Photocatalytic oxidation for indoor air purification: a lit

Building and Environment 38, 645-654

DOI: 10.1016/s0360-1323(02)00212-3

Citation Report

#	Article	IF	CITATIONS
1	A new kinetic model for titanium dioxide mediated heterogeneous photocatalytic degradation of trichloroethylene in gas-phase. Applied Catalysis B: Environmental, 2004, 54, 261-274.	10.8	64
2	New approach to enhance the photocatalytic activity of plasma sprayed TiO2 coatings using p-n junctions. Surface and Coatings Technology, 2004, 184, 233-238.	2.2	55
3	Kinetic study of ketones photocatalytic oxidation in gas phase using TiO2-containing paper: effect of water vapor. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 163, 425-431.	2.0	88
4	Monodisperse Nanoparticle Synthesis by an Atmospheric Pressure Plasma Process:Â An Example of a Visible Light Photocatalyst. Industrial & Engineering Chemistry Research, 2004, 43, 7200-7203.	1.8	13
5	Photochemical and photocatalytic degradation of gaseous toluene using short-wavelength UV irradiation with TiO2 catalyst: comparison of three UV sources. Chemosphere, 2004, 57, 663-671.	4.2	154
6	Photocatalytic oxidation of n-butanol under fluorescent visible light lamp over commercial TiO2 (Hombicat UV100 and Degussa P25). Applied Catalysis A: General, 2005, 282, 321-332.	2.2	81
7	Photodegradation of gaseous volatile organic compounds (VOCs) using TiO2 photoirradiated by an ozone-producing UV lamp: decomposition characteristics, identification of by-products and water-soluble organic intermediates. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 169, 279-287.	2.0	144
8	Use of Zeolite Membrane Reactors for the Combustion of VOCs Present in Air at Low Concentrations. Chemical Engineering Research and Design, 2005, 83, 295-301.	2.7	26
9	Development of a new photocatalytic oxidation air filter for aircraft cabin. Indoor Air, 2005, 15, 326-334.	2.0	26
10	Titanium dioxide mediated heterogeneous photocatalytic degradation of gaseous dimethyl sulfide: Parameter study and reaction pathways. Applied Catalysis B: Environmental, 2005, 60, 93-106.	10.8	67
11	Measurement of benzene, toluene, ethylbenzene and o-xylene gas phase photodegradation by titanium dioxide dispersed in cementitious materials using a mixed flow reactor. Applied Catalysis B: Environmental, 2005, 61, 90-97.	10.8	181
12	Visible light mediated photocatalytic degradation of gaseous trichloroethylene and dimethyl sulfide on modified titanium dioxide. Applied Catalysis B: Environmental, 2005, 61, 140-149.	10.8	113
13	Ti-montmorillonite as photocatalyst to remove 4-chlorophenol in water and methanol in air. Environmental Chemistry Letters, 2005, 2, 191-194.	8.3	35
14	Disinfection and Bactericidal Effect Using Photocatalytic Oxidation. HKIE Transactions, 2005, 12, 39-43.	1.9	1
15	Photocatalytic Inactivation of Bioaerosols by TiO2 Coated Membrane. International Journal of Chemical Reactor Engineering, 2005, 3, .	0.6	21
16	Photocatalytic oxidation of gaseous DMF using thin film TiO2 photocatalyst. Chemosphere, 2005, 58, 1071-1078.	4.2	40
17	Heterogeneous Decomposition of Indoor Ammonia in a Photoreactor with TiO2-Finished Cotton Fabrics. Environmental Technology (United Kingdom), 2006, 27, 705-714.	1.2	6
18	Transition Metal Ion Impregnated Mesoporous TiO2for Photocatalytic Degradation of Organic Contaminants in Water. Industrial & Engineering Chemistry Research, 2006, 45, 5231-5238.	1.8	169

#	Article	IF	CITATIONS
19	Photocatalytic Oxidation of Methyl Mercaptan in Foul Gas for Odor Control. Industrial & Engineering Chemistry Research, 2006, 45, 487-494.	1.8	39
20	Immobilization of TiO2 Photocatalyst Particles on Stainless Steel Substrates by Electrolytically Deposited Pd and Cu. Journal of the Ceramic Society of Japan, 2006, 114, 42-45.	1.3	13
21	What is IAQ?. Indoor Air, 2006, 16, 328-334.	2.0	118
22	Photocatalytic Process for CO2Emission Reduction from Industrial Flue Gas Streams. Industrial & Engineering Chemistry Research, 2006, 45, 2558-2568.	1.8	311
23	2-D radiation field in photocatalytic channels of square, rectangular, equilateral triangular and isosceles triangular sections. Chemical Engineering Science, 2006, 61, 516-525.	1.9	22
24	Flow field investigation in a photocatalytic reactor for air treatment (Photo-CREC–air). Chemical Engineering Science, 2006, 61, 3343-3361.	1.9	27
25	The correlation between photocatalytic oxidation performance and chemical/physical properties of indoor volatile organic compounds. Atmospheric Environment, 2006, 40, 375-385.	1.9	63
26	Modeling of a multiannular photocatalytic reactor for perchloroethylene degradation in air. AICHE Journal, 2006, 52, 1814-1823.	1.8	38
27	Incorporating mass transfer theory to model continuous flow type photocatalytic reactors for integration into novel low energy ventilation systems. Journal of the Energy Institute, 2006, 79, 131-138.	2.7	0
28	Heterogeneously Catalyzed Processes with Porous Cellular Ceramic Monoliths. , 2006, , 454-483.		5
30	Photooxidation of Some Organic Sulfides under UV Light Irradiation Using Titanium Dioxide Photocatalyst. International Journal of Photoenergy, 2007, 2007, 1-7.	1.4	6
31	Heterogeneous Photocatalysis as an Advanced Oxidation Process for the Abatement of Chlorinated, Monocyclic Aromatic and Sulfurous Volatile Organic Compounds in Air: State of the Art. Critical Reviews in Environmental Science and Technology, 2007, 37, 489-538.	6.6	181
32	Preparation and evaluation of photocatalytic activity of poly(dimethylsiloxane)–titanium dioxide composites. Plastics, Rubber and Composites, 2007, 36, 360-364.	0.9	13
33	Study of formaldehyde photocatalytic degradation using nano TiO 2. Proceedings of SPIE, 2007, , .	0.8	1
34	Volatile organic compounds in indoor environment and photocatalytic oxidation: State of the art. Environment International, 2007, 33, 694-705.	4.8	558
35	Photocatalytic oxidation of nitrogen oxides using TiO2 loading on woven glass fabric. Chemosphere, 2007, 66, 185-190.	4.2	134
36	Abatement and degradation pathways of toluene in indoor air by positive corona discharge. Chemosphere, 2007, 68, 1821-1829.	4.2	214
37	Performance Evaluation of Photocatalytic Reactors for Air Purification Using Computational Fluid Dynamics (CFD). Industrial & Engineering Chemistry Research, 2007, 46, 5867-5880.	1.8	31

3

#	Article	IF	CITATIONS
39	Current State of Nanostructured TiO2-based Catalysts: Preparation Methods. , 2007, , 207-229.		3
40	Photocatalytic Surface Reactions on Indoor Wall Paint. Environmental Science & Eamp; Technology, 2007, 41, 6573-6578.	4.6	133
41	PTR-MS Assessment of Photocatalytic and Sorption-Based Purification of Recirculated Cabin Air during Simulated 7-h Flights with High Passenger Density. Environmental Science & Environmental Science	4.6	52
42	Photocatalytic Degradation of Two Volatile Fatty Acids in an Annular Plug-Flow Reactor; Kinetic Modeling and Contribution of Mass Transfer Rate. Environmental Science & Envir	4.6	33
43	A Semi-Continuous, Regenerable System for Trace Contaminant Control in Closed Atmospheres. , 2007,		0
44	Radiation field optimization in photocatalytic monolith reactors for air treatment. AICHE Journal, 2007, 53, 678-686.	1.8	45
45	Monte Carlo model of UVâ€radiation interaction with TiO ₂ â€coated spheres. AICHE Journal, 2007, 53, 2688-2703.	1.8	28
46	Preliminary study of the performance and operating characteristics of a mop-fan air cleaning system for buildings. Building and Environment, 2007, 42, 3241-3252.	3.0	15
47	Design consideration of photocatalytic oxidation reactors using TiO2-coated foam nickels for degrading indoor gaseous formaldehyde. Catalysis Today, 2007, 126, 359-368.	2.2	54
48	Rapid removal of trace HCHO from indoor air by an air purifier consisting of a continuous concentrator and photocatalytic reactor and its computer simulation. Chemical Engineering Journal, 2007, 127, 157-165.	6.6	17
49	Simulation of a multi-annular photocatalytic reactor for degradation of perchloroethylene in air: Parametric analysis of radiative energy efficiencies. Chemical Engineering Science, 2007, 62, 1138-1154.	1.9	51
50	Theoretical study on photocatalytic oxidation of VOCs using nano-TiO2 photocatalyst. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 188, 65-73.	2.0	76
51	Photocatalytic degradation of gaseous benzene over TiO2/Sr2CeO4: Kinetic model and degradation mechanisms. Journal of Hazardous Materials, 2007, 139, 323-331.	6.5	59
52	Different methods in TiO2 photodegradation mechanism studies: Gaseous and TiO2-adsorbed phases. Journal of Hazardous Materials, 2007, 144, 692-697.	6.5	41
53	Effect of deposition of Ag on TiO2 nanoparticles on the photodegradation of Reactive Yellow-17. Journal of Hazardous Materials, 2007, 147, 906-913.	6.5	192
54	Photocatalytic degradation of NOx gases using TiO2-containing paint: A real scale study. Journal of Hazardous Materials, 2007, 146, 668-673.	6.5	186
55	A review and recent developments in photocatalytic water-splitting using TiO2 for hydrogen production. Renewable and Sustainable Energy Reviews, 2007, 11, 401-425.	8.2	3,632
56	Degradation of indoor gaseous formaldehyde by hybrid VUV and TiO2/UV processes. Separation and Purification Technology, 2007, 54, 204-211.	3.9	83

#	Article	IF	CITATIONS
57	Performance of ultraviolet photocatalytic oxidation for indoor air cleaning applications. Indoor Air, 2007, 17, 305-316.	2.0	143
58	Nano-TiO2-Coated Unidirectional Porous Glass Structure Prepared by Freeze Drying and Solution Infiltration. Journal of the American Ceramic Society, 2007, 90, 1265-1268.	1.9	26
59	Decomposition of indoor ammonia with TiO2-loaded cotton woven fabrics prepared by different textile finishing methods. Atmospheric Environment, 2007, 41, 3182-3192.	1.9	56
60	Decomposition of low-concentration gas-phase toluene using plasma-driven photocatalyst reactor. Atmospheric Environment, 2007, 41, 6853-6859.	1.9	43
61	Study on light intensity in the process of photocatalytic degradation of indoor gaseous formaldehyde for saving energy. Energy Conversion and Management, 2007, 48, 882-889.	4.4	67
62	Photocatalytic oxidation of propene at low concentration. Applied Catalysis B: Environmental, 2007, 71, 298-309.	10.8	30
63	Photocatalytic degradation of two volatile fatty acids in monocomponent and multicomponent systems: Comparison between batch and annular photoreactors. Applied Catalysis B: Environmental, 2007, 74, 187-196.	10.8	10
64	Modeling of photocatalytic oxidation of VOCs in a packed bed reactor under continuous and discontinuous illuminations. Korean Journal of Chemical Engineering, 2007, 24, 577-582.	1.2	1
65	Microstructural Analysis and Photocatalytic Activity of Plasma-Sprayed Titania-Hydroxyapatite Coatings. Journal of Thermal Spray Technology, 2007, 16, 776-782.	1.6	28
66	Hydrogen Production by Photo-Induced Reforming of Biomass Components and Derivatives at Ambient Conditions. Catalysis Letters, 2008, 122, 26-32.	1.4	305
67	The photocatalytic activity of TiO2 foam and surface modified binary oxide titania nanoparticles. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 197, 321-328.	2.0	20
68	Microwave photocatalysis of mono-chloroacetic acid over nanoporous titanium(IV) oxide thin films using mercury electrodeless discharge lamps. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 198, 13-17.	2.0	36
69	Photocatalytic degradation of ammonia and butyric acid in plug-flow reactor: Degradation kinetic modeling with contribution of mass transfer. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 200, 254-261.	2.0	52
70	Heterogeneous photocatalytic degradation of organic contaminants over titanium dioxide: A review of fundamentals, progress and problems. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2008, 9, 1-12.	5.6	2,450
71	Photocatalytic oxidation of nitric oxide with immobilized titanium dioxide films synthesized by hydrothermal method. Journal of Hazardous Materials, 2008, 151, 17-25.	6.5	43
72	Photodegradation kinetics of formaldehyde using light sources of UVA, UVC and UVLED in the presence of composed silver titanium oxide photocatalyst. Journal of Hazardous Materials, 2008, 155, 164-172.	6.5	188
73	Hazard reduction for the application of titania nanoparticles in environmental technology. Journal of Hazardous Materials, 2008, 152, 440-445.	6.5	72
74	Nb2O5 as efficient and recyclable photocatalyst for indigo carmine degradation. Applied Catalysis B: Environmental, 2008, 82, 219-224.	10.8	300

#	ARTICLE	IF	CITATIONS
75	Kinetic modeling of photocatalytic degradation reactions: Effect of charge trapping. Applied Catalysis B: Environmental, 2008, 84, 65-74.	10.8	9
76	Influence of water vapour on plasma/photocatalytic oxidation efficiency of acetylene. Applied Catalysis B: Environmental, 2008, 84, 813-820.	10.8	47
77	Influence of fins on formaldehyde removal in annular photocatalytic reactors. Building and Environment, 2008, 43, 238-245.	3.0	33
78	Photocatalytic effect on plasmid DNA damage under different UV irradiation time. Building and Environment, 2008, 43, 253-257.	3.0	31
79	Comparison of strategies to improve indoor air quality at the pre-occupancy stage in new apartment buildings. Building and Environment, 2008, 43, 320-328.	3.0	59
80	Heterogeneous photocatalytic removal of toluene from air on building materials enriched with TiO2. Building and Environment, 2008, 43, 406-414.	3.0	151
81	Photocatalytic oxidation of toluene in the gas phase: Modelling an annular photocatalytic reactor. Catalysis Today, 2008, 137, 350-356.	2.2	63
82	Photocatalytic degradation of 2-propanol by using Pt/TiO2 prepared by microemulsion technique. Chemical Engineering Journal, 2008, 137, 489-495.	6.6	47
83	Visible-light-induced degradation of formaldehyde over titania photocatalyst co-doped with nitrogen and nickel. Applied Surface Science, 2008, 254, 4780-4785.	3.1	112
84	The influence of photocatalytic interior paints on indoor air quality. Atmospheric Environment, 2008, 42, 4101-4112.	1.9	136
85	Oxide Materials in Photocatalytic Processes. , 0, , 755-769.		1
86	Photocatalytic activity of surface modified TiO2/RuO2/SiO2 nanoparticles for azo-dye degradation. Catalysis Communications, 2008, 9, 153-157.	1.6	48
87	Photocatalytic Removal of Pesticide Dichlorvos from Indoor Air: A Study of Reaction Parameters, Intermediates and Mineralization. Environmental Science & Eamp; Technology, 2008, 42, 3018-3024.	4.6	44
88	SFGP 2007 - An Adsorption and Photocatalysis Study of Ethyl Hexanoate. International Journal of Chemical Reactor Engineering, 2008, 6, .	0.6	1
89	Deactivation of Titanium Dioxide Photocatalyst by Oxidation of Polydimethylsiloxane and Silicon Sealant Off-Gas in a Recirculating Batch Reactor. Journal of the Air and Waste Management Association, 2008, 58, 12-18.	0.9	6
90	A Review of the Currently Available Methods for Ambient Temperature Carbon Monoxide Removal in a Disabled Royal Navy Submarine. , 0, , .		4
91	Development of a Photocatalytic Oxidation-Based TOC Analyzer Part II: Effect of Reactor Design and Operation Parameters on Oxidation Efficiency of VOCs., 2009,,.		1
92	Solar/UVâ€induced photocatalytic degradation of volatile toluene. Environmental Technology (United) Tj ETQq1	1 0.78431	.4 rgBT /Over

