Detlef W Bahnemann

List of Publications by Year
in descending order

530 papers	58,704 citations	2543 96 h-index	1155 229 g-index
558 all docs	558 docs citations	558 times ranked	40171 citing authors

#	Article	IF	Citations
1	Environmental Applications of Semiconductor Photocatalysis. Chemical Reviews, 1995, 95, 69-96.	23.0	17,205
2	Understanding TiO₂ Photocatalysis: Mechanisms and Materials. Chemical Reviews, 2014, 114, 9919-9986.	23.0	4,658
3	Visible-light activation of TiO2 photocatalysts: Advances in theory and experiments. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2015, 25, 1-29.	5.6	1,013
4	Photoelectrocatalytic materials for environmental applications. Journal of Materials Chemistry, 2009, 19, 5089.	6.7	880
5	Photocatalytic water treatment: solar energy applications. Solar Energy, 2004, 77, 445-459.	2.9	843
6	Preparation and characterization of quantum-size titanium dioxide. The Journal of Physical Chemistry, 1988, 92, 5196-5201.	2.9	842
7	Enhancement of photocatalytic activity by metal deposition: characterisation and photonic efficiency of Pt, Au and Pd deposited on TiO2 catalyst. Water Research, 2004, 38, 3001-3008.	5.3	776
8	Preparation and characterization of quantum size zinc oxide: a detailed spectroscopic study. The Journal of Physical Chemistry, 1987, 91, 3789-3798.	2.9	715
9	Photolysis of chloroform and other organic molecules in aqueous titanium dioxide suspensions. Environmental Science & Technology, 1991, 25, 494-500.	4.6	672
10	Photocatalytic production of hydrogen peroxides and organic peroxides in aqueous suspensions of titanium dioxide, zinc oxide, and desert sand. Environmental Science & Technology, 1988, 22, 798-806.	4.6	624
11	Photochemical splitting of water for hydrogen production by photocatalysis: A review. Solar Energy Materials and Solar Cells, 2014, 128, 85-101.	3.0	578
12	Photocatalysis in water environments using artificial and solar light. Catalysis Today, 2000, 58, 199-230.	2.2	467
13	Charge Carrier Dynamics at TiO2 Particles:â€‰ Reactivity of Free and Trapped Holes. Journal of Physical Chemistry B, 1997, 101, 4265-4275.	1.2	458
14	Advanced oxidation of a reactive dyebath effluent: comparison of O3, H2O2/UV-C and TiO2/UV-A processes. Water Research, 2002, 36, 1143-1154.	5.3	424
15	Mesoporous titania photocatalysts: preparation, characterization and reaction mechanisms. Journal of Materials Chemistry, 2011, 21, 11686.	6.7	417
16	Undesired Role of Sacrificial Reagents in Photocatalysis. Journal of Physical Chemistry Letters, 2013, 4, 3479-3483.	2.1	398
17	Tailored Titanium Dioxide Nanomaterials: Anatase Nanoparticles and Brookite Nanorods as Highly Active Photocatalysts. Chemistry of Materials, 2010, 22, 2050-2060.	3.2	394
18	Flash photolysis observation of the absorption spectra of trapped positive holes and electrons in colloidal titanium dioxide. The Journal of Physical Chemistry, 1984, 88, 709-711.	2.9	391

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19	Well-designed 3D ZnIn2S4 nanosheets/TiO2 nanobelts as direct Z-scheme photocatalysts for CO2 photoreduction into renewable hydrocarbon fuel with high efficiency. Applied Catalysis B: Environmental, 2017, 219, 611-618.	10.8	375
20	TiO2 for water treatment: Parameters affecting the kinetics and mechanisms of photocatalysis. Applied Catalysis B: Environmental, 2010, 99, 398-406.	10.8	365
21	Charge carrier trapping, recombination and transfer during TiO2 photocatalysis: An overview. Catalysis Today, 2019, 335, 78-90.	2.2	350
22	A comparative study of nanometer sized Fe(iii)-doped TiO2photocatalysts: synthesis, characterization and activity. Journal of Materials Chemistry, 2003, 13, 2322-2329.	6.7	346
23	Photocatalytic Degradation of 4-Chlorophenol in Aerated Aqueous Titanium Dioxide Suspensions:Â A Kinetic and Mechanistic Study. Langmuir, 1996, 12, 6368-6376.	1.6	341
24	Heterogeneous photocatalytic organic synthesis: state-of-the-art and future perspectives. Green Chemistry, 2016, 18, 5391-5411.	4.6	336
