

Bunsho Ohtani

List of Publications by Year in Descending Order

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

262
papers

14,224
citations

63
h-index

111
g-index

268
ext. papers

15,406
ext. citations

5.5
avg. IF

6.71
L-index

#	Paper	IF	Citations
262	Visible light-driven ZnCr double layer oxide photocatalyst composites with fly ashes for the degradation of ciprofloxacin. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 106970	6.8	7
261	Fabrication of graphitic carbon nitride/ZnTi-mixed metal oxide heterostructure: Robust photocatalytic decomposition of ciprofloxacin. <i>Journal of Alloys and Compounds</i> , 2022 , 906, 164294	5.7	2
260	Fabrication and Characterization of Inverse-Opal Titania Films for Enhancement of Photocatalytic Activity. <i>ChemEngineering</i> , 2022 , 6, 33	2.6	
259	Bi ₂ WO ₆ -based Z-scheme photocatalysts: Principles, mechanisms and photocatalytic applications. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107838	6.8	0
258	Photoacoustic Spectroscopy. <i>Springer Handbooks</i> , 2022 , 303-313	1.3	
257	Fabrication of Adsorbed Fe(III) and Structurally Doped Fe(III) in Montmorillonite/TiO ₂ Composite for Photocatalytic Degradation of Phenol. <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 1381	2.4	3
256	Combined Spectroscopic Methods of Determination of Density of Electronic States: Comparative Analysis of Diffuse Reflectance Spectroelectrochemistry and Reversed Double-Beam Photoacoustic Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 3019-3025	6.4	5
255	Slow Photon-induced Enhancement of Photocatalytic Activity of Gold Nanoparticle-incorporated Titania Inverse Opal. <i>Chemistry Letters</i> , 2021 , 50, 711-713	1.7	7
254	A promising Zn-Ti layered double hydroxide/Fe-bearing montmorillonite composite as an efficient photocatalyst for Cr(VI) reduction: Insight into the role of Fe impurity in montmorillonite. <i>Applied Surface Science</i> , 2021 , 546, 148835	6.7	13
253	Direct Amorphous-structure Analysis: How are Surface/Bulk Structure and Activity of Titania Photocatalyst Particles Changed by Milling?. <i>Chemistry Letters</i> , 2021 , 50, 644-648	1.7	6
252	Do Particles Interact Electronically? Proof of Interparticle Charge-transfer Excitation between Adjoined Anatase and Rutile Particles. <i>Chemistry Letters</i> , 2021 , 50, 80-83	1.7	6
251	The role of the shell in core-shell-structured La-doped NaTaO photocatalysts. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 8868-8879	3.6	6
250	On the mechanism of photocatalytic reactions on Cu _x O@TiO ₂ core-shell photocatalysts. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 10135-10145	13	12
249	Mono- and bimetallic (Pt/Cu) titanium(IV) oxide core-shell photocatalysts with UV/Vis light activity and magnetic separability. <i>Catalysis Today</i> , 2021 , 361, 198-209	5.3	13
248	TiO ₂ /Au/TiO ₂ plasmonic photocatalyst with enhanced photocatalytic activity and stability under visible-light irradiation. <i>Catalysis Today</i> , 2021 ,	5.3	2
247	Does Symmetry Control Photocatalytic Activity of Titania-Based Photocatalysts?. <i>Symmetry</i> , 2021 , 13, 1682	2.7	2
246	Impact of Doping and Additive Applications on Photocatalyst Textural Properties in Removing Organic Pollutants: A Review. <i>Catalysts</i> , 2021 , 11, 1160	4	3