#	Article	IF	Citations
93	TiO2 Thick Film Coated on Alumina Foams for UV Light Stimulated Photocatalytic Phenol Mineralization. , 0, , 615-619.		O
94	Nanostructured Photocatalysts and Their Applications in the Photocatalytic Transformation of Lignocellulosic Biomass: An Overview. Materials, 2009, 2, 2228-2258.	1.3	168
95	Reticulated macroporous ceramic foam supported TiO2 for photocatalytic applications. Materials Letters, 2009, 63, 461-463.	1.3	69
96	Photocatalytic purification of volatile organic compounds in indoor air: A literature review. Atmospheric Environment, 2009, 43, 2229-2246.	1.9	712
97	Non-UV germicidal activity of fresh TiO2 and Ag/TiO2. Journal of Environmental Sciences, 2009, 21, 700-706.	3.2	15
98	Threeâ€dimensional CFD model for a flat plate photocatalytic reactor: Degradation of TCE in a serpentine flow field. AICHE Journal, 2009, 55, 312-320.	1.8	19
99	Decomposition of gasâ€phase aromatic hydrocarbons by applying an annularâ€type reactor coated with sulfurâ€doped photocatalyst under visibleâ€light irradiation. Journal of Chemical Technology and Biotechnology, 2010, 85, 485-492.	1.6	6
100	Photocatalytic construction and building materials: From fundamentals to applications. Building and Environment, 2009, 44, 1899-1906.	3.0	603
101	Review of research on air-conditioning systems and indoor air quality control for human health. International Journal of Refrigeration, 2009, 32, 3-20.	1.8	312
102	Functionalization of textile materials by alkoxysilane-grafted titanium dioxide. Journal of Materials Science, 2009, 44, 3852-3860.	1.7	26
103	Research on photodegradation of formaldehyde by nanocrystalline N-TiO2 powders under visible light irradiation. Research on Chemical Intermediates, 2009, 35, 313-320.	1.3	11
104	Enhanced photocatalytic oxidation properties in Pt-TiO2 thin films by grounding. Korean Journal of Chemical Engineering, 2009, 26, 392-397.	1.2	4
105	Application of visible-light photocatalysis with nitrogen-doped or unmodified titanium dioxide for control of indoor-level volatile organic compounds. Journal of Hazardous Materials, 2009, 164, 360-366.	6.5	136
106	Continuous reduction of toluene vapours from the contaminated gas stream in a fluidised bed photoreactor. Powder Technology, 2009, 195, 50-56.	2.1	28
107	Granular-activated carbon adsorption followed by annular-type photocatalytic system for control of indoor aromatic compounds. Separation and Purification Technology, 2009, 66, 438-442.	3.9	51
108	Performance analysis of a novel TiO2-coated foam-nickel PCO air purifier in HVAC systems. Separation and Purification Technology, 2009, 68, 232-237.	3.9	22
109	Catalytic combustion of VOCs on non-noble metal catalysts. Catalysis Today, 2009, 148, 81-87.	2,2	591
110	Degradation of xylene vapor over Ni-doped TiO2 photocatalysts prepared by polyol-mediated synthesis. Chemical Engineering Journal, 2009, 150, 160-167.	6.6	82

#	Article	IF	CITATIONS
111	Antifungal capability of TiO2 coated film on moist wood. Building and Environment, 2009, 44, 1088-1093.	3.0	121
112	Experimental study of photocatalytic concrete products for air purification. Building and Environment, 2009, 44, 2463-2474.	3.0	297
113	Photocatalytic oxidation of toluene at indoor air levels (ppbv): Towards a better assessment of conversion, reaction intermediates and mineralization. Applied Catalysis B: Environmental, 2009, 86, 159-165.	10.8	278
114	Indoor air purification using heterogeneous photocatalytic oxidation. Part I: Experimental study. Applied Catalysis B: Environmental, 2009, 92, 454-461.	10.8	174
115	Photocatalytic Degradation of Methylene Blue Dye Using Ultraviolet Light Emitting Diodes. Industrial & Light Emitting Chemistry Research, 2009, 48, 10262-10267.	1.8	248
116	Photocatalysis. A multi-faceted concept for green chemistry. Chemical Society Reviews, 2009, 38, 1999.	18.7	920
117	Photocatalytic Oxidation of <i>Escherischia coli</i> , <i>Aspergillus niger</i> , and Formaldehyde under Different Ultraviolet Irradiation Conditions. Environmental Science & E	4.6	74
118	Removal of low-concentration BTX in air using a combined plasma catalysis system. Chemosphere, 2009, 75, 1301-1306.	4.2	101
119	Feasibility of a tandem photocatalytic oxidation–adsorption system for removal of monoaromatic compounds at concentrations in the sub-ppm-range. Chemosphere, 2009, 77, 236-241.	4.2	8
120	Enhancement of Photocatalytic Activity of Mesporous TiO ₂ Powders by Hydrothermal Surface Fluorination Treatment. Journal of Physical Chemistry C, 2009, 113, 6743-6750.	1.5	577
121	Correlation of Photocatalytic Bactericidal Effect and Organic Matter Degradation of TiO2 Part I: Observation of Phenomena. Environmental Science & Env	4.6	73
122	Microfabricated Formaldehyde Gas Sensors. Sensors, 2009, 9, 9196-9215.	2.1	60
123	Low-temperature synthesis and characterization of TiO2 and TiO2–ZrO2 photocatalytically active thin films. Photochemical and Photobiological Sciences, 2009, 8, 657-662.	1.6	20
124	Photodegradation of the indoor organic pollutants by UV irradiation using TiO ₂ catalysts. Journal of Physics: Conference Series, 2009, 182, 012039.	0.3	2
125	Performance of a Bench-Scale Annular-Type Packed-Bed Photocatalytic Reactor for Decomposition of Indigo Carmine Dissolved in Water. Journal of Chemical Engineering of Japan, 2009, 42, 502-507.	0.3	2
126	TiO2-supported Rh nanoparticles: From green catalyst preparation to application in arene hydrogenation in neat water. Green Chemistry, 2010, 12, 1167.	4.6	42
127	Visible-light-induced photocatalysis of low-level methyl-tertiary butyl ether (MTBE) and trichloroethylene (TCE) using element-doped titanium dioxide. Building and Environment, 2010, 45, 819-824.	3.0	12
128	Titanium dioxide coated cementitious materials for air purifying purposes: Preparation, characterization and toluene removal potential. Building and Environment, 2010, 45, 832-838.	3.0	168

#	Article	IF	CITATIONS
129	The effect of a photocatalytic air purifier on indoor air quality quantified using different measuring methods. Building and Environment, 2010, 45, 1434-1440.	3.0	31
130	Comparison of different decontaminant delivery methods for sterilizing unoccupied commercial airliner cabins. Building and Environment, 2010, 45, 2027-2034.	3.0	3
131	Synthesis, characterization, and photocatalytic application of novel TiO2 nanoparticles. Chemical Engineering Journal, 2010, 157, 45-51.	6.6	183
132	An efficient photoelectrochemical cell functioning in the presence of organic wastes. Solar Energy Materials and Solar Cells, 2010, 94, 592-597.	3.0	78
133	On the Formation of TiO2 Nanoparticles Via Submerged Arc Discharge Technique: Synthesis, Characterization and Photocatalytic Properties. Journal of Cluster Science, 2010, 21, 753-766.	1.7	37
134	Photocatalytic Oxidation of Gaseous Formaldehyde on TiO2: An InÂSitu DRIFTS Study. Catalysis Letters, 2010, 137, 239-246.	1.4	117
135	Mechanical properties of titania nanofiber mats fabricated by electrospinning of sol–gel precursor. Journal of Sol-Gel Science and Technology, 2010, 54, 188-194.	1.1	37
136	Photocatalytic decomposition of mobile-source related pollutants using a continuous-flow reactor. Journal of Environmental Sciences, 2010, 22, 460-466.	3.2	7
138	Photocatalytic treatment of indoor air: Optimization of 2-propanol removal using a response surface methodology (RSM). Applied Catalysis B: Environmental, 2010, 94, 303-310.	10.8	79
139	NOx photocatalytic degradation employing concrete pavement containing titanium dioxide. Applied Catalysis B: Environmental, 2010, 95, 245-254.	10.8	178
140	Photocatalytic degradation of methyl orange using polythiophene/titanium dioxide composites. Reactive and Functional Polymers, 2010, 70, 282-287.	2.0	71
141	Applicability of a continuous-flow system inner-coated with S-doped titania for the photocatalysis of dimethyl sulfide at low concentrations. Journal of Environmental Management, 2010, 91, 2059-2065.	3.8	11
142	TiO2 photocatalyst for indoor air remediation: Influence of crystallinity, crystal phase, and UV radiation intensity on trichloroethylene degradation. Applied Catalysis B: Environmental, 2010, 94, 211-218.	10.8	145
143	Indoor air purification using heterogeneous photocatalytic oxidation. Part II: Kinetic study. Applied Catalysis B: Environmental, 2010, 99, 58-65.	10.8	70
144	Photodegradation of acetone by visible light-responsive V2O5/EuVO4 composite. Catalysis Today, 2010, 158, 209-214.	2.2	14
145	Modelling and experimental study of the NOx photocatalytic degradation employing concrete pavement with titanium dioxide. Catalysis Today, 2010, 151, 71-76.	2.2	74
146	Photocatalytic degradation of air pollutants â€" From modeling to large scale application. Cement and Concrete Research, 2010, 40, 313-320.	4.6	96
147	Prediction of photocatalytic air purifier apparatus performances with a CFD approach using experimentally determined kinetic parameters. Chemical Engineering Science, 2010, 65, 5067-5074.	1.9	28

#	Article	IF	CITATIONS
148	Flow impact of an air conditioner to portable air cleaning. Building and Environment, 2010, 45, 2047-2056.	3.0	36
149	Photocatalytic oxidation for antimicrobial control in built environment: A brief literature overview. Building and Environment, 2010, 45, 1747-1754.	3.0	88
150	Evaluation of an air-cleaning unit having photocatalytic sheets to remove acetaldehyde from indoor air. Building and Environment, 2010, 45, 2002-2007.	3.0	11
151	Modeling and physical interpretation of photocatalytic oxidation efficiency in indoor air applications. Building and Environment, 2010, 45, 2689-2697.	3.0	56
152	UV LED as a Light Source for Photocatalytic Oxidation of Trace Organic Contaminants. , 2010, , .		1
153	Hydrothermal Synthesis, Characterization and Photocatalytic Properties of Zn/Sn-Composite Oxides. Advanced Materials Research, 0, 148-149, 1204-1207.	0.3	0
154	Ti/Cr-Pillared Clay As Photocatalysts For 4-Chlorophenol Removal In Water. Desalination and Water Treatment, 2010, 13, 437-440.	1.0	3
155	An effective method for controlling the nanoparticle size of anatase TiO <inf>2</inf> . , 2010, , .		0
156	Photocatalytic Air Purification. Recent Patents on Engineering, 2010, 4, 200-216.	0.3	18
157	Benefits of high energy UV185 nm light to inactivate bacteria. Water Science and Technology, 2010, 62, 2776-2782.	1.2	8
158	Role of Nanocrystalline Titania Phases in the Photocatalytic Oxidation of NO at Room Temperature. Advanced Materials Research, 0, 132, 96-104.	0.3	0
159	Formaldehyde in the Indoor Environment. Chemical Reviews, 2010, 110, 2536-2572.	23.0	1,312
160	Synthesis of Photoactive Magnetic Nanoparticles with Atomic Layer Deposition. Industrial & Samp; Engineering Chemistry Research, 2010, 49, 6964-6971.	1.8	22
161	Improved Catalytic Capability of Mesoporous TiO ₂ Microspheres and Photodecomposition of Toluene. ACS Applied Materials & Interfaces, 2010, 2, 3134-3140.	4.0	82
162	Mechanistic study and mutagenicity assessment of intermediates in photocatalytic degradation of gaseous toluene. Chemosphere, 2010, 78, 313-318.	4.2	40
163	Visibleâ€lightâ€activated photocatalysis of malodorous dimethyl disulphide using nitrogenâ€enhanced TiO ₂ . Environmental Technology (United Kingdom), 2010, 31, 575-584.	1.2	8
164	Evaluation of Environmental Effectiveness of Titanium Dioxide Photocatalyst Coating for Concrete Pavement. Transportation Research Record, 2010, 2164, 46-51.	1.0	49
166	Kinetic Study of Acetaldehyde Photocatalytic Oxidation with a Thin Film of TiO ₂ Coated on Stainless Steel and CFD Modeling Approach. Industrial & Engineering Chemistry Research, 2010, 49, 6890-6897.	1.8	29

#	Article	IF	CITATIONS
167	Application of Nanoscale Silver-Doped Titanium Dioxide as Photocatalyst for Indoor Airborne Bacteria Control: A Feasibility Study in Medical Nursing Institutions. Journal of the Air and Waste Management Association, 2010, 60, 337-345.	0.9	14
168	Evaluation of Asphaltene Degradation on Highly Ordered TiO ₂ Nanotubular Arrays via Variations in Wettability. Langmuir, 2011, 27, 1218-1223.	1.6	20
169	Studies on the photo-catalytic activity of semiconductor nanostructures and their gold core–shell on the photodegradation of malathion. Nanotechnology, 2011, 22, 455705.	1.3	29
170	Magnetically separable nanocomposites with photocatalytic activity under visible light for the selective transformation of biomass-derived platform molecules. Green Chemistry, 2011, 13, 2750.	4.6	89
171	Rh(0) colloids supported on TiO2: a highly active and pertinent tandem in neat water for the hydrogenation of aromatics. Green Chemistry, 2011, 13, 1766.	4.6	57
172	Removal of Indoor Airborne Bacteria by Nano-Ag/TiO2 as Photocatalyst: Feasibility Study in Museum and Nursing Institutions. Journal of Environmental Engineering, ASCE, 2011, 137, 163-170.	0.7	13
173	Water vapor adsorption and photocatalytic pollutant degradation with TiO2–sepiolite nanocomposites. Applied Clay Science, 2011, 53, 181-187.	2.6	47
174	Energy Efficient UV-LED Source and TiO ₂ Nanotube Array-Based Reactor for Photocatalytic Application. Industrial & Engineering Chemistry Research, 2011, 50, 7753-7762.	1.8	144
175	Microwave Photochemistry and Photocatalysis. Part 1: Principles and Overview. Current Organic Chemistry, 2011, 15, 248-264.	0.9	23
176	Impact of Mixed Nitrogen Dioxide (NO/d2) and Nitrogen Oxide (NO) Gases on Titanium Dioxide Photodegradation of NO/dx. , 2011, , .		3
177	Photocatalytic removal of nitrogen oxides from air on TiO2 modified with bases and platinum. Kinetics and Catalysis, 2011, 52, 518-524.	0.3	6
178	Studies on photo-induced NO removal by Mn-doped TiO2 under indoor-like illumination conditions. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 222, 304-306.	2.0	18
179	The effect of photon source on heterogeneous photocatalytic oxidation of ethanol by a silica–titania composite. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 225, 58-64.	2.0	18
180	Visible light-induced hydrogen production from glycerol aqueous solution on hybrid Pt–CdS–TiO2 photocatalysts. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 226, 36-41.	2.0	57
181	Fighting global warming: The potential of photocatalysis against CO2, CH4, N2O, CFCs, tropospheric O3, BC and other major contributors to climate change. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2011, 12, 1-19.	5.6	177
182	Synthesis, characterization and enhanced photocatalytic activity of TiO2/SiO2 nanocomposite in an aqueous solution and acrylic-based coatings. Progress in Organic Coatings, 2011, 72, 453-460.	1.9	88
183	Design and synthesis of polymetallic nanoparticles and their catalytic applications. Materials Letters, 2011, 65, 602-605.	1.3	2
184	Effect of platinum on the photocatalytic degradation of chlorinated organic compound. Journal of Environmental Sciences, 2011, 23, 687-692.	3.2	12

#	Article	IF	CITATIONS
185	Identification of Indoor Airborne Microorganisms and Their Disinfection with Combined Nano-Ag/TiO2Photocatalyst and Ultraviolet Light. Environmental Engineering Science, 2011, 28, 635-642.	0.8	8
186	Metal and Metal Oxide Nanostructures Prepared by Electrical Arc Discharge Method in Liquids. Journal of Cluster Science, 2011, 22, 233-266.	1.7	37
187	Modelling of an annular photocatalytic reactor. Reaction Kinetics, Mechanisms and Catalysis, 2011, 103, 19-29.	0.8	3
188	NOx photocatalytic degradation on active concrete road surface â€" from experiment to real-scale application. Journal of Cleaner Production, 2011, 19, 1266-1272.	4.6	124
189	Photocatalytic oxidation of methyl ethyl ketones over sol–gel mesoporous and meso-structured TiO2 films obtained by EISA method. Applied Catalysis B: Environmental, 2011, 107, 52-58.	10.8	30
190	Study on UV-LED/TiO2 process for degradation of Rhodamine B dye. Chemical Engineering Journal, 2011, 169, 126-134.	6.6	453
191	A surface science perspective on TiO2 photocatalysis. Surface Science Reports, 2011, 66, 185-297.	3.8	1,778
192	Highly efficient photocatalytic activity of boron-doped TiO2 for gas phase degradation of benzene. Rare Metals, 2011, 30, 243-248.	3.6	10
193	Novelâ€Type Inorganic Foams from Preceramic Polymers with Embedded Titania Nanoparticles for Photoâ€Catalytic Applications. Advanced Engineering Materials, 2011, 13, 996-1001.	1.6	10
194	Carbon nanotube–TiO2 thin films for photocatalytic applications. Catalysis Today, 2011, 161, 91-96.	2.2	93
195	One-pot three-component synthesis of \hat{l} ±-amino nitriles catalyzed by nano powder TiO2 P 25. Chinese Chemical Letters, 2011, 22, 555-558.	4.8	27
196	Adsorption phenomena in photocatalytic reactions: The case of toluene, acetone and heptane. Chemical Engineering Journal, 2011, 170, 464-470.	6.6	39
197	Nanotechnology: Advantages and drawbacks in the field of construction and building materials. Construction and Building Materials, 2011, 25, 582-590.	3.2	413
198	Methylamine and dimethylamine photocatalytic degradation—Adsorption isotherms and kinetics. Applied Catalysis A: General, 2011, 402, 201-207.	2.2	54
199	Destruction of toluene by ozone-enhanced photocatalysis: Performance and mechanism. Applied Catalysis B: Environmental, 2011, 102, 449-453.	10.8	104
200	Carbonaceous nanomaterials for the enhancement of TiO2 photocatalysis. Carbon, 2011, 49, 741-772.	5.4	1,069
201	Byproducts and pathways of toluene destruction via plasma-catalysis. Journal of Molecular Catalysis A, 2011, 336, 87-93.	4.8	171
202	Preparation, characterization and photoactivity of hollow N, Co co-doped TiO2/SiO2 microspheres. Materials Science in Semiconductor Processing, 2011, 14, 52-57.	1.9	41