25	The application of TiO2 photocatalysis for disinfection of water contaminated with pathogenic micro-organisms: a review. Research on Chemical Intermediates, 2007, 33, 359-375.	1.3	306
26	Advanced chemical oxidation of reactive dyes in simulated dyehouse effluents by ferrioxalate-Fenton/UV-A and TiO2/UV-A processes. Dyes and Pigments, 2000, 47, 207-218.	2.0	279
27	Photocatalytic oxidation of sulfur dioxide in aqueous suspensions of .alpha.-iron oxide (Fe2O3). The Journal of Physical Chemistry, 1989, 93, 6371-6381.	2.9	268
28	Kinetics and mechanisms of charge transfer processes in photocatalytic systems: A review. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2012, 13, 263-276.	5.6	264
29	Mechanistic studies of water detoxification in illuminated TiO2 suspensions. Solar Energy Materials and Solar Cells, 1991, 24, 564-583.	0.4	222
30	Enhancement of the photocatalytic activity of various TiO2 materials by platinisation. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 148, 223-231.	2.0	222
31	Photo-induced hydrophilicity and self-cleaning: models and reality. Energy and Environmental Science, 2012, 5, 7491.	15.6	222
32	Best Practice in Photocatalysis: Comparing Rates or Apparent Quantum Yields?. Journal of Physical Chemistry Letters, 2015, 6, 1907-1910.	2.1	216
33	A novel preparation of iron-doped TiO2 nanoparticles with enhanced photocatalytic activity. Chemical Communications, 2000, , 1539-1540.	2.2	207
34	Largeâ€scale Synthesis of Urchinâ€like Mesoporous TiO₂ Hollow Spheres by Targeted Etching and Their Photoelectrochemical Properties. Advanced Functional Materials, 2014, 24, 95-104.	7.8	204
35	Palladium Doped Porous Titania Photocatalysts: Impact of Mesoporous Order and Crystallinity. Chemistry of Materials, 2010, 22, 108-116.	3.2	203
36	Infrared spectra of oxalate, malonate and succinate adsorbed on the aqueous surface of rutile, anatase and lepidocrocite measured with in situ ATR-FTIR. Journal of Electron Spectroscopy and Related Phenomena, 2006, 150, 208-219.	0.8	194

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37	Gold Nanoparticles on Mesoporous Interparticle Networks of Titanium Dioxide Nanocrystals for Enhanced Photonic Efficiencies. Journal of Physical Chemistry C, 2009, 113, 7429-7435.	1.5	193
38	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
39	Comparative photocatalytic activity of solâ€“gel derived rare earth metal (La, Nd, Sm and Dy)-doped ZnO photocatalysts for degradation of dyes. RSC Advances, 2018, 8, 17582-17594.	1.7	193
40	Mechanism of the hydroxide ion-initiated decomposition of ozone in aqueous solution. The Journal of Physical Chemistry, 1982, 86, 255-259.	2.9	191
41	Heterogeneous photocatalytic treatment of simulated dyehouse effluents using novel TiO2-photocatalysts. Applied Catalysis B: Environmental, 2000, 26, 193-206.	10.8	188
42	Brookite versus anatase TiO2 photocatalysts: phase transformations and photocatalytic activities. Photochemical and Photobiological Sciences, 2013, 12, 602-609.	1.6	188
43	Enhancement of photocatalytic activity by semiconductor heterojunctions: Î±-Fe2O3, WO3 and CdS deposited on ZnO. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 148, 283-293.	2.0	185
44	Photocatalytic conversion of biomass into valuable products: a meaningful approach?. Green Chemistry, 2018, 20, 1169-1192.	4.6	181
45	Heterogeneous photocatalytic reactions comparing TiO2 and Pt/TiO2. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 148, 247-255.	2.0	178
46	Improving the Photocatalytic Performance of Mesoporous Titania Films by Modification with Gold Nanostructures. Chemistry of Materials, 2009, 21, 1645-1653.	3.2	170
47	Removal of microorganisms and their chemical metabolites from water using semiconductor photocatalysis. Journal of Hazardous Materials, 2012, 211-212, 161-171.	6.5	170
