

Wonyong Choi

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340
papers

48,877
citations

100
h-index

216
g-index

419
ext. papers

53,268
ext. citations

10.7
avg, IF

7.95
L-index

#	Paper	IF	Citations
340	Environmental Applications of Semiconductor Photocatalysis. <i>Chemical Reviews</i> , 1995 , 95, 69-96	68.1	15722
339	The Role of Metal Ion Dopants in Quantum-Sized TiO ₂ : Correlation between Photoreactivity and Charge Carrier Recombination Dynamics. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 13669-13679		3203
338	Review of iron-free Fenton-like systems for activating H ₂ O ₂ in advanced oxidation processes. <i>Journal of Hazardous Materials</i> , 2014 , 275, 121-35	12.8	1271
337	Surface modification of TiO ₂ photocatalyst for environmental applications. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2013 , 15, 1-20	16.4	704
336	Linear correlation between inactivation of E. coli and OH radical concentration in TiO ₂ photocatalytic disinfection. <i>Water Research</i> , 2004 , 38, 1069-77	12.5	631
335	Platinized WO ₃ as an environmental photocatalyst that generates OH radicals under visible light. <i>Environmental Science & Technology</i> , 2010 , 44, 6849-54	10.3	604
334	Effects of TiO ₂ Surface Fluorination on Photocatalytic Reactions and Photoelectrochemical Behaviors. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 4086-4093	3.4	540
333	Photocatalysis Using ZnO Thin Films and Nanoneedles Grown by Metal-Organic Chemical Vapor Deposition. <i>Advanced Materials</i> , 2004 , 16, 1661-1664	24	419
332	Different inactivation behaviors of MS-2 phage and Escherichia coli in TiO ₂ photocatalytic disinfection. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 270-5	4.8	418
331	Photoinduced charge transfer processes in solar photocatalysis based on modified TiO ₂ . <i>Energy and Environmental Science</i> , 2016 , 9, 411-433	35.4	414
330	Photocatalytic nanodiodes for visible-light photocatalysis. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 4585-9	16.4	381
329	Activation of Persulfates by Graphitized Nanodiamonds for Removal of Organic Compounds. <i>Environmental Science & Technology</i> , 2016 , 50, 10134-42	10.3	361
328	Visible light active platinum-ion-doped TiO ₂ photocatalyst. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 24260-7	3.4	360
327	Photocatalytic oxidation of arsenite in TiO ₂ suspension: kinetics and mechanisms. <i>Environmental Science & Technology</i> , 2002 , 36, 3872-8	10.3	349
326	Effects of the preparation method of the ternary CdS/TiO ₂ /Pt hybrid photocatalysts on visible light-induced hydrogen production. <i>Journal of Materials Chemistry</i> , 2008 , 18, 2379		344
325	Substrate-specific photocatalytic activities of TiO ₂ and multiactivity test for water treatment application. <i>Environmental Science & Technology</i> , 2008 , 42, 294-300	10.3	335
324	Highly enhanced photoreductive degradation of perchlorinated compounds on dye-sensitized metal/TiO ₂ under visible light. <i>Environmental Science & Technology</i> , 2003 , 37, 147-52	10.3	329