#	Article	IF	CITATIONS
203	Photocatalytic degradation and detoxification of o-chloroaniline in the gas phase: Mechanistic consideration and mutagenicity assessment of its decomposed gaseous intermediate mixture. Applied Catalysis B: Environmental, 2011, 102, 140-146.	10.8	43
204	Enhanced visible light photocatalytic properties of Fe-doped TiO2 nanorod clusters and monodispersed nanoparticles. Applied Surface Science, 2011, 257, 8121-8126.	3.1	61
205	Role of TiO2 surface hydration on NO oxidation photo-activity. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 220, 85-93.	2.0	79
206	Removal of dimethyl sulfide utilizing activated carbon fiber-supported photocatalyst in continuous-flow system. Journal of Hazardous Materials, 2011, 191, 234-239.	6.5	42
207	Preparation of MnOx/TiO2 ultrafine nanocomposite with large surface area and its enhanced toluene oxidation at low temperature. Powder Technology, 2011, 208, 740-743.	2.1	27
208	Continuous toluene vapour photocatalytic deduction in a multi-stage fluidised bed. Powder Technology, 2011, 210, 225-229.	2.1	9
209	Facile Preparation of P-25 Films Dip-Coated Nickel Foam and High Photocatalytic Activity for the Degradation of Quinoline and Industrial Wastewater. International Journal of Chemical Reactor Engineering, 2011, 9, .	0.6	3
210	Silica-Titania Composite (STC)'s Performance in the Photocatalytic Oxidation of Polar VOCs., 2011,,.		O
211	Utilization of Fin-Installed Annular Reactors Coated with Visible Light- or Ultraviolet-Driven Photocatalysts for Removal of Gas-Phase Monocyclic Aromatic Compounds. Environmental Engineering Science, 2011, 28, 43-51.	0.8	3
212	Feasibility of Ultraviolet-Light-Emitting Diodes as an Alternative Light Source for Photocatalysis. Journal of the Air and Waste Management Association, 2011, 61, 932-940.	0.9	26
213	Laboratory Investigation of the Effect of Mixed Nitrogen Dioxide and Nitrogen Oxide Gases on Titanium Dioxide Photocatalytic Efficiency in Concrete Pavements. Journal of Materials in Civil Engineering, 2011, 23, 1087-1093.	1.3	36
214	Performance Assessment of Photocatalyst for Ethanol Removal. Advanced Materials Research, 2011, 213, 35-38.	0.3	0
215	Mechanochemical Synthesis of Visible Light Sensitive Titanium Dioxide Photocatalyst. International Journal of Photoenergy, 2011, 2011, 1-9.	1.4	7
216	A Comparative Study on Decomposition of Airborne Microorganisms by Negative Air Ions and Nano-Ag/TiO ₂ as Photocatalyst in Medical Nursing Institution. Applied Mechanics and Materials, 2011, 71-78, 2631-2635.	0.2	0
217	Analysis of gas phase intermediates and mineralization during the photocatalytic oxidation of organic pollutants: a critical step towards the performance evaluation. International Journal of Environmental Analytical Chemistry, 2012, 92, 923-932.	1.8	2
218	Visible Light-Induced Degradation of Methylene Blue in the Presence of Photocatalytic ZnS and CdS Nanoparticles. International Journal of Molecular Sciences, 2012, 13, 12242-12258.	1.8	349
219	Comparative study of photocatalytic oxidation on the degradation of formal dehyde and fuzzy mathematics evaluation of filters. , 2012 , , .		0
220	Comparative Study of the Photocatalytic Activity of Semiconductor Nanostructures and Their Hybrid Metal Nanocomposites on the Photodegradation of Malathion. Journal of Nanomaterials, 2012, 2012, 1-8.	1.5	37

#	Article	IF	CITATIONS
221	Concept and Validation of a Fully Automated Photocatalytic Test Setup. Journal of the Association for Laboratory Automation, 2012, 17, 134-143.	2.8	17
222	Ta/Ti-and Nb/Ti-Mixed Oxides as Efficient Solar Photocatalysts: Preparation, Characterization, and Photocatalytic Activity. International Journal of Photoenergy, 2012, 2012, 1-9.	1.4	22
223	Photocatalytic Degradation of Organic Dyes under Visible Light on N-Doped <mml:math id="M1" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mtext>TiO</mml:mtext></mml:mrow><mml:mtext>2<td>nml:mtext</td><td>> </td></mml:mtext></mml:msub></mml:mrow></mml:math>	nml:mtext	>
224	Field Evaluation of Ability of Photocatalytic Concrete Pavements to Remove Nitrogen Oxides. Transportation Research Record, 2012, 2290, 154-160.	1.0	12
225	Quantification of Reduction of Nitrogen Oxides by Nitrate Accumulation on Titanium Dioxide Photocatalytic Concrete Pavement. Transportation Research Record, 2012, 2290, 147-153.	1.0	15
226	Preparation of TiO2-Coated Polyester Fiber Filter by Spray-Coating and Its Photocatalytic Degradation of Gaseous Formaldehyde. Aerosol and Air Quality Research, 2012, 12, 1327-1335.	0.9	39
227	Structural and optical properties of visible active photocatalytic WO ₃ thin films prepared by reactive dc magnetron sputtering. Journal of Materials Research, 2012, 27, 3130-3140.	1.2	33
229	Evaluation of the Nano-Confined Catalytic Oxidation Technology for Air Purification and Odor Reduction. Advanced Materials Research, 0, 550-553, 607-615.	0.3	3
230	Preparation and photocatalytic activity of Cu-doped ZnO thin films prepared by the sol–gel method. Applied Surface Science, 2012, 258, 8192-8198.	3.1	176
231	Photocatalytic performance of cylindrical reactor inserted with UV light-emitting-diodes for purification of low-level toxic volatile organic compounds. Applied Surface Science, 2012, 259, 657-663.	3.1	11
232	Adsorption and diffusion studies of an O adatom on anatase surfaces with first principles calculations. Computational Materials Science, 2012, 63, 58-65.	1.4	14
233	Insights into UV-TiO2 photocatalytic degradation of PCE for air decontamination systems. Chemical Engineering Journal, 2012, 204-206, 244-257.	6.6	33
234	Synthesis and Applications of Grapheneâ€Based TiO ₂ Photocatalysts. ChemSusChem, 2012, 5, 1868-1882.	3.6	226
235	Characterization of a new photocatalytic textile for formaldehyde removal from indoor air. Applied Catalysis B: Environmental, 2012, 128, 171-178.	10.8	44
236	Self-cleaning and de-polluting stone surfaces: TiO 2 nanoparticles for limestone. Construction and Building Materials, 2012, 37, 51-57.	3.2	158
237	Development and evaluation of the efficiency of photocatalytic pavement blocks in the laboratory and after one year in the field. Construction and Building Materials, 2012, 37, 310-319.	3.2	47
238	Doped-metal oxide nanoparticles for use as photocatalysts. Progress in Crystal Growth and Characterization of Materials, 2012, 58, 145-163.	1.8	59
239	Nano-TiO ₂ /polyurethane composites for antibacterial and self-cleaning coatings. Nanotechnology, 2012, 23, 425606.	1.3	121

#	Article	IF	CITATIONS
240	Self-Cleaning Organic Vapor Sensor Based on a Nanoporous TiO2 Interferometer. ACS Applied Materials & Samp; Interfaces, 2012, 4, 4177-4183.	4.0	30
241	LED Irradiation of a Photocatalyst for Benzene, Toluene, Ethyl benzene, and Xylene Decomposition. Chinese Journal of Catalysis, 2012, 33, 1672-1680.	6.9	14
243	Toxic effects of titanium dioxide nanoparticles on microbial activity and metabolic flux. Biotechnology and Bioprocess Engineering, 2012, 17, 276-282.	1.4	22
244	Photocatalytic properties of porous titania grown by oblique angle deposition. Journal of Applied Physics, 2012, 111, 074904.	1.1	13
245	Photocatalytic and antibacterial activities of Ag-doped ZnO thin films prepared by a sol–gel dip-coating method. Journal of Sol-Gel Science and Technology, 2012, 62, 304-312.	1.1	55
246	Fabrication of titania and titania–silica aerogels using rapid supercritical extraction. Journal of Sol-Gel Science and Technology, 2012, 62, 404-413.	1.1	22
247	Evaluation of the influence of environmental conditions on the efficiency of photocatalytic coatings in the degradation of nitrogen oxides (NOx). Building and Environment, 2012, 49, 117-123.	3.0	72
248	TiO2-based self-compacting glass mortar: Comparison of photocatalytic nitrogen oxide removal and bacteria inactivation. Building and Environment, 2012, 53, 1-6.	3.0	67
249	A "deactivation―kinetic model for predicting the performance of photocatalytic degradation of indoor toluene, o-xylene, and benzene. Building and Environment, 2012, 56, 329-334.	3.0	19
250	TiO2 photocatalysis in cementitious systems: Insights into self-cleaning and depollution chemistry. Cement and Concrete Research, 2012, 42, 539-548.	4.6	239
251	Gas-phase photocatalytic activity of nanostructured titanium dioxide from flame aerosol synthesis. Applied Catalysis B: Environmental, 2012, 111-112, 1-9.	10.8	13
252	Smart surfaces for architectural heritage: Preliminary results about the application of TiO2-based coatings on travertine. Journal of Cultural Heritage, 2012, 13, 204-209.	1.5	87
253	Photocatalytic oxidation of trimethylamine and isovaleraldehyde in an annular reactor: Influence of the mass transfer and the relative humidity. Journal of Photochemistry and Photobiology A: Chemistry, 2012, 236, 61-69.	2.0	63
254	Degradation of selected indoor air pollutants: Comparison study of photocatalytic, ozone-assisted photocatalytic and amine adsorption processes. Journal of Shanghai Jiaotong University (Science), 2012, 17, 13-19.	0.5	6
255	Removal of VOCs in waste gas by the photoâ€Fenton reaction: effects of dosage of Fenton reagents on degradation of toluene gas in a bubble column. Journal of Chemical Technology and Biotechnology, 2013, 88, 88-97.	1.6	38
256	Photocatalytic Production of Renewable Hydrogen. , 2013, , 495-527.		О
257	Structured Catalysts for Volatile Organic Compound Removal. , 2013, , 233-256.		4
258	Photocatalytic degradation of soot deposition: Self-cleaning effect on titanium dioxide coated cementitious materials. Chemical Engineering Journal, 2013, 222, 411-418.	6.6	79

#	Article	IF	Citations
259	Enhanced photocatalytic degradation of NOx gases by regulating the microstructure of mortar cement modified with titanium dioxide. Building and Environment, 2013, 69, 55-63.	3.0	90
260	Adsorption backup following light-emitting diode-irradiated photocatalytic unit for control of low-degraded toxic gaseous compounds. Korean Journal of Chemical Engineering, 2013, 30, 658-663.	1.2	0
261	Effect of TiO2 photocatalytic activity in a HDPE-based food packaging on the structural and microbiological stability of a short-ripened cheese. Food Chemistry, 2013, 138, 1633-1640.	4.2	84
262	Purification of aromatic hydrocarbons via fibrous activated carbon/photocatalytic composite coupled with UV light-emitting diodes. Environmental Technology (United Kingdom), 2013, 34, 1175-1181.	1.2	6
263	Elemental modeling of adsorption filter efficiency for indoor air quality applications. Building and Environment, 2013, 66, 11-22.	3.0	28
264	A review of state-of-the-art aerogel applications in buildings. International Journal of Low-Carbon Technologies, 2013, 8, 1-6.	1.2	133
265	Photocatalytic degradation of methylene blue under visible light using PVP-capped ZnS and CdS nanoparticles. Solar Energy, 2013, 97, 147-154.	2.9	108
266	Toward Tunable Adsorption Properties, Structure, and Crystallinity of Titania Obtained by Block Copolymer and Scaffold-Assisted Templating. Langmuir, 2013, 29, 12549-12559.	1.6	20
267	Structure, morphology, photocatalytic and antibacterial activities of ZnO thin films prepared by sol–gel dip-coating method. Advanced Powder Technology, 2013, 24, 275-280.	2.0	88
268	Incorporation of titanium dioxide nanoparticles in mortars â€" Influence of microstructure in the hardened state properties and photocatalytic activity. Cement and Concrete Research, 2013, 43, 112-120.	4.6	168
269	Performance testing of an optimal photocatalytic mop fan air cleaning system. International Journal of Energy Research, 2013, 37, 1389-1396.	2.2	4
270	Antibacterial and photocatalytic properties of Ag/TiO2/ZnO nano-flowers prepared by facile one-pot hydrothermal process. Ceramics International, 2013, 39, 1503-1510.	2.3	119
271	Removal of NOx by photocatalytic processes. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2013, 14, 29-52.	5.6	304
272	Kinetics and mechanism of glycerol photo-oxidation and photo-reforming reactions in aqueous TiO2 and Pt/TiO2 suspensions. Catalysis Today, 2013, 209, 91-98.	2.2	119
273	Selfâ€Cleaning and Antibacteric Ceramic Tile Surface. International Journal of Applied Ceramic Technology, 2013, 10, 949-956.	1.1	60
274	Nano-TiO2-based architectural mortar for NO removal and bacteria inactivation: Influence of coating and weathering conditions. Cement and Concrete Composites, 2013, 36, 101-108.	4.6	97
275	Convenient preparation of CdS nanostructures as a highly efficient photocatalyst under blue LED and solar light irradiation. Separation and Purification Technology, 2013, 120, 180-185.	3.9	32
276	Low irradiance photocatalytic degradation of toluene in air by screen-printed titanium dioxide layers. Thin Solid Films, 2013, 545, 537-542.	0.8	12

#	Article	lF	CITATIONS
277	Photocatalytic NO removal of concrete surface layers intermixed with TiO2. Building and Environment, 2013, 70, 102-109.	3.0	65
278	The activity of acrylic-silicon/nano-TiO2 films for the visible-light degradation of formaldehyde and NO2. Building and Environment, 2013, 65, 215-221.	3.0	28
279	Self-cleaning materials on Architectural Heritage: Compatibility of photo-induced hydrophilicity of TiO2 coatings on stone surfaces. Journal of Cultural Heritage, 2013, 14, 1-7.	1.5	111
281	TiO2 modifications by hydrothermal treatment and doping to improve its photocatalytic behaviour under visible light. Catalysis Today, 2013, 210, 135-141.	2.2	28
283	Photocatalytic synthesis of oxygenated hydrocarbons from diesel fuel for mobile deNOx application. Journal of Catalysis, 2013, 302, 58-66.	3.1	2
284	Sustainable Photocatalytic Asphalt Pavements for Mitigation of Nitrogen Oxide and Sulfur Dioxide Vehicle Emissions. Journal of Materials in Civil Engineering, 2013, 25, 365-371.	1.3	64
285	Facile fabrication and characterization of multi-type carbon-doped TiO2 for visible light-activated photocatalytic mineralization of gaseous toluene. Journal of Materials Chemistry A, 2013, 1, 4497.	5.2	122
286	Amine-Functionalized Porous Silicas as Adsorbents for Aldehyde Abatement. ACS Applied Materials & Amp; Interfaces, 2013, 5, 5569-5577.	4.0	97
287	A green and facile one-pot synthesis of Agâ€"ZnO/RGO nanocomposite with effective photocatalytic activity for removal of organic pollutants. Ceramics International, 2013, 39, 5083-5091.	2.3	117
288	Photocatalytic decomposition of gaseous HCHO by ZrxTi1ⰒxO2 catalysts under UV–vis light irradiation with an energy-saving lamp. Journal of Molecular Catalysis A, 2013, 366, 261-265.	4.8	36
289	Evaluating photocatalytic asphalt pavement effectiveness in real-world environments through developing models: a statistical and kinetic study. Road Materials and Pavement Design, 2013, 14, 92-105.	2.0	17
290	The Synergistic Effect of Nitrogen Dopant and Calcination Temperature on the Visible-Light-Induced Photoactivity of N-Doped TiO ₂ . International Journal of Photoenergy, 2013, 2013, 1-13.	1.4	24
291	Photocatalytic Decomposition of Gaseous HCHO by N-Zr-TiO ₂ Catalysts. Advanced Materials Research, 2013, 716, 44-49.	0.3	0
292	Photocatalytic Antibacterial Effects Are Maintained on Resin-Based TiO2 Nanocomposites after Cessation of UV Irradiation. PLoS ONE, 2013, 8, e75929.	1.1	52
293	Transport Behavior of Engineered Nanosized Photocatalytic Materials in Water. Journal of Nanomaterials, 2013, 2013, 1-13.	1.5	4
294	Photocatalytic Hydrogen Production. Materials Science Forum, 0, 764, 151-168.	0.3	2
295	Photocatalytic oxidation for degradation of VOCs. Open Journal of Inorganic Chemistry, 2013, 03, 14-25.	0.7	69
296	LiNbO ₃ Coating on Concrete Surface: A New and Environmentally Friendly Route for Artificial Photosynthesis. Scientific World Journal, The, 2013, 2013, 1-6.	0.8	2

