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Recent developments in photocatalytic water treatment technology: a review

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2139	Efficient removal of herbicide 2,4-dichlorophenoxyacetic acid from water using Ag/reduced graphene oxide co-decorated TiO <sub>2</sub> nanotube arrays. <b>2012</b> , 241-242, 323-30	105
2138	Hierarchically multifunctional K-OMS-2/TiO <sub>2</sub> /Fe <sub>3</sub> O <sub>4</sub> heterojunctions for the photocatalytic oxidation of humic acid under solar light irradiation. <b>2012</b> , 243, 302-10	38
2137	Feasibility of using a slurry falling film photo-reactor for individual and hybridized AOPs. <b>2012</b> , 18, 1683-1688	35
2136	Ball-milled CuPc/TiO <sub>2</sub> hybrid nanocomposite and its photocatalytic degradation of aqueous Rhodamine B. <b>2012</b> , 47, 3114-3119	17
2135	Degradation of wastewaters containing organic dyes photocatalysed by zinc oxide: a review. <b>2012</b> , 41, 131-169	293
2134	Nitrogen-doped mesoporous nanohybrids of TiO <sub>2</sub> nanoparticles and HTiNbO <sub>5</sub> nanosheets with a high visible-light photocatalytic activity and a good biocompatibility. <b>2012</b> , 22, 19122	49

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2132	Nonspecific Methods for the Destruction of Hazardous Chemicals in the Laboratory. <b>2012</b> , 631-654	
2131	Photocatalytic degradation of azo dye using TiO <sub>2</sub> supported on spherical activated carbon. <b>2012</b> , 29, 1722-1729	16
2130	Heterogeneous photocatalytic treatment of wastewater in ultraviolet light irradiation—photocatalyst Bi <sub>2</sub> WO <sub>6</sub> microsphere with high repeatability. <b>2012</b> , 5, 439-444	8
2129	Elimination of pesticides and their formulation products from drinking water using thin film continuous photoreactor under solar radiation. <b>2012</b> , 86, 2735-2745	32
2128	Synthesis, characterization and photocatalytic activity of Cu-doped Zn/ZnO photocatalyst with carbon modification. <b>2012</b> , 22, 23780	45
2127	Photocatalytic Degradation of Methyl Orange on Platinum and Palladium Co-doped TiO <sub>2</sub> Nanoparticles. <b>2012</b> , 42, 685-691	9
2126	Synthesis, Characterization, and Activity Evaluation of DyVO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> Composites under Visible-Light Irradiation. <b>2012</b> , 51, 14729-14737	116
2125	Photocatalytic Degradation of Organic Pollutants: A Review. <b>2012</b> , 734, 247-272	68
2124	Photocatalytic Deposition of Metal Oxides on Semiconductor Particles: A Review. <b>2012</b> ,	1
2123	Solar Photochemistry for Environmental Remediation - Advanced Oxidation Processes for Industrial Wastewater Treatment. <b>2012</b> ,	4
2122	Potential Applications for Solar Photocatalysis: From Environmental Remediation to Energy Conversion. <b>2012</b> ,	5
2121	The Effect of Operational Parameters on the Photocatalytic Mineralization of Indocorn Brilliant Red M5B Using Sol-gel Derived Nanostructured Zinc Titanate as an Efficient Photocatalyst. <b>2012</b> , 15,	
2120	Evaluating the effectiveness of photocatalysts based on titanium dioxide in the degradation of the dye Ponceau 4R. <b>2012</b> , 92, 563-572	38
2119	Chemical treatment technologies for waste-water recycling—An overview. <b>2012</b> , 2, 6380	1118
2118	Design of a Pervaporation Photocatalytic Reactor for Process Intensification. <b>2012</b> , 35, 1221-1228	17
2117	Photocatalytic and Photoelectrocatalytic Degradation of the Explosive RDX by TiO <sub>2</sub> Thin Films Prepared by CVD and Anodic Oxidation of Ti. <b>2012</b> , 18, 112-120	7
2116	Impact of scattering of UV radiation from an excimer lamp on the efficacy of photocatalytic inactivation of Escherichia coli cells in water. <b>2012</b> , 79, 296-301	4

2115	Fabrication, optimization and application of an immobilized layer-by-layer TiO <sub>2</sub> /Chitosan system for the removal of phenol and its intermediates under 45-W fluorescent lamp. <b>2012</b> , 106, 49-65	27
2114	One-Pot Construction of Titania-FeAlOOH Nanocomposites Employed for Photocatalytic Degradation. <b>2012</b> , 223, 2073-2081	5
2113	Photocatalytic, recyclable CdS nanoparticle-carbon nanotube hybrid sponges. <b>2012</b> , 5, 265-271	36
2112	Internal loop photobiodegradation reactor (ILPBR) for accelerated degradation of sulfamethoxazole (SMX). <b>2012</b> , 94, 527-35	32
2111	Photocatalytic degradation on Disperse Blue with modified nano-TiO <sub>2</sub> film electrode. <b>2012</b> , 16, 1429-1445	7
2110	Preparation and characteristics of TiO <sub>2</sub> nanotube catalysts used in hybrid photocatalysis/membrane process. <b>2012</b> , 18, 76-80	17
2109	Adsorption characteristics, isotherm, kinetics, and diffusion of modified natural bentonite for removing diazo dye. <b>2012</b> , 187, 79-88	325
2108	Kinetic study and modeling of the vacuum-UV photoinduced degradation of 2,4-D. <b>2012</b> , 187, 114-122	58
2107	Photocatalytic degradation of five sulfonylurea herbicides in aqueous semiconductor suspensions under natural sunlight. <b>2012</b> , 87, 954-61	38
2106	Dependency on chloride concentration and $n$ -sphere oxidation of H <sub>2</sub> O for the effective TiO <sub>2</sub> -photocatalysed electron transfer from H <sub>2</sub> O to [PdCl <sub>n</sub> (H <sub>2</sub> O) <sub>4-n</sub> ] <sup>2-</sup> (n=0-4) in the absence of an added sacrificial reducing agent. <b>2012</b> , 423-424, 28-33	13
2105	TiO <sub>2</sub> mediated heterogeneous photocatalytic degradation of moxifloxacin: Operational variables and scavenger study. <b>2012</b> , 111-112, 150-156	124
2104	Synthesis of vanillin in water by TiO <sub>2</sub> photocatalysis. <b>2012</b> , 111-112, 555-561	68
2103	A hierarchically structured and multifunctional membrane for water treatment. <b>2012</b> , 111-112, 571-577	49
2102	Degradation of diphenhydramine pharmaceutical in aqueous solutions by using two highly active TiO <sub>2</sub> photocatalysts: Operating parameters and photocatalytic mechanism. <b>2012</b> , 113-114, 221-227	55
2101	A comparative study on the removal of cylindrospermopsin and microcystins from water with NF-TiO <sub>2</sub> -P25 composite films with visible and UV-A light photocatalytic activity. <b>2012</b> , 121-122, 30-39	72
2100	Comparison and understanding of the different simulated sunlight photocatalytic activity between the saturated and monovacant Keggin unit functionalized titania materials. <b>2012</b> , 401, 116-125	32
2099	ZnO/graphene-oxide nanocomposite with remarkably enhanced visible-light-driven photocatalytic performance. <b>2012</b> , 377, 114-21	343
2098	Suppressed photoelectrochemistry at carbon-surface-modified mesoporous TiO <sub>2</sub> films. <b>2012</b> , 73, 31-35	7

2097	Use of iron oxide nanomaterials in wastewater treatment: a review. <b>2012</b> , 424, 1-10	1412
2096	A novel suspended/supported photoreactor design for photocatalytic decomposition of acetic acid with simultaneous production of useful hydrocarbons. <b>2012</b> , 236, 48-53	13
2095	Photoelectrocatalytic technologies for environmental applications. <b>2012</b> , 238, 41-52	189
2094	Rapid atmospheric plasma spray coating preparation and photocatalytic activity of macroporous titania nanocrystalline membranes. <b>2012</b> , 389, 83-90	46
2093	Fouling mechanism of low-pressure hollow fiber membranes used in separating nanosized photocatalysts. <b>2012</b> , 389, 532-543	39
2092	Inactivation of <i>Enterococcus</i> sp. by photolysis and TiO <sub>2</sub> photocatalysis with H <sub>2</sub> O <sub>2</sub> in natural water. <b>2012</b> , 86, 619-625	32
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2090	First lab-scale experimental results from a hybrid solar water purification and photovoltaic system. <b>2012</b> , 98, 260-266	20
2089	Effect of the electrolyte composition on the anatase fraction of photocatalytic active TiO <sub>2</sub> coatings prepared by plasma assisted anodic oxidation. <b>2012</b> , 520, 2549-2553	8
2088	Comparison of ultrasonic degradation rates constants of methylene blue at 22.8 kHz, 127 kHz, and 490 kHz. <b>2012</b> , 19, 745-9	29
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2085	Photocatalytic treatment of high concentration carbamazepine in synthetic hospital wastewater. <b>2012</b> , 199-200, 135-42	78
2084	Preparation, characterization and performance of a novel visible light responsive spherical activated carbon-supported and Er <sup>3+</sup> :YFeO <sub>3</sub> -doped TiO <sub>2</sub> photocatalyst. <b>2012</b> , 199-200, 301-8	38
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2082	Application of titanium dioxide in arsenic removal from water: A review. <b>2012</b> , 215-216, 1-16	253
2081	Relevance of Photocatalysis prior to Biological Treatment of Organic Pollutants Selection Criteria. <b>2012</b> , 35, 238-246	17
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2078	Highly efficient photoelectrochemical performance of SrTiO <sub>3</sub> /TiO <sub>2</sub> heterojunction nanotube array thin film. <b>2013</b> , 15, 1	7
2077	Sol-gel synthesis of Sm <sub>2</sub> InTaO <sub>7</sub> and its photocatalytic activity on degradation of crystal violet dye and reduction of Cr(VI) ions. <b>2013</b> , 39, 1533-1544	9
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2074	TiO <sub>2</sub> photocatalyst for water treatment applications. <b>2013</b> , 19, 1761-1769	557
2073	Titanium dioxide nanofibers integrated stainless steel filter for photocatalytic degradation of pharmaceutical compounds. <b>2013</b> , 258-259, 124-32	39
2072	Removal of emerging trace organic contaminants by MBR-based hybrid treatment processes. <b>2013</b> , 85, 474-482	90
2071	Influence of solution pH on the performance of photocatalytic membranes during dead-end filtration. <b>2013</b> , 118, 406-414	11
2070	Silver deposited titanium dioxide thin film for photocatalysis of organic compounds using natural light. <b>2013</b> , 88, 242-249	38
2069	Enhanced photocatalytic activity of ZnO microflower arrays synthesized by one-step etching approach. <b>2013</b> , 378, 1-6	28
2068	Synthesis of magnetic rattle-type nanostructures for use in water treatment. <b>2013</b> , 5, 2540-8	46
2067	Photoelectrocatalytic bleaching of p-nitrosodimethylaniline using Ti/TiO <sub>2</sub> nanostructured electrodes deposited by means of a pulsed laser deposition process. <b>2013</b> , 43, 467-479	6
2066	A review of nanotechnology development in the Arab World. <b>2013</b> , 2, 359-377	3
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2064	Understanding the effect of surface/bulk defects on the photocatalytic activity of TiO <sub>2</sub> : anatase versus rutile. <b>2013</b> , 15, 10978-88	457
2063	Photocatalytic Production of Renewable Hydrogen. <b>2013</b> , 495-527	
2062	Solar Photocatalytic Processes: Water Decontamination and Disinfection. <b>2013</b> , 371-393	2