48	Highly efficient Y and V co-doped ZnO photocatalyst with enhanced dye sensitized visible light photocatalytic activity. Catalysis Today, 2017, 284, 169-178.	2.2	166
49	Detection of the intermediates of colloidal TiO2-catalysed photoreactions. Faraday Discussions of the Chemical Society, 1984, 78, 151.	2.2	165
50	Photocatalytic Activities of Different Well-defined Single Crystal TiO₂ Surfaces: Anatase versus Rutile. Journal of Physical Chemistry Letters, 2011, 2, 2461-2465.	2.1	164
51	A Facile Surface Passivation of Hematite Photoanodes with TiO₂ Overlayers for Efficient Solar Water Splitting. ACS Applied Materials & Interfaces, 2015, 7, 24053-24062.	4.0	164
52	Ultrasmall Metal Oxide Particles: Preparation, Photophysical Characterization, and Photocatalytic Properties. Israel Journal of Chemistry, 1993, 33, 115-136.	1.0	162
53	Photonic efficiency and quantum yield of formaldehyde formation from methanol in the presence of various TiO2 photocatalysts. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 148, 169-176.	2.0	161
54	Facile fabrication of highly efficient modified ZnO photocatalyst with enhanced photocatalytic, antibacterial and anticancer activity. RSC Advances, 2016, 6, 78335-78350.	1.7	154

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55	Mesostructured Pt/TiO₂ Nanocomposites as Highly Active Photocatalysts for the Photooxidation of Dichloroacetic Acid. Journal of Physical Chemistry C, 2011, 115, 5784-5791.	1.5	150
56	CO2 towards fuels: A review of catalytic conversion of carbon dioxide to hydrocarbons. Journal of Environmental Chemical Engineering, 2021, 9, 104756.	3.3	147
57	Solar water treatment: principles and reactors. Water Science and Technology, 1997, 35, 137-148.	1.2	142
58	Photodestruction of dichloroacetic acid catalyzed by nano-sized TiO2 particles. Applied Catalysis B: Environmental, 2002, 36, 161-169.	10.8	140
59	One-step hydrothermal synthesis of Bi-TiO2 nanotube/graphene composites: An efficient photocatalyst for spectacular degradation of organic pollutants under visible light irradiation. Applied Catalysis B: Environmental, 2017, 218, 758-769.	10.8	138
60	Construction of ternary hybrid layered reduced graphene oxide supported g-C 3 N 4 -TiO 2 nanocomposite and its photocatalytic hydrogen production activity. International Journal of Hydrogen Energy, 2018, 43, 3892-3904.	3.8	137
61	Ease synthesis of mesoporous WO3â€“TiO2 nanocomposites with enhanced photocatalytic performance for photodegradation of herbicide imazapyr under visible light and UV illumination. Journal of Hazardous Materials, 2016, 307, 43-54.	6.5	131
62	Enhanced Photoelectrochemical Water Oxidation on Nanostructured Hematite Photoanodes via p-CaFe₂O₄/n-Fe₂O₃ Heterojunction Formation. Journal of Physical Chemistry C, 2015, 119, 5864-5871.	1.5	130
63	WO3â€“TiO2 vs. TiO2 photocatalysts: effect of the W precursor and amount on the photocatalytic activity of mixed oxides. Catalysis Today, 2013, 209, 28-34.	2.2	129
64	Quantum Yield of Formaldehyde Formation in the Presence of Colloidal TiO2-Based Photocatalysts:â€‰ Effect of Intermittent Illumination, Platinization, and Deoxygenation. Journal of Physical Chemistry B, 2004, 108, 14082-14092.	1.2	126
65	A fine route to tune the photocatalytic activity of TiO2. Applied Catalysis B: Environmental, 2006, 63, 31-40.	10.8	125
66	Environmental photochemistry: Is iron oxide (hematite) an active photocatalyst? A comparative study: Î±-Fe2O3, ZnO, TiO2. Journal of Photochemistry and Photobiology A: Chemistry, 1989, 48, 161-169.	2.0	123
67	Visible light activated carbon and nitrogen co-doped mesoporous TiO2 as efficient photocatalyst for degradation of ibuprofen. Separation and Purification Technology, 2017, 173, 258-268.	3.9	122
68	Preparation and Characterization of Transparent Hydrophilic Photocatalytic TiO₂/SiO₂ Thin Films on Polycarbonate. Langmuir, 2013, 29, 3730-3739.	1.6	120
69	Bi₂WO₆ Inverse Opals: Facile Fabrication and Efficient Visibleâ€Lightâ€Driven Photocatalytic and Photoelectrochemical Waterâ€Splitting Activity. Small, 2011, 7, 2714-2720.	5.2	119
