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Photoinduced reactivity of titanium dioxide

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2271	Partial photocatalytic oxidation of cyclopentene over titanium(IV) oxide. 2005 , 242, 62-67		23
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2269	Optimization of a Magnetically Agitated Photocatalytic Reactor for Water Recovery. 2005 ,		0
2268	Crystallization and segregation in vitreous rutile films annealed at high temperature. 2005 , 23, 1568-1574		9
2267	Destruction of o-Chloroaniline in UV/TiO ₂ Reaction with Photosensitizing Additives. 2005 , 44, 8184-8189		26
2266	Aluminium(III) adsorption: a soft and simple method to prevent TiO ₂ deactivation during salicylic acid photodegradation. 2005 , 1851-3		24
2265	Structural, textural, and electronic properties of a nanosized mesoporous Zn _x Ti _{1-x} O ₂ solid solution prepared by a supercritical drying route. 2005 , 109, 20303-9		41
2264	Preparation of Monodisperse Au/TiO ₂ Nanocatalysts via Self-Assembly. 2006 , 18, 4270-4277		125
2263	Nonlinear size dependence of anatase TiO ₂ lattice parameters. 2006 , 88, 243103		91
2262	Pure rutile nanotubes. 2006 , 1448-50		70
2261	Effects of Boron Doping on Photocatalytic Activity and Microstructure of Titanium Dioxide Nanoparticles. 2006 , 45, 4110-4116		383
2260	Al-Containing Porous Titanium Dioxide Networks: Sol-Gel Synthesis within Agarose Gel Template and Photocatalytic Activity. 2006 , 18, 5835-5839		31
2259	Ultrathin wagon-wheel-like TiO _x phases on Pt(111): a combined low-energy electron diffraction and scanning tunneling microscopy investigation. 2006 , 110, 15359-67		52
2258	Alternative fluoride scavengers to produce TiO ₂ films by the liquid phase deposition (LPD) technique. 2006 , 16, 2249-2255		24
2257	Optimised photocatalytic activity of grid-like mesoporous TiO ₂ films: effect of crystallinity, pore size distribution, and pore accessibility. 2006 , 16, 77-82		241
2256	Size-dependent modifications of the Raman spectrum of rutile TiO ₂ . 2006 , 89, 163118		225
2255	Photoelectrochemical study on charge transfer properties of TiO ₂ -B nanowires with an application as humidity sensors. 2006 , 110, 22029-34		226

2254	Synthesis and UV-Visible-Light Photoactivity of Noble-Metal/TiO ₃ Composites. 2006 , 45, 2187-2193	97
2253	Long TiO ₂ hollow fibers with mesoporous walls: sol-gel combined electrospun fabrication and photocatalytic properties. 2006 , 110, 11199-204	214
2252	Humidity-sensitive electrical conductivity of a Langmuir-Blodgett film of titania nanosheets: surface modification as induced by light irradiation under humid conditions. 2006 , 22, 10066-71	20
2251	Optoelectronic switches based on wide band gap semiconductors. 2006 , 110, 15275-83	59
2250	Enhancing photocatalytic activity by using TiO ₂ /MgO core-shell-structured nanoparticles. 2006 , 88, 013107	26
2249	Synthesis of Nanocrystalline TiO ₂ and Reduced Titanium Oxides via Rapid and Exothermic Metathesis Reactions. 2006 , 18, 2381-2388	24
2248	Tailoring the Selectivity of Ti-Based Photocatalysts (TiO ₂ and Microporous ETS-10 and ETS-4) by Playing with Surface Morphology and Electronic Structure. 2006 , 18, 3412-3424	74
2247	Some aspects of physico-chemical properties of TiO ₂ nanocolloids with respect to their age, size, and structure. 2006 , 22, 598-604	26
2246	Reaction intermediates in the photoreduction of oxygen molecules at the (101) TiO ₂ (anatase) surface. 2006 , 128, 13772-80	76
2245	Treatment of textile dyehouse wastewater by TiO ₂ photocatalysis. 2006 , 40, 1276-86	283
2244	V-shaped tin oxide nanostructures featuring a broad photocurrent signal: an effective visible-light-driven photocatalyst. 2006 , 2, 1436-9	131
2243	Synthesis, characterization and photocatalytic activity of different metal-doped titania systems. 2006 , 306, 120-127	246
2242	Photoacoustic spectroscopic analysis of photoinduced change in absorption of titanium(IV) oxide photocatalyst powders: A novel feasible technique for measurement of defect density. 2006 , 426, 204-208	43
2241	Titania aerogel prepared by low temperature supercritical drying. 2006 , 91, 1-6	43
2240	Sol-gel synthesis of Au/TiO ₂ thin films for photocatalytic degradation of phenol in sunlight. 2006 , 243, 68-76	218
2239	Deposition of silver on titania films by electron beam irradiation. 2006 , 247, 279-284	7
2238	Photocatalytic activity and photo-induced superhydrophilicity of sol-gel derived TiO ₂ films. 2006 , 181, 203-214	67
2237	Adsorption and photocatalytic degradation of diisopropyl fluorophosphate and dimethyl methylphosphonate over dry and wet rutile TiO ₂ . 2006 , 184, 125-134	45