2061	Recent Advances in Photocatalytic Processes by Nanomaterials. <b>2013</b> , 267-288	6
2060	A novel biomass-based support (Starbon) for TiO <sub>2</sub> hybrid photocatalysts: a versatile green tool for water purification. <b>2013</b> , 3, 20186-20192	31
2059	Preparation of h-MoO <sub>3</sub> and β-MoO <sub>3</sub> nanocrystals: comparative study on photocatalytic degradation of methylene blue under visible light irradiation. <b>2013</b> , 15, 14761-9	158
2058	Bisanthracene bis(dicarboxylic imide)s as potential photosensitizers in photodynamic therapy: a theoretical investigation. <b>2013</b> , 53, 2334-40	27
2057	Multifunctional properties of Ag/TiO <sub>2</sub> /bamboo charcoal composites: Preparation and examination through several characterization methods. <b>2013</b> , 282, 236-244	18
2056	Photocatalytic Activity of 2,4,6-Trichlorophenol by TiO <sub>2</sub> Mesostructures: Effects of Surface Modification, Calcination Temperature and Initial pH. <b>2013</b> , 224, 1	4
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2054	Development and modeling of a flat plate serpentine reactor for photocatalytic degradation of 17-ethinylestradiol. <b>2013</b> , 20, 2321-9	12
2053	Preliminary study on optimization of pH, oxidant and catalyst dose for high COD content: solar parabolic trough collector. <b>2013</b> , 10, 13	14
2052	Self-rotating photocatalytic system for aqueous Cr(VI) reduction on TiO <sub>2</sub> nanotube/Ti mesh substrate. <b>2013</b> , 229, 66-71	35
2051	Preparation and characterization of TiO <sub>2</sub> /HZSM-11 zeolite for photodegradation of dichlorvos in aqueous solution. <b>2013</b> , 258-259, 19-26	69
2050	Characterization of TiO <sub>2</sub> -coated ceramic foam prepared by modified sol-gel method and optimization of synthesis parameters in photodegradation of Acid Red 73. <b>2013</b> , 30, 1855-1866	9
2049	Localized electronic states induced by oxygen vacancies on anatase TiO <sub>2</sub> (101) surface. <b>2013</b> , 616, 115-119	34
2048	Removal of phenol in aqueous solutions by novel buoyant Composite photocatalysts and the kinetics. <b>2013</b> , 115, 180-189	14
2047	Methyl orange removal by combined visible-light photocatalysis and membrane distillation. <b>2013</b> , 98, 106-112	48
2046	Synthesis and characterization of g-C <sub>3</sub> N <sub>4</sub> /MoO <sub>3</sub> photocatalyst with improved visible-light photoactivity. <b>2013</b> , 283, 25-32	175
2045	The impeding effect of dissolved oxygen on the photocatalytic reduction of [PdCl <sub>n</sub> (H <sub>2</sub> O) <sub>4-n</sub> ] <sub>2</sub> (n=0-4) complexes employing different TiO <sub>2</sub> photocatalysts in the absence of an added sacrificial reducing agent. <b>2013</b> , 142-143, 809-816	
2044	Modeling of quantitative effects of water components on the photocatalytic degradation of 17-ethinylestradiol in a modified flat plate serpentine reactor. <b>2013</b> , 254-255, 64-71	28



2043	Bismuth Modified Porous Silica Preparation, Characterization and Photocatalytic Activity Evaluation for Degradation of Isoproturon. <b>2013</b> , 29, 639-646	27
2042	Hydrophilic composite membranes for simultaneous separation and photocatalytic degradation of organic pollutants. <b>2013</b> , 111, 9-19	62
2041	2,4-Dichlorophenol degradation by means of heterogeneous photocatalysis. Comparison between laboratory and pilot plant performance. <b>2013</b> , 232, 405-417	8
2040	Reaction mechanism of photocatalytic decomposition of 2,4-dinitrophenol in aqueous suspension of TiO <sub>2</sub> fine particles. <b>2013</b> , 233, 369-376	16
2039	Photocatalytic transformation of sixteen substituted phenylurea herbicides in aqueous semiconductor suspensions: intermediates and degradation pathways. <b>2013</b> , 244-245, 370-9	47
2038	Photocatalytic degradation of substituted phenylurea herbicides in aqueous semiconductor suspensions exposed to solar energy. <b>2013</b> , 91, 571-8	22
2037	Sulfonated graphene oxide-ZnO-Ag photocatalyst for fast photodegradation and disinfection under visible light. <b>2013</b> , 262, 826-35	98
2036	Effect of packing geometry on the rate of mass and heat transfer at a vertical tube imbedded in fixed bed under single and two phase flow. <b>2013</b> , 48, 149-154	6
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2034	Application of Photocatalysts and LED Light Sources in Drinking Water Treatment. <b>2013</b> , 3, 726-743	39
2033	Removal of priority pollutants from water by means of dielectric barrier discharge atmospheric plasma. <b>2013</b> , 262, 664-73	86
2032	Photocatalytic Performance of Titanium Dioxide Thin Films from Polymer-Encapsulated Titania. <b>2013</b> , 52, 17800-17811	8
2031	Nanoscale investigation of photoinduced hydrophilicity variations in anatase and rutile nanopowders. <b>2013</b> , 29, 14512-8	12
2030	Hybridization of TiO <sub>2</sub> photocatalysis with coagulation and flocculation for 1,4-dioxane removal in drinking water treatment. <b>2013</b> , 231, 227-235	23
2029	Energy recovery during advanced wastewater treatment: simultaneous estrogenic activity removal and hydrogen production through solar photocatalysis. <i>Water Research</i> , <b>2013</b> , 47, 1480-90	12.5 28
2028	Beneficial role of ZnO photocatalyst supported with porous activated carbon for the mineralization of alizarin cyanin green dye in aqueous solution. <b>2013</b> , 4, 479-84	77
2027	A photovoltaic smart textile and a photocatalytic functional textile based on co-electrospun TiO <sub>2</sub> /MgO core-shell nanorods: novel textiles of integrating energy and environmental science with textile research. <b>2013</b> , 83, 1690-1702	15
2026	Size-controlled fabrication of ZnO micro/nanorod arrays and their photocatalytic performance. <b>2013</b> , 141, 929-935	18

2025	Photocatalytic degradation of Rhodamine B using electrospun TiO <sub>2</sub> and ZnO nanofibers: a comparative study. <b>2013</b> , 48, 8386-8392	36
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2022	TiO <sub>2</sub> -assisted photocatalytic degradation of diclofenac, metoprolol, estrone and chloramphenicol as endocrine disruptors in water. <b>2013</b> , 19, 619-630	62
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2020	Tailoring the properties of immobilized titanium dioxide/carbon nanotube composites for photocatalytic water treatment. <b>2013</b> , 1, 945-953	16
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2018	Preparation and photocatalytic activity of rutile TiO <sub>2</sub> and goethite composite photocatalysts. <b>2013</b> , 34, 1076-1086	7
2017	Solar photocatalytic inactivation of <i>Fusarium Solani</i> over TiO <sub>2</sub> nanomaterials with controlled morphology/formic acid effect. <b>2013</b> , 209, 147-152	14
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2014	Photocatalytic-based inactivation of <i>E. coli</i> by UV 282 nm XeBr Excilamp. <b>2013</b> , 48, 1670-6	5
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2006	Photoelectrocatalytic oxidation of chlortetracycline using Ti/TiO <sub>2</sub> photo-anode with simultaneous H <sub>2</sub> O <sub>2</sub> production. <b>2013</b> , 87, 18-31	81
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1989	Structural evolution and optical properties of C-coated TiO <sub>2</sub> nanoparticles prepared by laser pyrolysis. <b>2013</b> , 278, 295-300		15
1988	Surface decorated Cd <sub>x</sub> Zn <sub>1-x</sub> S cluster with CdS quantum dot as sensitizer for highly photocatalytic efficiency. <b>2013</b> , 285, 912-917		9
1987	Degradation of 2-chlorophenol using carbon nanotube/titanium oxide composite prepared by hydrothermal method. <b>2013</b> , 44, 432-437		12
1986	A nanocomposite photoelectrode made of 2.2 eV band gap copper tungstate (CuWO <sub>4</sub> ) and multi-wall carbon nanotubes for solar-assisted water splitting. <b>2013</b> , 38, 3166-3176		89
1985	Aqueous phase photocatalytic nitrate destruction using titania based materials: routes to enhanced performance and prospects for visible light activation. <b>2013</b> , 3, 879		49
1984	Enhanced photocatalytic degradation of dyes by TiO <sub>2</sub> nanobelts with hierarchical structures. <b>2013</b> , 256, 7-15		69
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1976	The impact of background organic matter and alkalinity on the degradation of the pesticide metaldehyde by two advanced oxidation processes: UV/H <sub>2</sub> O <sub>2</sub> and UV/TiO <sub>2</sub> . <i>Water Research</i> , <b>2013</b> , 47, 2041-9	12.5	78
1975	Applications of nanotechnology in water and wastewater treatment. <i>Water Research</i> , <b>2013</b> , 47, 3931-46	12.5	1606
1974	Laundering durability of photocatalyzed self-cleaning cotton fabric with TiO <sub>2</sub> nanoparticles covalently immobilized. <b>2013</b> , 5, 3697-703		85
1973	A hybrid photocatalysis-ultrafiltration continuous process for humic acids degradation. <b>2013</b> , 104, 333-341		61
1972	Graphene oxide-CdS composite with high photocatalytic degradation and disinfection activities under visible light irradiation. <b>2013</b> , 250-251, 412-20		225