323	Carbon-doped TiO ₂ photocatalyst synthesized without using an external carbon precursor and the visible light activity. <i>Applied Catalysis B: Environmental</i> , 2009 , 91, 355-361	21.8	316
322	Visible light driven photocatalysis mediated via ligand-to-metal charge transfer (LMCT): an alternative approach to solar activation of titania. <i>Energy and Environmental Science</i> , 2014 , 7, 954	35.4	293
321	Visible light-induced degradation of carbon tetrachloride on dye-sensitized TiO ₂ . <i>Environmental Science & Technology</i> , 2001 , 35, 966-70	10.3	291
320	The Technology Horizon for Photocatalytic Water Treatment: Sunrise or Sunset?. <i>Environmental Science & Technology</i> , 2019 , 53, 2937-2947	10.3	277
319	Solar Photoconversion Using Graphene/TiO ₂ Composites: Nanographene Shell on TiO ₂ Core versus TiO ₂ Nanoparticles on Graphene Sheet. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 1535-1543	3.8	272
318	Effects of Surface Anchoring Groups (Carboxylate vs Phosphonate) in Ruthenium-Complex-Sensitized TiO ₂ on Visible Light Reactivity in Aqueous Suspensions. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 14093-14101	3.4	261
317	Simultaneous and synergistic conversion of dyes and heavy metal ions in aqueous TiO ₂ suspensions under visible-light illumination. <i>Environmental Science & Technology</i> , 2005 , 39, 2376-82	10.3	255
316	Two-dimensional materials in semiconductor photoelectrocatalytic systems for water splitting. <i>Energy and Environmental Science</i> , 2019 , 12, 59-95	35.4	244
315	Kinetics and mechanisms of photocatalytic degradation of (CH ₃) _n NH(4-n) ⁺ (0 Environmental Science & Technology, 2002 , 36, 2019-25	10.3	240
314	Heterogeneous photocatalytic organic synthesis: state-of-the-art and future perspectives. <i>Green Chemistry</i> , 2016 , 18, 5391-5411	10	239
313	Visible-light-induced photocatalytic degradation of 4-chlorophenol and phenolic compounds in aqueous suspension of pure titania: demonstrating the existence of a surface-complex-mediated path. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 5143-9	3.4	231
312	Time-resolved microwave conductivity. Part 1. TiO ₂ photoreactivity and size quantization. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994 , 90, 3315-3322		222
311	Enhanced Photocatalytic and Photoelectrochemical Activity in the Ternary Hybrid of CdS/TiO ₂ /WO ₃ through the Cascadal Electron Transfer. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 9797-9805	3.8	221
310	Photocatalytic reactivity of surface platinized TiO ₂ : substrate specificity and the effect of Pt oxidation state. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 7399-406	3.4	215
309	Solar production of H ₂ O ₂ on reduced graphene oxide/TiO ₂ hybrid photocatalysts consisting of earth-abundant elements only. <i>Energy and Environmental Science</i> , 2014 , 7, 4023-4028	35.4	211
308	Solid-phase photocatalytic degradation of PVC/TiO ₂ polymer composites. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001 , 143, 221-228	4.7	209
307	Effects of TiO ₂ surface modifications on photocatalytic oxidation of arsenite: the role of superoxides. <i>Environmental Science & Technology</i> , 2004 , 38, 2928-33	10.3	205
306	Simultaneous production of hydrogen with the degradation of organic pollutants using TiO ₂ photocatalyst modified with dual surface components. <i>Energy and Environmental Science</i> , 2012 , 5, 7647	35.4	199