70	Formation of Nitroaromatic Compounds in Advanced Oxidation Processes:Â Photolysis versus Photocatalysis. Environmental Science & Technology, 1999, 33, 294-300.	4.6	117
71	The role of electron transfer in photocatalysis: Fact and fictions. Applied Catalysis B: Environmental, 2012, 128, 91-104.	10.8	116
72	pH-Control of the Photocatalytic Degradation Mechanism of Rhodamine B over Pb₃Nb₄O₁₃. Journal of Physical Chemistry C, 2011, 115, 8014-8023.	1.5	115

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73	Photonic efficiency and mechanism of photocatalytic molecular hydrogen production over platinized titanium dioxide from aqueous methanol solutions. Catalysis Today, 2011, 161, 196-201.	2.2	115
74	Electron transfer reactions of halogenated aliphatic peroxyl radicals: measurement of absolute rate constants by pulse radiolysis. Journal of the Chemical Society Perkin Transactions II, 1980, , 296.	0.9	113
75	Formation of positive ions and other primary species in the oxidation of sulphides by hydroxyl radicals. Journal of the Chemical Society Perkin Transactions II, 1975, , 675-685.	0.9	112
76	Light-induced degradation of perfluorocarboxylic acids in the presence of titanium dioxide. Chemosphere, 2007, 67, 785-792.	4.2	112
77	Photoelectrochemical and theoretical investigations of spinel type ferrites (M_xFe_{3â^'x}O₄) for water splitting: a mini-review. Journal of Photonics for Energy, 2016, 7, 012009.	0.8	111
78	Solar Water Detoxification: Novel TiO2 Powders as Highly Active Photocatalysts. Journal of Solar Energy Engineering, Transactions of the ASME, 1997, 119, 120-125.	1.1	110
79	In situ synthesis of ZnO/ZnTe common cation heterostructure and its visible-light photocatalytic reduction of CO2 into CH4. Applied Catalysis B: Environmental, 2015, 166-167, 345-352.	10.8	110
80	Photocatalytic reduction of Cr(VI) on hematite nanoparticles in the presence of oxalate and citrate. Applied Catalysis B: Environmental, 2019, 242, 218-226.	10.8	110
81	Heterogeneous photocatalysed degradation of two selected pesticide derivatives, triclopyr and daminozid in aqueous suspensions of titanium dioxide. Journal of Environmental Management, 2006, 80, 99-106.	3.8	108
82	TiO2 decoration of graphene layers for highly efficient photocatalyst: Impact of calcination at different gas atmosphere on photocatalytic efficiency. Applied Catalysis B: Environmental, 2013, 129, 62-70.	10.8	108
83	Highly Active Crystalline Mesoporous TiO₂ Films Coated onto Polycarbonate Substrates for Self-Cleaning Applications. Journal of Physical Chemistry C, 2011, 115, 10405-10411.	1.5	107
84	Efficient photocatalysis of the irreversible one-electron and two-electron reduction of halothane on platinized colloidal titanium dioxide in aqueous suspension. The Journal of Physical Chemistry, 1987, 91, 3782-3788.	2.9	106
85	Self-Cleaning Properties, Mechanical Stability, and Adhesion Strength of Transparent Photocatalytic TiO₂â€“ZnO Coatings on Polycarbonate. ACS Applied Materials & Interfaces, 2014, 6, 2270-2278.	4.0	106
86	Highly Efficient and Selective Oxidation of Aromatic Alcohols Photocatalyzed by Nanoporous Hierarchical Pt/Bi₂WO₆ in Organic Solvent-Free Environment. ACS Applied Materials & Interfaces, 2015, 7, 1257-1269.	4.0	106
87	Soft and hard templates assisted synthesis mesoporous CuO/g-C3N4 heterostructures for highly enhanced and accelerated Hg(II) photoreduction under visible light. Journal of Colloid and Interface Science, 2020, 580, 223-233.	5.0	106
88	Photocatalytic degradation of organic compounds: accelerating the process efficiency. Water Science and Technology, 1997, 35, 79-86.	1.2	105
89	Titanium dioxide mediated photocatalytic degradation of 1,2-diethyl phthalate. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 143, 213-219.	2.0	104