1971	The application of biodegradable chelates in the preparation of Ni <sup>II</sup> /TiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> photocatalysts by the Double Impregnation Method. <b>2013</b> , 260, 14-23	2
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1969	Hydrothermal growth of TiO <sub>2</sub> nanorod arrays and in situ conversion to nanotube arrays for highly efficient quantum dot-sensitized solar cells. <b>2013</b> , 9, 3153-60	68
1968	Photocatalytic activity enhancement of TiO <sub>2</sub> thin films with silver doping under visible light. <b>2013</b> , 262, 57-63	23
1967	Degradation intermediates and reaction pathway of carbofuran in leaching water using TiO <sub>2</sub> and ZnO as photocatalyst under natural sunlight. <b>2013</b> , 251, 33-40	33
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1965	Design and Optimization of Photocatalytic Water Purification Reactors. <b>2013</b> , 361-376	1
1964	Solar Photocatalytic Pilot Plants: Commercially Available Reactors. <b>2013</b> , 377-397	3
1963	Photocatalytic Degradation of 17β-Ethinylestradiol and Inactivation of Escherichia coli Using Ag-Modified TiO <sub>2</sub> Nanotube Arrays. <b>2013</b> , 41, 455-462	29
1962	Preparation of Magnetite Nanoparticles by Thermal Decomposition of Iron (III) Acetylacetonate with Oleic Acid as Capping Agent. <b>2013</b> , 737, 153-158	4
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1960	Recent progress in the preparation and application of semiconductor/graphene composite photocatalysts. <b>2013</b> , 34, 621-640	52
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1958	Photolysis and TiO <sub>2</sub> photocatalysis of the pharmaceutical propranolol: Solar and artificial light. <b>2013</b> , 130-131, 249-256	88
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1956	Bio-absorption of Ni and Cd on Eichhornia crassipes root thin film. <b>2013</b> , 20, 8220-6	7
1955	Nano zero-valent iron impregnated on titanium dioxide nanotube array film for both oxidation and reduction of methyl orange. <i>Water Research</i> , <b>2013</b> , 47, 1858-66	12.5 43
1954	Thickness-dependent photocatalytic performance of nanocrystalline TiO <sub>2</sub> thin films prepared by sol-gel spin coating. <b>2013</b> , 280, 737-744	64

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1950	Ag <sub>3</sub> PO <sub>4</sub> /graphene-oxide composite with remarkably enhanced visible-light-driven photocatalytic activity toward dyes in water. <b>2013</b> , 244-245, 86-93	182
1949	Photocatalyst separation from aqueous dispersion using graphene oxide/TiO <sub>2</sub> nanocomposites. <b>2013</b> , 433, 230-239	41
1948	Synthesis of g-C <sub>3</sub> N <sub>4</sub> /SmVO <sub>4</sub> composite photocatalyst with improved visible light photocatalytic activities in RhB degradation. <b>2013</b> , 129, 255-263	351
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1939	Preparation, Characterization, and Photocatalytic Activity of TiO <sub>2</sub> /ZnO Nanocomposites. <b>2013</b> , 2013, 1-6	21
1938	Development of metal tungstate alloys for photoelectrochemical water splitting. <b>2013</b> ,	1
1937	Competitive Adsorption of p-Hydroxybenzoic Acid and Phenol on Activated Carbon: Experimental Study and Modeling. <b>2013</b> , 139, 402-409	11
1936	Voltage Control of PM Synchronous Motor Driven PM Synchronous Generator System Using Recurrent Wavelet Neural Network Controller. <b>2013</b> , 11, 183-194	0

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1885	Thickness Dependent Photocatalytic Performance of Nanocrystalline TiO <sub>2</sub> Thin Films. <b>2014</b> , 85-109	
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1864	Hydrothermal synthesis and visible light photocatalytic activities of Zn <sub>3</sub> (VO <sub>4</sub> ) <sub>2</sub> nanorods. <b>2014</b> , 29, 2934-2941	16

1863	Immobilized Heterogeneous Photocatalysis for Reuse of Water Contaminated by Recalcitrant Organic Compounds: The Case of Antibiotics. <b>2014</b> , 171-195	
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1861	Ozonation as an Advanced Treatment Technique for the Degradation of Personal Care Products in Water. <b>2014</b> , 375-397	3
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1859	Fixation of Carbon Dioxide Using Molecular Reactions on Flexible Substrates. <b>2014</b> , 203-223	1
1858	Origin of Visible Light Photocatalytic Activity of Ag <sub>3</sub> AsO <sub>4</sub> from First-Principles Calculation. <b>2014</b> , 2014, 1-5	7
1857	Core-shell structured Fe <sub>2</sub> O <sub>3</sub> @SiO <sub>2</sub> @AgBr:Ag composite with high magnetic separation efficiency and excellent visible light activity for acid orange 7 degradation. <b>2014</b> , 147, 22-28	74
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1854	Preparation, characterization and photocatalytic activity of graphene doped SmVO <sub>4</sub> photocatalyst. <b>2014</b> , 122, 17-20	6
1853	The influence of operating parameters on heterogeneous photocatalytic mineralization of phenol over BiPO <sub>4</sub> . <b>2014</b> , 245, 117-123	37
1852	Visible light active TiO <sub>2</sub> photocatalytic filtration membranes with improved permeability and low energy consumption. <b>2014</b> , 224, 56-69	61
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1850	A non-hydrolytic sol-gel synthesis of reduced graphene oxide/TiO <sub>2</sub> microsphere photocatalysts. <b>2014</b> , 230, 166-173	42
1849	Boundary conditions and phase functions in a Photo-CREC Water-II reactor radiation field. <b>2014</b> , 107, 123-136	27
1848	Growth of N-doped BiOBr nanosheets on carbon fibers for photocatalytic degradation of organic pollutants under visible light irradiation. <b>2014</b> , 260, 84-89	80
1847	Formation of genotoxic quinones during bisphenol A degradation by TiO <sub>2</sub> photocatalysis and UV photolysis: A comparative study. <b>2014</b> , 160-161, 106-114	80
1846	Magnetically separable attapulgite/TiO <sub>2</sub> /HexOy composites with superior activity towards photodegradation of methyl orange under visible light radiation. <b>2014</b> , 20, 3884-3889	29

1845	Synthesis and characterization of N-doped TiO <sub>2</sub> photocatalysts with tunable response to solar radiation. <b>2014</b> , 305, 281-291	44
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1838	Preparation of smart nano-engineered electrospun membranes for methanol gas-phase photooxidation. <b>2014</b> , 144, 216-222	15
1837	Ag/ZnO hollow sphere composites: reusable photocatalyst for photocatalytic degradation of 17 $\beta$ -ethinylestradiol. <b>2014</b> , 21, 5177-86	18
1836	Low-temperature processing of thin films based on rutile TiO <sub>2</sub> nanoparticles for UV photocatalysis and bacteria inactivation. <b>2014</b> , 49, 786-793	13
1835	Synthesis and characterization of Ag <sub>3</sub> PO <sub>4</sub> /multiwalled carbon nanotube composite photocatalyst with enhanced photocatalytic activity and stability under visible light. <b>2014</b> , 49, 1585-1593	55
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1833	Transformation and Utilization of Carbon Dioxide. <b>2014</b> ,	42
1832	A novel TiO <sub>2</sub> composite for photocatalytic wastewater treatment. <b>2014</b> , 310, 75-83	54
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1830	Cyclic reaction network modeling for the kinetics of photoelectrocatalytic degradation. <b>2014</b> , 2, 780-787	12
1829	Solar photocatalysis for water disinfection: materials and reactor design. <b>2014</b> , 4, 1211-1226	149
1828	Statistical thermodynamics of adsorption of dye DR75 onto natural materials and its modifications: double-layer model with two adsorption energies. <b>2014</b> , 21, 3134-44	25

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1825	Corrosion of metal roof materials related to volcanic ash interactions. <b>2014</b> , 71, 785-802	9
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1823	Effect of Graphene in Enhancing the Photo Catalytic Activity of Zirconium Oxide. <b>2014</b> , 144, 301-307	18
1822	Facile template-free one-pot fabrication of ZnCo <sub>2</sub> O <sub>4</sub> microspheres with enhanced photocatalytic activities under visible-light illumination. <b>2014</b> , 239, 192-199	60
1821	Cerium-modified TiO <sub>2</sub> nanocrystalline films for visible light photocatalytic activity. <b>2014</b> , 280, 46-53	28
1820	Microwave synthesis of magnetically separable ZnFe <sub>2</sub> O <sub>4</sub> -reduced graphene oxide for wastewater treatment. <b>2014</b> , 40, 7057-7065	34
1819	Visible light responsive Ag/TiO <sub>2</sub> /MCM-41 nanocomposite films synthesized by a microwave assisted sol-gel technique. <b>2014</b> , 69, 108-121	25
1818	Hydrogen production by photoreforming of biofuels using Au, Pd and AuPd/TiO <sub>2</sub> photocatalysts. <b>2014</b> , 310, 10-15	98
1817	Combination of ozonation and photocatalysis for purification of aqueous effluents containing formic acid as probe pollutant and bromide ion. <i>Water Research</i> , <b>2014</b> , 50, 189-99	12.5 50
1816	Modification of polypropylene filter with metal oxide and reduced graphene oxide for water treatment. <b>2014</b> , 40, 6927-6936	22
1815	Removal of polycyclic aromatic hydrocarbons in aqueous environment by chemical treatments: a review. <b>2014</b> , 478, 201-25	194
1814	Regeneration approaches for TiO <sub>2</sub> immobilized photocatalyst used in the elimination of emerging contaminants in water. <b>2014</b> , 230, 27-34	76
1813	Acrylate nanolatex via self-initiated photopolymerization. <b>2014</b> , 52, 1843-1853	8
1812	Energy consumption of three different advanced oxidation methods for water treatment: a cost-effectiveness study. <b>2014</b> , 65, 178-183	60
1811	Modeling intrinsic kinetics in immobilized photocatalytic microreactors. <b>2014</b> , 150-151, 93-100	53
1810	Scale-up of electrochemical oxidation system for treatment of produced water generated by Brazilian petrochemical industry. <b>2014</b> , 21, 8466-75	52

1809	Sandwich-structured AgCl@Ag@TiO <sub>2</sub> with excellent visible-light photocatalytic activity for organic pollutant degradation and E. coli K12 inactivation. <b>2014</b> , 158-159, 76-84		117
1808	Photocatalytic oxidation of 5-fluorouracil and cyclophosphamide via UV/TiO <sub>2</sub> in an aqueous environment. <i>Water Research</i> , <b>2014</b> , 48, 559-68	12.5	88
1807	Fabrication of nanostructured TiO <sub>2</sub> hollow fiber photocatalytic membrane and application for wastewater treatment. <b>2014</b> , 236, 314-322		101
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1803	Fipronil decomposition in aqueous semiconductor suspensions using UV light and solar energy. <b>2014</b> , 45, 981-988		5
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1799	Ecotoxicological evaluation of selected pharmaceuticals to <i>Vibrio fischeri</i> and <i>Daphnia magna</i> before and after photooxidation process. <b>2014</b> , 104, 247-53		40
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1792	Understanding the superior photocatalytic activity of noble metals modified titania under UV and visible light irradiation. <b>2014</b> , 16, 7146-58		183

