Wonyong Choi

List of Publications by Year in descending order

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409 papers	57,990 citations	1163 111 h-index	1044 234 g-index
419 all docs	419 docs citations	419 times ranked	40310 citing authors

#	Article	IF	Citations
1	Environmental Applications of Semiconductor Photocatalysis. Chemical Reviews, 1995, 95, 69-96.	23.0	17,205
2	The Role of Metal Ion Dopants in Quantum-Sized TiO2: Correlation between Photoreactivity and Charge Carrier Recombination Dynamics. The Journal of Physical Chemistry, 1994, 98, 13669-13679.	2.9	3,486
3	Review of iron-free Fenton-like systems for activating H2O2 in advanced oxidation processes. Journal of Hazardous Materials, 2014, 275, 121-135.	6.5	1,740
4	Surface modification of TiO2 photocatalyst for environmental applications. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2013, 15, 1-20.	5.6	858
5	Linear correlation between inactivation of E. coli and OH radical concentration in TiO2 photocatalytic disinfection. Water Research, 2004, 38, 1069-1077.	5.3	704
6	Platinized WO₃ as an Environmental Photocatalyst that Generates OH Radicals under Visible Light. Environmental Science & Technology, 2010, 44, 6849-6854.	4.6	663
7	Effects of TiO2 Surface Fluorination on Photocatalytic Reactions and Photoelectrochemical Behaviors. Journal of Physical Chemistry B, 2004, 108, 4086-4093.	1.2	591
8	Activation of Persulfates by Graphitized Nanodiamonds for Removal of Organic Compounds. Environmental Science & Technology, 2016, 50, 10134-10142.	4.6	546
9	Photoinduced charge transfer processes in solar photocatalysis based on modified TiO₂. Energy and Environmental Science, 2016, 9, 411-433.	15.6	494
10	The Technology Horizon for Photocatalytic Water Treatment: Sunrise or Sunset?. Environmental Science & Technology, 2019, 53, 2937-2947.	4.6	493
11	Different Inactivation Behaviors of MS-2 Phage and Escherichia coli in TiO 2 Photocatalytic Disinfection. Applied and Environmental Microbiology, 2005, 71, 270-275.	1.4	466
12	Photocatalysis Using ZnO Thin Films and Nanoneedles Grown by Metal-Organic Chemical Vapor Deposition. Advanced Materials, 2004, 16, 1661-1664.	11.1	455
13	Photocatalytic Nanodiodes for Visible-Light Photocatalysis. Angewandte Chemie - International Edition, 2005, 44, 4585-4589.	7.2	402
14	Visible Light Active Platinum-Ion-Doped TiO2Photocatalyst. Journal of Physical Chemistry B, 2005, 109, 24260-24267.	1.2	384
15	Photocatalytic Oxidation of Arsenite in TiO2 Suspension:â€‰ Kinetics and Mechanisms. Environmental Science & Technology, 2002, 36, 3872-3878.	4.6	381
16	Visible light driven photocatalysis mediated via ligand-to-metal charge transfer (LMCT): an alternative approach to solar activation of titania. Energy and Environmental Science, 2014, 7, 954.	15.6	375
17	Two-dimensional materials in semiconductor photoelectrocatalytic systems for water splitting. Energy and Environmental Science, 2019, 12, 59-95.	15.6	373
18	Effects of the preparation method of the ternary CdS/TiO2/Pt hybrid photocatalysts on visible light-induced hydrogen production. Journal of Materials Chemistry, 2008, 18, 2379.	6.7	370

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19	Substrate-Specific Photocatalytic Activities of TiO₂ and Multiactivity Test for Water Treatment Application. Environmental Science & Technology, 2008, 42, 294-300.	4.6	361