90	ATR-FTIR measurements and quantum chemical calculations concerning the adsorption and photoreaction of oxalic acid on TiO2. Physical Chemistry Chemical Physics, 2006, 8, 3232.	1.3	103

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91	Versatile Aerogel Fabrication by Freezing and Subsequent FreezeâEDrying of Colloidal Nanoparticle Solutions. Angewandte Chemie - International Edition, 2016, 55, 1200-1203.	7.2	103
92	Long-term investigation of the photocatalytic hydrogen production on platinized TiO2: an isotopic study. Energy and Environmental Science, 2014, 7, 1420.	15.6	102
93	One-pot, self-assembled hydrothermal synthesis of 3D flower-like CuS/g-C3N4 composite with enhanced photocatalytic activity under visible-light irradiation. Journal of Physics and Chemistry of Solids, 2018, 115, 59-68.	1.9	102
94	Hematite and Magnetite Nanostructures for Green and Sustainable Energy Harnessing and Environmental Pollution Control: A Review. Chemical Research in Toxicology, 2020, 33, 1292-1311.	1.7	102
95	Iron-based photocatalytic and photoelectrocatalytic nano-structures: Facts, perspectives, and expectations. Applied Catalysis B: Environmental, 2019, 244, 1065-1095.	10.8	100
96	Nanoporous TiO2 spheres with tailored textural properties: Controllable synthesis, formation mechanism, and photochemical applications. Progress in Materials Science, 2020, 109, 100620.	16.0	100
97	Addition of oxygen to organic sulfur radicals. The Journal of Physical Chemistry, 1978, 82, 2777-2780.	2.9	99
98	Photocatalytic degradation of naphthalene and anthracene: GC-MS analysis of the degradation pathway. Research on Chemical Intermediates, 1997, 23, 247-274.	1.3	99
99	Large scale studies in solar catalytic wastewater treatment. Catalysis Today, 1999, 54, 267-282.	2.2	99
100	H 2 O 2 /UV-C and Fe 2+ /H 2 O 2 /UV-C versus TiO 2 /UV-A Treatment for Reactive Dye Wastewater. Journal of Environmental Engineering, ASCE, 2000, 126, 903-911.	0.7	99
101	One-step synthesis of mesoporous platinum/titania nanocomposites as photocatalyst with enhanced photocatalytic activity for methanol oxidation. Green Chemistry, 2011, 13, 428.	4.6	99
102	Layer-by-Layer TiO₂/WO₃ Thin Films As Efficient Photocatalytic Self-Cleaning Surfaces. ACS Applied Materials & Interfaces, 2014, 6, 16859-16866.	4.0	99
103	Modeling and Optimization of the Photocatalytic Reduction of Molecular Oxygen to Hydrogen Peroxide over Titanium Dioxide. ACS Catalysis, 2019, 9, 25-37.	5.5	98
104	Direct Synthesis of Photocatalytically Active Rutile TiO₂ Nanorods Partly Decorated with Anatase Nanoparticles. Journal of Physical Chemistry C, 2010, 114, 4909-4915.	1.5	93
105	Research Update: Photoelectrochemical water splitting and photocatalytic hydrogen production using ferrites (MFe2O4) under visible light irradiation. APL Materials, 2015, 3, .	2.2	92
106	Preparation and characterization of a novel photocatalytic self-cleaning PES nanofiltration membrane by embedding a visible-driven photocatalyst boron doped-TiO2SiO2/CoFe2O4 nanoparticles. Separation and Purification Technology, 2019, 209, 764-775.	3.9	91
107	Antenna mechanism and deaggregation concept: novel mechanistic principles for photocatalysis. Comptes Rendus Chimie, 2006, 9, 761-773.	0.2	90
108	Kinetic and Mechanistic Investigations of Multielectron Transfer Reactions Induced by Stored Electrons in TiO₂ Nanoparticles: A Stopped Flow Study. Journal of Physical Chemistry A, 2011, 115, 2139-2147.	1.1	90

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109	Toxicity, phototoxicity and biocidal activity of nanoparticles employed in photocatalysis. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2016, 29, 1-28.	5.6	90
110	Twoâ€Ðimensional Layered Zinc Silicate Nanosheets with Excellent Photocatalytic Performance for Organic Pollutant Degradation and CO₂ Conversion. Angewandte Chemie - International Edition, 2019, 58, 8103-8108.	7.2	90
111	Enhanced photocatalytic production of molecular hydrogen on TiO2 modified with Ptâ€“polypyrrole nanocomposites. Photochemical and Photobiological Sciences, 2009, 8, 683-690.	1.6	88