305	Eco-Friendly Photochemical Production of H ₂ O ₂ through O ₂ Reduction over Carbon Nitride Frameworks Incorporated with Multiple Heteroelements. <i>ACS Catalysis</i> , 2017 , 7, 2886-2895	13.1	191
304	Modified carbon nitride nanozyme as bifunctional glucose oxidase-peroxidase for metal-free bioinspired cascade photocatalysis. <i>Nature Communications</i> , 2019 , 10, 940	17.4	191
303	Reductive defluorination of aqueous perfluorinated alkyl surfactants: effects of ionic headgroup and chain length. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 690-6	2.8	187
302	Investigation on TiO ₂ -coated optical fibers for gas-phase photocatalytic oxidation of acetone. <i>Applied Catalysis B: Environmental</i> , 2001 , 31, 209-220	21.8	187
301	Photoelectrochemical Investigation on Electron Transfer Mediating Behaviors of Polyoxometalate in UV-Illuminated Suspensions of TiO ₂ and Pt/TiO ₂ . <i>Journal of Physical Chemistry B</i> , 2003 , 107, 3885-3890	3.4	186
300	TiO ₂ Nanotubes with Open Channels as Deactivation-Resistant Photocatalyst for the Degradation of Volatile Organic Compounds. <i>Environmental Science & Technology</i> , 2016 , 50, 2556-63	10.3	184
299	Effects of Metal-Ion Dopants on the Photocatalytic Reactivity of Quantum-Sized TiO ₂ Particles. <i>Angewandte Chemie International Edition in English</i> , 1994 , 33, 1091-1092		183
298	Use of Ultrafiltration Membranes for the Separation of TiO ₂ Photocatalysts in Drinking Water Treatment. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 1712-1719	3.9	179
297	Photocatalytic Hydrogen Production with Visible Light over Pt-Interlinked Hybrid Composites of Cubic-Phase and Hexagonal-Phase CdS. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 12069-12073	3.8	177
296	Photocatalytic Degradation of Polychlorinated Dibenzo-p-dioxins on TiO ₂ Film under UV or Solar Light Irradiation. <i>Environmental Science & Technology</i> , 2000 , 34, 4810-4815	10.3	175
295	Strategic Modification of BiVO ₄ for Improving Photoelectrochemical Water Oxidation Performance. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 9104-9112	3.8	173
294	Effect of the anchoring group in Ru-bipyridyl sensitizers on the photoelectrochemical behavior of dye-sensitized TiO ₂ electrodes: carboxylate versus phosphonate linkages. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 8740-9	3.4	169
293	Photosynthesis of formate from CO ₂ and water at 1% energy efficiency via copper iron oxide catalysis. <i>Energy and Environmental Science</i> , 2015 , 8, 2638-2643	35.4	168
292	Visible light and Fe(III)-mediated degradation of Acid Orange 7 in the absence of H ₂ O ₂ . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2003 , 159, 241-247	4.7	167
291	Effect of the anchoring group (carboxylate vs phosphonate) in Ru-complex-sensitized TiO ₂ on hydrogen production under visible light. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 14792-9	3.4	165
290	Pure and modified TiO ₂ photocatalysts and their environmental applications. <i>Catalysis Surveys From Asia</i> , 2006 , 10, 16-28	2.8	164
289	Heterostructured Visible-Light-Active Photocatalyst of Chromia-Nanoparticle-Layered Titanate. <i>Advanced Functional Materials</i> , 2007 , 17, 307-314	15.6	162
288	Enhanced Photocatalytic Production of H ₂ on Mesoporous TiO ₂ Prepared by Template-Free Method: Role of Interparticle Charge Transfer. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 15244-15250	3.8	162

287	Photocatalytic reactivities of Nafion-coated TiO ₂ for the degradation of charged organic compounds under UV or visible light. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 11667-74	3.4	162
286	Oxidative degradation of organic compounds using zero-valent iron in the presence of natural organic matter serving as an electron shuttle. <i>Environmental Science & Technology</i> , 2009 , 43, 878-83 ^{10.3}	10.3	154
285	Photoreductive Mechanism of CCl ₄ Degradation on TiO ₂ Particles and Effects of Electron Donors. <i>Environmental Science & Technology</i> , 1995 , 29, 1646-54	10.3	154
284	Effects of surface fluorination of TiO ₂ on the photocatalytic degradation of tetramethylammonium. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2003 , 160, 55-60	4.7	151
283	Zero-valent aluminum for oxidative degradation of aqueous organic pollutants. <i>Environmental Science & Technology</i> , 2009 , 43, 7130-5	10.3	150
282	Sequential Process Combination of Photocatalytic Oxidation and Dark Reduction for the Removal of Organic Pollutants and Cr(VI) using Ag/TiO. <i>Environmental Science & Technology</i> , 2017 , 51, 3973-3981 ^{10.3}	10.3	149
281	Cobalt-phosphate complexes catalyze the photoelectrochemical water oxidation of BiVO ₄ electrodes. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 21392-401	3.6	148
280	Selective oxidative degradation of organic pollutants by singlet oxygen-mediated photosensitization: tin porphyrin versus C ₆₀ aminofullerene systems. <i>Environmental Science & Technology</i> , 2012 , 46, 9606-13	10.3	147
279	Free Radical Polymerization Initiated and Controlled by Visible Light Photocatalysis at Ambient Temperature. <i>Macromolecules</i> , 2011 , 44, 7594-7599	5.5	146
278	Selective photocatalytic oxidation of NH ₃ to N ₂ on platinumized TiO ₂ in water. <i>Environmental Science & Technology</i> , 2002 , 36, 5462-8	10.3	144
277	Weak magnetic field significantly enhances selenite removal kinetics by zero valent iron. <i>Water Research</i> , 2014 , 49, 371-80	12.5	141
276	Enhanced remote photocatalytic oxidation on surface-fluorinated TiO ₂ . <i>Langmuir</i> , 2004 , 20, 11523-7	4	139
275	Photocatalytic conversion of benzene to phenol using modified TiO ₂ and polyoxometalates. <i>Catalysis Today</i> , 2005 , 101, 291-297	5.3	138
274	Solar water oxidation using nickel-borate coupled BiVO ₄ photoelectrodes. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 6499-507	3.6	137
273	Three-dimensional type II ZnO/ZnSe heterostructures and their visible light photocatalytic activities. <i>Langmuir</i> , 2011 , 27, 10243-50	4	137
272	Charge-transfer surface complex of EDTA-TiO ₂ and its effect on photocatalysis under visible light. <i>Applied Catalysis B: Environmental</i> , 2010 , 100, 77-83	21.8	135
271	Boosting up the Low Catalytic Activity of Silver for H ₂ Production on Ag/TiO ₂ Photocatalyst: Thiocyanate as a Selective Modifier. <i>ACS Catalysis</i> , 2016 , 6, 821-828	13.1	133
270	N-doped TiO ₂ nanotubes coated with a thin TaO _x N _y layer for photoelectrochemical water splitting: dual bulk and surface modification of photoanodes. <i>Energy and Environmental Science</i> , 2015 , 8, 247-257 ^{35.4}	35.4	131