20	Highly Enhanced Photoreductive Degradation of Perchlorinated Compounds on Dye-Sensitized Metal/TiO2under Visible Light. Environmental Science & Technology, 2003, 37, 147-152.	4.6	353
21	Carbon-doped TiO2 photocatalyst synthesized without using an external carbon precursor and the visible light activity. Applied Catalysis B: Environmental, 2009, 91, 355-361.	10.8	351
22	Modified carbon nitride nanozyme as bifunctional glucose oxidase-peroxidase for metal-free bioinspired cascade photocatalysis. Nature Communications, 2019, 10, 940.	5.8	349
23	Heterogeneous photocatalytic organic synthesis: state-of-the-art and future perspectives. Green Chemistry, 2016, 18, 5391-5411.	4.6	336
24	Solar production of H₂O₂on reduced graphene oxideâ€“TiO₂hybrid photocatalysts consisting of earth-abundant elements only. Energy and Environmental Science, 2014, 7, 4023-4028.	15.6	311
25	Visible Light-Induced Degradation of Carbon Tetrachloride on Dye-Sensitized TiO2. Environmental Science & Technology, 2001, 35, 966-970.	4.6	306
26	Solar Photoconversion Using Graphene/TiO₂ Composites: Nanographene Shell on TiO₂ Core versus TiO₂ Nanoparticles on Graphene Sheet. Journal of Physical Chemistry C, 2012, 116, 1535-1543.	1.5	292
27	Eco-Friendly Photochemical Production of H₂O₂ through O₂ Reduction over Carbon Nitride Frameworks Incorporated with Multiple Heteroelements. ACS Catalysis, 2017, 7, 2886-2895.	5.5	287
28	Effects of Surface Anchoring Groups (Carboxylate vs Phosphonate) in Ruthenium-Complex-Sensitized TiO2 on Visible Light Reactivity in Aqueous Suspensions. Journal of Physical Chemistry B, 2004, 108, 14093-14101.	1.2	281
29	Simultaneous and Synergistic Conversion of Dyes and Heavy Metal Ions in Aqueous TiO2Suspensions under Visible-Light Illumination. Environmental Science & Technology, 2005, 39, 2376-2382.	4.6	275
30	Heteroatom Dopants Promote Twoâ€Electron O₂ Reduction for Photocatalytic Production of H₂O₂ on Polymeric Carbon Nitride. Angewandte Chemie - International Edition, 2020, 59, 16209-16217.	7.2	270
31	Selective electroreduction of CO2 to acetone by single copper atoms anchored on N-doped porous carbon. Nature Communications, 2020, 11, 2455.	5.8	265
32	Kinetics and Mechanisms of Photocatalytic Degradation of (CH3)nNH4-n+(0 â‰¤nâ‰¤ 4) in TiO2Suspension:Â The Role of OH Radicals. Environmental Science & Technology, 2002, 36, 2019-2025.	4.6	264
33	Solid-phase photocatalytic degradation of PVCâ€“TiO 2 polymer composites. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 143, 221-228.	2.0	253
34	Visible-Light-Induced Photocatalytic Degradation of 4-Chlorophenol and Phenolic Compounds in Aqueous Suspension of Pure Titania:â€‰ Demonstrating the Existence of a Surface-Complex-Mediated Path. Journal of Physical Chemistry B, 2005, 109, 5143-5149.	1.2	252
35	Reductive Defluorination of Aqueous Perfluorinated Alkyl Surfactants: Effects of Ionic Headgroup and Chain Length. Journal of Physical Chemistry A, 2009, 113, 690-696.	1.1	251
36	Time-resolved microwave conductivity. Part 1.â€”TiO2photoreactivity and size quantization. Journal of the Chemical Society, Faraday Transactions, 1994, 90, 3315-3322.	1.7	250

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37	TiO₂ Nanotubes with Open Channels as Deactivation-Resistant Photocatalyst for the Degradation of Volatile Organic Compounds. Environmental Science & Technology, 2016, 50, 2556-2563.	4.6	243