245	Cubic Cu ₂ O nanoparticles decorated on TiO ₂ nanofiber heterostructure as an excellent synergistic photocatalyst for H ₂ production and sulfamethoxazole degradation. <i>Applied Catalysis B: Environmental</i> , 2021 , 294, 120221	21.8	28
244	In situ Blue titania via band shape engineering for exceptional solar H ₂ production in rutile TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2021 , 297, 120380	21.8	28
243	Substitutionally rhodium(IV)-doped titania showing photocatalytic activity toward organics oxidation under visible-light irradiation. <i>Catalysis Today</i> , 2021 , 380, 25-31	5.3	1
242	Single-step synthesis of oxygen-doped hollow porous graphitic carbon nitride for photocatalytic ciprofloxacin decomposition. <i>Chemical Engineering Journal</i> , 2021 , 425, 130502	14.7	13
241	How Do Ionic Liquids Affect the Surface Structure of Titania Photocatalyst? An Electron-Trap Distribution-Analysis Study. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 28143-28149	3.8	1
240	Co-Catalytic Action of Faceted Non-Noble Metal Deposits on Titania Photocatalyst for Multielectron Oxygen Reduction. <i>Catalysts</i> , 2020 , 10, 1145	4	
239	Elucidation of the electron energy structure of TiO(B) and anatase photocatalysts through analysis of electron trap density.. <i>RSC Advances</i> , 2020 , 10, 18496-18501	3.7	7
238	Fabrication and characterization of ternary sepiolite/g-CN/Pd composites for improvement of photocatalytic degradation of ciprofloxacin under visible light irradiation. <i>Journal of Colloid and Interface Science</i> , 2020 , 577, 397-405	9.3	30
237	Enhanced Solar Photothermal Catalysis over Solution Plasma Activated TiO. <i>Advanced Science</i> , 2020 , 7, 2000204	13.6	38
236	Water-Splitting Activity of La-Doped NaTaO ₃ Photocatalysts Sensitive to Spatial Distribution of Dopants. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 15285-15294	3.8	7
235	Energy-resolved distribution of electron traps for O/S-doped carbon nitrides by reversed double-beam photoacoustic spectroscopy and the photocatalytic reduction of Cr(vi). <i>Chemical Communications</i> , 2020 , 56, 3793-3796	5.8	19
234	Importance of ZnTiO Phase in ZnTi-Mixed Metal Oxide Photocatalysts Derived from Layered Double Hydroxide. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 9169-9180	9.5	23
233	Octahedral Anatase Titania as Efficient Photocatalyst: Influence of Preparation Conditions. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 1278-1287	1.3	0
232	Vis-Responsive Copper-Modified Titania for Decomposition of Organic Compounds and Microorganisms. <i>Catalysts</i> , 2020 , 10, 1194	4	2
231	Heterojunction of CuO nanoclusters with TiO for photo-oxidation of organic compounds and for hydrogen production. <i>Journal of Chemical Physics</i> , 2020 , 153, 034705	3.9	11
230	Mono- and bimetallic (Pt/Cu) titanium(IV) oxide photocatalysts. Physicochemical and photocatalytic data of magnetic nanocomposites Pshell. <i>Data in Brief</i> , 2020 , 31, 105814	1.2	2
229	Catalytic activities of titania-supported nickel for carbon-dioxide methanation. <i>Chemical Engineering Science</i> , 2020 , 228, 115955	4.4	13
228	Light intensity-dependence studies on the role of surface deposits for titania-photocatalyzed oxygen evolution: Are they really cocatalysts?. <i>Journal of Chemical Physics</i> , 2020 , 153, 124709	3.9	2