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1788	Photocatalytic conversion of methane into methanol: Performance of silver impregnated WO <sub>3</sub> . <b>2014</b> , 470, 327-335	148
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1784	Microfluidic reactors for visible-light photocatalytic water purification assisted with thermolysis. <b>2014</b> , 8, 054122	24
1783	Photocatalytic abatement of naphthalene catalyzed by nanosized TiO <sub>2</sub> particles: Assessment of operational parameters. <b>2014</b> , 48, 656-666	9
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1779	Photocatalytic degradation of methylene blue in ZIF-8. <b>2014</b> , 4, 54454-54462	294
1778	Ultrasonically assisted synthesis of mesoporous TiO <sub>2</sub> nanoparticle thin films via sol-gel process for chemo-resistive gas sensor applications. <b>2014</b> ,	1
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1773	Solar thermal harvesting for enhanced photocatalytic reactions. <b>2014</b> , 16, 5137-41	14
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1771	Pt-induced electrochemical growth of ZnO rods onto reduced graphene oxide for enhanced photodegradation performance. <b>2014</b> , 59, 2208-2213	2
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1761	Effect of depositing silver nanoparticles on BiVO <sub>4</sub> in enhancing visible light photocatalytic inactivation of bacteria in water. <b>2014</b> , 2, 6209-6217	96
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1750	An enhanced photocatalytic response of nanometric TiO <sub>2</sub> wrapping of Au nanoparticles for eco-friendly water applications. <b>2014</b> , 6, 11189-95	50
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1638	Photocatalytic ozonation: Maximization of the reaction rate and control of undesired by-products. <b>2015</b> , 178, 37-43	33
1637	Photocatalytic degradation of phenol in water on as-prepared and surface modified TiO <sub>2</sub> nanoparticles. <b>2015</b> , 258, 96-102	57
1636	Significant Enhancement of the Photoelectrochemical Activity of Nanoporous TiO <sub>2</sub> for Environmental Applications. <b>2015</b> , 173, 728-735	19
1635	Eight-lamp externally irradiated bench-scale photocatalytic reactor: Scale-up and performance prediction. <b>2015</b> , 282, 142-151	12
1634	Dual Roles of Capsular Extracellular Polymeric Substances in Photocatalytic Inactivation of Escherichia coli: Comparison of E. coli BW25113 and Isogenic Mutants. <b>2015</b> , 81, 5174-83	32
1633	Environmental Perspectives. <b>2015</b> , 257-283	4
1632	Adsorption and photocatalysis of nanocrystalline TiO <sub>2</sub> particles for Reactive Red 195 removal: effect of humic acids, anions and scavengers. <b>2015</b> , 22, 16514-24	40
1631	A comparison of the photocatalytic activity between commercial and synthesized mesoporous and nanocrystalline titanium dioxide for 4-nitrophenol degradation: Effect of phase composition, particle size, and addition of carbon nanotubes. <b>2015</b> , 359, 293-305	14
1630	Phenol degradation in heterogeneous system generating singlet oxygen employing light activated electropolymerized phenothiazines. <b>2015</b> , 359, 426-431	13

1629	Dramatic activity of a Bi <sub>2</sub> WO <sub>6</sub> @g-C <sub>3</sub> N <sub>4</sub> photocatalyst with a core@shell structure. <b>2015</b> , 5, 99339-99346	46
1628	One Step Microwave-Assisted Synthesis of Fluorinated Titania Photocatalyst. <b>2015</b> , 670, 177-182	1
1627	Biosafety Evaluation of Nanoscaled Porous Energy Materials. <b>2015</b> , 239-268	0
1626	Tannic acid- and natural organic matter-coated magnetite as green Fenton-like catalysts for the removal of water pollutants. <b>2015</b> , 17, 1	12
1625	Polyvinylidene fluoride photocatalytic films embedded by porous Zr x Si 1x O 2 shell/void/TiO 2 core particles. <b>2015</b> , 156, 535-543	3
1624	Degradation of Organic Micropollutants by Hydrodynamic and/or Acoustic Cavitation. <b>2015</b> , 1-23	
1623	Electronic structure and photocatalytic activities of (Bi <sub>2</sub> x)Sn <sub>2</sub> O <sub>7</sub> solid solution. <b>2015</b> , 357, 2364-2371	8
1622	Surface characteristics of the iron-oxyhydroxide layer formed during brick coatings by ESEM/EDS, <sup>23</sup> Na and <sup>1</sup> H MAS NMR, and ToF-SIMS. <b>2015</b> , 165, 215-226	2
1621	Photocatalytical Deactivation of Pathogens for Municipal Wastewater Reusing. <b>2015</b> , 226, 1	3
1620	Photocatalytic degradation of indole- $\beta$ -methylphenol mixture in an aqueous solution: optimization and statistical analysis. <b>2015</b> , 1-12	
1619	Application of hydroxy-aluminum- and cetyltrimethylammonium bromide-intercalated bentonite for removing acid and reactive dyes. <b>2015</b> , 1-9	1
1618	Business relationships during project afterlife: antecedents, processes, and outcomes. <b>2015</b> , 30, 572-583	7
1617	Sonophotocatalytic Degradation of Organic Pollutants Using Nanomaterials. <b>2015</b> , 1-34	1
1616	Effect of Pt Nanoparticles on the Photocatalytic Activity of ZnO Nanofibers. <b>2015</b> , 10, 484	43
1615	Effect of binder on the physical stability and bactericidal property of titanium dioxide (TiO <sub>2</sub> ) nanocoatings on food contact surfaces. <b>2015</b> , 57, 82-88	37
1614	The study of properties and catalytic activity of titanium dioxide doped with sulphure. <b>2015</b> , 37, 283-288	7
1613	Synthesis, characterisation and application of TiO <sub>2</sub> @zeolite nanocomposites for the advanced treatment of industrial dye wastewater. <b>2015</b> , 50, 288-296	71
1612	Evaluation of sunlight induced structural changes and their effect on the photocatalytic activity of V <sub>2</sub> O <sub>5</sub> for the degradation of phenols. <b>2015</b> , 286, 127-35	156



1611	Solar photocatalytic decolourization of Crystal violet using supported TiO <sub>2</sub> : effect of some parameters and comparative efficiency. <b>2015</b> , 53, 3649-3655	11
1610	Photocatalytic inactivation of Escherichia coli aqueous suspensions in a fixed-bed reactor. <b>2015</b> , 252, 143-149	14
1609	Synthesis and characterization of Ag <sub>3</sub> PO <sub>4</sub> immobilized with graphene oxide (GO) for enhanced photocatalytic activity and stability over 2,4-dichlorophenol under visible light irradiation. <b>2015</b> , 292, 9-18	100
1608	Novel Ag <sub>3</sub> PO <sub>4</sub> /ZnFe <sub>2</sub> O <sub>4</sub> composite photocatalyst with enhanced visible light photocatalytic activity. <b>2015</b> , 145, 125-128	29
1607	Photocatalytic degradation of nonylphenol by immobilized TiO <sub>2</sub> in dual layer hollow fibre membranes. <b>2015</b> , 269, 255-261	75
1606	Photocatalytic degradation of methamphetamine by UV/TiO <sub>2</sub> - kinetics, intermediates, and products. <i>Water Research</i> , <b>2015</b> , 74, 1-9	12.5 37
1605	Application of pyrolysed agricultural biowastes as adsorbents for fish anaesthetic (MS-222) removal from water. <b>2015</b> , 112, 313-324	15
1604	Plant uptake-assisted round-the-clock photocatalysis for complete purification of aquaculture wastewater using sunlight. <b>2015</b> , 49, 2418-24	59
1603	Soft matter in hard confinement: phase transition thermodynamics, structure, texture, diffusion and flow in nanoporous media. <b>2015</b> , 27, 103102	156
1602	Enhancing reactive species generation upon photo-activation of CdTe quantum dots for the chemiluminometric determination of unreacted reagent in UV/S <sub>2</sub> O <sub>8</sub> ( <sup>2-</sup> ) drug degradation process. <b>2015</b> , 135, 27-33	17
1601	Photocatalytically active fluorinated nano-titania synthesized by microwave-assisted hydrothermal treatment. <b>2015</b> , 303-304, 36-43	15
1600	Simultaneously photocatalytic treatment of hexavalent chromium (Cr(VI)) and endocrine disrupting compounds (EDCs) using rotating reactor under solar irradiation. <b>2015</b> , 288, 124-33	22
1599	E. coli inactivation by visible light irradiation using a Fe <sup>III</sup> /TiO <sub>2</sub> photocatalyst: Statistical analysis and optimization of operating parameters. <b>2015</b> , 168-169, 441-447	37
1598	Silver Oxide as Superb and Stable Photocatalyst under Visible and Near-Infrared Light Irradiation and Its Photocatalytic Mechanism. <b>2015</b> , 54, 832-841	96
1597	Supercritical Water Oxidation vs Supercritical Water Gasification: Which Process Is Better for Explosive Wastewater Treatment?. <b>2015</b> , 54, 1251-1260	41
1596	Hydrothermal synthesis of TiO <sub>2</sub> /WO <sub>3</sub> /Bentonite composites: Conventional versus ultrasonic pretreatments and their adsorption of methylene blue. <b>2015</b> , 105-106, 243-251	27
1595	Modulation of pore sizes of titanium dioxide photocatalysts by a facile template free hydrothermal synthesis method: implications for photocatalytic degradation of rhodamine B. <b>2015</b> , 7, 4368-80	69
1594	TiO <sub>2</sub> photocatalytic degradation and transformation of oxazaphosphorine drugs in an aqueous environment. <b>2015</b> , 287, 133-41	44