38	Enhanced Photocatalytic and Photoelectrochemical Activity in the Ternary Hybrid of CdS/TiO₂/WO₃ through the Cascadal Electron Transfer. Journal of Physical Chemistry C, 2011, 115, 9797-9805.	1.5	238
39	Simultaneous production of hydrogen with the degradation of organic pollutants using TiO2 photocatalyst modified with dual surface components. Energy and Environmental Science, 2012, 5, 7647.	15.6	236
40	Photocatalytic Reactivity of Surface Platinized TiO2:Â Substrate Specificity and the Effect of Pt Oxidation State. Journal of Physical Chemistry B, 2005, 109, 7399-7406.	1.2	227
41	Singlet-Oxygen Generation in Alkaline Periodate Solution. Environmental Science & Technology, 2015, 49, 14392-14400.	4.6	218
42	Effects of TiO2Surface Modifications on Photocatalytic Oxidation of Arsenite:Â The Role of Superoxides. Environmental Science & Technology, 2004, 38, 2928-2933.	4.6	216
43	Investigation on TiO2-coated optical fibers for gas-phase photocatalytic oxidation of acetone. Applied Catalysis B: Environmental, 2001, 31, 209-220.	10.8	206
44	Effects of Metal-Ion Dopants on the Photocatalytic Reactivity of Quantum-Sized TiO2 Particles. Angewandte Chemie International Edition in English, 1994, 33, 1091-1092.	4.4	204
45	Photosynthesis of formate from CO₂ and water at 1% energy efficiency via copper iron oxide catalysis. Energy and Environmental Science, 2015, 8, 2638-2643.	15.6	204
46	Use of Ultrafiltration Membranes for the Separation of TiO2Photocatalysts in Drinking Water Treatment. Industrial & Engineering Chemistry Research, 2001, 40, 1712-1719.	1.8	198
47	Photoelectrochemical Investigation on Electron Transfer Mediating Behaviors of Polyoxometalate in UV-Illuminated Suspensions of TiO2and Pt/TiO2. Journal of Physical Chemistry B, 2003, 107, 3885-3890.	1.2	197
48	Photocatalytic Hydrogen Production with Visible Light over Pt-Interlinked Hybrid Composites of Cubic-Phase and Hexagonal-Phase CdS. Journal of Physical Chemistry C, 2008, 112, 12069-12073.	1.5	196
49	Photocatalytic Degradation of Polychlorinated Dibenzo-p-dioxins on TiO2Film under UV or Solar Light Irradiation. Environmental Science & Technology, 2000, 34, 4810-4815.	4.6	195
50	Sequential Process Combination of Photocatalytic Oxidation and Dark Reduction for the Removal of Organic Pollutants and Cr(VI) using Ag/TiO₂. Environmental Science & Technology, 2017, 51, 3973-3981.	4.6	193
51	Pure and modified TiO2 photocatalysts and their environmental applications. Catalysis Surveys From Asia, 2006, 10, 16-28.	1.0	191
52	Strategic Modification of BiVO₄ for Improving Photoelectrochemical Water Oxidation Performance. Journal of Physical Chemistry C, 2013, 117, 9104-9112.	1.5	191
53	Selective Oxidative Degradation of Organic Pollutants by Singlet Oxygen-Mediated Photosensitization: Tin Porphyrin versus C₆₀ Aminofullerene Systems. Environmental Science & Technology, 2012, 46, 9606-9613.	4.6	190
54	Effect of the Anchoring Group in Ruâ''Bipyridyl Sensitizers on the Photoelectrochemical Behavior of Dye-Sensitized TiO2Electrodes:Â Carboxylate versus Phosphonate Linkages. Journal of Physical Chemistry B, 2006, 110, 8740-8749.	1.2	188

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55	Zero-Valent Aluminum for Oxidative Degradation of Aqueous Organic Pollutants. Environmental Science & Technology, 2009, 43, 7130-7135.	4.6	188
56	Photocatalytic Reactivities of Nafion-Coated TiO2 for the Degradation of Charged Organic Compounds under UV or Visible Light. Journal of Physical Chemistry B, 2005, 109, 11667-11674.	1.2	187