227	Photothermal Catalysis: Enhanced Solar Photothermal Catalysis over Solution Plasma Activated TiO ₂ (Adv. Sci. 16/2020). <i>Advanced Science</i> , 2020 , 7, 2070092	13.6	2
226	Photonic Crystals for Plasmonic Photocatalysis. <i>Catalysts</i> , 2020 , 10, 827	4	14
225	Crystallization of well-defined anatase nanoparticles in SBA-15 for the photocatalytic decomposition of acetic acid.. <i>RSC Advances</i> , 2020 , 10, 32350-32356	3.7	2
224	Optically Transparent Colloidal Dispersion of Titania Nanoparticles Storable for Longer than One Year Prepared by Sol/Gel Progressive Hydrolysis/Condensation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44743-44753	9.5	5
223	Photoinduced anisotropic distortion as the electron trapping site of tungsten trioxide by ultrafast W L-edge X-ray absorption spectroscopy with full potential multiple scattering calculations. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 2615-2621	3.6	10
222	Inhibition of Fungal Growth Using Modified TiO with Core@Shell Structure of Ag@CuO Clusters.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 5626-5633	4.1	14
221	Effects of energetics with {001} facet-dominant anatase TiO ₂ scaffold on electron transport in CH ₃ NH ₃ PbI ₃ perovskite solar cells. <i>Electrochimica Acta</i> , 2019 , 300, 445-454	6.7	11
220	Visible-light-induced water splitting on a hierarchically constructed Z-scheme photocatalyst composed of zinc rhodium oxide and bismuth vanadate. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10372-10378 ¹³ 10378 ¹²		
219	Morphology- and Crystalline Composition-Governed Activity of Titania-Based Photocatalysts: Overview and Perspective. <i>Catalysts</i> , 2019 , 9, 1054	4	27
218	Carbon/Graphene-Modified Titania with Enhanced Photocatalytic Activity under UV and Vis Irradiation. <i>Materials</i> , 2019 , 12,	3.5	13
217	Correlation of the Photocatalytic Activities of Cu, Ce and/or Pt-Modified Titania Particles with their Bulk and Surface Structures Studied by Reversed Double-Beam Photoacoustic Spectroscopy. <i>Catalysts</i> , 2019 , 9, 1010	4	4
216	Bactericidal Properties of Plasmonic Photocatalysts Composed of Noble Metal Nanoparticles on Faceted Anatase Titania. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 442-452	1.3	9
215	Identification and characterization of titania photocatalyst powders using their energy-resolved distribution of electron traps as a fingerprint. <i>Catalysis Today</i> , 2019 , 321-322, 2-8	5.3	29
214	Hydrothermal synthesis and photocatalytic activities of stabilized bismuth vanadate/bismuth tungstate composites. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 2048-2054	6.8	6
213	Reversed double-beam photoacoustic spectroscopy of metal-oxide powders for estimation of their energy-resolved distribution of electron traps and electronic-band structure. <i>Electrochimica Acta</i> , 2018 , 264, 83-90	6.7	28
212	Water-Assisted Hole Trapping at the Highly Curved Surface of Nano-TiO Photocatalyst. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1415-1422	16.4	59
211	Digitally Controlled Kinetics of Titania-photocatalyzed Oxygen Evolution. <i>Chemistry Letters</i> , 2018 , 47, 373-376	1.7	14
210	Kinetic analysis supporting multielectron reduction of oxygen in bismuth tungstate-photocatalyzed oxidation of organic compounds. <i>Catalysis Today</i> , 2018 , 313, 218-223	5.3	7