112	Mesostructure Au/TiO2 nanocomposites for highly efficient catalytic reduction of p-nitrophenol. Journal of Molecular Catalysis A, 2012, 358, 145-151.	4.8	88
113	Inverse Opal Photonic Crystals as a Strategy to Improve Photocatalysis: Underexplored Questions. Journal of Physical Chemistry Letters, 2015, 6, 3903-3910.	2.1	88
114	Effect of the degree of inversion on optical properties of spinel ZnFe₂O₄. Physical Chemistry Chemical Physics, 2018, 20, 28267-28278.	1.3	88
115	Performance of mesoporous Î±-Fe2O3/g-C3N4 heterojunction for photoreduction of Hg(II) under visible light illumination. Ceramics International, 2020, 46, 23098-23106.	2.3	88
116	Fundamental problems of water splitting at cadmium sulfide. Chemical Physics Letters, 1986, 127, 419-423.	1.2	87
117	TiO₂ Thin Film Electrodes: Correlation between Photocatalytic Activity and Electrochemical Properties. Journal of Physical Chemistry C, 2008, 112, 19097-19101.	1.5	87
118	Hydroxyapatite/titanium dioxide nanocomposites for controlled photocatalytic NO oxidation. Applied Catalysis B: Environmental, 2011, 106, 398-404.	10.8	87
119	Quantum yields of hydroxyl radicals in illuminated TiO2 nanocrystallite layers. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 148, 387-391.	2.0	86
120	Photonic efficiency for methanol photooxidation and hydroxyl radical generation on silica-supported TiO2 photocatalysts. Applied Catalysis B: Environmental, 2006, 62, 201-207.	10.8	86
121	Structure and stability of radical cations from cyclic and open-chain dithia compounds in aqueous solutions. Journal of the American Chemical Society, 1979, 101, 5322-5329.	6.6	85
122	One electron reduction of CCl4 in oxygenated aqueous solutions: A CCl3O2â€¢-free radical mediated formation of Clâ˙ and CO2. Chemico-Biological Interactions, 1983, 47, 15-27.	1.7	85
123	Cobalt(II) tetrasulfophthalocyanine on titanium dioxide: A new efficient electron relay for the photocatalytic formation and depletion of hydrogen peroxide in aqueous suspensions. The Journal of Physical Chemistry, 1987, 91, 2109-2117.	2.9	83
124	Photodegradation of methylene blue in water, a standard method to determine the activity of photocatalytic coatings?. Research on Chemical Intermediates, 2008, 34, 381-392.	1.3	83
125	Mesoporous TiO2 nanocrystals as efficient photocatalysts: Impact of calcination temperature and phase transformation on photocatalytic performance. Chemical Engineering Journal, 2015, 264, 417-424.	6.6	83
126	Designing Optimal Metal-Doped Photocatalysts: Correlation between Photocatalytic Activity, Doping Ratio, and Particle Size. Journal of Physical Chemistry C, 2012, 116, 25558-25562.	1.5	82

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127	Novel Ag decorated, BiOCl surface doped AgVO3 nanobelt ternary composite with Z-scheme homojunction-heterojunction interface for high prolific photo switching, quantum efficiency and hole mediated photocatalysis. Applied Catalysis B: Environmental, 2021, 293, 120224.	10.8	82
128	Semiconductor-mediated photocatalyzed degradation of two selected pesticide derivatives, terbacil and 2,4,5-tribromoimidazole, in aqueous suspension. Applied Catalysis B: Environmental, 2002, 36, 95-111.	10.8	81
129	FT-IRâ€“ATR as a tool to probe photocatalytic interfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 265, 73-80.	2.3	81
130	Mesoporous TiO2 nanostructures: a route to minimize Pt loading on titania photocatalysts for hydrogen production. Physical Chemistry Chemical Physics, 2011, 13, 20155.	1.3	81
131	Influence of the Dopant Concentration on the Photocatalytic Activity: Al-Doped TiO₂. Journal of Physical Chemistry C, 2015, 119, 24695-24703.	1.5	81
132	Rate constants of the reaction of the hydrated electron and hydroxyl radical with ozone in aqueous solution. The Journal of Physical Chemistry, 1982, 86, 252-255.	2.9	80