57	Single-atom platinum confined by the interlayer nanospace of carbon nitride for efficient photocatalytic hydrogen evolution. Nano Energy, 2020, 69, 104409.	8.2	185
58	Visible light and Fe(III)-mediated degradation of Acid Orange 7 in the absence of H2O2. Journal of Photochemistry and Photobiology A: Chemistry, 2003, 159, 241-247.	2.0	184
59	Effect of the Anchoring Group (Carboxylate vs Phosphonate) in Ru-Complex-Sensitized TiO2on Hydrogen Production under Visible Light. Journal of Physical Chemistry B, 2006, 110, 14792-14799.	1.2	180
60	Oxidative Degradation of Organic Compounds Using Zero-Valent Iron in the Presence of Natural Organic Matter Serving as an Electron Shuttle. Environmental Science & Technology, 2009, 43, 878-883.	4.6	178
61	Mechanistic analysis of multiple processes controlling solar-driven H2O2 synthesis using engineered polymeric carbon nitride. Nature Communications, 2021, 12, 3701.	5.8	175
62	Enhanced Photocatalytic Production of H₂ on Mesoporous TiO₂ Prepared by Template-Free Method:â€‰ Role of Interparticle Charge Transfer. Journal of Physical Chemistry C, 2007, 111, 15244-15250.	1.5	173
63	Weak magnetic field significantly enhances selenite removal kinetics by zero valent iron. Water Research, 2014, 49, 371-380.	5.3	172
64	Ultra-efficient and durable photoelectrochemical water oxidation using elaborately designed hematite nanorod arrays. Nano Energy, 2017, 39, 211-218.	8.2	171
65	Photocatalytic hydrogen peroxide production by anthraquinone-augmented polymeric carbon nitride. Applied Catalysis B: Environmental, 2018, 229, 121-129.	10.8	171
66	Selective Photocatalytic Oxidation of NH3to N2on Platinized TiO2in Water. Environmental Science & Technology, 2002, 36, 5462-5468.	4.6	168
67	Ï€â€“Ï€ Interaction Between Metalâ€“Organic Framework and Reduced Graphene Oxide for Visible-Light Photocatalytic H₂ Production. ACS Applied Energy Materials, 2018, 1, 1913-1923.	2.5	168
68	Photoreductive Mechanism of CCl4 Degradation on TiO2 Particles and Effects of Electron Donors. Environmental Science & Technology, 1995, 29, 1646-1654.	4.6	165
69	Heterostructured Visible-Light-Active Photocatalyst of Chromia-Nanoparticle-Layered Titanate. Advanced Functional Materials, 2007, 17, 307-314.	7.8	165
70	Cobaltâ€“phosphate complexes catalyze the photoelectrochemical water oxidation of BiVO4 electrodes. Physical Chemistry Chemical Physics, 2011, 13, 21392.	1.3	164
71	Oxidation of organic pollutants by peroxymonosulfate activated with low-temperature-modified nanodiamonds: Understanding the reaction kinetics and mechanism. Applied Catalysis B: Environmental, 2018, 237, 432-441.	10.8	161
72	Effects of surface fluorination of TiO2 on the photocatalytic degradation of tetramethylammonium. Journal of Photochemistry and Photobiology A: Chemistry, 2003, 160, 55-60.	2.0	160

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73	Harnessing low energy photons (635 nm) for the production of H₂O₂ using upconversion nanohybrid photocatalysts. Energy and Environmental Science, 2016, 9, 1063-1073.	15.6	160
74	Three-Dimensional Type II ZnO/ZnSe Heterostructures and Their Visible Light Photocatalytic Activities. Langmuir, 2011, 27, 10243-10250.	1.6	159
75	Charge-transfer surface complex of EDTA-TiO2 and its effect on photocatalysis under visible light. Applied Catalysis B: Environmental, 2010, 100, 77-83.	10.8	156