#	Article	IF	CITATIONS
297	Plasma–catalyst coupling for volatile organic compound removal and indoor air treatment: a review. Journal Physics D: Applied Physics, 2014, 47, 224011.	1.3	168
298	Plasmaâ€∢scp>Based Indoor Air Cleaning Technologies: The State of the Artâ€∢scp>Review. Clean - Soil, Air, Water, 2014, 42, 1667-1680.	0.7	66
299	Ion-exchanged geopolymer for photocatalytic degradation of a volatile organic compound. Materials Letters, 2014, 134, 222-224.	1.3	39
300	Improvement of TiO ₂ /LDPE Composite Films for Photocatalytic Oxidation of Acetone. Advanced Materials Research, 0, 931-932, 235-240.	0.3	4
301	UV LED Sources for Heterogeneous Photocatalysis. Handbook of Environmental Chemistry, 2014, , 159-179.	0.2	17
302	Artificial Photosynthesis using LiNbO ₃ as Photocatalyst for Sustainable and Environmental Friendly Construction and Reduction of Global Warming: A Review. Catalysis Reviews - Science and Engineering, 2014, 56, 175-186.	5.7	22
303	Climate Change, Energy, Sustainability and Pavements. Green Energy and Technology, 2014, , .	0.4	11
304	Enhanced Formaldehydeâ€Vapor Adsorption Capacity of Polymeric Amineâ€Incorporated Aminosilicas. Chemistry - A European Journal, 2014, 20, 6381-6390.	1.7	56
305	Innovative Germicidal <scp>UV</scp> and Photocatalytic System Dedicated to Aircraft Cabin Eliminates Volatile Organic Compounds and Pathogenic Microâ€Organisms. Clean - Soil, Air, Water, 2014, 42, 703-712.	0.7	9
306	Interfacial Structure and Photocatalytic Activity of Magnetron Sputtered TiO ₂ on Conducting Metal Substrates. ACS Applied Materials & Substrates, 2014, 6, 22224-22234.	4.0	13
307	Improving the Manchester Triage System for Pediatric Emergency Care: An International Multicenter Study. PLoS ONE, 2014, 9, e83267.	1.1	30
308	Principles of Heterogeneous Photocatalysis. , 2014, , 1-41.		4
309	Photocatalytic oxidation air cleaner: Identification and quantification of by-products. Building and Environment, 2014, 72, 34-43.	3.0	65
310	White fungus-like mesoporous Bi2S3 ball/TiO2 heterojunction with high photocatalytic efficiency in purifying 2,4-dichlorophenoxyacetic acid/Cr(VI) contaminated water. Applied Catalysis B: Environmental, 2014, 156-157, 25-34.	10.8	76
311	Effects of Ag doping on the photocatalytic disinfection of E. coli in bioaerosol by Ag–TiO2/GF under visible light. Journal of Colloid and Interface Science, 2014, 428, 24-31.	5.0	59
312	Considerations to improve adsorption and photocatalysis of low concentration air pollutants on TiO2. Catalysis Today, 2014, 225, 24-33.	2.2	71
313	Photocatalytic oxidation of ethanol using paper-based nano-TiO2 immobilized on porous silica: A modelling study. Chemical Engineering Journal, 2014, 251, 381-391.	6.6	27
314	Preparation of smart nano-engineered electrospun membranes for methanol gas-phase photoxidation. Applied Catalysis B: Environmental, 2014, 144, 216-222.	10.8	17

#	Article	IF	CITATIONS
315	Mesoporous and mesostructured TiO2 coatings for photocatalytic applications. Journal of Sol-Gel Science and Technology, 2014, 70, 254-262.	1.1	5
316	Mechanism Study of Photocatalytic Degradation of Gaseous Toluene on TiO2 with Weak-Bond Adsorption Analysis Using In Situ Far Infrared Spectroscopy. Catalysis Letters, 2014, 144, 995-1000.	1.4	31
317	Enhancement of visible light photocatalytic activity of ZnS and CdS nanoparticles based on organic and inorganic coating. Applied Surface Science, 2014, 290, 440-447.	3.1	101
318	An investigation of LiNbO3 photocatalyst coating on concrete surface for improving indoor air quality. Construction and Building Materials, 2014, 54, 348-353.	3.2	29
319	Heterogeneous photocatalytic oxidation of methyl ethyl ketone under UV-A light in an LED-fluidized bed reactor. Catalysis Today, 2014, 230, 79-84.	2.2	43
320	Metal oxide semiconductors as visible light photocatalysts. Journal of the Korean Physical Society, 2014, 65, 297-302.	0.3	23
321	A low-temperature and one-step method for fabricating Znln ₂ S ₄ –GR nanocomposites with enhanced visible light photoactivity. Journal of Materials Chemistry A, 2014, 2, 14401.	5.2	94
322	Ruthenium-modified zinc oxide, a highly active vis-photocatalyst: the nature and reactivity of photoactive centres. Physical Chemistry Chemical Physics, 2014, 16, 5833.	1.3	49
323	Antibacterial and Self-Cleaning Coatings for Silicate Ceramics: A Review. Advances in Science and Technology, 0, , .	0.2	9
324	Use of Experimental Designs to Establish a Kinetic Law for a Gas Phase Photocatalytic Process. International Journal of Chemical Reactor Engineering, 2014, 12, 113-122.	0.6	6
325	Synthesis of novel and stable g-C ₃ N ₄ /N-doped SrTiO ₃ hybrid nanocomposites with improved photocurrent and photocatalytic activity under visible light irradiation. Dalton Transactions, 2014, 43, 16105-16114.	1.6	105
326	TiO ₂ nanocoatings for architectural heritage: Self-cleaning treatments on historical stone surfaces. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems, 2014, 228, 2-10.	0.1	4
327	Effect of oxygen, moisture, and temperature on the photo oxidation of ethylene on N-doped TiO2 catalyst. Separation and Purification Technology, 2014, 134, 117-125.	3.9	15
328	Nitrogen-Doped Titanium Dioxide as Visible-Light-Sensitive Photocatalyst: Designs, Developments, and Prospects. Chemical Reviews, 2014, 114, 9824-9852.	23.0	1,086
329	Testing an innovative device against airborne Aspergillus contamination. Medical Mycology, 2014, 52, 584-590.	0.3	2
330	Artificial intelligence modeling to evaluate field performance of photocatalytic asphalt pavement for ambient air purification. Environmental Science and Pollution Research, 2014, 21, 8847-8857.	2.7	37
331	Are TiO2-based exterior paints useful catalysts for gas-phase photooxidation processes? A case study on n-decane abatement for air detoxification. Applied Catalysis B: Environmental, 2014, 147, 988-999.	10.8	47
332	Durability of self-cleaning TiO2 coatings on fired clay brick façades: Effects of UV exposure and wet & amp; dry cycles. Building and Environment, 2014, 71, 193-203.	3.0	120

#	Article	IF	CITATIONS
333	Correlation between î"Abs, î"RGB (red) and stearic acid destruction rates using commercial self-cleaning glass as the photocatalyst. Catalysis Today, 2014, 230, 245-249.	2.2	27
334	Synthesis of high surface area TiO2 nanoparticles by mild acid treatment with HCl or HI for photocatalytic propene oxidation. Applied Catalysis B: Environmental, 2014, 154-155, 285-293.	10.8	32
335	Quantitative determination of carbon in titania photocatalysts by temperature programmed oxidation method. Microchemical Journal, 2014, 112, 186-189.	2.3	5
336	A new photocatalytic tool in VOCs abatement: Effective synergetic combination of sonication and light for the synthesis of monometallic palladium-containing TiO2. Applied Catalysis B: Environmental, 2014, 147, 624-632.	10.8	28
337	Durability of nano-engineered TiO2 self-cleaning treatments on limestone. Construction and Building Materials, 2014, 65, 218-231.	3.2	78
338	A Review on Visible Light Active Perovskite-Based Photocatalysts. Molecules, 2014, 19, 19995-20022.	1.7	471
339	Feasibility of Silver Doped TiO2/Glass Fiber Photocatalyst under Visible Irradiation as an Indoor Air Germicide. International Journal of Environmental Research and Public Health, 2014, 11, 3271-3288.	1.2	52
340	Kinetic Study of Photocatalytic Degradation of Nitrogen Monoxide with Titanium Dioxide Nanoparticles in Concrete Pavements. Transportation Research Record, 2014, 2441, 38-45.	1.0	3
341	Fenton-like oxidation of phenol with a Cu-chitosan/Al2O3 catalyst in a recirculating batch reactor., 2014, , 119-136.		0
342	Evaluation of ultraviolet–photocatalytic oxidation of light alcohols at sub-parts per million concentrations. Science and Technology for the Built Environment, 2015, 21, 160-171.	0.8	12
343	Controlled formation of anatase and rutile TiO2 thin films by reactive magnetron sputtering. AIP Advances, 2015, 5, .	0.6	75
344	NOx photocatalytic degradation on gypsum plates modified by TiO ₂ -N,C photocatalysts. Polish Journal of Chemical Technology, 2015, 17, 8-12.	0.3	8
345	Development of Fibre-Cement Composites with Self-Cleaning and de-NO _x Ability. Advanced Materials Research, 2015, 1124, 123-129.	0.3	0
346	Antimicrobial Activity of Pdâ€Doped ZnO Solâ€Gelâ€Derived Films. International Journal of Applied Ceramic Technology, 2015, 12, 1088-1095.	1.1	2
347	Preparation of Composite Powder and Properties by Surface Modification of Inorganic Pigments for Papermaking. KONA Powder and Particle Journal, 2015, 32, 270-278.	0.9	2
348	Preparation of a Titania/X-Zeolite/Porous Glass Composite Photocatalyst Using Hydrothermal and Drop Coating Processes. Molecules, 2015, 20, 2349-2363.	1.7	14
349	Novel multifunctional coatings with photocatalytic and hydrophobic properties for the preservation of the stone building heritage. Construction and Building Materials, 2015, 93, 189-196.	3.2	75
350	Reducing Indoor Air Pollutants Through Biotechnology. , 2015, , 181-210.		16

#	Article	IF	CITATIONS
351	Deodorization of food-related nuisances from a refrigerator: The feasibility test of photocatalytic system. Chemical Engineering Journal, 2015, 277, 260-268.	6.6	19
352	A density functional study of structural, electronic and optical properties of titanium dioxide: Characterization of rutile, anatase and brookite polymorphs. Materials Science in Semiconductor Processing, 2015, 31, 405-414.	1.9	64
353	Field study of air purifying paving elements containing TiO2. Atmospheric Environment, 2015, 107, 44-51.	1.9	69
354	Airborne Aldehyde Abatement by Latex Coatings Containing Amine-Functionalized Porous Silicas. Industrial & Engineering Chemistry Research, 2015, 54, 263-271.	1.8	14
355	Effect of surface modification with H2S and NH3 on TiO2 for adsorption and photocatalytic degradation of gaseous toluene. Applied Catalysis B: Environmental, 2015, 170-171, 215-224.	10.8	43
356	TiO2 Properties and Deposition Techniques. SpringerBriefs in Applied Sciences and Technology, 2015, , 1-14.	0.2	0
357	Chances and limitations of nanosized titanium dioxide practical application in view of its physicochemical properties. Nanoscale Research Letters, 2015, 10, 57.	3.1	56
358	Preparation, characterization and kinetic behavior of supported copper oxide catalysts on almond shell-based activated carbon for oxidation of toluene in air. Journal of Porous Materials, 2015, 22, 101-118.	1.3	22
359	Photocatalysis on Nanostructured Carbon Supported Catalysts. RSC Catalysis Series, 2015, , 412-444.	0.1	1
360	The effect of anatase and rutile crystallites isolated from titania P25 photocatalyst on growth of selected mould fungi. Journal of Photochemistry and Photobiology B: Biology, 2015, 151, 54-62.	1.7	39
361	TiO2 photocatalysis for the degradation of pollutants in gas phase: From morphological design to plasmonic enhancement. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2015, 24, 64-82.	5.6	264
362	Evaluation of a solar/UV annular pilot scale reactor for 24h continuous photocatalytic oxidation of n-decane. Chemical Engineering Journal, 2015, 280, 409-416.	6.6	30
363	Synergetic photoelectrocatalytic reactors for environmental remediation: A review. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2015, 24, 83-101.	5.6	133
364	Investigating the photo-oxidation of model indoor air pollutants using field asymmetric ion mobility spectrometry. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 312, 1-7.	2.0	10
365	Catalysis Removal of Indoor Volatile Organic Compounds in Room Temperature: From Photocatalysis to Active Species Assistance Catalysis. Catalysis Surveys From Asia, 2015, 19, 1-16.	1.0	27
366	An overview on limitations of TiO2-based particles for photocatalytic degradation of organic pollutants and the corresponding countermeasures. Water Research, 2015, 79, 128-146.	5.3	1,046
367	TiO2-based nanocoatings for preserving architectural stone surfaces: An overview. Construction and Building Materials, 2015, 84, 201-218.	3.2	162
368	Electronic and Optical Properties of Low-Dimensional TiO2: From Minority Surfaces to Nanocomposites. ACS Symposium Series, 2015, , 47-80.	0.5	1

#	Article	IF	CITATIONS
369	Metal cluster-deposited graphene as an adsorptive material for m-xylene. New Journal of Chemistry, 2015, 39, 9650-9658.	1.4	19
370	Durability of SiO ₂ –TiO ₂ Photocatalytic Coatings on Ceramic Tiles. International Journal of Applied Ceramic Technology, 2015, 12, 679-684.	1.1	27
371	Kinetic analysis of TiO2-catalyzed heterogeneous photocatalytic oxidation of ethylene using computational fluid dynamics. Chemical Engineering Journal, 2015, 263, 325-335.	6.6	41
372	Preparation of ZnO flower/reduced graphene oxide composite with enhanced photocatalytic performance under sunlight. Ceramics International, 2015, 41, 4007-4013.	2.3	117
373	TiO2 and TiO2–SiO2 coated cement: Comparison of mechanic and photocatalytic properties. Applied Catalysis B: Environmental, 2015, 178, 155-164.	10.8	88
374	Efficient behaviour of hematite towards the photocatalytic degradation of NO gases. Applied Catalysis B: Environmental, 2015, 165, 529-536.	10.8	63
375	Gas phase oxidation of n-decane and PCE by photocatalysis using an annular photoreactor packed with a monolithic catalytic bed coated with P25 and PC500. Applied Catalysis B: Environmental, 2015, 165, 306-315.	10.8	50
376	Photocatalytic reduction of [RhCl n (H 2 O) 6â^'n] 3â^'n (n = 0â€"6) in a titanium dioxide suspension: The role of structurally different sacrificial reducing agents. Applied Catalysis B: Environmental, 2015, 162, 445-453.	10.8	4
377	Analytic versus CFD approach for kinetic modeling of gas phase photocatalysis. Chemical Engineering Journal, 2015, 262, 1-8.	6.6	56
378	Preparation and Photocatalytic Activity of Ag-Modified SnO2@TiO2 Core- Shell Composites., 2016, 06, .		7
379	Adsorption and Photocatalytic Kinetics of Visible-Light Response N-Doped TiO ₂ Nanocatalyst for Indoor Acetaldehyde Removal under Dark and Light Conditions. International Journal of Photoenergy, 2016, 2016, 1-9.	1.4	19
380	Recent Development of VUV-Based Processes for Air Pollutant Degradation. Frontiers in Environmental Science, 2016, 4, .	1.5	23
381	A Novel Delafossite Structured Visible-Light Sensitive AgFeO2 Photocatalyst: Preparation, Photocatalytic Properties, and Reaction Mechanism. Catalysts, 2016, 6, 69.	1.6	47
382	A New Frontier of Photocatalysis Employing Micro-Sized TiO2: Air/Water Pollution Abatement and Self-Cleaning/ Antibacterial Applications. , 0, , .		9
383	Insights into the Mechanism of Photocatalytic Degradation of Volatile Organic Compounds on TiO2 by Using In-situ DRIFTS. , 0, , .		0
384	Enhanced Photocatalytic Oxidation of Isopropanol by HKUST-1@TiO ₂ Core–Shell Structure with Ultrathin Anatase Porous Shell: Toxic Intermediate Control. Industrial & Description (1997) Engineering Chemistry Research, 2016, 55, 8096-8103.	1.8	61
385	Methods, Mechanism, and Applications of Photodeposition in Photocatalysis: A Review. Chemical Reviews, 2016, 116, 14587-14619.	23.0	731
386	Evaluation of Mechanical Behavior and Microstructural Characteristics of Photocatalytic Concretes to Be Used as Pavement Blocks. Journal of Engineering Materials and Technology, Transactions of the ASME, 2016, 138, .	0.8	2