209	Synthesis and characterization of TiO ₂ /graphitic carbon nanocomposites with enhanced photocatalytic performance. <i>Applied Surface Science</i> , 2018 , 437, 441-450	6.7	17
208	Interparticle electron transfer in methanol dehydrogenation on platinum-loaded titania particles prepared from P25. <i>Catalysis Today</i> , 2018 , 303, 327-333	5.3	38
207	Multielectron reduction of molecular oxygen in photocatalytic decomposition of organic compounds by bismuth tungstate particles without cocatalyst loading. <i>Catalysis Today</i> , 2018 , 303, 341-349	5.3	10
206	Influence of an Electronic Structure of N-TiO ₂ on Its Photocatalytic Activity towards Decomposition of Acetaldehyde under UV and Fluorescent Lamps Irradiation. <i>Catalysts</i> , 2018 , 8, 85	4	27
205	Influence of the preparation method on the photocatalytic activity of Nd-modified TiO. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 447-459	3	24
204	Noble metal-modified faceted anatase titania photocatalysts: Octahedron versus decahedron. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 574-587	21.8	46
203	Mechanistic Study on Facet-Dependent Deposition of Metal Nanoparticles on Decahedral-Shaped Anatase Titania Photocatalyst Particles. <i>Catalysts</i> , 2018 , 8, 542	4	8
202	TiO ₂ and NaTaO ₃ Decorated by Trimetallic Au/Pd/Pt Core-Shell Nanoparticles as Efficient Photocatalysts: Experimental and Computational Studies. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 16665-16682	8.3	29
201	Noble metal-modified titania with visible-light activity for the decomposition of microorganisms. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 829-841	3	18
200	Photocatalytic degradation of phenol over visible light active ZnO/Ag ₂ CO ₃ /Ag ₂ O nanocomposites heterojunction. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018 , 364, 602-612	4.7	38
199	Size-controlled gold nanoparticles on octahedral anatase particles as efficient plasmonic photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2017 , 206, 393-405	21.8	43
198	Photocatalytic Hydrogen Evolution Using NiPd/TiO ₂ : Correlation of Light Absorption, Charge-Carrier Dynamics, and Quantum Efficiency. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 14302-14311	3.8	65
197	Quantum tunneling injection of hot electrons in Au/TiO plasmonic photocatalysts. <i>Nanoscale</i> , 2017 , 9, 8349-8361	7.7	60
196	Silver-inserted heterojunction photocatalyst consisting of zinc rhodium oxide and silver antimony oxide for overall pure-water splitting under visible light. <i>Applied Catalysis B: Environmental</i> , 2017 , 209, 663-668	21.8	15
195	Preparation and photocatalytic activity of Nd-modified TiO ₂ photocatalysts: Insight into the excitation mechanism under visible light. <i>Journal of Catalysis</i> , 2017 , 353, 211-222	7.3	31
194	Pristine Bismuth-tungstate Photocatalyst Particles Driving Organics Decomposition through Multielectron Reduction of Oxygen. <i>Chemistry Letters</i> , 2017 , 46, 1376-1378	1.7	16
193	Preparation of Titania on Stainless Steel by the Spray-ILGAR Technique as Active Photocatalyst under UV Light Irradiation for the Decomposition of Acetaldehyde. <i>Applied Sciences (Switzerland)</i> , 2017 , 7, 698	2.6	4
192	Photocatalytic activity and luminescence properties of RE ₃ +TiO ₂ nanocrystals prepared by sol-gel and hydrothermal methods. <i>Applied Catalysis B: Environmental</i> , 2016 , 181, 825-837	21.8	84