76	Free Radical Polymerization Initiated and Controlled by Visible Light Photocatalysis at Ambient Temperature. Macromolecules, 2011, 44, 7594-7599.	2.2	156
77	Solar water oxidation using nickel-borate coupled BiVO4 photoelectrodes. Physical Chemistry Chemical Physics, 2013, 15, 6499.	1.3	156
78	N-doped TiO₂ nanotubes coated with a thin TaO_xN_y layer for photoelectrochemical water splitting: dual bulk and surface modification of photoanodes. Energy and Environmental Science, 2015, 8, 247-257.	15.6	155
79	Boosting up the Low Catalytic Activity of Silver for H₂ Production on Ag/TiO₂ Photocatalyst: Thiocyanate as a Selective Modifier. ACS Catalysis, 2016, 6, 821-828.	5.5	153
80	Photoelectrochemical Approach for Metal Corrosion Prevention Using a Semiconductor Photoanode. Journal of Physical Chemistry B, 2002, 106, 4775-4781.	1.2	152
81	Enhanced Remote Photocatalytic Oxidation on Surface-Fluorinated TiO2. Langmuir, 2004, 20, 11523-11527.	1.6	152
82	Photocatalytic conversion of benzene to phenol using modified TiO2 and polyoxometalates. Catalysis Today, 2005, 101, 291-297.	2.2	152
83	Formation of heterostructures via direct growth CN on h-BN porous nanosheets for metal-free photocatalysis. Nano Energy, 2017, 42, 58-68.	8.2	151
84	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.	1.5	146
85	Molecularâ€Level Understanding of the Photocatalytic Activity Difference between Anatase and Rutile Nanoparticles. Angewandte Chemie - International Edition, 2014, 53, 14036-14041.	7.2	143
86	Dual-Functional Photocatalytic and Photoelectrocatalytic Systems for Energy- and Resource-Recovering Water Treatment. ACS Catalysis, 2018, 8, 11542-11563.	5.5	138
87	Production of Reactive Oxygen Species by the Reaction of Periodate and Hydroxylamine for Rapid Removal of Organic Pollutants and Waterborne Bacteria. Environmental Science & Technology, 2020, 54, 6427-6437.	4.6	138
88	Nafion layer-enhanced photosynthetic conversion of CO2 into hydrocarbons on TiO2 nanoparticles. Energy and Environmental Science, 2012, 5, 6066.	15.6	137
89	Superior Electron Transport and Photocatalytic Abilities of Metal-Nanoparticle-Loaded TiO₂ Superstructures. Journal of Physical Chemistry C, 2012, 116, 25444-25453.	1.5	135
90	Promoting water photooxidation on transparent WO3 thin films using an alumina overlayer. Energy and Environmental Science, 2013, 6, 3732.	15.6	134

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91	Advanced Oxidation Process Based on the Cr(III)/Cr(VI) Redox Cycle. Environmental Science & Technology, 2011, 45, 9332-9338.	4.6	132
92	Chromate-Induced Activation of Hydrogen Peroxide for Oxidative Degradation of Aqueous Organic Pollutants. Environmental Science & Technology, 2010, 44, 7232-7237.	4.6	131
93	Heterogeneous photocatalytic treatment of pharmaceutical micropollutants: Effects of wastewater effluent matrix and catalyst modifications. Applied Catalysis B: Environmental, 2014, 147, 8-16.	10.8	130
94	Photoelectrochemical Degradation of Organic Compounds Coupled with Molecular Hydrogen Generation Using Electrochromic TiO₂ Nanotube Arrays. Environmental Science & Technology, 2017, 51, 6590-6598.	4.6	130
95	Effects of surface fluorination of TiO2 on photocatalytic oxidation of gaseous acetaldehyde. Applied Catalysis B: Environmental, 2007, 69, 127-132.	10.8	128