#	Article	IF	CITATIONS
387	An internal-illuminated monolith photoreactor towards efficient photocatalytic degradation of ppb-level isopropyl alcohol. Chemical Engineering Journal, 2016, 296, 11-18.	6.6	33
388	UV-cured polymeric films containing ZnO and silver nanoparticles with UV–vis light-assisted photocatalytic activity. Applied Surface Science, 2016, 377, 262-273.	3.1	45
389	An environment-friendly solution for indoor air purification by using renewable photocatalysts in concrete: A review. Renewable and Sustainable Energy Reviews, 2016, 62, 1184-1194.	8.2	103
390	Synergistic effects of F and Fe in co-doped TiO2 nanoparticles. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	10
391	Design of Thin Film Photocatalysts Deposited on Rotating Disks for Degradation of Organic Dyes in Wastewater. Nanostructure Science and Technology, 2016, , 147-169.	0.1	0
392	Potential continuous removal of toluene by ZnO nanorods grown on permeable alumina tube filters. RSC Advances, 2016, 6, 52360-52371.	1.7	7
393	Photocatalytic systems as an advanced environmental remediation: Recent developments, limitations and new avenues for applications. Journal of Environmental Chemical Engineering, 2016, 4, 4143-4164.	3.3	211
394	Study on photocatalytic performance of cerium-graphene oxide-titanium dioxide composite film for formaldehyde removal. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 3157-3164.	0.8	19
395	Photocatalytic Properties of All Four Polymorphs of Nanostructured Iron Oxyhydroxides. ChemNanoMat, 2016, 2, 1047-1054.	1.5	38
396	Thermal catalytic oxidation performance study of SWTCO system for the degradation of indoor formaldehyde: Kinetics and feasibility analysis. Building and Environment, 2016, 108, 183-193.	3.0	38
397	Durability assessment of nanostructured TiO2 coatings applied on limestones to enhance building surface with self-cleaning ability. Building and Environment, 2016, 110, 1-10.	3.0	67
398	Synthesis of Porous Crystalline Doped Titania Photocatalysts Using Modified Precursor Strategy. Chemistry of Materials, 2016, 28, 7878-7888.	3.2	23
399	Advancements in nanoparticle fabrication by hazard free eco-friendly green routes. Applied Materials Today, 2016, 5, 150-199.	2.3	140
400	CFD investigation of a multi-tube photocatalytic reactor in non-steady-state conditions. Chemical Engineering Journal, 2016, 304, 808-816.	6.6	30
401	Multivalence Charge Transfer in Doped and Codoped Photocatalytic TiO ₂ . Inorganic Chemistry, 2016, 55, 8071-8081.	1.9	29
402	Different hollow and spherical TiO2 morphologies have distinct activities for the photocatalytic inactivation of chemical and biological agents. Photochemical and Photobiological Sciences, 2016, 15, 988-994.	1.6	18
404	Development of UV/H 2 O 2 /TiO 2 â€"LECA hybrid process based on operating cost: Application of an effective fixed bed photo-catalytic recycled reactor. Journal of Industrial and Engineering Chemistry, 2016, 44, 90-98.	2.9	15
405	Assessing microbial decontamination of indoor air with particular focus on human pathogenic viruses. American Journal of Infection Control, 2016, 44, S121-S126.	1.1	10

#	Article	IF	CITATIONS
406	Preparation and Photocatalytic Activity of SnO2@TiO2 Core–Shell Composites Modified by Ag. Catalysis Surveys From Asia, 2016, 20, 167-172.	1.0	10
407	Enzyme Immobilization. , 2016, , .		28
408	Facile preparation of N-doped TiO2 at ambient temperature and pressure under UV light with 4-nitrophenol as the nitrogen source and its photocatalytic activities. Photochemical and Photobiological Sciences, 2016, 15, 1061-1070.	1.6	4
409	Development of a stagnation point flow system to screen and test TiO 2 -based photocatalysts in air purification applications. Chemical Engineering Journal, 2016, 306, 734-744.	6.6	16
410	Sporicidal performance induced by photocatalytic production of organic peroxide under visible light irradiation. Scientific Reports, 2016, 6, 33715.	1.6	13
411	The visible light-driven photodegradation of dimethyl sulfide on S-doped TiO 2: Characterization, kinetics, and reaction pathways. Applied Catalysis B: Environmental, 2016, 199, 1-10.	10.8	108
412	Cooperation among N, F and Fe in tri-doped TiO2 photocatalyst. Research on Chemical Intermediates, 2016, 42, 6265-6287.	1.3	9
413	Enhanced photocatalytic inactivation of bacteria on Fe-containing TiO2 nanoparticles under fluorescent light. Journal of Materials Science: Materials in Medicine, 2016, 27, 57.	1.7	37
414	Surface properties of new green building material after TiO2–SiO2 coatings deposition. Ceramics International, 2016, 42, 4866-4874.	2.3	24
415	Efficient self-cleaning treatments for built heritage based on highly photo-active and well-dispersible TiO2 nanocrystals. Microchemical Journal, 2016, 126, 54-62.	2.3	55
416	Photocatalytic oxidation of H2S in the gas phase over TiO2-coated glass fiber filter. Environmental Technology (United Kingdom), 2016, 37, 2852-2864.	1,2	22
417	Efficient degradation of gaseous benzene by VUV photolysis combined with ozone-assisted catalytic oxidation: Performance and mechanism. Applied Catalysis B: Environmental, 2016, 186, 62-68.	10.8	92
418	CFD modeling of transient adsorption/desorption behavior in a gas phase photocatalytic fiber reactor. Chemical Engineering Journal, 2016, 292, 42-50.	6.6	24
419	TiO ₂ Nanotubes with Open Channels as Deactivation-Resistant Photocatalyst for the Degradation of Volatile Organic Compounds. Environmental Science & Environmental	4.6	243
420	Photocatalytic pavements with epoxy-bonded TiO2-containing spreading material. Construction and Building Materials, 2016, 107, 44-51.	3.2	71
421	TiO 2 modification by gold (Au) for photocatalytic hydrogen (H 2) production. Renewable and Sustainable Energy Reviews, 2016, 58, 1366-1375.	8.2	124
422	Novel Method of Coating Titanium Dioxide on to Asphalt Mixture Based on the Breath Figure Process for Air-Purifying Purpose. Journal of Materials in Civil Engineering, 2016, 28, 04015188.	1.3	26
423	Photocatalytic Decolorization of Dye Effluent Using Radiation Developed Polymeric Nanocomposites. Journal of Inorganic and Organometallic Polymers and Materials, 2016, 26, 606-615.	1.9	21

#	Article	IF	Citations
424	Photocatalytic hydrophobic concrete coatings to combat air pollution. Catalysis Today, 2016, 259, 228-236.	2.2	75
425	Group III-nitride nanowires. Materials Science and Technology, 2017, 33, 765-776.	0.8	11
426	A review on photocatalysis for air treatment: From catalyst development to reactor design. Chemical Engineering Journal, 2017, 310, 537-559.	6.6	449
427	Experiments and kinetics of solar PCO for indoor air purification in PCO/TW system. Building and Environment, 2017, 115, 130-146.	3.0	54
428	Effect of Tio ₂ Nanoparticles on the Antibacterial and Physical Properties of Low-Density Polyethylene Film. Polymer-Plastics Technology and Engineering, 2017, 56, 1516-1527.	1.9	22
429	Enhanced degradation of gaseous benzene by a Fenton reaction. RSC Advances, 2017, 7, 71-76.	1.7	37
430	Efficacy of a titanium dioxide nanoparticles â^ based indoor anti-odor product as assessed by electronic nose and gaschromatography†mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2017, 144, 236-241.	1.4	4
431	Formation of intermediate band and low recombination rate in ZnO-BiVO4 heterostructured photocatalyst: Investigation based on experimental and theoretical studies. Korean Journal of Chemical Engineering, 2017, 34, 500-510.	1.2	20
432	Material Odor Emissions and Indoor Air Quality. , 2017, , 65-66.		2
433	Phytoremediation of dyes using Lagerstroemia speciosa mediated silver nanoparticles and its biofilm activity against clinical strains Pseudomonas aeruginosa. Journal of Photochemistry and Photobiology B: Biology, 2017, 168, 107-116.	1.7	35
434	Degradation of formaldehyde and benzene by TiO2 photocatalytic cement based materials. Journal Wuhan University of Technology, Materials Science Edition, 2017, 32, 391-396.	0.4	8
435	Effect of humidity on the photocatalytic degradation of gaseous hydrocarbons mixture. Materials Chemistry and Physics, 2017, 197, 1-9.	2.0	5
436	NOx removal rate of photocatalytic cementitious materials with TiO 2 in wet condition. Building and Environment, 2017, 112, 233-240.	3.0	56
437	A DFT study of volatile organic compounds adsorption on transition metal deposited graphene. Applied Surface Science, 2017, 396, 1712-1718.	3.1	43
438	Fabrication of TiO2/Ag2O heterostructure with enhanced photocatalytic and antibacterial activities under visible light irradiation. Applied Surface Science, 2017, 396, 1596-1603.	3.1	92
439	Inorganic semiconductors-graphene composites in photo(electro)catalysis: Synthetic strategies, interaction mechanisms and applications. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2017, 33, 132-164.	5.6	54
440	Effects of hydrogen and nitrogen impurities on electronic, structural and optical properties of 2D ZnS graphene based. Journal of Materials Science, 2017, 52, 10393-10405.	1.7	5
441	Review of Techniques to Achieve Optical Surface Cleanliness and Their Potential Application to Surgical Endoscopes. Surgical Innovation, 2017, 24, 509-527.	0.4	16

#	Article	IF	CITATIONS
442	Atmospheric NOx removal: Study of cement mortars with iron- and vanadium-doped TiO2 as visible lightâ€"sensitive photocatalysts. Construction and Building Materials, 2017, 149, 257-271.	3.2	55
443	Effect of process variables on ethylene removal by vacuum ultraviolet radiation: Application in fresh produce storage. Biosystems Engineering, 2017, 159, 33-45.	1.9	28
444	Self-assembled three-dimensional inverted photonic crystals on a photonic chip. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700039.	0.8	2
445	A micro membrane-less photoelectrochemical cell for hydrogen and electricity generation in the presence of methanol. Electrochimica Acta, 2017, 245, 549-560.	2.6	15
446	Understanding the effect of plasmonic enhancement on photocatalytic activity of TiO 2 nanotube arrays. Materials Characterization, 2017, 128, 134-141.	1.9	11
447	Durability of epoxy-bonded TiO 2 -modified aggregate as a photocatalytic coating layer for asphalt pavement under vehicle tire polishing. Wear, 2017, 382-383, 1-7.	1.5	39
448	Construction of LaFe1 \hat{a} °xMnxO3/attapulgite nanocomposite for photo-SCR of NOx at low temperature. Chemical Engineering Journal, 2017, 320, 211-221.	6.6	39
449	Photocatalytic and Photochemical Oxidation of Ethylene: Potential for Storage of Fresh Produce—a Review. Food and Bioprocess Technology, 2017, 10, 982-1001.	2.6	75
450	Influence of humidity on the removal of volatile organic compounds using solid surfaces. Catalysis Today, 2017, 295, 3-13.	2.2	33
451	Microwave-assisted preparation of photoactive TiO2 on textile substrates. Journal of Coatings Technology Research, 2017, 14, 721-733.	1.2	13
452	Nitrogen-containing organic compounds: Origins, toxicity and conditions of their photocatalytic mineralization over TiO2. Science of the Total Environment, 2017, 580, 1489-1504.	3.9	53
453	Fabrication of Efficient Visible-light-responsive TiO ₂ -WO ₃ Hollow Particle Photocatalyst by Electrospray Method. Chemistry Letters, 2017, 46, 122-124.	0.7	9
454	Solar energy storage in the rechargeable batteries. Nano Today, 2017, 16, 46-60.	6.2	175
455	Visible-light active tin selenide nanostructures: synthesis, characterization and photocatalytic activity. New Journal of Chemistry, 2017, 41, 14689-14695.	1.4	39
456	Enhancement of formaldehyde removal by activated carbon fiber via in situ growth of carbon nanotubes. Building and Environment, 2017, 126, 27-33.	3.0	55
457	Electrospun polyvinylidene fluoride containing nanoscale graphite platelets as electret membrane and its application in air filtration under extreme environment. Polymer, 2017, 131, 143-150.	1.8	36
458	UV/ozone-assisted tribochemistry-induced nanofabrication on Si(100) surfaces. RSC Advances, 2017, 7, 39651-39656.	1.7	22
459	Computational fluid dynamics modeling and parameterization of the visible light photocatalytic oxidation process of toluene for indoor building material. Sustainable Cities and Society, 2017, 35, 298-308.	5.1	16

#	Article	IF	CITATIONS
460	Multiphase TiO ₂ nanostructures: a review of efficient synthesis, growth mechanism, probing capabilities, and applications in bio-safety and health. RSC Advances, 2017, 7, 44199-44224.	1.7	142
461	Synthesis of Conducting Polypyrrole-Titanium Oxide Nanocomposite: Study of Structural, Optical and Electrical Properties. Journal of Inorganic and Organometallic Polymers and Materials, 2017, 27, 257-263.	1.9	26
462	Self-cleaning traffic marking paint. Surfaces and Interfaces, 2017, 9, 13-20.	1.5	21
463	Photocatalytic NO x degradation of concrete surface layers intermixed and spray-coated with nano-TiO 2: Influence of experimental factors. Cement and Concrete Composites, 2017, 83, 279-289.	4.6	88
464	Hydrolysis driving redox reaction to synthesize Mn-Fe binary oxides as highly active catalysts for the removal of toluene. Chemical Engineering Journal, 2017, 330, 281-293.	6.6	221
465	Solvothermal modification of BiOCl nanosheets with Bi nanoparticles using ascorbic acid as reductant and the superoxide radicals dominated photocatalytic performance. Materials Research Express, 2017, 4, 115032.	0.8	8
466	A probe into the effect of fixing the titanium dioxide by a conductive polymer and ceramic on the photocatalytic activity for degradation of organic pollutants. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 346, 431-443.	2.0	24
467	Facile fabrication of pseudo-microspherical ZnO/CdS core-shell photocatalysts for solar hydrogen production by water splitting. Ceramics International, 2017, 43, 13493-13499.	2.3	46
468	Chlorobenzene degeradation by non-thermal plasma combined with EG-TiO2/ZnO as a photocatalyst: Effect of photocatalyst on CO2 selectivity and byproducts reduction. Journal of Hazardous Materials, 2017, 324, 544-553.	6.5	65
469	Photocatalytic oxidation technology for indoor environment air purification: The state-of-the-art. Applied Catalysis B: Environmental, 2017, 203, 247-269.	10.8	573
470	Anatase TiO 2 nanotube arrays and titania films on titanium mesh for photocatalytic NO X removal and water cleaning. Catalysis Today, 2017, 287, 59-64.	2.2	41
471	Bipyramidal anatase TiO2 nanoparticles, a highly efficient photocatalyst? Towards a better understanding of the reactivity. Applied Catalysis B: Environmental, 2017, 203, 324-334.	10.8	18
472	VUV photo-oxidation of gaseous benzene combined with ozone-assisted catalytic oxidation: Effect on transition metal catalyst. Applied Surface Science, 2017, 391, 662-667.	3.1	42
473	Intensification of heterogeneous TiO 2 photocatalysis using an innovative micro-meso-structured-photoreactor for n -decane oxidation at gas phase. Chemical Engineering Journal, 2017, 310, 331-341.	6.6	56
474	Photocatalytic materials and technologies for air purification. Journal of Hazardous Materials, 2017, 325, 340-366.	6.5	276
475	Advanced Solar Photocatalytic Asphalt for Removal of Vehicular NO x. Energy Procedia, 2017, 143, 811-816.	1.8	18
476	The Effect of TiO2 Doped Photocatalytic Nano-Additives on the Hydration and Microstructure of Portland and High Alumina Cements. Nanomaterials, 2017, 7, 329.	1.9	16
477	Mitigation of Livestock Odors Using Black Light and a New Titanium Dioxide-Based Catalyst: Proof-of-Concept. Atmosphere, 2017, 8, 103.	1.0	21