191	Decahedral-shaped anatase titania photocatalyst particles: Synthesis in a newly developed coaxial-flow gas-phase reactor. <i>Chemical Engineering Journal</i> , 2016 , 289, 502-512	14.7	36
190	Titania modification with a ruthenium(II) complex and gold nanoparticles for photocatalytic degradation of organic compounds. <i>Photochemical and Photobiological Sciences</i> , 2016 , 15, 69-79	4.2	14
189	A silver-inserted zinc rhodium oxide and bismuth vanadium oxide heterojunction photocatalyst for overall pure-water splitting under red light. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3061-3067	13	28
188	Synergetic effect of Ni and Au nanoparticles synthesized on titania particles for efficient photocatalytic hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2016 , 191, 18-28	21.8	114
187	Partial Oxidation of Alcohols on Visible-Light-Responsive WO ₃ Photocatalysts Loaded with Palladium Oxide Cocatalyst. <i>ACS Catalysis</i> , 2016 , 6, 1134-1144	13.1	107
186	Hidden but Possibly Fatal Misconceptions in Photocatalysis Studies: A Short Critical Review. <i>Catalysts</i> , 2016 , 6, 192	4	12
185	Dynamics of Photoelectrons and Structural Changes of Tungsten Trioxide Observed by Femtosecond Transient XAFS. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 1364-7	16.4	33
184	A heterojunction photocatalyst composed of zinc rhodium oxide, single crystal-derived bismuth vanadium oxide, and silver for overall pure-water splitting under visible light up to 740 nm. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 27754-27760	3.6	34
183	Controlled Array of Gold Nanoparticles by Combination of Nano Imprint and Self-assembly. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2016 , 29, 765-768	0.7	
182	A fingerprint of metal-oxide powders: energy-resolved distribution of electron traps. <i>Chemical Communications</i> , 2016 , 52, 12096-12099	5.8	56
181	Structural Control of Hybrid Colloidal Particle Surface by Plasma-etching Treatment. <i>Chemistry Letters</i> , 2016 , 45, 979-981	1.7	12
180	Silver- and copper-modified decahedral anatase titania particles as visible light-responsive plasmonic photocatalyst. <i>Journal of Photonics for Energy</i> , 2016 , 7, 012008	1.2	29
179	The effect of anatase and rutile crystallites isolated from titania P25 photocatalyst on growth of selected mould fungi. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015 , 151, 54-62	6.7	28
178	Hybrid photocatalysts composed of titania modified with plasmonic nanoparticles and ruthenium complexes for decomposition of organic compounds. <i>Applied Catalysis B: Environmental</i> , 2015 , 178, 133-143	21.8	46
177	Titania photocatalysis through two-photon band-gap excitation with built-in rhodium redox mediator. <i>Chemical Communications</i> , 2015 , 51, 298-301	5.8	19
176	Visible light activity of rare earth metal doped (Er ³⁺ , Yb ³⁺ or Er ³⁺ /Yb ³⁺) titania photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2015 , 163, 40-49	21.8	256
175	Mechanism of the Formation of Hierarchical-structured Bismuth Tungstate Photocatalyst Particles through Counter-flow Supply of Bismuth and Tungsten Sources. <i>Chemistry Letters</i> , 2015 , 44, 1723-1725	1.7	8
174	Morphology-dependent photocatalytic activity of octahedral anatase particles prepared by ultrasonication-hydrothermal reaction of titanates. <i>Nanoscale</i> , 2015 , 7, 12392-404	7.7	40