96	Tin-porphyrin sensitized TiO2 for the production of H2 under visible light. Energy and Environmental Science, 2010, 3, 1789.	15.6	127
97	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.	1.5	126
98	Dual-components modified TiO2 with Pt and fluoride as deactivation-resistant photocatalyst for the degradation of volatile organic compound. Applied Catalysis B: Environmental, 2018, 220, 1-8.	10.8	125
99	Status and challenges in photocatalytic nanotechnology for cleaning air polluted with volatile organic compounds: visible light utilization and catalyst deactivation. Environmental Science: Nano, 2019, 6, 3185-3214.	2.2	124
100	Active {001} Facet Exposed TiO₂ Nanotubes Photocatalyst Filter for Volatile Organic Compounds Removal: From Material Development to Commercial Indoor Air Cleaner Application. Environmental Science & Technology, 2018, 52, 9330-9340.	4.6	121
101	Comparative Study of Homogeneous and Heterogeneous Photocatalytic Redox Reactions:Â PW12O403-vs TiO2. Journal of Physical Chemistry B, 2004, 108, 6402-6411.	1.2	120
102	Dual Photocatalytic Pathways of Trichloroacetate Degradation on TiO2:â€‰ Effects of Nanosized Platinum Deposits on Kinetics and Mechanism. Journal of Physical Chemistry B, 2002, 106, 13311-13317.	1.2	119
103	Solid Phase Photocatalytic Reaction on the Soot/TiO2Interface:Â The Role of Migrating OH Radicals. Journal of Physical Chemistry B, 2002, 106, 11818-11822.	1.2	119
104	Photocatalytic Degradation ofN-Nitrosodimethylamine:Â Mechanism, Product Distribution, and TiO2Surface Modification. Environmental Science & Technology, 2005, 39, 6800-6807.	4.6	118
105	Polymeric Carbon Nitride with Localized Aluminum Coordination Sites as a Durable and Efficient Photocatalyst for Visible Light Utilization. ACS Catalysis, 2018, 8, 4241-4256.	5.5	118
106	Inactivation of Escherichia coli in the electrochemical disinfection process using a Pt anode. Chemosphere, 2007, 67, 652-659.	4.2	117
107	Role of platinum-like tungsten carbide as cocatalyst of CdS photocatalyst for hydrogen production under visible light irradiation. Applied Catalysis A: General, 2008, 346, 149-154.	2.2	115
108	Hydrogen producing water treatment through solar photocatalysis. Energy and Environmental Science, 2010, 3, 1042.	15.6	115

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109	Dye decolorization test for the activity assessment of visible light photocatalysts: Realities and limitations. Catalysis Today, 2014, 224, 21-28.	2.2	115
110	Exfoliated and reorganized graphite oxide on titania nanoparticles as an auxiliary co-catalyst for photocatalytic solar conversion. Physical Chemistry Chemical Physics, 2011, 13, 9425.	1.3	114
111	Platinum-like Behavior of Reduced Graphene Oxide as a Cocatalyst on TiO₂ for the Efficient Photocatalytic Oxidation of Arsenite. Environmental Science and Technology Letters, 2014, 1, 185-190.	3.9	114
112	Novel Photocatalytic Mechanisms for CHCl3, CHBr3, and CCl3CO2-Degradation and the Fate of Photogenerated Trihalomethyl Radicals on TiO2. Environmental Science & Technology, 1997, 31, 89-95.	4.6	113
113	A Strong Electronic Coupling between Graphene Nanosheets and Layered Titanate Nanoplates: A Softâ€Chemical Route to Highly Porous Nanocomposites with Improved Photocatalytic Activity. Small, 2012, 8, 1038-1048.	5.2	113
114	Highly enhanced photocatalytic oxidation of CO on titania deposited with Pt nanoparticles: kinetics and mechanism. Applied Catalysis B: Environmental, 2003, 46, 49-63.	10.8	112