1593	Novel Floating TiO <sub>2</sub> Photocatalysts for Polluted Water Decontamination Based on Polyurethane Composite Foam. <b>2015</b> , 50, 164-173	11
1592	Morphological study of co-extruded dual-layer hollow fiber membranes incorporated with different TiO <sub>2</sub> loadings. <b>2015</b> , 479, 123-131	49
1591	Single-Component TiO <sub>2</sub> Tubular Microengines with Motion Controlled by Light-Induced Bubbles. <b>2015</b> , 11, 2564-70	131
1590	Facile synthesis of zinc/iron mixed oxide/carbon nanocomposites as nanocatalysts for the degradation of methylene blue. <b>2015</b> , 145, 224-228	7
1589	Investigations on semiconductor sonocatalysis for the removal of pathological micro-organisms in water. <b>2015</b> , 54, 3161-3168	4
1588	Photometabolic pathways of chlorantraniliprole in aqueous slurries containing binary and ternary oxides of Zn and Ti. <b>2015</b> , 264, 720-727	16
1587	Sol-gel synthesis of photoactive kaolinite-titania: Effect of the preparation method and their photocatalytic properties. <b>2015</b> , 331, 98-107	14
1586	Highly active magnetic bismuth tungstate/magnetite composite under visible light irradiation in the presence of hydrogen peroxide. <b>2015</b> , 444, 123-31	21
1585	N-doped Na <sub>2</sub> Ti <sub>6</sub> O <sub>13</sub> @TiO <sub>2</sub> core-shell nanobelts with exposed {1 0 1} anatase facets and enhanced visible light photocatalytic performance. <b>2015</b> , 170-171, 17-24	67
1584	Engineering a high energy surface of anatase TiO <sub>2</sub> crystals towards enhanced performance for energy conversion and environmental applications. <b>2015</b> , 5, 20396-20409	67
1583	Hierarchical hybrid carbon nano-structures as robust and reusable adsorbents: Kinetic studies with model dye compound. <b>2015</b> , 268, 197-207	40
1582	Polyoxometalates-based heterometallic organic-inorganic hybrid materials for rapid adsorption and selective separation of methylene blue from aqueous solutions. <b>2015</b> , 51, 3336-9	137
1581	Direct generation of titanium dioxide nanoparticles dispersion under supercritical conditions for photocatalytic active thermoplastic surfaces for microbiological inactivation. <b>2015</b> , 153, 274-284	2
1580	Recent developments in heterogeneous photocatalytic water treatment using visible light-responsive photocatalysts: a review. <b>2015</b> , 5, 14610-14630	669
1579	Solar photocatalysis: Materials, reactors, some commercial, and pre-industrialized applications. A comprehensive approach. <b>2015</b> , 170-171, 90-123	441
1578	Application of photodegraded polythene films for the treatment of Drimarene Brilliant Red (DBR) dye. <b>2015</b> , 102, 31-39	5
1577	Tailored synthesis of photoactive TiO <sub>2</sub> Nanofibers and Au/TiO <sub>2</sub> Nanofiber composites: structure and reactivity optimization for water treatment applications. <b>2015</b> , 49, 1654-63	82
1576	Comparative evaluation of ibuprofen removal by UV/H <sub>2</sub> O <sub>2</sub> and UV/S <sub>2</sub> O <sub>8</sub> <sup>2-</sup> processes for wastewater treatment. <b>2015</b> , 269, 379-390	121

1575	The effect of calcination atmosphere on the structure and photoactivity of TiO <sub>2</sub> synthesized through an unconventional doping using activated carbon. <b>2015</b> , 3, 922-929	7
1574	Visible-light photocatalysis on C-doped ZnO derived from polymer-assisted pyrolysis. <b>2015</b> , 5, 27690-27698	123
1573	Photodegradation of odorous 2-mercaptobenzoxazole through zinc oxide/hydroxyapatite nanocomposite. <b>2015</b> , 5, 719-729	21
1572	Photocatalytic activity of Ce-modified SBA-15 for the degradation of isoproturon. <b>2015</b> , 38, 227-234	12
1571	Photoelectrocatalytic degradation of p-hydroxybenzoic acid at the surface of a titanium/titanium dioxide nanotube array electrode using electrochemical monitoring. <b>2015</b> , 31, 651-657	5
1570	Development and Implementation of a Series of Laboratory Field Trips for Advanced High School Students To Connect Chemistry to Sustainability. <b>2015</b> , 92, 631-637	16
1569	Nitrogen-doped Nb <sub>2</sub> O <sub>5</sub> nanobelt quasi-arrays for visible light photocatalysis. <b>2015</b> , 635, 1-4	33
1568	Chances and limitations of nanosized titanium dioxide practical application in view of its physicochemical properties. <b>2015</b> , 10, 57	45
1567	Sonocatalytic ozonation, with nano-TiO <sub>2</sub> as catalyst, for degradation of 4-chloronitrobenzene in aqueous solution. <b>2015</b> , 41, 7029-7042	11
1566	Anchoring H <sub>3</sub> PW <sub>12</sub> O <sub>40</sub> on 3-aminopropyltriethoxysilane modified graphene oxide: enhanced adsorption capacity and photocatalytic activity toward methyl orange. <b>2015</b> , 39, 3719-3727	19
1565	In vivo X-ray elemental imaging of single cell model organisms manipulated by laser-based optical tweezers. <b>2015</b> , 5, 9049	13
1564	How the Dyes Are Degraded/Mineralized in a Photocatalytic System? The Possible Role of Auxochromes. <b>2015</b> , 226, 1	16
1563	Disinfection of water containing Escherichia coli by use of a compound parabolic concentrator: effect of global solar radiation and reactor surface treatment. <b>2015</b> , 41, 6543-6558	8
1562	Porous Zr <sub>(x)</sub> Si <sub>(1-x)</sub> O <sub>3</sub> shell/void/TiO <sub>2</sub> core particles with enhancing transfer for cleaning water. <b>2015</b> , 448, 517-24	2
1561	CHAPTER 8: Photocatalysis on Nanostructured Carbon Supported Catalysts. <b>2015</b> , 412-444	1
1560	Stepwise assembly of a semiconducting coordination polymer [Cd <sub>8</sub> S(SPh) <sub>14</sub> (DMF)(bpy)] <sub>n</sub> and its photodegradation of organic dyes. <b>2015</b> , 44, 6400-5	15
1559	A facile one-pot synthesis of TiO <sub>2</sub> -based nanosheets loaded with Mn <sub>x</sub> O <sub>y</sub> nanoparticles with enhanced visible light-driven photocatalytic performance for removal of Cr(VI) or RhB. <b>2015</b> , 179, 558-573	64
1558	Ag <sub>2</sub> CO <sub>3</sub> /UiO-66(Zr) composite with enhanced visible-light promoted photocatalytic activity for dye degradation. <b>2015</b> , 299, 132-40	107

1557	Methods and mechanism for improvement of photocatalytic activity and stability of Ag <sub>3</sub> PO <sub>4</sub> : A review. <b>2015</b> , 649, 910-932	155
1556	A Power-Law Relationship between Characteristics of Light Source and Quantum Yield in Photocatalytic Systems. <b>2015</b> , 119, 22425-22431	4
1555	Enhanced Quality, Growth Kinetics, and Photocatalysis of ZnO Nanowalls Prepared by Chemical Bath Deposition. <b>2015</b> , 15, 4206-4212	27
1554	Photocatalytic degradation of 4-chloro-2-methylphenoxyacetic acid using W-doped TiO <sub>2</sub> . <b>2015</b> , 312, 96-106	41
1553	Investigation of the Photodegradation of Reactive Blue 19 on P-25 Titanium Dioxide: Effect of Experimental Parameters. <b>2015</b> , 68, 471	5
1552	Synergetic photoelectrocatalytic reactors for environmental remediation: A review. <b>2015</b> , 24, 83-101	105
1551	Highly effective and stable Ag <sub>3</sub> PO <sub>4</sub> /WO <sub>3</sub> /MWCNTs photocatalysts for simultaneous Cr(VI) reduction and orange II degradation under visible light irradiation. <b>2015</b> , 353, 939-948	52
1550	Amelioration in the visible-light-driven photocatalysis by faceted WO <sub>3</sub> nanocuboids. <b>2015</b> , 70, 21-25	9
1549	Size-controllable synthesis and photocatalytic performance of ZnO hollow spheres. <b>2015</b> , 40, 713-719	15
1548	Fabrication of AgBr/Ag <sub>2</sub> CrO <sub>4</sub> composites for enhanced visible-light photocatalytic activity. <b>2015</b> , 41, 12509-12513	53
1547	Advances in photocatalytic disinfection of bacteria: Development of photocatalysts and mechanisms. <b>2015</b> , 34, 232-47	193
1546	Optimization of operating parameters for efficient photocatalytic inactivation of Escherichia coli based on a statistical design of experiments. <b>2015</b> , 71, 823-31	20
1545	Durable Ag/AgCl nanowires assembled in a sponge for continuous water purification under sunlight. <b>2015</b> , 2, 509-513	30
1544	Hybridising nitrogen doped titania with kaolinite: A feasible catalyst for a semi-continuous photo-degradation reactor system. <b>2015</b> , 279, 939-947	6
1543	Enhancing carrier generation in TiO <sub>2</sub> by a synergistic effect between plasmon resonance in Ag nanoparticles and optical interference. <b>2015</b> , 7, 13468-76	29
1542	Characterization and reactivity of MnTeO <sub>4</sub> composites for catalytic ozonation of antipyrine. <b>2015</b> , 5, 60279-60285	8
1541	TiO <sub>2</sub> immobilized on Manihot carbon: optimal preparation and evaluation of its activity in the decomposition of indigo carmine. <b>2015</b> , 16, 1590-612	6
1540	Recovery of silver metal from low concentrated wastewater by photocatalysis. <b>2015</b> , 29, 1540028	3

1539	Phenol removal and biofilm response in coupling of visible-light-driven photocatalysis and biodegradation: Effect of hydrothermal treatment temperature. <b>2015</b> , 104, 178-185	23
1538	Review of material design and reactor engineering on TiO <sub>2</sub> photocatalysis for CO <sub>2</sub> reduction. <b>2015</b> , 24, 16-42	586
1537	The effect of metal ions on photocatalytic performance based on an isostructural framework. <b>2015</b> , 44, 12832-8	29
1536	UV-assisted degradation of propiconazole in a TiO <sub>2</sub> aqueous suspension: identification of transformation products and the reaction pathway using GC/MS. <b>2015</b> , 95, 494-507	8
1535	Photocatalytic degradation of poultry wastewater using activated carbon-supported titanium dioxide. <b>2015</b> , 54, 3279-3290	7
1534	Structural evolution of cobalt oxide/ungsten oxide nanowire heterostructures for photocatalysis. <b>2015</b> , 329, 514-521	25
1533	Biotechnologically obtained nanocomposites: A practical application for photodegradation of Safranin-T under UV-Vis and solar light. <b>2015</b> , 50, 996-1010	5
1532	Photoinduced charge separation and simulated solar-driven photocatalytic performance of CN-co-doped TiO <sub>2</sub> prepared by sol-gel method. <b>2015</b> , 76, 332-340	8
1531	Fungi as an efficient mycosystem for the synthesis of metal nanoparticles: progress and key aspects of research. <b>2015</b> , 37, 2099-120	105
1530	Efficient application of nano-TiO <sub>2</sub> thin films in the photocatalytic removal of Alizarin Yellow from aqueous solutions. <b>2015</b> , 353, 275-283	34
1529	Bioframe synthesis of NF/TiO <sub>2</sub> /straw charcoal composites for enhanced adsorption-visible light photocatalytic degradation of RhB. <b>2015</b> , 5, 66611-66620	25
1528	Combined photocatalysis and membrane bioreactor for the treatment of feedwater containing thin film transistor-liquid crystal display discharge. <b>2015</b> , 36, 2681-90	4
1527	Application of plasma-sprayed TiO <sub>2</sub> coatings for industrial (tannery) wastewater treatment. <b>2015</b> , 41, 14468-14474	19
1526	Design aspects of UV/H <sub>2</sub> O <sub>2</sub> reactors. <b>2015</b> , 137, 712-721	15
1525	Chlorine/UV induced photochemical degradation of total ammonia nitrogen (TAN) and process optimization. <b>2015</b> , 5, 63793-63799	2
1524	Photocatalytic degradation of monocrotophos and chlorpyrifos in aqueous solution using TiO <sub>2</sub> under UV radiation. <b>2015</b> , 7, 94-101	58
1523	Nanostructured anatase TiO <sub>2</sub> densified at high pressure as advanced visible light photocatalysts. <b>2015</b> , 14, 1685-93	15
1522	Synthesis of acidified palygorskite/BiOI with exceptional performances of adsorption and visible-light photoactivity for efficient treatment of aniline wastewater. <b>2015</b> , 114, 124-132	39