- 269 Photoelectrochemical Approach for Metal Corrosion Prevention Using a Semiconductor Photoanode. *Journal of Physical Chemistry B*, **2002**, 106, 4775-4781 3.4 130
- 268 Photocatalysis of Dye-Sensitized TiO₂ Nanoparticles with Thin Overcoat of Al₂O₃: Enhanced Activity for H₂ Production and Dechlorination of CCl₄. *Journal of Physical Chemistry C*, **2009**, 113, 10603-10609 3.8 129
- 267 Selective electroreduction of CO to acetone by single copper atoms anchored on N-doped porous carbon. *Nature Communications*, **2020**, 11, 2455 17.4 121
- 266 Molecular-level understanding of the photocatalytic activity difference between anatase and rutile nanoparticles. *Angewandte Chemie - International Edition*, **2014**, 53, 14036-41 16.4 121
- 265 Effects of surface fluorination of TiO₂ on photocatalytic oxidation of gaseous acetaldehyde. *Applied Catalysis B: Environmental*, **2007**, 69, 127-132 21.8 120
- 264 Superior Electron Transport and Photocatalytic Abilities of Metal-Nanoparticle-Loaded TiO₂ Superstructures. *Journal of Physical Chemistry C*, **2012**, 116, 25444-25453 3.8 119
- 263 Nafion layer-enhanced photosynthetic conversion of CO₂ into hydrocarbons on TiO₂ nanoparticles. *Energy and Environmental Science*, **2012**, 5, 6066 35.4 118
- 262 Ultra-efficient and durable photoelectrochemical water oxidation using elaborately designed hematite nanorod arrays. *Nano Energy*, **2017**, 39, 211-218 17.1 116
- 261 Tin-porphyrin sensitized TiO₂ for the production of H₂ under visible light. *Energy and Environmental Science*, **2010**, 3, 1789 35.4 116
- 260 Reversing CdS Preparation Order and Its Effects on Photocatalytic Hydrogen Production of CdS/Pt-TiO₂ Hybrids Under Visible Light. *Journal of Physical Chemistry C*, **2011**, 115, 6141-6148 3.8 115
- 259 Promoting water photooxidation on transparent WO₃ thin films using an alumina overlayer. *Energy and Environmental Science*, **2013**, 6, 3732 35.4 113
- 258 Solid Phase Photocatalytic Reaction on the Soot/TiO₂ Interface: The Role of Migrating OH Radicals. *Journal of Physical Chemistry B*, **2002**, 106, 11818-11822 3.4 112
- 257 Harnessing low energy photons (635 nm) for the production of H₂O₂ using upconversion nanohybrid photocatalysts. *Energy and Environmental Science*, **2016**, 9, 1063-1073 35.4 111
- 256 Dual Photocatalytic Pathways of Trichloroacetate Degradation on TiO₂: Effects of Nanosized Platinum Deposits on Kinetics and Mechanism. *Journal of Physical Chemistry B*, **2002**, 106, 13311-13317 3.4 110
- 255 A strong electronic coupling between graphene nanosheets and layered titanate nanoplates: a soft-chemical route to highly porous nanocomposites with improved photocatalytic activity. *Small*, **2012**, 8, 1038-48 11 109
- 254 Formation of heterostructures via direct growth CN on h-BN porous nanosheets for metal-free photocatalysis. *Nano Energy*, **2017**, 42, 58-68 17.1 108
- 253 Photocatalytic degradation of N-nitrosodimethylamine: mechanism, product distribution, and TiO₂ surface modification. *Environmental Science & Technology*, **2005**, 39, 6800-7 10.3 108
- 252 Heterogeneous photocatalytic treatment of pharmaceutical micropollutants: Effects of wastewater effluent matrix and catalyst modifications. *Applied Catalysis B: Environmental*, **2014**, 147, 8-16 21.8 107