115	Heterogeneous Catalytic Oxidation of As(III) on Nonferrous Metal Oxides in the Presence of H₂O₂. Environmental Science & Technology, 2015, 49, 3506-3513.	4.6	111
116	UV Photolytic Mechanism ofN-Nitrosodimethylamine in Water:Â Dual Pathways to Methylamine versus Dimethylamine. Environmental Science & Technology, 2005, 39, 2101-2106.	4.6	110
117	New nanoporous carbon materials with high adsorption capacity and rapid adsorption kinetics for removing humic acids. Microporous and Mesoporous Materials, 2003, 58, 131-135.	2.2	108
118	Effect of the Agglomerated State on the Photocatalytic Hydrogen Production with in Situ Agglomeration of Colloidal TiO₂ Nanoparticles. Journal of Physical Chemistry C, 2008, 112, 20451-20457.	1.5	107
119	Photocatalytic Oxidation of Arsenite on TiO2:Â Understanding the Controversial Oxidation Mechanism Involving Superoxides and the Effect of Alternative Electron Acceptors. Environmental Science & Technology, 2006, 40, 7034-7039.	4.6	106
120	Bifunctional Heterogeneous Catalysts for Selective Epoxidation and Visible Light Driven Photolysis: Nickel Oxideâ€Containing Porous Nanocomposite. Advanced Materials, 2008, 20, 539-542.	11.1	106
121	Visible light-induced reactions of humic acids on TiO2. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 148, 129-135.	2.0	105
122	Photocatalytic activity enhancement of PDI supermolecular via Ï€-Ï€ action and energy level adjusting with graphene quantum dots. Applied Catalysis B: Environmental, 2021, 281, 119547.	10.8	104
123	Fullerolâ€“Titania Chargeâ€Transferâ€Mediated Photocatalysis Working under Visible Light. Chemistry - A European Journal, 2009, 15, 10843-10850.	1.7	101
124	Fabrication of superior Î±-Fe2O3 nanorod photoanodes through ex-situ Sn-doping for solar water splitting. Solar Energy Materials and Solar Cells, 2016, 144, 247-255.	3.0	101
125	Enhanced Redox Conversion of Chromate and Arsenite in Ice. Environmental Science & Technology, 2011, 45, 2202-2208.	4.6	100
126	Blue TiO2 Nanotube Array as an Oxidant Generating Novel Anode Material Fabricated by Simple Cathodic Polarization. Electrochimica Acta, 2014, 141, 113-119.	2.6	98

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127	Robust Co-catalytic Performance of Nanodiamonds Loaded on WO₃ for the Decomposition of Volatile Organic Compounds under Visible Light. ACS Catalysis, 2016, 6, 8350-8360.	5.5	98
128	Effect of Platinum Deposits on TiO2on the Anoxic Photocatalytic Degradation Pathways of Alkylamines in Water:Â Dealkylation and N-Alkylation. Environmental Science & Technology, 2004, 38, 4026-4033.	4.6	97
129	Photochemical loading of metal nanoparticles on reduced graphene oxide sheets using phosphotungstate. Carbon, 2011, 49, 3454-3462.	5.4	97
130	TiO2 nanodisks designed for Li-ion batteries: a novel strategy for obtaining an ultrathin and high surface area anode material at the ice interface. Energy and Environmental Science, 2013, 6, 2932.	15.6	97
131	Photoreductive Dissolution of Iron Oxides Trapped in Ice and Its Environmental Implications. Environmental Science & Technology, 2010, 44, 4142-4148.	4.6	95
132	Glucoseâ€“TiO 2 charge transfer complex-mediated photocatalysis under visible light. Applied Catalysis B: Environmental, 2015, 162, 463-469.	10.8	94
133	Organic dye-sensitized TiO2 for the redox conversion of water pollutants under visible light. Chemical Communications, 2010, 46, 2477.	2.2	93