#	Article	IF	Citations
478	Photocatalytic Degradation of Toluene, Butyl Acetate and Limonene under UV and Visible Light with Titanium Dioxide-Graphene Oxide as Photocatalyst. Environments - MDPI, 2017, 4, 9.	1.5	12
479	Computational nanotechnology to predict photocatalysis of titania nanoparticles in cement-based materials. , 2017, , .		1
480	TiO2 nanosheets decorated with B4C nanoparticles as photocatalysts for solar fuel production under visible light irradiation. Applied Surface Science, 2018, 443, 558-566.	3.1	15
481	Photocatalytic activity of TiO2/Nb2O5/PANI and TiO2/Nb2O5/RGO as new nanocomposites for degradation of organic pollutants. Journal of Hazardous Materials, 2018, 351, 147-159.	6.5	85
482	A compact study on impact of multiplicative Streblus asper inspired biogenic silver nanoparticles as effective photocatalyst, good antibacterial agent and interplay upon interaction with human serum albumin. Journal of Molecular Liquids, 2018, 259, 18-29.	2.3	35
483	Influence of inorganic additives on the photocatalytic removal of nitric oxide and on the charge carrier dynamics of TiO2 powders. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 366, 142-151.	2.0	6
484	On the role of BmimPF6 and P/F- containing additives in the sol-gel synthesis of TiO2 photocatalysts with enhanced activity in the gas phase degradation of methyl ethyl ketone. Applied Catalysis B: Environmental, 2018, 234, 56-69.	10.8	16
485	Role of precursors on photocatalytic behavior of graphitic carbon nitride. Materials Today: Proceedings, 2018, 5, 9203-9210.	0.9	23
486	Effect of surface fluorination of P25-TiO2 on adsorption of indoor environment volatile organic compounds. Chemical Engineering Journal, 2018, 346, 578-589.	6.6	47
487	A type of novel glass for indoor air cleaning under visible-light. Building and Environment, 2018, 137, 226-234.	3.0	12
488	Effect of the morphology and pore structure of porous building materials on photocatalytic oxidation of air pollutants. Applied Catalysis B: Environmental, 2018, 227, 123-131.	10.8	50
489	CFD- and radiation field modeling of a gas phase photocatalytic multi-tube reactor. Chemical Engineering Journal, 2018, 338, 287-299.	6.6	33
490	Integration of a photocatalytic multi-tube reactor for indoor air purification in HVAC systems: a feasibility study. Environmental Science and Pollution Research, 2018, 25, 18015-18026.	2.7	12
491	Mechanochemical synthesis of novel heterostructured Bi2S3/Zn-Al layered double hydroxide nano-particles as efficient visible light reactive Z-scheme photocatalysts. Applied Surface Science, 2018, 452, 123-133.	3.1	55
492	Unraveling the mechanisms of room-temperature catalytic degradation of indoor formaldehyde and its biocompatibility on colloidal TiO ₂ -supported MnO _x –CeO ₂ . Environmental Science: Nano, 2018, 5, 1130-1139.	2.2	21
493	Assessment of photocatalytic, superhydrophobic and self-cleaning properties on hot mix asphalts coated with TiO2 and/or ZnO aqueous solutions. Construction and Building Materials, 2018, 166, 500-509.	3.2	49
494	Study of innovative photocatalytic cement based coatings: The effect of supporting materials. Construction and Building Materials, 2018, 168, 923-930.	3.2	33
495	Photocatalytic degradation of polyvinylpyrrolidone in aqueous solution using TiO ₂ /H ₂ O ₂ /UV system. Environmental Technology (United) Tj ETQq1 1 C	.78.4814 r	gBīī3/Overloc

#	Article	IF	Citations
496	Study of the influence of nano-TiO ₂ on the properties of Portland cement concrete for application on road surfaces. Road Materials and Pavement Design, 2018, 19, 1011-1026.	2.0	39
497	Effect of acid activation of palygorskite on their toluene adsorption behaviors. Applied Clay Science, 2018, 159, 60-67.	2.6	83
498	Enhancement of physical properties of stain-etched porous silicon by integration of WO3 nanoparticles. Thin Solid Films, 2018, 645, 51-56.	0.8	10
499	Design, characterization and model validation of a LED-based photocatalytic reactor for gas phase applications. Chemical Engineering Journal, 2018, 333, 456-466.	6.6	30
500	Advanced oxidation processes for the removal of natural organic matter from drinking water sources: A comprehensive review. Journal of Environmental Management, 2018, 208, 56-76.	3.8	276
501	Homogeneous introduction of CeOy into MnOx-based catalyst for oxidation of aromatic VOCs. Applied Catalysis B: Environmental, 2018, 224, 825-835.	10.8	360
502	The Role of Internet in Business Strategy Using Trading Method. IOP Conference Series: Materials Science and Engineering, 2018, 407, 012179.	0.3	1
503	The Assessment of the Potential Parameters in the Coastal Tourism: a Review of the Literatures Method. IOP Conference Series: Materials Science and Engineering, 2018, 407, 012152.	0.3	0
504	Toluene concentrations reduction by using photocatalytic coating methods for cementitious materials. MATEC Web of Conferences, 2018, 162, 05003.	0.1	2
505	Oxygen vacancies of the TiO ₂ nano-based composite photocatalysts in visible light responsive photocatalysis. RSC Advances, 2018, 8, 33551-33563.	1.7	31
506	Structural and Spectroscopic Studies of Nanostructured Alumina Doped LaFeO3 a Photo catalyst Ceramics Synthesized Through an Auto Igniting Combustion Synthesis. IOP Conference Series: Materials Science and Engineering, 2018, 360, 012026.	0.3	0
507	Study of thermomechanical and antibacterial properties of TiO2/Poly(lactic acid) nanocomposites. Materials Today: Proceedings, 2018, 5, 27553-27562.	0.9	17
508	The mechanical and photocatalytic properties of modified gypsum materials. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 236-237, 1-9.	1.7	16
509	Preparation and Characterization of Zeolite/TiO2 Cement-Based Composites with Excellent Photocatalytic Performance. Materials, 2018, 11, 2485.	1.3	13
510	Kinetic Parameters of Thermal Decomposition Process Analyzed using a Mathematical Model. Journal of Physics: Conference Series, 2018, 947, 012002.	0.3	0
511	Congo red photomineralization over Co3O4/CoTe common cation nanocomposites. Journal of Materials Science: Materials in Electronics, 2018, 29, 20271-20279.	1.1	5
512	Introduction to Inorganic Fibers. , 2018, , 1-29.		1
513	UV-C/H2O2 heterogeneous photocatalytic inactivation of coliforms in municipal wastewater in a TiO2/SiO2 fixed bed reactor: a kinetic and statistical approach. Reaction Kinetics, Mechanisms and Catalysis, 2018, 125, 1159-1177.	0.8	12

#	Article	IF	CITATIONS
514	Development of water-repellent cement mortar using silane enriched with nanomaterials. Progress in Organic Coatings, 2018, 125, 48-60.	1.9	64
515	Solar photocatalytic asphalt for removal of vehicular NOx: A feasibility study. Applied Energy, 2018, 225, 535-541.	5.1	43
516	High surface area TiO 2 /SBA-15 nanocomposites: Synthesis, microstructure and adsorption-enhanced photocatalysis. Chemical Physics, 2018, 510, 47-53.	0.9	50
517	A review on recent advances in photodegradation of dyes using doped and heterojunction based semiconductor metal sulfide nanostructures for environmental protection. Materials Today Energy, 2018, 9, 83-113.	2.5	254
518	Performance of an innovative VUV-PCO purifier with nanoporous TiO2 film for simultaneous elimination of VOCs and by-product ozone in indoor air. Building and Environment, 2018, 142, 379-387.	3.0	42
519	Correlation of Surface Area with Photocatalytic Activity of TiO2. Journal of Advanced Oxidation Technologies, 2018, 21, 127-137.	0.5	23
520	Spectral Selective Solar Light Enhanced Photocatalysis: TiO2/TiAlN Bilayer Films. Topics in Catalysis, 2018, 61, 1607-1614.	1.3	4
521	Photocatalytic oxidation of isoflurane, an anesthetic gas: The influence of operating parameters. Chemical Engineering Journal, 2018, 352, 441-449.	6.6	18
522	S-Doped Sb2O3 Nanocrystal: an Efficient Visible-Light Catalyst for Organic Degradation. Nanoscale Research Letters, 2018, 13, 114.	3.1	17
523	Promotion of toluene degradation in negative DC corona discharge by magnetic field. Journal Physics D: Applied Physics, 2018, 51, 425203.	1.3	5
524	A review of factors surrounding the air pollution exposure to in-pram babies and mitigation strategies. Environment International, 2018, 120, 262-278.	4.8	21
525	Solar light efficient photocatalytic activity degradation of emergent contaminants by coated TiO2 nanoparticles. New Journal of Chemistry, 2018, 42, 15405-15412.	1.4	3
526	One-step mechanochemical synthesis of plasmonic Ag/Zn–Al LDH with excellent photocatalytic activity. Journal of Materials Science, 2018, 53, 12795-12806.	1.7	45
527	Improving the Selectivity of Photocatalytic NO<1> _x (1) Abatement through Improved O ₂ Reduction Pathways Using Ti _{0.909} W _{0.091} O ₂ N _{<i>x</i>} Semiconductor Nanoparticles: From Characterization to Photocatalytic Performance. ACS Catalysis, 2018, 8,	5.5	20
528	Design and optimization of fluidized bed photoreactor for ethylene reduction within cold storage room for fruits and vegetables using TiO ₂ -based materials. Acta Horticulturae, 2018, , 623-630.	0.1	2
529	Soft drink industry wastewater treatment in microwave photocatalytic system – Exploration of removal efficiency and degradation mechanism. Separation and Purification Technology, 2019, 210, 600-607.	3.9	29
530	Synthesis of polyaniline/titanium dioxide nanocomposite (PAni/TiO2) and its application as photocatalyst in acrylic pseudo paint for benzene removal under UV/VIS lights. Progress in Organic Coatings, 2019, 136, 105257.	1.9	32
531	Hybrid poly (3-hexylthiophene) (P3HT) nanomesh/ZnO nanorod p-n junction visible photocatalyst for efficient indoor air purification. Applied Surface Science, 2019, 496, 143641.	3.1	13

#	Article	IF	CITATIONS
532	Synthesis of Ag/AgCl-modified TiO2/MgAl-layered double hydroxide nanocomposite with enhanced photocatalytic activity. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 383, 111973.	2.0	16
533	Structure and enhanced antimicrobial activity of mechanically activated nano TiO ₂ . Journal of the American Ceramic Society, 2019, 102, 7735-7745.	1.9	10
534	Introducing catalysis in photocatalysis: What can be understood from surface science studies of alcohol photoreforming on TiO ₂ . Journal of Physics Condensed Matter, 2019, 31, 473002.	0.7	19
535	Anchoring Pt on surface/bulk of LaCoO3 nanotubes via one step of coaxial electrospinning for efficient total propane oxidation. Molecular Catalysis, 2019, 475, 110504.	1.0	7
536	Ozonation and ozone-enhanced photocatalysis for VOC removal from air streams: Process optimization, synergy and mechanism assessment. Science of the Total Environment, 2019, 687, 1357-1368.	3.9	62
537	TiO2-based Photocatalytic Cementitious Composites: Materials, Properties, Influential Parameters, and Assessment Techniques. Nanomaterials, 2019, 9, 1444.	1.9	92
538	Performance analysis of a purified Trombe wall with ventilation blinds based on photo-thermal driven purification. Applied Energy, 2019, 255, 113846.	5.1	23
539	Self-Cleaning Concrete for Landscaping Applications. MATEC Web of Conferences, 2019, 289, 05004.	0.1	4
540	Mock-up Test for NOx Reduction by Photocatalyst Paint for Indoor Use. E3S Web of Conferences, 2019, 111, 02029.	0.2	0
541	One Real-Time Fluorescent Loop-Mediated Isothermal Ampliï¬cation Combined with Propidium Monoazide for Detection of Viable Vibrio Parahaemolyticus in Seafood. American Journal of Biochemistry and Biotechnology, 2019, 15, 91-100.	0.1	1
542	Inhibition of Fungal Growth Using Modified TiO ₂ with Core@Shell Structure of Ag@CuO Clusters. ACS Applied Bio Materials, 2019, 2, 5626-5633.	2.3	21
543	Mems Meets Zinc-Oxide Nanowires for Real-Time Monitoring of Air Purification: Case of Tobacco Smoke. , 2019, , .		0
544	Photocatalytic Degradation Enhancement in Pickering Emulsions Stabilized by Solid Particles of Bare TiO ₂ . Langmuir, 2019, 35, 2129-2136.	1.6	41
545	Hydrophilic surface modification of TiO2 to produce a highly sustainable photocatalyst for outdoor air purification. Applied Surface Science, 2019, 479, 31-38.	3.1	53
546	Nanotechnology and Nanobiotechnology for Environmental Remediation. Nanotechnology in the Life Sciences, 2019, , 77-93.	0.4	2
547	Influence of operating parameters on the single-pass photocatalytic removal efficiency of acrylonitrile. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 382, 111905.	2.0	1
548	Methodology to evaluate the antimicrobial effectiveness of UV-activated TiO2 nanoparticle-embedded cellulose acetate film. Food Control, 2019, 106, 106690.	2.8	24
549	Numerical Simulation of Photocatalytic Reduction of Gas Phase CO2 in Optofluidic Microreactor. Catalysis Letters, 2019, 149, 3000-3011.	1.4	7

#	Article	IF	CITATIONS
550	Investigation of nonlinear optical and photocatalytic properties of sol–gel derived KBiFe2O5. Journal of Materials Science: Materials in Electronics, 2019, 30, 11451-11457.	1.1	9
551	Double dielectric barrier discharge cells for promoting the catalytic degradation of volatile organic compound released by industrial processes. Environmental Science and Pollution Research, 2019, 26, 19930-19941.	2.7	5
552	Rapid bacterial disinfection using low frequency piezocatalysis effect. Journal of Industrial and Engineering Chemistry, 2019, 77, 355-364.	2.9	61
553	Engineering nanomaterials for water and wastewater treatment: review of classifications, properties and applications. New Journal of Chemistry, 2019, 43, 7902-7927.	1.4	72
554	Photocatalytic porcelain grÃ $ \odot $ s large slabs digitally coated with AgNPs-TiO2. Environmental Science and Pollution Research, 2019, 26, 36117-36123.	2.7	8
555	Controlling the growth of ultrathin MoS2 nanosheets/CdS nanoparticles by two-step solvothermal synthesis for enhancing photocatalytic activities under visible light. Applied Surface Science, 2019, 480, 1078-1088.	3.1	56
556	Influence of environmental parameters on the photocatalytic oxidation efficiency of acrylonitrile and isoflurane; two operating room pollutants. Building and Environment, 2019, 154, 97-106.	3.0	4
557	Technology for mercury removal from flue gas of coal based thermal power plants: A comprehensive review. Critical Reviews in Environmental Science and Technology, 2019, 49, 1700-1736.	6.6	23
558	Evolution of photovoltaic and photocatalytic activity in anatase-TiO2 under visible light via simplistic deposition of CdS and PbS quantum-dots. Materials Chemistry and Physics, 2019, 229, 508-513.	2.0	32
559	Recent advances in computational photocatalysis: A review. Canadian Journal of Chemical Engineering, 2019, 97, 1982-1998.	0.9	45
560	Low intensity electric field inactivation of Gram-positive and Gram-negative bacteria via metal-free polymeric composite. Materials Science and Engineering C, 2019, 99, 827-837.	3.8	21
561	Information Technology for Accounting Application. IOP Conference Series: Materials Science and Engineering, 2019, 662, 022008.	0.3	0
562	An Innovative Air Purification Method and Neural Network Algorithm Applied to Urban Streets. International Journal of Embedded and Real-Time Communication Systems, 2019, 10, 1-19.	0.3	3
563	A compact prospective investigation on the colorimetric recognition of Hg ²⁺ ion and photostimulated degradation of discharged toxic organic dyes motivated by <i>H. mutabilis</i> directed silver nanoparticles. New Journal of Chemistry, 2019, 43, 17188-17199.	1.4	5
564	Magnetic, optical and photocatalytic properties of yttrium doped KBiFe2O5. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	7
565	Photocatalytic inactivation of <i>Escherichia coli </i> i>under UV light irradiation using large surface area anatase TiO < sub > 2 quantum dots. Royal Society Open Science, 2019, 6, 191444.	1.1	16
566	Smart, Photocatalytic and Self-Cleaning Asphalt Mixtures: A Literature Review. Coatings, 2019, 9, 696.	1.2	37
567	Regeneration of sulfur-deactivated TiO2 photocatalysts. Applied Catalysis A: General, 2019, 572, 15-23.	2.2	14