251	Comparative Study of Homogeneous and Heterogeneous Photocatalytic Redox Reactions: PW(12)O(40)(3-) vs TiO(2). <i>Journal of Physical Chemistry B</i> , 2004 , 108, 6402-11	3.4	106
250	Role of platinum-like tungsten carbide as cocatalyst of CdS photocatalyst for hydrogen production under visible light irradiation. <i>Applied Catalysis A: General</i> , 2008 , 346, 149-154	5.1	104
249	Interaction Between Metal-Organic Framework and Reduced Graphene Oxide for Visible-Light Photocatalytic H ₂ Production. <i>ACS Applied Energy Materials</i> , 2018 , 1, 1913-1923	6.1	103
248	Exfoliated and reorganized graphite oxide on titania nanoparticles as an auxiliary co-catalyst for photocatalytic solar conversion. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 9425-31	3.6	103
247	UV photolytic mechanism of N-nitrosodimethylamine in water: dual pathways to methylamine versus dimethylamine. <i>Environmental Science & Technology</i> , 2005 , 39, 2101-6	10.3	103
246	Singlet-Oxygen Generation in Alkaline Periodate Solution. <i>Environmental Science & Technology</i> , 2015 , 49, 14392-400	10.3	102
245	Novel Photocatalytic Mechanisms for CHCl ₃ , CHBr ₃ , and CCl ₃ CO ₂ - Degradation and the Fate of Photogenerated Trihalomethyl Radicals on TiO ₂ . <i>Environmental Science & Technology</i> , 1997 , 31, 89-95	10.3	102
244	Bifunctional Heterogeneous Catalysts for Selective Epoxidation and Visible Light Driven Photolysis: Nickel Oxide-Containing Porous Nanocomposite. <i>Advanced Materials</i> , 2008 , 20, 539-542	24	102
243	Highly enhanced photocatalytic oxidation of CO on titania deposited with Pt nanoparticles: kinetics and mechanism. <i>Applied Catalysis B: Environmental</i> , 2003 , 46, 49-63	21.8	102
242	Platinum-like Behavior of Reduced Graphene Oxide as a Cocatalyst on TiO ₂ for the Efficient Photocatalytic Oxidation of Arsenite. <i>Environmental Science and Technology Letters</i> , 2014 , 1, 185-190	11	101
241	Inactivation of Escherichia coli in the electrochemical disinfection process using a Pt anode. <i>Chemosphere</i> , 2007 , 67, 652-9	8.4	101
240	Heteroatom Dopants Promote Two-Electron O ₂ Reduction for Photocatalytic Production of H ₂ O on Polymeric Carbon Nitride. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 16209-16217	16.4	98
239	Dye decolorization test for the activity assessment of visible light photocatalysts: Realities and limitations. <i>Catalysis Today</i> , 2014 , 224, 21-28	5.3	97
238	Chromate-induced activation of hydrogen peroxide for oxidative degradation of aqueous organic pollutants. <i>Environmental Science & Technology</i> , 2010 , 44, 7232-7	10.3	97
237	Hydrogen producing water treatment through solar photocatalysis. <i>Energy and Environmental Science</i> , 2010 , 3, 1042	35.4	97
236	Single-atom platinum confined by the interlayer nanospace of carbon nitride for efficient photocatalytic hydrogen evolution. <i>Nano Energy</i> , 2020 , 69, 104409	17.1	97
235	Photocatalytic hydrogen peroxide production by anthraquinone-augmented polymeric carbon nitride. <i>Applied Catalysis B: Environmental</i> , 2018 , 229, 121-129	21.8	96
234	Advanced oxidation process based on the Cr(III)/Cr(VI) redox cycle. <i>Environmental Science & Technology</i> , 2011 , 45, 9332-8	10.3	96