134	Role of Interparticle Charge Transfers in Agglomerated Photocatalyst Nanoparticles: Demonstration in Aqueous Suspension of Dye-Sensitized TiO₂. Journal of Physical Chemistry Letters, 2013, 4, 189-194.	2.1	93
135	Visible light photocatalysis of fullerol-complexed TiO2 enhanced by Nb doping. Applied Catalysis B: Environmental, 2014, 152-153, 233-240.	10.8	91
136	Selective photocatalytic degradation of aquatic pollutants by titania encapsulated into FAU-type zeolites. Journal of Hazardous Materials, 2011, 188, 198-205.	6.5	89
137	Selective charge transfer to dioxygen on KPF6-modified carbon nitride for photocatalytic synthesis of H2O2 under visible light. Journal of Catalysis, 2018, 357, 51-58.	3.1	89
138	Photocatalytic air purification mimicking the self-cleaning process of the atmosphere. Nature Communications, 2021, 12, 2528.	5.8	89
139	Enhancing the photoelectrochemical performance of hematite (Î±-Fe2O3) electrodes by cadmium incorporation. Applied Catalysis B: Environmental, 2011, 110, 207-215.	10.8	88
140	Spontaneous Generation of H₂O₂ and Hydroxyl Radical through O₂ Reduction on Copper Phosphide under Ambient Aqueous Condition. Environmental Science & Technology, 2019, 53, 2918-2925.	4.6	88
141	Oxidation on Zerovalent Iron Promoted by Polyoxometalate as an Electron Shuttle. Environmental Science & Technology, 2007, 41, 3335-3340.	4.6	87
142	Complexes of Fe(III)-organic pollutants that directly activate Fenton-like processes under visible light. Applied Catalysis B: Environmental, 2021, 283, 119663.	10.8	87
143	UV Photolytic Mechanism ofN-Nitrosodimethylamine in Water:Â Roles of Dissolved Oxygen and Solution pH. Environmental Science & Technology, 2005, 39, 9702-9709.	4.6	86
144	Activation of peroxymonosulfate on visible light irradiated TiO2 via a charge transfer complex path. Chemical Engineering Journal, 2018, 346, 249-257.	6.6	85

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145	OH radicals determined photocatalytic degradation mechanisms of gaseous styrene in TiO2 system under 254 nm versus 185 nm irradiation: Combined experimental and theoretical studies. Applied Catalysis B: Environmental, 2019, 257, 117912.	10.8	84
146	Kinetics and Mechanism of CCl4Photoreductive Degradation on TiO2:Â The Role of Trichloromethyl Radical and Dichlorocarbene. The Journal of Physical Chemistry, 1996, 100, 2161-2169.	2.9	83
147	Geometric Effect of Single or Double Metal-Tipped CdSe Nanorods on Photocatalytic H₂ Generation. Journal of Physical Chemistry Letters, 2012, 3, 3781-3785.	2.1	83
148	Visible-Light-Sensitized Production of Hydrogen Using Perfluorosulfonate Polymer-Coated TiO2Nanoparticles:Â An Alternative Approach to Sensitizer Anchoring. Langmuir, 2006, 22, 2906-2911.	1.6	82
149	Homogeneous photocatalytic Fe3+/Fe2+ redox cycle for simultaneous Cr(VI) reduction and organic pollutant oxidation: Roles of hydroxyl radical and degradation intermediates. Journal of Hazardous Materials, 2019, 372, 121-128.	6.5	82
150	Photocatalytic Oxidation Mechanism of As(III) on TiO₂: Unique Role of As(III) as a Charge Recombinant Species. Environmental Science & Technology, 2010, 44, 9099-9104.	4.6	80
151	Distorted Carbon Nitride Structure with Substituted Benzene Moieties for Enhanced Visible Light Photocatalytic Activities. ACS Applied Materials & Interfaces, 2017, 9, 40360-40368.	4.0	80
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