1521	Plasmon enhanced visible light photocatalysis for TiO <sub>2</sub> supported Pd nanoparticles. <b>2015</b> , 7, 12331-5	34
1520	Optimization of photocatalytic degradation of meloxicam using titanium dioxide nanoparticles: application to pharmaceutical wastewater analysis, treatment, and cleaning validation. <b>2015</b> , 22, 15516-25	11
1519	Basics of Photocatalysis. <b>2015</b> , 1-23	7
1518	Photoelectrochemical properties and photodegradation of organic pollutants using hematite hybrids modified by gold nanoparticles and graphitic carbon nitride. <b>2015</b> , 176-177, 654-666	103
1517	Simple Growth of Faceted Au-ZnO Hetero-nanostructures on Silicon Substrates (Nanowires and Triangular Nanoflakes): A Shape and Defect Driven Enhanced Photocatalytic Performance under Visible Light. <b>2015</b> , 7, 9486-96	36
1516	Synthesis and comparative study of the photocatalytic performance of hierarchically porous polymeric carbon nitrides. <b>2015</b> , 211, 182-191	27
1515	Photocatalytic degradation of Eblockers by using immobilized titania/silica on glass slides. <b>2015</b> , 305, 19-28	27
1514	Facile sonochemical synthesis of N,Cl-codoped TiO <sub>2</sub> : Synthesis effects, mechanism and photocatalytic performance. <b>2015</b> , 256, 365-374	46
1513	Novel hybrid Sr-doped TiO <sub>2</sub> /magnetic Ni <sub>0.6</sub> Zn <sub>0.4</sub> Fe <sub>2</sub> O <sub>4</sub> for enhanced separation and photodegradation of organics under visible light. <b>2015</b> , 5, 24056-24063	26
1512	Multiscale analysis and modelling of fluid flow within a photocatalytic textile. <b>2015</b> , 130, 264-274	4
1511	in situ ion exchange preparation of AgBr/Ag <sub>3</sub> PO <sub>4</sub> /HAP nanocomposite photocatalyst with enhanced visible light photocatalytic performance. <b>2015</b> , 36, 71-77	13
1510	Experimental methodology to calculate the local relative light intensity in heterogeneous TiO <sub>2</sub> /UV-A photocatalytic reactors. <b>2015</b> , 97, 28-35	2
1509	Photo-degradation of carbamazepine using TiO <sub>2</sub> suspended photocatalysts. <b>2015</b> , 54, 109-117	50
1508	Effect of surfactant concentration on active species generation and photocatalytic properties of TiO <sub>2</sub> . <b>2015</b> , 176-177, 288-297	28
1507	Photocatalytic degradation of an azo textile dye (C.I. Reactive Red 195 (3BF)) in aqueous solution over copper cobaltite nanocomposite coated on glass by Doctor Blade method. <b>2015</b> , 147, 173-7	34
1506	Comparison of photovoltaic and photocatalytic performance of non-concentrating and V-trough SOLWAT (solar water purification and renewable electricity generation) systems for water purification. <b>2015</b> , 85, 251-260	23
1505	Enhanced photocatalytic degradation of tetracycline antibiotics by reduced graphene oxide@ZnS heterostructure photocatalysts. <b>2015</b> , 39, 5150-5160	60
1504	Synthesis of magnetic CoFe <sub>2</sub> O <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> composite and its enhancement of photocatalytic ability under visible-light. <b>2015</b> , 478, 71-80	192

1503	Titania layer heterostructures with solar photocatalytic applications. <b>2015</b> , 176-177, 278-287	64
1502	Photocatalytic mitigation of triazinone herbicide residues using titanium dioxide in slurry photoreactor. <b>2015</b> , 252, 70-77	32
1501	Effective photocatalytic degradation of methylene blue by Cu <sub>2</sub> O/MgAl layered double hydroxides. <b>2015</b> , 115, 581-596	19
1500	Livestock Wastewater Treatment in Batch and Continuous Photocatalytic Systems: Performance and Economic Analyses. <b>2015</b> , 226, 1	25
1499	Intensification of solar photocatalysis with immobilised TiO <sub>2</sub> by using micro-structured reaction spaces. <b>2015</b> , 3, 681-688	6
1498	Optimization of visible-light photocatalytic degradation of acetaminophen by K <sub>3</sub> [Fe(CN) <sub>6</sub> ]-modified TiO <sub>2</sub> . <b>2015</b> , 49, 129-135	12
1497	Effect of Ag doping on structural, optical, and photocatalytic properties of ZnO nanoparticles. <b>2015</b> , 640, 408-415	179
1496	A review of iron species for visible-light photocatalytic water purification. <b>2015</b> , 22, 7439-49	40
1495	Corrigendum to Studies on sodium dodecylsulfate in aqueous and in aqueous amino acid solutions: Volumetric and viscometric approaches[J. Chem. Thermodyn. 71 (2014) 613]. <b>2015</b> , 87, 169-171	
1494	Cardiac differentiation of mouse embryonic stem cells is influenced by a PPAR $\gamma$ /PGC-1 $\beta$ /NDC5 pathway during the stage of cardiac precursor cell formation. <b>2015</b> , 94, 257-66	12
1493	Green tea for prevention of digestive tract cancer: an updated evidence summary of randomized and non-randomized studies. <b>2015</b> , 4, 133-134	
1492	Pattern Recognition on Remanufacturing Automotive Component as Support Decision Making Using Mahalanobis-taguchi System. <b>2015</b> , 26, 258-263	22
1491	Numerical prediction of in-plane permeability for multilayer woven fabrics with manufacture-induced deformation. <b>2015</b> , 77, 266-274	44
1490	A simple derivation of the critical condition for the ultrasonic atomization of polymer solutions. <b>2015</b> , 61, 20-4	1
1489	Corrosion and wear behavior of functionally graded Al <sub>2</sub> O <sub>3</sub> /SiC composites produced by hot pressing and consolidation. <b>2015</b> , 644, 589-596	30
1488	Libman-Sacks Endocarditis: Detection, Characterization, and Clinical Correlates by Three-Dimensional Transesophageal Echocardiography. <b>2015</b> , 28, 770-9	32
1487	Change detection in synthetic aperture radar images based on unsupervised artificial immune systems. <b>2015</b> , 34, 151-163	9
1486	High responders and patients with a good prognosis are not immune to the negative impact on live birth rate of elevated P on the day of triggering. <b>2015</b> , 103, 1423	5

1485	Slow pyrolysis of different Brazilian waste biomasses as sources of soil conditioners and energy, and for environmental protection. <b>2015</b> , 113, 434-443	56
1484	Pulmonary hypertension and hepatic cirrhosis. <b>2015</b> , 215, 324-30	1
1483	Impact of bystander-performed ventilation on functional outcomes after cardiac arrest and factors associated with ventilation-only cardiopulmonary resuscitation: A large observational study. <b>2015</b> , 91, 122-30	5
1482	Diamond porous membranes: A material toward analytical chemistry. <b>2015</b> , 55, 123-130	36
1481	Fuzzy variational principle for modal analysis of structures and its application. <b>2015</b> , 100, 54-64	2
1480	Angiofibroma nasofaríngeo juvenil: a propósito de un caso. <b>2015</b> , 37, 119-121	0
1479	Protective effect of <i>Tetracera scandens</i> L. leaf extract against CCl <sub>4</sub> -induced acute liver injury in rats. <b>2015</b> , 5, 221-227	17
1478	Prostate high-dose-rate brachytherapy: Transrectal ultrasound based planning, a technical note. <b>2015</b> , 5, 238-40	15
1477	Improvements in lung function with umeclidinium/vilanterol versus fluticasone propionate/salmeterol in patients with moderate-to-severe COPD and infrequent exacerbations. <b>2015</b> , 109, 870-81	66
1476	Occurrence of Herpes Simplex Virus Reactivation Suggests a Mechanism of Trigeminal Neuralgia Surgical Efficacy. <b>2015</b> , 84, 279-82	9
1475	Antithrombotic treatment for stroke prevention in atrial fibrillation: The Asian agenda. <b>2015</b> , 191, 244-53	23
1474	Alternation of light/dark period priming enhances clomazone tolerance by increasing the levels of ascorbate and phenolic compounds and ROS detoxification in tobacco ( <i>Nicotiana tabacum</i> L.) plantlets. <b>2015</b> , 148, 9-20	4
1473	Numerical study of purlin joints with sleeve connections. <b>2015</b> , 94, 214-224	11
1472	Extraocular spectral photosensitivity in the tentacles of <i>Hydra vulgaris</i> . <b>2015</b> , 184, 163-70	6
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1470	Tuberculosis contact tracing among children and adolescent referred to children's hospital in Rio de Janeiro, Brazil. <b>2015</b> , 19, 296-301	6
1469	Population genetics of non-genetic traits: evolutionary roles of stochasticity in gene expression. <b>2015</b> , 562, 16-21	12
1468	Galacto-oligosaccharides formation during manufacture of different varieties of yogurt. Stability through storage. <b>2015</b> , 63, 198-205	21



1467	Corrigendum to Luminescence and magnetic behaviour of almond like (Na <sub>0.5</sub> La <sub>0.5</sub> )MoO <sub>4</sub> :RE <sup>3+</sup> (RE = Eu, Tb, Dy) nanostructures[J. Alloys Comp. 604 (2014) 20B0]. <b>2015</b> , 641, 74	
1466	Foreword. <b>2015</b> , 48, xi-xii	1
1465	Suppression of dioxins in waste incinerator emissions by recirculating SO <sub>2</sub> . <b>2015</b> , 133, 75-81	13
1464	The use of noninvasive ECG imaging for examination of a patient with Brugada syndrome. <b>2015</b> , 1, 260-263	3
1463	Microscopic Simulation on the Design and Operational Performance of Diverging Diamond Interchange. <b>2015</b> , 6, 198-212	1
1462	Differences in extracellular glutamate levels in striatum of rats with high and low exploratory activity. <b>2015</b> , 67, 858-65	5
1461	Efficacy and safety of limus-eluting versus paclitaxel-eluting coronary artery stents in patients with diabetes mellitus: A meta-analysis. <b>2015</b> , 184, 680-691	10
1460	Informational efficiency and spurious spillover effects between spot and derivatives markets. <b>2015</b> , 27, 46-72	9
1459	Susceptibility of farmed juvenile giant grouper <i>Epinephelus lanceolatus</i> to a newly isolated grouper iridovirus (genus Ranavirus). <b>2015</b> , 177, 270-9	12
1458	Fabrication of TiO <sub>2</sub> /EP super-hydrophobic thin film on filter paper surface. <b>2015</b> , 128, 24-31	51
1457	Immunological and molecular characterization of <i>Leptospira interrogans</i> isolated from a bovine foetus. <b>2015</b> , 40, 41-5	8
1456	Acquired hemophilia possibly induced by etanercept in a patient with rheumatoid arthritis. <b>2015</b> , 82, 200-2	11
1455	[Body plethysmography (I): Standardisation and quality criteria]. <b>2015</b> , 83, 136.e1-7	3
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1452	Bioactive factors in microbial biomass have the capacity to offset reductions in the level of protein in the diet of black tiger shrimp, <i>Penaeus monodon</i> . <b>2015</b> , 446, 74-79	12
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1450	Art, Philosophy, and Business: turns to speculative realism in European management scholarship. <b>2015</b> , 33, 161-167	8