233	Photocatalytic oxidation of arsenite on TiO ₂ : understanding the controversial oxidation mechanism involving superoxides and the effect of alternative electron acceptors. <i>Environmental Science & Technology</i> , 2006 , 40, 7034-9	10.3	96
232	New nanoporous carbon materials with high adsorption capacity and rapid adsorption kinetics for removing humic acids. <i>Microporous and Mesoporous Materials</i> , 2003 , 58, 131-135	5.3	96
231	Visible light-induced reactions of humic acids on TiO ₂ . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002 , 148, 129-135	4.7	93
230	Dual-components modified TiO ₂ with Pt and fluoride as deactivation-resistant photocatalyst for the degradation of volatile organic compound. <i>Applied Catalysis B: Environmental</i> , 2018 , 220, 1-8	21.8	92
229	Oxidation of organic pollutants by peroxymonosulfate activated with low-temperature-modified nanodiamonds: Understanding the reaction kinetics and mechanism. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 432-441	21.8	91
228	Photochemical loading of metal nanoparticles on reduced graphene oxide sheets using phosphotungstate. <i>Carbon</i> , 2011 , 49, 3454-3462	10.4	91
227	TiO ₂ nanodisks designed for Li-ion batteries: a novel strategy for obtaining an ultrathin and high surface area anode material at the ice interface. <i>Energy and Environmental Science</i> , 2013 , 6, 2932	35.4	90
226	Fullerol-titania charge-transfer-mediated photocatalysis working under visible light. <i>Chemistry - A European Journal</i> , 2009 , 15, 10843-50	4.8	90
225	Dual-Functional Photocatalytic and Photoelectrocatalytic Systems for Energy- and Resource-Recovering Water Treatment. <i>ACS Catalysis</i> , 2018 , 8, 11542-11563	13.1	90
224	Active {001} Facet Exposed TiO Nanotubes Photocatalyst Filter for Volatile Organic Compounds Removal: From Material Development to Commercial Indoor Air Cleaner Application. <i>Environmental Science & Technology</i> , 2018 , 52, 9330-9340	10.3	89
223	Organic dye-sensitized TiO ₂ for the redox conversion of water pollutants under visible light. <i>Chemical Communications</i> , 2010 , 46, 2477-9	5.8	89
222	Effect of the Agglomerated State on the Photocatalytic Hydrogen Production with in Situ Agglomeration of Colloidal TiO ₂ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 20451-20457	3.8	89
221	Effect of platinum deposits on TiO ₂ on the anoxic photocatalytic degradation pathways of alkylamines in water: dealkylation and N-alkylation. <i>Environmental Science & Technology</i> , 2004 , 38, 4026-33	10.3	89
220	Photoelectrochemical Degradation of Organic Compounds Coupled with Molecular Hydrogen Generation Using Electrochromic TiO Nanotube Arrays. <i>Environmental Science & Technology</i> , 2017 , 51, 6590-6598	10.3	88
219	Role of Interparticle Charge Transfers in Agglomerated Photocatalyst Nanoparticles: Demonstration in Aqueous Suspension of Dye-Sensitized TiO ₂ . <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 189-94	6.4	87
218	Heterogeneous catalytic oxidation of As(III) on nonferrous metal oxides in the presence of H ₂ O ₂ . <i>Environmental Science & Technology</i> , 2015 , 49, 3506-13	10.3	84
217	Polymeric Carbon Nitride with Localized Aluminum Coordination Sites as a Durable and Efficient Photocatalyst for Visible Light Utilization. <i>ACS Catalysis</i> , 2018 , 8, 4241-4256	13.1	84
216	Enhanced redox conversion of chromate and arsenite in ice. <i>Environmental Science & Technology</i> , 2011 , 45, 2202-8	10.3	82