173	One-pot synthesis of imines from nitroaromatics and alcohols by tandem photocatalytic and catalytic reactions on Degussa (Evonik) P25 titanium dioxide. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 3797-806	9.5	34
172	Lanthanide co-doped TiO ₂ : The effect of metal type and amount on surface properties and photocatalytic activity. <i>Applied Surface Science</i> , 2014 , 307, 333-345	6.7	115
171	Revisiting the fundamental physical chemistry in heterogeneous photocatalysis: its thermodynamics and kinetics. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 1788-97	3.6	115
170	Photocatalytic Activity vs Structural Features of Titanium Dioxide Materials Singly Doped or Codoped with Fluorine and Boron. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 25579-25589	3.8	16
169	Development of Plasmonic Photocatalysts for Environmental Application. <i>Advances in Science and Technology</i> , 2014 , 93, 174-183	0.1	9
168	Highly selective phenol production from benzene on a platinum-loaded tungsten oxide photocatalyst with water and molecular oxygen: selective oxidation of water by holes for generating hydroxyl radical as the predominant source of the hydroxyl group. <i>Catalysis Science and Technology</i> , 2014 , 4, 2250-2260	5.5	57
167	Silver-Inserted Heterojunction Photocatalysts for Z-Scheme Overall Pure-Water Splitting under Visible-Light Irradiation. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 22450-22456	3.8	59
166	Controlled arrangement of nanoparticles capped with protecting ligand on Au nanopatterns. <i>Microelectronic Engineering</i> , 2014 , 121, 108-112	2.5	5
165	Position Control of Metal Nanoparticles by Self-Assembly. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2014 , 27, 243-247	0.7	2
164	Influence of post-treatment operations on structural properties and photocatalytic activity of octahedral anatase titania particles prepared by an ultrasonication-hydrothermal reaction. <i>Molecules</i> , 2014 , 19, 19573-87	4.8	21
163	Facile Fabrication of Photoanodes of Tungsten(VI) Oxide on Carbon Microfiber Felts for Efficient Water Oxidation under Visible Light. <i>Chemistry Letters</i> , 2014 , 43, 1195-1197	1.7	8
162	In Situ Picosecond XAFS Study of an Excited State of Tungsten Oxide. <i>Chemistry Letters</i> , 2014 , 43, 977-979		18
161	Enhanced Photocatalytic Activity by Particle Morphology: Preparation, Characterization, and Photocatalytic Activities of Octahedral Anatase Titania Particles. <i>Chemistry Letters</i> , 2014 , 43, 346-348	1.7	21
160	Enhancement of photocathodic stability of p-type copper(I) oxide electrodes by surface etching treatment. <i>Thin Solid Films</i> , 2014 , 550, 340-346	2.2	19
159	Solar photocatalysis: A green technology for E. coli contaminated water disinfection. Effect of concentration and different types of suspended catalyst. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014 , 276, 31-40	4.7	90
158	Visible-light-induced water splitting based on two-step photoexcitation between dye-sensitized layered niobate and tungsten oxide photocatalysts in the presence of a triiodide/iodide shuttle redox mediator. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16872-84	16.4	203
157	Fluorine-Doped TiO ₂ Materials: Photocatalytic Activity vs Time-Resolved Photoluminescence. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 25586-25595	3.8	153
156	Direct bromination of hydrocarbons catalyzed by Li ₂ MnO ₃ under oxygen and photo-irradiation conditions. <i>RSC Advances</i> , 2013 , 3, 2158	3.7	13

155	Formation of nanoscale reaction field using combination of top-down and bottom-up nanofabrication. <i>Microelectronic Engineering</i> , 2013 , 110, 369-373	2.5	7
154	Titania Photocatalysis beyond Recombination: A Critical Review. <i>Catalysts</i> , 2013 , 3, 942-953	4	135
153	Controlled Array of Silver Nanoparticles on Nanopatterns. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2013 , 26, 495-499	0.7	2
152	Bromination of hydrocarbons with CBr ₄ , initiated by light-emitting diode irradiation. <i>Beilstein Journal of Organic Chemistry</i> , 2013 , 9, 1663-7	2.5	23
151	A Strategy for Amorphous Arrangement of Gold Nanoparticles Using Eccentric Hybrid Particles. <i>Chemistry Letters</i> , 2012 , 41, 1319-1321	1.7	4
150	Preparation and Reaction of Titania Particles Encapsulated in Hollow Silica Shells as an Efficient Photocatalyst for Stereoselective Synthesis of Pípecolinic Acid. <i>Chemistry Letters</i> , 2012 , 41, 677-679	1.7	6
149	Biogenic manganese oxide: effective new catalyst for direct bromination of hydrocarbons. <i>RSC Advances</i> , 2012 , 2, 6420	3.7	14
148	Gold-titanium(IV) oxide plasmonic photocatalysts prepared by a colloid-photodeposition method: correlation between physical properties and photocatalytic activities. <i>Langmuir</i> , 2012 , 28, 13105-11	4	71
147	Hydrogen and Oxygen Evolution Photocatalysts Synthesized from Strontium Titanate by Controlled Doping and Their Performance in Two-Step Overall Water Splitting under Visible Light. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 17458-17463	3.8	72
146	EPR, spectroscopic and photocatalytic properties of N-modified TiO ₂ prepared by different annealing and water-rinsing processes. <i>Materials Chemistry and Physics</i> , 2012 , 136, 889-896	4.4	14
145	Preparation, characterization and photocatalytic performance of titania particles encapsulated in hollow silica shells as an efficient photocatalyst for redox-combined stereoselective synthesis of l-pípecolinic acid from l-lysine. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012 , 246, 50-59	4.7	11
144	Plasmonic Titania Photocatalysts Active under UV and Visible-Light Irradiation: Influence of Gold Amount, Size, and Shape. <i>Journal of Nanotechnology</i> , 2012 , 2012, 1-11	3.5	42
143	Photoelectrochemical properties of tungsten trioxide thin film electrodes prepared from facet-controlled rectangular platelets. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 1965-1973	2.6	29
142	Enhanced photocatalytic activity of bismuth-tungsten mixed oxides for oxidative decomposition of acetaldehyde under visible light irradiation. <i>Catalysis Communications</i> , 2012 , 20, 12-16	3.2	35
141	Location Control of Nanoparticles Using Combination of Top-down and Bottom-up Nano-fabrication. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2012 , 25, 449-453	0.7	7
140	Photocatalytic reduction of nitrobenzenes to aminobenzenes in aqueous suspensions of titanium(IV) oxide in the presence of hole scavengers under deaerated and aerated conditions. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 5114-9	3.6	89
139	Effect of Photoexcited Electron Dynamics on Photocatalytic Efficiency of Bismuth Tungstate. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 16598-16605	3.8	26
138	Direct Synthesis of Phenol from Benzene over Platinum-loaded Tungsten(VI) Oxide Photocatalysts with Water and Molecular Oxygen. <i>Chemistry Letters</i> , 2011 , 40, 1405-1407	1.7	30