1449	Systematic trends in electron-hole pair trapping efficiency of rare earth doped YBO <sub>3</sub> under vacuum ultraviolet excitation. <b>2015</b> , 161, 403-410	8
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1446	Introducing keytagging, a novel technique for the protection of medical image-based tests. <b>2015</b> , 56, 8-29	5
1445	Treatment with diluted bee venom reduces both spinal inflammatory responses and central neuropathic pain behaviors after spinal cord injury in rats. <b>2015</b> , 4, 59-60	
1444	A risk-based microbiological criterion that uses the relative risk as the critical limit. <b>2015</b> , 58, 29-32	8
1443	Strengthening moral reasoning through dedicated ethics training in dietetic preparatory programs. <b>2015</b> , 47, 156-61	3
1442	Leisure-Time Screen-Based Sedentary Behavior and Leukocyte Telomere Length: Implications for a New Leisure-Time Screen-Based Sedentary Behavior Mechanism. <b>2015</b> , 90, 786-90	21
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1437	Experimental evidence of copper insertion in a crystallographic structure of Ti <sub>3</sub> SiC <sub>2</sub> MAX phase. <b>2015</b> , 104, 17-20	20
1436	Fabrication of nanoscale heterostructures comprised of graphene-encapsulated gold nanoparticles and semiconducting quantum dots for photocatalysis. <b>2015</b> , 17, 12881-93	27
1435	Selection criteria for water disinfection techniques in agricultural practices. <b>2015</b> , 55, 1529-51	46
1434	Antimicrobial photodisinfection with Zn(II) phthalocyanine adsorbed on TiO <sub>2</sub> upon UVA and red irradiation. <b>2015</b> ,	3
1433	Research progress of perovskite materials in photocatalysis- and photovoltaics-related energy conversion and environmental treatment. <b>2015</b> , 44, 5371-408	580
1432	Novel hybrid photocatalytic reactor-UF nanocomposite membrane system for bilge water degradation and separation. <b>2015</b> , 5, 45331-45340	14

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1429	Photodegradation of Rhodamine B over Ag modified ferroelectric BaTiO <sub>3</sub> under simulated solar light: pathways and mechanism. <b>2015</b> , 5, 30372-30379		53
1428	Free-standing carbon nanotube-titania photoactive sheets. <b>2015</b> , 448, 148-55		3
1427	Environmental applications of graphene-based nanomaterials. <b>2015</b> , 44, 5861-96		1022
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1425	Synthesis, Characterization, and Application of Exfoliated Graphite/Zirconium Nanocomposite Electrode for the Photoelectrochemical Degradation of Organic Dye in Water. <b>2015</b> , 6, 390-397		10
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1422	Bubble annular photoelectrocatalytic reactor with TiO <sub>2</sub> nanotubes arrays applied in the textile wastewater. <b>2015</b> , 3, 1177-1184		19
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1420	One-step fabrication of BiOCl/CuS heterojunction photocatalysts with enhanced visible-light responsive activity. <b>2015</b> , 158, 67-73		39
1419	Advances in water treatment by microfiltration, ultrafiltration, and nanofiltration. <b>2015</b> , 83-128		20
1418	One-step synthesis of nanostructured Bi <sub>2</sub> O <sub>3</sub> /ZnO composites with enhanced photocatalytic performance. <b>2015</b> , 17, 3809-3819		16
1417	BiOCl <sub>x</sub> Br <sub>y</sub> I <sub>z</sub> (x + y + z = 1) solid solutions with controllable band gap and highly enhanced visible light photocatalytic performances. <b>2015</b> , 638, 254-260		26
1416	Carbon nanotube catalysts: recent advances in synthesis, characterization and applications. <b>2015</b> , 44, 3295-346		477
1415	A stable and active Ag <sub>2</sub> S crystal preparation and its performance as photocatalyst. <b>2015</b> , 36, 564-571		9
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1413	Experimental measurement and modelling of reactive species generation in TiO nanoparticle photocatalysis. <b>2015</b> , 271, 260-268	28
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1411	Preparation of g-C3N4/ZnO composites and their enhanced photocatalytic activity. <b>2015</b> , 30, 122-127	19
1410	Modification Strategies with Inorganic Acids for Efficient Photocatalysts by Promoting the Adsorption of O2. <b>2015</b> , 7, 22727-40	56
1409	Synergistic effect between carbon nanomaterials and ZnO for photocatalytic water decontamination. <b>2015</b> , 331, 172-180	80
1408	Photocatalytic degradation of ciprofloxacin by synthesized TiO2 nanoparticles on montmorillonite: Effect of operation parameters and artificial neural network modeling. <b>2015</b> , 409, 149-161	122
1407	Investigation of photocatalytic activity of pure strontium hydroxyapatite and its Ti-substituted and TiO2 loaded forms. <b>2015</b> , 506, 100-108	14
1406	Insight into photocatalytic degradation of dissolved organic matter in UVA/TiO2 systems revealed by fluorescence EEM-PARAFAC. <i>Water Research</i> , <b>2015</b> , 87, 119-26	12.5 88
1405	Towards the use of metal-organic frameworks for water reuse: a review of the recent advances in the field of organic pollutants removal and degradation and the next steps in the field. <b>2015</b> , 3, 22484-22506	424
1404	Synthesis of magnetically separable Ag3PO4/ZnFe2O4 composite photocatalysts for dye degradation under visible LED light irradiation. <b>2015</b> , 3, 2809-2815	23
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1402	The impacts of various operating conditions on submerged membrane photocatalytic reactors (SMPR) for organic pollutant separation and degradation: a review. <b>2015</b> , 5, 97335-97348	18
1401	Inactivation of Enterococcus sp. by Conventional and Advanced Oxidation Processes in Synthetic Treated Urban Wastewater. <b>2015</b> , 37, 467-475	3
1400	Computational modeling of UV photocatalytic reactors: model development, evaluation, and application. <b>2015</b> , 50, 21-33	2
1399	Capsule-like CdS-modified TiO2 nanocomposites with enhanced photodegradation under visible light irradiation. <b>2015</b> , 10, 157-160	5
1398	An AgI@g-C3N4 hybrid core@shell structure: Stable and enhanced photocatalytic degradation. <b>2015</b> , 358, 319-327	44
1397	Microwave-assisted hydrothermal synthesis of Nd, N, and P tri-doped TiO2 from TiCl4 hydrolysis and synergetic mechanism for enhanced photoactivity under simulated sunlight irradiation. <b>2015</b> , 40, 822-831	13
1396	Single-Pot Synthesis of <001>-Faceted N-Doped Nb2O5/Reduced Graphene Oxide Nanocomposite for Efficient Photoelectrochemical Water Splitting. <b>2015</b> , 7, 17954-62	44

1395	Harvesting broadband absorption of the solar spectrum for enhanced photocatalytic H <sub>2</sub> generation. <b>2015</b> , 3, 19360-19367	33
1394	C ion-implanted TiO <sub>2</sub> thin film for photocatalytic applications. <b>2015</b> , 117, 105308	27
1393	Effect of Fe doping concentration on photocatalytic activity of ZnO nanosheets under natural sunlight. <b>2015</b> ,	1
1392	Comparative study of different solar-based photo catalytic reactors for disinfection of contaminated water. <b>2015</b> , 1-8	8
1391	Porous Titanium Dioxide Coatings Obtained by Anodic Oxidation for Photocatalytic Applications. <b>2015</b> , 9, 619-626	10
1390	Inhibitory effect of natural organic matter or other background constituents on photocatalytic advanced oxidation processes: Mechanistic model development and validation. <i>Water Research</i> , <b>2015</b> , 84, 362-71	12.5 85
1389	The Assembly of TiO <sub>2</sub> Nanoparticles into Micrometer-Sized Structures, Photocatalytically Active Under UV and Vis Light. <b>2015</b> , 98, 2997-3005	6
1388	Coupling of membrane filtration and advanced oxidation processes for removal of pharmaceutical residues: A critical review. <b>2015</b> , 156, 891-914	333
1387	Cuboid-like Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub> /Ag with Graphene-Wrapping Tribrid Composite with Superior Capability for Environmental Decontamination: Nanoscaled Material Design and Visible-Light-Driven Multifunctional Catalyst. <b>2015</b> , 3, 2726-2736	35
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1385	Personal Care Products in the Aquatic Environment. <b>2015</b> ,	13
1384	Photocatalytic properties of aluminum oxynitride (AlON). <b>2015</b> , 161, 72-74	5
1383	TiO <sub>2</sub> photocatalysis of naproxen: effect of the water matrix, anions and diclofenac on degradation rates. <b>2015</b> , 139, 579-88	88
1382	Forced degradation studies, and effect of surfactants and titanium dioxide on the photostability of paliperidone by HPLC. <b>2015</b> , 73, 289-96	8
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1380	A bibliometric analysis of industrial wastewater research: current trends and future prospects. <b>2015</b> , 105, 863-882	41
1379	Photocatalytic Degradation of Organic Pollutants in Wastewater. <b>2015</b> , 58, 1085-1099	63
1378	Efficiency of new Miswak, titanium dioxide and sand filters in reducing pollutants from wastewater. <b>2015</b> , 4, 47-51	2