215	Photoreductive dissolution of iron oxides trapped in ice and its environmental implications. <i>Environmental Science & Technology</i> , 2010 , 44, 4142-8	10.3	82
214	Robust Co-catalytic Performance of Nanodiamonds Loaded on WO ₃ for the Decomposition of Volatile Organic Compounds under Visible Light. <i>ACS Catalysis</i> , 2016 , 6, 8350-8360	13.1	81
213	Fabrication of superior β -Fe ₂ O ₃ nanorod photoanodes through ex-situ Sn-doping for solar water splitting. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 144, 247-255	6.4	81
212	Selective photocatalytic degradation of aquatic pollutants by titania encapsulated into FAU-type zeolites. <i>Journal of Hazardous Materials</i> , 2011 , 188, 198-205	12.8	80
211	Oxidation on zerovalent iron promoted by polyoxometalate as an electron shuttle. <i>Environmental Science & Technology</i> , 2007 , 41, 3335-40	10.3	80
210	Visible light photocatalysis of fullerol-complexed TiO ₂ enhanced by Nb doping. <i>Applied Catalysis B: Environmental</i> , 2014 , 152-153, 233-240	21.8	79
209	Visible-light-sensitized production of hydrogen using perfluorosulfonate polymer-coated TiO ₂ nanoparticles: an alternative approach to sensitizer anchoring. <i>Langmuir</i> , 2006 , 22, 2906-11	4	79
208	UV photolytic mechanism of N-nitrosodimethylamine in water: roles of dissolved oxygen and solution pH. <i>Environmental Science & Technology</i> , 2005 , 39, 9702-9	10.3	78
207	Enhancing the photoelectrochemical performance of hematite (β -Fe ₂ O ₃) electrodes by cadmium incorporation. <i>Applied Catalysis B: Environmental</i> , 2011 , 110, 207-215	21.8	76
206	Kinetics and Mechanism of CCl ₄ Photoreductive Degradation on TiO ₂ : The Role of Trichloromethyl Radical and Dichlorocarbene. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 2161-2169		75
205	Status and challenges in photocatalytic nanotechnology for cleaning air polluted with volatile organic compounds: visible light utilization and catalyst deactivation. <i>Environmental Science: Nano</i> , 2019 , 6, 3185-3214	7.1	74
204	Geometric Effect of Single or Double Metal-Tipped CdSe Nanorods on Photocatalytic H ₂ Generation. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3781-5	6.4	73
203	Graphene oxide embedded into TiO ₂ nanofiber: Effective hybrid photocatalyst for solar conversion. <i>Journal of Catalysis</i> , 2014 , 309, 49-57	7.3	71
202	Blue TiO ₂ Nanotube Array as an Oxidant Generating Novel Anode Material Fabricated by Simple Cathodic Polarization. <i>Electrochimica Acta</i> , 2014 , 141, 113-119	6.7	70
201	Photocatalytic oxidation mechanism of As(III) on TiO ₂ : unique role of As(III) as a charge recombinant species. <i>Environmental Science & Technology</i> , 2010 , 44, 9099-104	10.3	70
200	Synergic effect of simultaneous fluorination and platinization of TiO ₂ surface on anoxic photocatalytic degradation of organic compounds. <i>Chemical Communications</i> , 2008 , 756-8	5.8	70
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