133	Photocatalytic detoxification with the thin-film fixed-bed reactor (TFFBR): Clean-up of highly polluted landfill effluents using a novel TiO2-photocatalyst. Solar Energy, 1996, 56, 455-469.	2.9	80
134	Novel (and better?) titania-based photocatalysts: Brookite nanorods and mesoporous structures. Journal of Photochemistry and Photobiology A: Chemistry, 2010, 216, 183-193.	2.0	78
135	Highly active non-metals doped mixed-phase TiO 2 for photocatalytic oxidation of ibuprofen under visible light. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 346, 530-540.	2.0	78
136	Photodegradation of the herbicide imazapyr over mesoporous In2O3-TiO2 nanocomposites with enhanced photonic efficiency. Separation and Purification Technology, 2018, 205, 66-73.	3.9	78
137	Rh/TiO₂-Photocatalyzed Acceptorless Dehydrogenation of N-Heterocycles upon Visible-Light Illumination. ACS Catalysis, 2020, 10, 5542-5553.	5.5	78
138	Composite hydroxyapatite/TiO2 materials for photocatalytic oxidation of NOx. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 1046-1052.	1.7	77
139	Photodeposition of precious metals onto mesoporous TiO2 nanocrystals with enhanced their photocatalytic activity for methanol oxidation. Catalysis Today, 2013, 209, 2-7.	2.2	76
140	Study of the Efficiency of UV and Visibleâ€Light Photocatalytic Oxidation of Methanol on Mesoporous RuO₂â€“TiO₂ Nanocomposites. ChemPhysChem, 2011, 12, 982-991.	1.0	75
141	The nature of chlorine-inhibition of photocatalytic degradation of dichloroacetic acid in a TiO2-based microreactor. Physical Chemistry Chemical Physics, 2014, 16, 14867.	1.3	75
142	Photocatalytic degradation of different chromophoric dyes in aqueous phase using La and Mo doped TiO2 hybrid carbon spheres. Journal of Alloys and Compounds, 2015, 632, 837-844.	2.8	75
143	A comparative study on mesoporous and commercial TiO2 photocatalysts for photodegradation of organic pollutants. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 367, 66-73.	2.0	75
144	Semiconductor-Mediated Photocatalyzed Degradation of a Herbicide Derivative, Chlorotoluron, in Aqueous Suspensions. Environmental Science & Technology, 2006, 40, 4765-4770.	4.6	74

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145	Three dimensional spheroid cell culture for nanoparticle safety testing. Journal of Biotechnology, 2015, 205, 120-129.	1.9	74
146	Surface-grafted WO3/TiO2 photocatalysts: Enhanced visible-light activity towards indoor air purification. Catalysis Today, 2018, 313, 63-71.	2.2	74
147	Synthesis and photocatalytic properties of nanocrystalline Au, Pd and Pt photodeposited onto mesoporous RuO2-TiO2 nanocomposites. Applied Catalysis A: General, 2012, 431-432, 62-68.	2.2	73
148	Facile Synthesis of Highly Ordered Mesoporous and Well Crystalline TiO₂: Impact of Different Gas Atmosphere and Calcination Temperatures on Structural Properties. Chemistry of Materials, 2012, 24, 1268-1275.	3.2	73
149	Visible-Light-Mediated Photocatalytic Aerobic Dehydrogenation of N-heterocycles by Surface-Grafted TiO₂ and 4-amino-TEMPO. ACS Catalysis, 2019, 9, 10694-10704.	5.5	72
150	Decoration of g-C3N4 nanosheets by mesoporous CoFe2O4 nanoparticles for promoting visible-light photocatalytic Hg(II) reduction. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 603, 125206.	2.3	72
151	Heterogeneous photocatalysed reaction of three selected pesticide derivatives, propham, propachlor and tebuthiuron in aqueous suspensions of titanium dioxide. Chemosphere, 2005, 61, 457-468.	4.2	70
152	Investigations of the Toxic Effect of Silver Nanoparticles on Mammalian Cell Lines. Journal of Nanomaterials, 2015, 2015, 1-9.	1.5	70
153	Photocatalytic activity of hydrophobized mesoporous thin films of TiO2. Microporous and Mesoporous Materials, 2005, 84, 247-253.	2.2	69
154	Photocatalytic degradation of trinitrotoluene and other nitroaromatic compounds. Chemosphere, 1995, 30, 2333-2341.	4.2	68
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