1377	Immobilized Nanopillars-TiO <sub>2</sub> in the efficient removal of micro-pollutants from aqueous solutions: Physico-chemical studies. <b>2015</b> , 281, 782-792	29
1376	Removal of para-toulic acid (p-TA) from purified terephthalic acid (PTA) waste water by electrocoagulation process. <b>2015</b> , 3, 1731-1739	13
1375	High-Throughput Synthesis and Screening of Titania-Based Photocatalysts. <b>2015</b> , 17, 548-69	44
1374	Comparative study of sulfamethazine degradation in visible light induced photo-Fenton and photo-Fenton-like systems. <b>2015</b> , 3, 2393-2400	11
1373	Gallic acid magnetic nanoparticles for photocatalytic degradation of meloxicam: synthesis, characterization and application to pharmaceutical wastewater treatment. <b>2015</b> , 5, 104981-104990	12
1372	Carbon-doped titania flakes with an octahedral bipyramid skeleton structure for the visible-light photocatalytic mineralization of ciprofloxacin. <b>2015</b> , 5, 98361-98365	12
1371	Synthesis of MnO <sub>2</sub> /CeO <sub>2</sub> Hybrid Nanotubes and Their Spontaneous Formation of a Paper-like, Free-Standing Membrane for the Removal of Arsenite from Water. <b>2015</b> , 7, 26291-300	32
1370	The preparation of high photocatalytic activity nano-spindly Ag-BiVO <sub>4</sub> and photoinduced carriers transfer properties. <b>2015</b> , 640, 188-193	13
1369	Advanced Oxidation Processes at Laboratory Scale: Environmental and Economic Impacts. <b>2015</b> , 3, 3188-3196	49
1368	Facile synthesis and enhanced visible-light photocatalytic activity of micro/nanostructured Ag <sub>2</sub> ZnGeO <sub>4</sub> hollow spheres. <b>2015</b> , 193, 198-205	8
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1365	In liquid laser treated graphene oxide for dye removal. <b>2015</b> , 348, 85-91	21
1364	Removal of methyl tertiary butyl ether (MTBE) from contaminated water using UV-assisted nano composite materials. <b>2015</b> , 55, 549-554	10
1363	Application of molecularly imprinted polymers in wastewater treatment: a review. <b>2015</b> , 22, 963-77	175
1362	Effect of synthesis temperature on the structural properties and photocatalytic activity of TiO <sub>2</sub> /SiO <sub>2</sub> composites synthesized using rice husk ash as a SiO <sub>2</sub> source. <b>2015</b> , 140, 84-93	21
1361	Photocatalytic carbon oxidation with nitric oxide. <b>2015</b> , 166-167, 374-380	8
1360	Dye-sensitized photoelectrochemical cell on plasmonic Ag/AgCl @ chiral TiO <sub>2</sub> nanofibers for treatment of urban wastewater effluents, with simultaneous production of hydrogen and electricity. <b>2015</b> , 168-169, 25-32	18

1359	Solar-photocatalytic disinfection of <i>Vibrio cholerae</i> by using Ag@ZnO core-shell structure nanocomposites. <b>2015</b> , 142, 68-76	69
1358	CuO- doped TiO <sub>2</sub> nanofibers as potential photocatalyst and antimicrobial agent. <b>2015</b> , 26, 251-258	29
1357	Degradation of microcystin-LR by highly efficient AgBr/Ag <sub>3</sub> PO <sub>4</sub> /TiO <sub>2</sub> heterojunction photocatalyst under simulated solar light irradiation. <b>2015</b> , 325, 1-12	39
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1355	A review on the application of photocatalytic materials on textiles. <b>2015</b> , 85, 1104-1118	36
1354	Evaluation of Titanium dioxide photocatalytic technology for the treatment of reactive Black 5 dye in synthetic and real greywater effluents. <b>2015</b> , 89, 196-202	80
1353	Hydrogen from photo-catalytic water splitting process: A review. <b>2015</b> , 43, 599-610	560
1352	Copper(II) coordination polymers: tunable structures and a different activation effect of hydrogen peroxide for the degradation of methyl orange under visible light irradiation. <b>2015</b> , 44, 1406-11	34
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1347	Nanostructured thin films based on TiO <sub>2</sub> and/or SiC for use in photoelectrochemical cells: A review of the material characteristics, synthesis and recent applications. <b>2015</b> , 29, 56-68	59
1346	Solar energy for wastewater treatment: review of international technologies and their applicability in Brazil. <b>2015</b> , 22, 762-73	36
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1344	Remediation of 17- $\beta$ -ethinylestradiol aqueous solution by photocatalysis and electrochemically-assisted photocatalysis using TiO <sub>2</sub> and TiO <sub>2</sub> /WO <sub>3</sub> electrodes irradiated by a solar simulator. <i>Water Research</i> , <b>2015</b> , 72, 305-14	12.5 50
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1341	Toxicity of nano-TiO <sub>2</sub> on algae and the site of reactive oxygen species production. <b>2015</b> , 158, 1-13	193
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1339	Sunlight induced formation of surface Bi <sub>2</sub> O <sub>4</sub> /Bi <sub>2</sub> O <sub>3</sub> nanocomposite during the photocatalytic mineralization of 2-chloro and 2-nitrophenol. <b>2015</b> , 163, 444-451	94
1338	Refinery wastewater degradation with titanium dioxide, zinc oxide, and hydrogen peroxide in a photocatalytic reactor. <b>2015</b> , 94, 479-486	38
1337	Fabrication and characterization of poly(ethylene oxide) templated nickel oxide nanofibers for dye degradation. <b>2015</b> , 2, 78-85	46
1336	Photocatalytic oxidation of pirimicarb in aqueous slurries containing binary and ternary oxides of zinc and titanium. <b>2015</b> , 298, 24-32	31
1335	Synthesis of Ti-doped graphitic carbon nitride with improved photocatalytic activity under visible light. <b>2015</b> , 139, 70-72	41
1334	Fabrication of high-sensitivity palladium loaded tungsten trioxide photocatalyst by photodeposit method. <b>2015</b> , 241, 2-7	17
1333	Photocatalytic degradation and mineralization mechanism and toxicity assessment of antivirus drug acyclovir: Experimental and theoretical studies. <b>2015</b> , 164, 279-287	70
1332	Synthesis and characterization of nanolayered ZnO/ZnCr <sub>2</sub> O <sub>4</sub> metal oxide composites and its photocatalytic activity under visible light irradiation. <b>2015</b> , 90, 514-524	27
1331	DEGRADATION OF 1,2-DICHLOROETHANE IN SIMULATED WASTEWATER SOLUTION: A COMPREHENSIVE STUDY BY PHOTOCATALYSIS USING TiO <sub>2</sub> AND ZnO NANOPARTICLES. <b>2015</b> , 202, 102-111	23
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1329	Sulfamethoxazole removal from polluted water by immobilized photocatalysis. <b>2015</b> , 97, 32-42	7
1328	Study on improving visible light photocatalytic activity of Ag <sub>3</sub> PO <sub>4</sub> through morphology control. <b>2015</b> , 58, 117-121	28
1327	Electrolytic treatment of industrial circulating cooling water using titanium-ethenium-iridium anode and stainless steel cathode. <b>2015</b> , 56, 905-911	3
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1325	Sunlight-induced photocatalytic activity of nanostructured calcium tungstate for methylene blue degradation. <b>2015</b> , 41, 5463-5474	7
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1321	Reduced graphene oxide composites with MWCNTs and single crystalline hematite nanorhombhedra for applications in water purification. <b>2015</b> , 40, 767-778	34
1320	Advanced oxidation processes for in-situ production of hydrogen peroxide/hydroxyl radical for textile wastewater treatment: a review. <b>2015</b> , 87, 826-838	550
1319	Bi <sup>3+</sup> self doped NaBiO <sub>3</sub> nanosheets: Facile controlled synthesis and enhanced visible light photocatalytic activity. <b>2015</b> , 164, 151-158	86
1318	Photocatalyzed ozonation by Ce doped TiO <sub>2</sub> catalyst degradation of pesticide Dicamba in water. <b>2016</b> , 91, 385-393	15
1317	Microporous and Mesoporous Materials in Decontamination of Water Process. <b>2016</b> ,	2
1316	A Study on RR4 Dye as a Sensitizer in Enhancing Photoactivity of Immobilized Photocatalysts. <b>2016</b> , 47, 05020	2
1315	TiO <sub>2</sub> Nanostructures and Nanocomposites for Sustainable Photocatalytic Water Purification. <b>2016</b> ,	3
1314	Enhanced Photocatalytic Response of N Doped Niobium Titanates Prepared by Ion Exchange Process. <b>2016</b> , 01,	
1313	Adsorption of Naphthol Blue Black Dye onto Acid Activated Titania Pillared Bentonite: Equilibrium Study. <b>2016</b> , 32, 1789-1797	2
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1311	Advanced Oxidation Process Based Nanomaterials for the Remediation of Recalcitrant Pollutants. <b>2016</b> , 33-48	2
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781	Remediation of Diethyl Phthalate in Aqueous Effluents with TiO <sub>2</sub> -Supported Rh <sub>0</sub> Nanoparticles as Multicatalytic Materials. <b>2021,</b> 11, 1166	
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760	Photocatalytic anti-biofouling performance of nanoporous ceramic membranes treated by atomic layer deposited ZnO. <b>2021</b> , 272, 118935	7
759	PVDF-TiO <sub>2</sub> core-shell fibrous membranes by microwave-hydrothermal method: Preparation, characterization, and photocatalytic activity. <b>2021</b> , 9, 106250	9
758	An overview on non-spherical semiconductors for heterogeneous photocatalytic degradation of organic water contaminants. <b>2021</b> , 280, 130907	19
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753	A new green floating photocatalyst with Brazilian bentonite into TiO <sub>2</sub> /alginate beads for dye removal. <b>2021</b> , 627, 127159	8
752	Facile fabrication of Fe-BDC/Fe-2MI heterojunction with boosted photocatalytic activity for Cr(VI) reduction. <b>2021</b> , 9, 105961	2
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739	A review on particulate photocatalytic hydrogen production system: Progress made in achieving high energy conversion efficiency and key challenges ahead. <b>2021</b> , 152, 111694	9
738	Facile fabrication of novel FeO-SnO-gCN ternary nanocomposites and their photocatalytic properties towards the degradation of carbofuran. <b>2021</b> , 285, 131395	6
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736	Fabrication of MoS <sub>2</sub> @BL-BiVO <sub>4</sub> photoanode with promoted charge separation for photoelectrochemical sewage treatment to simultaneously degrade PPCPs, disinfect E. coli, and produce H <sub>2</sub> : Performance, mechanisms, and influence factors. <b>2021</b> , 299, 120636	4
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734	Photocatalytic disinfection of extended-spectrum beta-lactamase producing Escherichia coli using Alumina/ZnO heterostructures. <b>2021</b> , 9, 106334	1
733	Electroless Ni <sub>8</sub> Sn <sub>2</sub> P plating to fabricate nickel alloy coated polypropylene membrane with enhanced performance. <b>2021</b> , 640, 119820	35
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711	Photocatalytic degradation of acetaminophen and caffeine using magnetite-hematite combined nanoparticles: kinetics and mechanisms. <b>2021</b> , 28, 17228-17243	4
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703	Photodegradation processes. <b>2021</b> , 55-124	5
702	Water purification: Removal of Heavy metals Using Metal-Organic Frameworks (MOFs). <b>2021</b> , 239-268	2
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697	Nanomaterials for climate change and water pollution mitigation. <b>2021</b> , 277-314	0
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