137	Facile preparation of platelike tungsten oxide thin film electrodes with high photoelectrode activity. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 4047-52	9.5	69
136	Preparation of decahedral anatase titania particles with high-level photocatalytic activity. <i>Catalysis Today</i> , 2011 , 164, 391-394	5.3	13
135	Absorption and action spectra analysis of ammonium fluoride-doped titania photocatalysts. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 18217-27	3.6	47
134	Preparation and characterization of monometallic (Au) and bimetallic (Ag/Au) modified-titania photocatalysts activated by visible light. <i>Applied Catalysis B: Environmental</i> , 2011 , 101, 504-514	21.8	185
133	Preparation of 3-D ordered macroporous tungsten oxides and nano-crystalline particulate tungsten oxides using a colloidal crystal template method, and their structural characterization and application as photocatalysts under visible light irradiation. <i>Journal of Materials Chemistry</i> , 2010 , 20, 1811		125
132	Correlation between surface area and photocatalytic activity for acetaldehyde decomposition over bismuth tungstate particles with a hierarchical structure. <i>Langmuir</i> , 2010 , 26, 7174-80	4	131
131	What Are Titania Photocatalysts? An Exploratory Correlation of Photocatalytic Activity with Structural and Physical Properties. <i>Journal of Advanced Oxidation Technologies</i> , 2010 , 13,		16
130	Visible-light-induced photocatalysis through surface plasmon excitation of gold on titania surfaces. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 2344-55	3.6	457
129	Silver-doped TiO ₂ prepared by microemulsion method: Surface properties, bio- and photoactivity. <i>Separation and Purification Technology</i> , 2010 , 72, 309-318	8.3	149
128	Alkali Metal Ion-Modified Vanadium Mononuclear Complex for Photocatalytic Mineralization of Organic Compounds. <i>Catalysis Letters</i> , 2010 , 140, 27-31	2.8	2
127	Highly Active Titania Photocatalyst Particles of Controlled Crystal Phase, Size, and Polyhedral Shapes. <i>Topics in Catalysis</i> , 2010 , 53, 455-461	2.3	47
126	Visible Light-Responsive Photocatalysts: Doping, Sensitization and Surface Modification. <i>Recent Patents on Engineering</i> , 2010 , 4, 149-154	0.3	6
125	Development of Functionalized Nano and Meso Particles Through Regulation of Their Structure and Shape. <i>Hyomen Kagaku</i> , 2010 , 31, 518-524		
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