#	Article	IF	CITATIONS
568	A Novel approach for synthesis of LaFeO3/Bentonite Nanocomposite for degradation of methylene blue with enhanced photocatalytic activity' for publication in your esteemed Journal †Materials research express. Materials Research Express, 2019, 6, 035013.	0.8	5
569	Photocatalytic Gas Phase Reactions. Chemistry of Materials, 2019, 31, 597-618.	3.2	74
571	Field performances of nanosized TiO2 coated limestone for a self-cleaning building surface in an urban environment. Building and Environment, 2019, 147, 506-516.	3.0	47
572	Integrated adsorption and photocatalytic degradation of volatile organic compounds (VOCs) using carbon-based nanocomposites: A critical review. Chemosphere, 2019, 218, 845-859.	4.2	299
573	Towards visible-light photocatalysis for environmental applications: band-gap engineering versus photons absorption—a review. Environmental Science and Pollution Research, 2019, 26, 4155-4170.	2.7	70
574	Application of recycled lanthanum-doped TiO2 immobilized on commercial air filter for visible-light photocatalytic degradation of acetone and NO. Applied Surface Science, 2019, 465, 31-40.	3.1	49
575	Photocatalytic asphalt pavement: the physicochemical and rheological impact of TiO ₂ nano/microparticles and ZnO microparticles onto the bitumen. Road Materials and Pavement Design, 2019, 20, 1452-1467.	2.0	25
576	Association between the emissions of volatile organic compounds from vehicular cabin materials and temperature: Correlation and exposure analysis. Indoor and Built Environment, 2019, 28, 362-371.	1.5	11
577	Simultaneously catalytic decomposition of formaldehyde and ozone over manganese cerium oxides at room temperature: Promotional effect of relative humidity on the MnCeOx solid solution. Catalysis Today, 2019, 327, 323-333.	2.2	60
578	Efficient photocatalytic oxidation of gaseous toluene over F-doped TiO2 in a wet scrubbing process. Chemical Engineering Journal, 2020, 386, 121025.	6.6	51
579	Synthesis and characterization of ZnO-Nb2O5 catalysts for photodegradation of bromophenol blue. Catalysis Today, 2020, 344, 240-246.	2.2	24
580	A review on the design and development of photocatalyst synthesis and application in microfluidic reactors: challenges and opportunities. Reviews in Chemical Engineering, 2020, 36, 687-722.	2.3	38
581	Computational fluid dynamics modelling of the visible light photocatalytic oxidation process of toluene for indoor building materials with locally doped titanium dioxide. Indoor and Built Environment, 2020, 29, 163-179.	1.5	9
582	Highly efficient Mn2O3 catalysts derived from Mn-MOFs for toluene oxidation: The influence of MOFs precursors. Molecular Catalysis, 2020, 482, 110701.	1.0	76
583	Tuning the size of photo-deposited metal nanoparticles <i>via</i> manipulating surface defect structures of TiO ₂ nanocrystals. Chemical Communications, 2020, 56, 1964-1967.	2.2	16
584	Analysis of an indoor air decontamination device inside an aerobiology chamber: a numerical-experimental study. Air Quality, Atmosphere and Health, 2020, 13, 281-288.	1.5	8
585	Efficiency and durability of g-C3N4-based coatings applied on mortar under peeling and washing trials. Construction and Building Materials, 2020, 234, 117438.	3.2	5
586	Electrospun Active Media Based on Polyvinylidene Fluoride (PVDF)-Graphene-TiO2 Nanocomposite Materials for Methanol and Acetaldehyde Gas-Phase Abatement. Catalysts, 2020, 10, 1017.	1.6	6

#	Article	IF	CITATIONS
587	Phase, optical property, and photocatalytic performance behaviors of non-stoichiometric bismuth oxylodide. Inorganic and Nano-Metal Chemistry, 0 , , 1 -6.	0.9	1
588	Selective synthesis of visible light active Î ³ -bismuth molybdate nanoparticles for efficient photocatalytic degradation of methylene blue, reduction of 4-nitrophenol, and antimicrobial activity. RSC Advances, 2020, 10, 36636-36643.	1.7	10
589	Photocatalytic activity of neat and polymer-modified bitumen. Applied Materials Today, 2020, 21, 100795.	2.3	2
590	InP quantum dots on g-C3N4 nanosheets to promote molecular oxygen activation under visible light. Chinese Chemical Letters, 2020, 31, 2689-2692.	4.8	20
591	Role of Photocatalysts in Air Purification. , 2022, , 597-603.		1
592	An Investigation on the Synthesis of Molybdenum Oxide and Its Silica Nanoparticle Composites for Dye Degradation. Nanomaterials, 2020, 10, 2409.	1.9	8
593	Synthesis of BiFeO3 nanoparticles for the photocatalytic removal of chlorobenzene and a study of the effective parameters. Reaction Kinetics, Mechanisms and Catalysis, 2020, 131, 437-452.	0.8	8
594	Role of Nanotechnology in Photocatalysis. , 2022, , 578-589.		40
595	Preparing micro/nano-fibrous filters for effective PM 2.5 under low filtration resistance. Chemical Engineering Science, 2020, 217, 115523.	1.9	26
596	An effective light activated TiO2 nanodot platform for gene delivery within cell sheets to enhance osseointegration. Chemical Engineering Journal, 2020, 402, 126170.	6.6	11
597	Solar light harvest: modified d-block metals in photocatalysis. Catalysis Science and Technology, 2020, 10, 5321-5344.	2.1	3
598	Disinfectants and devices for surface and air disinfection in dental offices. Journal of Stomatology, 2020, 73, 200-205.	0.1	9
599	Cotton Terry Textiles with Photo- and Bio-Activity in a Model Study and Real Conditions. Materials, 2020, 13, 3334.	1.3	3
600	Comparison of separated and combined photodegradation and biofiltration technology for the treatment of volatile organic compounds: A critical review. Critical Reviews in Environmental Science and Technology, 2022, 52, 1325-1355.	6.6	16
601	SnO2â^'x/Sb2O3 composites synthesized by mechanical milling method with excellent photocatalytic properties for isopropyl alcohol oxidation. Journal of Materials Science: Materials in Electronics, 2020, 31, 8564-8577.	1.1	3
602	Development of a sustainable photocatalytic process for air purification Chemosphere, 2020, 257, 127236.	4.2	29
603	Synthesis of Titanium Dioxide via Surfactant-Assisted Microwave Method for Photocatalytic and Dye-Sensitized Solar Cells Applications. Catalysts, 2020, 10, 586.	1.6	26
604	Carbon-doped TiO2 film to enhance visible and UV light photocatalytic degradation of indoor environment volatile organic compounds. Journal of Environmental Chemical Engineering, 2020, 8, 104162.	3.3	38

#	Article	IF	CITATIONS
605	Mechanistic insights into toluene degradation under VUV irradiation coupled with photocatalytic oxidation. Journal of Hazardous Materials, 2020, 399, 122967.	6.5	48
606	Synthesis of well-defined poly(n-vinylpyrrolidone)/n-TiO2 nanocomposites by xanthate-mediated radical polymerization. Iranian Polymer Journal (English Edition), 2020, 29, 371-381.	1.3	2
607	Plasma-photocatalytic degradation of gaseous toluene using SrTiO3/rGO as an efficient heterojunction for by-products abatement and synergistic effects. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 394, 112460.	2.0	30
608	The application of photocatalytic materials for efficient air purification. , 2020, , 109-126.		1
609	A spectroscopic study for the photocatalytic oxidation of propane over different types of TiO2. International Journal of Environmental Analytical Chemistry, 2020, , 1-11.	1.8	2
610	CuFe2O4@CuO: A Magnetic Composite Synthesized by Ultrasound Irradiation and Degradation of Methylene Blue on Its Surface in the Presence of Sunlight. Proceedings (mdpi), 2019, 48, .	0.2	7
611	Effect of Corona Discharge Plasma and Ozone on the Rate of the Photocatalytic Oxidation of Acetone and Benzene Vapors. Catalysis in Industry, 2020, 12, 141-147.	0.3	1
612	Recent Progresses on Metal Halide Perovskite-Based Material as Potential Photocatalyst. Catalysts, 2020, 10, 709.	1.6	65
613	Tetracycline Photocatalytic Degradation under CdS Treatment. Journal of Marine Science and Engineering, 2020, 8, 483.	1.2	41
614	Assessment of atomic layer deposited TiO2 photocatalytic self-cleaning by quartz crystal microbalance. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	0.9	5
615	Advanced oxidation processes using catalytic nanomaterials for air and water remediation. , 2020, , 167-192.		4
616	Effect of Selected Environmental Factors on the Microbicidal Effectiveness of Radiant Catalytic Ionization. Frontiers in Microbiology, 2020, 10, 3057.	1.5	5
617	Influence of Mg, Cu, and Ni Dopants on Amorphous TiO2 Thin Films Photocatalytic Activity. Materials, 2020, 13, 886.	1.3	15
618	Wastewater problems and treatments. , 2020, , 151-174.		5
619	Continuous Monitoring of Air Purification: A Study on Volatile Organic Compounds in a Gas Cell. Sensors, 2020, 20, 934.	2.1	12
620	Photocatalytic nano-mortars. , 2020, , 273-296.		1
621	Nanocatalyst-based catalytic oxidation processes. , 2020, , 133-150.		7
622	Synthesis of MnO2 modified porous carbon spheres by preoxidation-assisted impregnation for catalytic oxidation of indoor formaldehyde. Journal of Porous Materials, 2020, 27, 801-815.	1.3	16

#	Article	IF	CITATIONS
623	One-step fabrication of TiO2/Ti foil annular photoreactor for photocatalytic degradation of formaldehyde. Chemical Engineering Journal, 2020, 394, 124917.	6.6	45
624	Ammonia and methane oxidation on TiO2 supported on glass fiber mesh under artificial solar irradiation. Environmental Science and Pollution Research, 2021, 28, 18354-18367.	2.7	12
625	Gasâ€Phase Photoelectrocatalysis Mediated by Oxygen Ions for Uphill Conversion of Greenhouse Gases. ChemPhotoChem, 2021, 5, 275-281.	1.5	7
626	The preparation of a novel eco-friendly methylene Blue/TiO ₂ /PVC composite film and its photodegradability. Polymer-Plastics Technology and Materials, 2021, 60, 358-368.	0.6	2
627	Ferrites as solar photocatalytic materials and their activities in solar energy conversion and environmental protection: A review. Solar Energy Materials and Solar Cells, 2021, 219, 110786.	3.0	118
628	Recent advances in photocatalytic removal of organic and inorganic pollutants in air. Journal of Cleaner Production, 2021, 278, 123895.	4.6	103
629	Modelling of NO photocatalytic degradation in an experimental chamber. Chemical Engineering Journal, 2021, 408, 127298.	6.6	2
630	Simultaneous removal of VOCs and PM2.5 by metal-organic framework coated electret filter media. Journal of Membrane Science, 2021, 618, 118629.	4.1	22
631	Photocatalytic generation of gas phase reactive oxygen species from adsorbed water: Remote action and electrochemical detection. Journal of Environmental Chemical Engineering, 2021, 9, 104809.	3.3	10
632	Thermal, electrical and purification performance of a novel thermal-catalytic CdTe double-layer breathing window in winter. Renewable Energy, 2021, 167, 313-332.	4.3	17
633	Influence of mixing methods on the NOx reduction capability and electrical properties of photocatalytic cementitious systems. Cement and Concrete Composites, 2021, 115, 103840.	4.6	14
634	Green nanotechnology: A promising tool for agriculture disease management. , 2021, , 505-534.		4
635	Cellulose Photocatalysis for Renewable Energy Production. Environmental Chemistry for A Sustainable World, 2021, , 1-34.	0.3	1
636	Aerogel applications and future aspects. , 2021, , 357-367.		3
637	Photocatalytic purification of vehicle exhaust using CeO2–Bi2O3 loaded on white carbon and tourmaline. Environmental Science and Pollution Research, 2021, 28, 17724-17738.	2.7	6
638	Photocatalytic oxidation of pollutants in gas-phase via Ag ₃ PO ₄ -based semiconductor photocatalysts: Recent progress, new trends, and future perspectives. Critical Reviews in Environmental Science and Technology, 2022, 52, 2339-2382.	6.6	43
639	Photocatalytic Lime Render for Indoor and Outdoor Air Quality Improvement. Catalysts, 2021, 11, 296.	1.6	3
640	Rapid formation of a shelter-in-place using a combination of vortex flow and chemical oxidation for indoor environments containing neurotoxic gases. Building and Environment, 2021, 190, 107568.	3.0	3

#	Article	IF	CITATIONS
641	Organic Sorbents for Air Purification: A New Application for Recyclable Hyper-Cross-Linked Polystyrene. Industrial & Engineering Chemistry Research, 2021, 60, 3969-3980.	1.8	4
642	Modeling of photocatalytic oxidation reactor for methyl ethyl ketone removal from indoor environment: Systematic model development and validation. Chemical Engineering Journal, 2021, 409, 128265.	6.6	17
643	Enhancement and stabilization of isolated hydroxyl groups via the construction of coordinatively unsaturated sites on surface and subsurface of hydrogenated TiO2 nanotube arrays for photocatalytic complete mineralization of toluene. Journal of Environmental Chemical Engineering, 2021, 9, 105080.	3.3	15
644	Toward Scaling-Up Photocatalytic Process for Multiphase Environmental Applications. Catalysts, 2021, 11, 562.	1.6	42
645	An Overview of Photoreactors and Computational Modeling for the Intensification of Photocatalytic Processes in the Gas-Phase: State-of-Art. Journal of Environmental Chemical Engineering, 2021, 9, 105068.	3.3	16
646	A Review of Photocatalytic Materials for Urban NOx Remediation. Catalysts, 2021, 11, 675.	1.6	27
647	Current perspectives of anodized TiO <mml:math altimg="si3.svg" display="inline" id="d1e1461" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow></mml:mrow><mml:mrow><mml:mi mathvariant="bold">2</mml:mi></mml:mrow></mml:msub></mml:math> nanotubes towards photodegradation of formaldehyde: A short review. Environmental Technology and Innovation, 2021, 22, 101418.	3.0	18
648	Complexities of Capturing Light for Enhancing Thermal Catalysis. Catalysis Letters, 2022, 152, 619-628.	1.4	2
649	A review on TiO2-based photocatalytic systems applied in fruit postharvest: Set-ups and perspectives. Food Research International, 2021, 144, 110378.	2.9	18
650	The importance of air quality for underground spaces: An international survey of public attitudes. Indoor Air, 2021, 31, 2239-2251.	2.0	6
651	Indoor air quality improvement in COVID-19 pandemic: Review. Sustainable Cities and Society, 2021, 70, 102942.	5.1	156
652	Cold Atmospheric Plasma (CAP) Technology and Applications. Synthesis Lectures on Mechanical Engineering, 2021, 6, i-191.	0.1	3
653	Construction and characteristics of a novel green photocatalyst:iron (III) doped titania nanomesh. Ceramics International, 2021, 47, 23497-23506.	2.3	8
654	Photocatalytic Destruction of Gaseous Benzene Using Mn/I-Doped TiO ₂ Nanoparticle Catalytic Under Visible Light. Environmental Engineering Science, 2022, 39, 259-267.	0.8	5
655	Inhibit the formation of toxic methylphenolic by-products in photo-decomposition of formaldehyde–toluene/xylene mixtures by Pd cocatalyst on TiO2. Applied Catalysis B: Environmental, 2021, 291, 120118.	10.8	32
656	Optimization of Process, Mechanism and Kinetics Study for Photocatalytic Oxidation. Green Chemistry and Sustainable Technology, 2022, , 33-48.	0.4	0
657	Modeling of indoor air treatment using an innovative photocatalytic luminous textile: Reactor compactness and mass transfer enhancement. Chemical Engineering Journal, 2022, 430, 132636.	6.6	17
658	A review on recent advancements in photocatalytic remediation for harmful inorganic and organic gases. Chemosphere, 2021, 284, 131344.	4.2	35

