.1	7
4112	Facile Construction of Carbon Dots Layer and Oxygen Vacancies Simultaneously onto TiO ₂ to Enhance Photoreduction Activity. <i>Chinese Journal of Chemistry</i> , 2021, 39, 1310-1318.	2.6	9
4113	Defect Engineering in 2D Photocatalytic Materials for CO ₂ Reduction. <i>ChemNanoMat</i> , 2021, 7, 737-747.	1.5	9
4114	Phosphatized GaZnInON nanocrystals with core-shell structures for efficient and stable pure water splitting via four-electron photocatalysis. <i>Chemical Engineering Journal</i> , 2021, 410, 128391.	6.6	15
4115	The interaction of the pulsed laser irradiation with titania nanotubes - Theoretical studies on the thermal effect. <i>International Journal of Thermal Sciences</i> , 2021, 162, 106800.	2.6	5
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4558	Shed light on defect induced enhanced visible-light photocatalysis activity of rutile TiO ₂ nanoparticles: effects of annealing on blue-gray to light-gray transition. <i>Journal of Materials Research and Technology</i> , 2022, 17, 2400-2409.	2.6	2
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4560	Computation-assisted performance optimization for photoelectrochemical photoelectrodes. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	4
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