#	Article	IF	CITATIONS
659	Effects of O2 and H2O on TiO2 photocatalytic mass loss self-cleaning efficiency for thin hydrocarbons layers. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 421, 113510.	2.0	1
660	An Innovative Air Purification Method and Neural Network Algorithm Applied to Urban Streets. , 2022, , 1313-1333.		0
661	LED-driven photocatalysis of toluene, trichloroethylene and formaldehyde by cuprous oxide modified titanate nanotube arrays. Chemosphere, 2022, 286, 131608.	4.2	8
662	Environmental Applications of Photocatalysis. Green Energy and Technology, 2013, , 35-66.	0.4	15
663	Photocatalysts for Indoor Air Pollution: A Brief Review. Environmental Chemistry for A Sustainable World, 2020, , 247-274.	0.3	4
665	Substrate-specific mineralization and deactivation behaviors of TiO2 as an air-cleaning photocatalyst. Applied Catalysis B: Environmental, 2020, 275, 119145.	10.8	56
666	Key parameters influencing the uptake of m-xylene on photocatalytic paints. Building and Environment, 2020, 179, 106979.	3.0	6
667	On-line quantification and human health risk assessment of organic by-products from the removal of toluene in air using non-thermal plasma. Chemosphere, 2018, 194, 139-146.	4.2	40
668	Enhanced photocatalytic activity of hydrothermally synthesised SrTiO ₃ /rGO for gaseous toluene degradation in the air: modelling and process optimisation using response surface methodology. International Journal of Environmental Analytical Chemistry, 2022, 102, 222-242.	1.8	9
669	Effect of annealing temperature on the synthesis and photocatalytic properties of Bi0.65K0.2Ba0.15FeO3 perovskite-like nanoparticle synthesized by sol-gel method. Beni-Suef University Journal of Basic and Applied Sciences, 2020, 9, .	0.8	15
670	Visible Light-Driven high Photocatalytic Activity of Cu-Doped TiO2 Nanoparticles Synthesized by Hydrothermal Method. Material Science Research India, 2018, 15, 197-208.	0.9	14
671	Abatement of formaldehyde with photocatalytic and catalytic oxidation: a review. International Journal of Chemical Reactor Engineering, 2021, 19, 1-29.	0.6	15
672	USO DE UN REACTOR DE PLACA PLANA (TiO2/VIDRIO) PARA LA DEGRADACIÓN DE 2,5-DICLOROFENOL POR FOTOCATÃLISIS SOLAR. Revista Internacional De Contaminacion Ambiental, 2017, 33, 605-616.	0.1	5
674	Humidity Effect on the Photocatalytic Activity of Sustainable Cement-Based Composites. Open Civil Engineering Journal, 2018, 12, 383-400.	0.4	7
675	Antibacterial Activity of Zno Thin Films Prepared By Sol-Gel Dip-Coating Method. International Journal for Research in Applied Science and Engineering Technology, 2017, V, 1980-1983.	0.1	1
676	Gas phase photocatalytic oxidation of VOC using TiO2-containing paint: influence of NO and relative humidity. WIT Transactions on Ecology and the Environment, 2007, , .	0.0	5
677	EXPERIMENTAL STUDY OF ODOROUS ESTER PHOTOCATALYSIS. Environmental Engineering and Management Journal, 2006, 5, 1001-1010.	0.2	1
678	Gas-Phase TiO2 Photosensitized Mineralization of Some VOCs: Mechanistic Suggestions through a Langmuir–Hinshelwood Kinetic Approach. Catalysts, 2021, 11, 20.	1.6	6

#	Article	IF	CITATIONS
679	The Viability of Photocatalysis for Air Purification. Molecules, 2015, 20, 1319-1356.	1.7	72
680	Treatment of Remazol Brilliant Blue Dye Effluent by Advanced Photo Oxidation Process in TiO2/UV and H2O2/UV reactors. American Journal of Engineering and Applied Sciences, 2008, 1, 230-240.	0.3	10
681	Enhanced Photocatalytic Decomposition of Gaseous Isopropyl Alcohol in a Polymer Electrolyte Cell. Aerosol and Air Quality Research, 2013, 13, 1570-1581.	0.9	5
682	Photocatalysis of Low Concentration of Gaseous-Phase Benzene Using Visible-Light Irradiated N-doped and S-doped Titanium Dioxide. Environmental Engineering Research, 2008, 13, 171-176.	1.5	5
683	Degradation of Volatile Hydrocarbons Using Continuous-Flow Photocatalytic Systems with Enhanced Catalytic Surface Areas. Environmental Engineering Research, 2011, 16, 91-96.	1.5	5
684	Degradation of Chlorinated Hydrocarbons via a Light-Emitting Diode Derived Photocatalyst. Environmental Engineering Research, 2013, 18, 21-28.	1.5	5
685	A Review of Some Representative Techniques for Controlling the Indoor Volatile Organic Compounds. Asian Journal of Atmospheric Environment, 2012, 6, 137-146.	0.4	12
686	Performance of Air Fresher System for the Removal of Various Odorants Released from Foodstuffs. Asian Journal of Atmospheric Environment, 2017, 11, 37-53.	0.4	1
687	Preparation and characterization of chemically activated carbon materials for CO ₂ capture. Carbon Letters, 2016, 17, 85-89.	3.3	8
688	Photocatalytic Oxidation Performance to Removal of Volatile Organic Compounds in Indoor Environment. Environmental Research, Engineering and Management, 2011, 58, .	0.4	4
689	Effect of Electric Voltage on the Photocatalytic Oxidation Disinfection of Water Used in Real Estate. International Journal of Environmental Science and Development, 2015, 6, 118-121.	0.2	1
690	ZnO/Mg-Al Layered Double Hydroxides as a Photocatalytic Bleaching of Methylene Orange - A Black Box Modeling by Artificial Neural Network. Bulletin of Chemical Reaction Engineering and Catalysis, 2016, 11, 299.	0.5	3
691	Nanomaterial in cement industry: a brief review. Innovative Infrastructure Solutions, 2022, 7, 1.	1.1	8
692	Photocatalytic Air Purification Using Functional Polymeric Carbon Nitrides. Advanced Science, 2021, 8, e2102376.	5.6	24
693	Decomposition of Gas-Phase Benzene on TiO2Coated Alumina Balls by Photocatalytic Reaction. Korean Journal of Materials Research, 2004, 14, 407-412.	0.1	0
694	Development for UV/TiO2Photocatalytic Oxidation Indoor Air Compound Process. Journal of Environmental Science International, 2006, 15, 855-864.	0.0	O
696	Photocatalysis of o-, m- and p-Xylene Using Element-Enhanced Visible-Light Driven Titanium Dioxide. Journal of Environmental Science International, 2008, 17, 1195-1201.	0.0	0
698	Chapter 8. Standardization., 2010,, 235-261.		0

#	Article	IF	CITATIONS
699	Comparison of Photocatalytic Activity of TiO2 Anatase Prepared by the Sol-Gel Technique and Chemical Vapour Deposition on Naphthalene in the Gas Phase. NATO Science for Peace and Security Series B: Physics and Biophysics, 2011, , 493-498.	0.2	0
700	Nanotechnology Achievements. , 2011, , 213-230.		0
701	Electronic structures and optical properties of transition metals (Fe, Co, Ni, Zn) doped rutile TiO2. Wuli Xuebao/Acta Physica Sinica, 2012, 61, 077101.	0.2	6
702	Application of Light-emitting-diodes to Annular-type Photocatalytic Reactor for Removal of Indoor-level Benzene and Toluene. Journal of Environmental Science International, 2012, 21, 563-572.	0.0	1
703	New Photocatalyst LiNbO3 for Corrosion Reducing and Environment Friendly Sustainable Concrete Construction. International Journal of Bioscience, Biochemistry, Bioinformatics (IJBBB), 2013, , 643-645.	0.2	0
704	Photocatalytic Treatment of Waste Air Containing Malodor and VOC by Photocatalytic Reactor Equipped with the Cartridges Containing the Media Carrying Photocatalyst. Korean Chemical Engineering Research, 2013, 51, 80-86.	0.2	O
705	Analyses of the current market trend and research status of indoor air quality control to develop an electrostatic force-based dust control technique. Journal of the Korea Academia-Industrial Cooperation Society, 2013, 14, 6610-6617.	0.0	3
706	Photocatalytic Pavements. Green Energy and Technology, 2014, , 275-307.	0.4	2
707	Microscopic characteristics mechanism of optical gas sensing material rutile titanium dioxide (110) surface adsorption of CO molecules. Wuli Xuebao/Acta Physica Sinica, 2014, 63, 133101.	0.2	0
709	Investigation of Photocatalytic Oxidation and Wet Absorption in a Combined System for Removal of Nitrogen Oxides. Health Scope, 2016, 5, .	0.4	0
710	EFFECT OF PALM OIL FIBER-TiO2 RATIO IN THE COMPOSITE ON THE REDUCTION OF BTX AND FORMALDEHYDE IN THE AIR. Malaysian Journal of Analytical Sciences, 2016, 20, 324-328.	0.2	0
711	Synthesis of Electrocatalysts for Electrochemistry in Energy. Advances in Chemical and Materials Engineering Book Series, 2018, , 300-385.	0.2	0
712	Antibacterial Inactivation of Escherichia coli after TiO2-Fe3O4-Bentonite Photocatalytic Treatment. International Journal on Advanced Science, Engineering and Information Technology, 2018, 8, 2367.	0.2	0
713	Photocatalytic and smart asphalt mixtures: a brief overview. , 2019, , .		0
714	Evaluation of Visible-light activation of Cu ₂ O-TiO ₂ (P-N type) Semiconductor Nanomaterials prepared by Ultrasonic-assisted Synthesis. Journal of Environmental Science International, 2019, 28, 971-981.	0.0	0
715	Photocatalytic Concrete Blocks Nanomodified with Zinc Oxide for Paving: Mechanical Performance and Microstructural Characteristics. Journal of Testing and Evaluation, 2021, 49, 2860-2884.	0.4	1
716	Nitric Oxide Reduction by Applying Various Coating Methods of TiO2 on Cementitious Materials. IOP Conference Series: Materials Science and Engineering, 0, 737, 012188.	0.3	1
717	Photocatalytic Purification of Air. Advances in Environmental Engineering and Green Technologies Book Series, 0, , 55-87.	0.3	1

#	Article	IF	CITATIONS
718	Simultaneous removals of VOCs and bioaerosol by oxidation and antibacterial activities using nano-silver composites. Journal of Odor and Indoor Environment, 2020, 19, 297-306.	0.1	0
719	Photocatalytic Air Decontamination from Volatile Organic Pollutants Using Graphite-Like Carbon Nitride: a Review. Theoretical and Experimental Chemistry, 2021, 57, 237-261.	0.2	3
720	Antimicrobial effect of radiant catalytic ionization. Letters in Applied Microbiology, 2022, 74, 482-497.	1.0	3
721	Facet selectively exposed α-MnO2 for complete photocatalytic oxidation of carcinogenic HCHO at ambient temperature. Chemical Engineering Journal, 2022, 431, 133737.	6.6	31
722	Mechanochemically constructed Bi2WO6/Zn-Al layered double hydroxide heterojunction with prominent visible light-driven photocatalytic efficiency. Applied Clay Science, 2021, 215, 106328.	2.6	8
723	Role of inclusion size distribution of titanium dioxide on the nitrogen oxides reduction capability and microstructural characteristics of cementitious systems. Construction and Building Materials, 2022, 318, 125992.	3.2	6
724	Open-Framework Chalcogenide Materials - from isolated clusters to highly ordered structures - and their photocalytic applications. Coordination Chemistry Reviews, 2022, 453, 214243.	9.5	11
725	Reusable hybrid nanocomposites for clean degradation of dye waste under visible light. Materials Today Communications, 2022, 30, 103091.	0.9	3
726	A new approach to study the degradation of the organic pollutants by A-doped MxOy/B photocatalysts. Environmental Science and Pollution Research, 2022, 29, 39139-39163.	2.7	2
727	Remediation of Fouling on Painted Steel Roofing via Solar Energy Assisted Photocatalytic Selfâ€cleaning Technology: Recent Developments and Future Perspectives. Advanced Engineering Materials, 0, , .	1.6	5
728	Field study of visitors' behavior in incense burning and its induced air pollution assessment and treatment. Environmental Science and Pollution Research, 2022, 29, 45933-45946.	2.7	5
729	Nano-tailored TiO2-based photocatalytic cementitious systems for NOx reduction and air cleaning. , 2022, , 161-208.		0
730	Improving the air quality with Functionalized Carbon Nanotubes: Sensing and remediation applications in the real world. Chemosphere, 2022, 299, 134468.	4.2	18
731	The importance of doping TiO ₂ into polypyrrol nanofibers to improve their optical sensitivity. Journal of Physics: Conference Series, 2021, 2114, 012057.	0.3	1
732	Photocatalytic Air Purification of Polycyclic Aromatic Hydrocarbons: Application of a Flow-Through Reactor, Kinetic Studies and Degradation Pathways. Journal of Photochemistry and Photobiology A: Chemistry, 2022, , 113993.	2.0	1
733	Aerosol-Assisted Deposition for TiO2 Immobilization on Photocatalytic Fibrous Filters for VOC Degradation. Frontiers in Chemistry, 2022, 10, .	1.8	1
734	CFD and radiation field modeling of the NETmix milli-photocatalytic reactor for n-decane oxidation at gas phase: Effect of LEDs number and arrangement. Chemical Engineering Journal, 2022, 444, 136577.	6.6	8
735	Recent Advances in Photocatalytic Removal of Organic and Inorganic Pollutants in Air. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	CITATIONS
737	The Application of Nanomaterials in the Built Environment. RSC Nanoscience and Nanotechnology, 2022, , 163-184.	0.2	0
739	Study on self-healing properties in mortar by partial replacement of construction debris as a fine aggregate. Materials Today: Proceedings, 2022, 66, 2028-2036.	0.9	1
741	Nanomaterials for construction building products designed to with stand natural disasters. , 2022, , 19-42.		2
742	Microwave-assisted synthesis of reduced graphene oxide/V2O5 nano-composite as an efficient photocatalyst for dye degradation. Bulletin of Materials Science, 2022, 45, .	0.8	5
743	A novel solar PV/T driven photocatalytic multifunctional system: Concept proposal and performance investigation. Renewable Energy, 2022, 196, 1127-1141.	4.3	6
745	Sono-photocatalytic disinfection of high strength multi-drug resistant Klebsiella pneumonia in presence of blue LED-active CdS nanorods. Journal of Environmental Chemical Engineering, 2022, 10, 108460.	3.3	5
746	Synergistic effect of sono-photocatalysis with blue LED and natural photosensitizer terpinolene for rapid disinfection of multi-drug resistant coliform bacteria in wastewater. Journal of Water Process Engineering, 2022, 49, 103186.	2.6	1
747	Assessment of the long-term photocatalytic performance of cementitious systems incorporating different mineral admixtures. Construction and Building Materials, 2022, 354, 129215.	3.2	1
748	Recent advances in sterilization and disinfection technology: A review. Chemosphere, 2022, 308, 136404.	4.2	32
749	Self-cleaning photoactive metal oxide-based concrete surfaces for environmental remediation. , 2022, , 523-547.		0
750	Effective Air Purification via Pt-Decorated N3-CNT Adsorbent. Frontiers in Ecology and Evolution, 0, 10, .	1.1	2
751	Lead-Free Cs3Bi2Br9 perovskite In-situ growth on 3D Flower-like g-C3N4 microspheres to improve photocatalytic performance. Chemical Engineering Journal, 2023, 452, 139662.	6.6	14
752	4-Year in-situ assessment of a photocatalytic TiO2/SiO2 antifouling treatment for historic mortar in a coastal city. Building and Environment, 2022, 225, 109627.	3.0	3
7 53	Composites for Aqueous-Mediated Heterogeneously Catalyzed Degradation and Mineralization of Water Pollutants on TiO2—A Review. Journal of Composites Science, 2022, 6, 350.	1.4	2
754	The influence of graphene oxide on structural, optical, and catalytic properties of LaFeO3 nanoparticles synthesized by hydrothermal method. Chemical Data Collections, 2022, 42, 100968.	1.1	3
755	Sunlightâ€induced Photocatalytic Degradation of Methylene Blue Dye by Magnesium and Silverâ€based Cadmium Sulfide Nanoparticles. ChemistrySelect, 2022, 7, .	0.7	2
756	A Review on Cement-Based Composites for Removal of Organic/Heavy Metal Contaminants from Water. Catalysts, 2022, 12, 1398.	1.6	1
757	Porous sulfur-doped titanium dioxide for improving photocatalytic VOC removal and biological disinfection under low intensity fluorescent light. Surfaces and Interfaces, 2022, 35, 102468.	1.5	2

#	Article	IF	CITATIONS
758	Nano-gold decorated ZnO: An alternative photocatalyst promising for NOx degradation. Chemical Engineering Science, 2023, 267, 118377.	1.9	6
759	Photocatalytic-treated asphalt road in Copenhagen for urban $\$\text{ext}NO_{x}\$ removal. Clean Technologies and Environmental Policy, 0, , .	2.1	0
760	Rubber Tiles Made from Secondary Raw Materials with Immobilized Titanium Dioxide as Passive Air Protection. Processes, 2023, 11, 125.	1.3	0
761	A Novel Application of Photocatalysis: A UV-LED Photocatalytic Device for Controlling Diurnal Evaporative Fuel Vapor Emissions from Automobiles. Catalysts, 2023, 13, 85.	1.6	3
762	Optimization of photocatalytic oxidation reactor for air purifier design: Application of artificial neural network and genetic algorithm. Chemical Engineering Journal, 2023, 462, 142186.	6.6	5
763	First-principles calculation of the electronic structure of pure and nitrogen-doped anatase TiO2. AIP Conference Proceedings, 2023, , .	0.3	0
764	Enhancement of Flue Gas Low-Concentration Toluene Removal in Pulsed Plasma Coupling with Porous Ceramic Modified Catalyst Reactor. Industrial & Engineering Chemistry Research, 2023, 62, 3249-3258.	1.8	1
765	Recent Developments in Photocatalytic Nanotechnology for Purifying Air Polluted with Volatile Organic Compounds: Effect of Operating Parameters and Catalyst Deactivation. Catalysts, 2023, 13, 407.	1.6	16
766	Nanocomposites for the removal of pharmaceuticals in drinking water sources., 2023,, 469-494.		0
768	Photocatalytic Degradation of Organic Pollutants and Airborne Pathogen in Air. Green Chemistry and Sustainable Technology, 2023, , 211-234.	0.4	1
781	TiO2-Based Photocatalysts for Environment Application. , 2024, , .		O