2236	On-line tracking of the coating of nanoscaled silica with titania nanoparticles via zeta-potential measurements. 2006 , 293, 88-92	72
2235	Effect of crystallite size on the surface defect of nano-TiO ₂ prepared via solvothermal synthesis. 2006 , 297, 234-238	50
2234	Effects of Fe-doping on the photocatalytic activity of mesoporous TiO ₂ powders prepared by an ultrasonic method. 2006 , 137, 1838-47	365
2233	Metallization of polymer through a novel surface modification applying a photocatalytic reaction. 2006 , 201, 3761-3766	27
2232	The d.c. magnetron sputtering behavior of TiO ₂ targets with added Fe ₂ O ₃ or Nd ₂ O ₃ . 2006 , 515, 683-686	7
2231	Dynamic of the plasma current amplitude in a barrier discharge: influence of photocatalytic material. 2006 , 39, 2964-2972	47
2230	Synthesis of high surface area nanocrystalline anatase-TiO ₂ powders derived from particulate sol-gel route by tailoring processing parameters. 2006 , 40, 15-23	66
2229	Photocatalytic TiO ₂ Coatings: Effect of Substrate and Template. 2006 , 137, 647-655	30
2228	Photocatalytically active TiO ₂ thin films produced by surfactant-assisted sol-gel processing. 2006 , 495, 327-332	83
2227	The effect of argon pressure on the structural and photocatalytic characteristics of TiO ₂ thin films deposited by d.c. magnetron sputtering. 2006 , 515, 425-429	38
2226	A one-step solvothermal route for the synthesis of nanocrystalline anatase TiO ₂ doped with lanthanide ions. 2006 , 179, 2452-2457	33
2225	Studies on photocatalytic activity of Ag/TiO ₂ films. 2006 , 1, 402-407	7
2224	Photocatalytic oxidation of low molecular weight alkanes: Observations with ZrO ₂ /TiO ₂ supported thin films. 2006 , 64, 153-160	43
2223	Enhancement of photoinduced hydrogen production from irradiated Pt/TiO ₂ suspensions with simultaneous degradation of azo-dyes. 2006 , 64, 171-179	170
2222	Cu-doped TiO ₂ systems with improved photocatalytic activity. 2006 , 67, 41-51	418
2221	Interplay between O ₂ and SnO ₂ : oxygen ionosorption and spectroscopic evidence for adsorbed oxygen. 2006 , 7, 2041-52	339
2220	Redox-controlled photosensitization of nanocrystalline titanium dioxide. 2006 , 7, 2384-91	41
2219	Fabrication of titania structures for photonic applications. 2006 ,	

2218	Photoelectrochemical reactivity of polyoxophosphotungstates embedded in titania tubules. 2006 , 17, 3340-6	20
2217	Co-doping of Iron and Cerium in Titanium Dioxide: Observation of a Cooperative Effect. 2006 , 19, 539-542	8
2216	Low temperature deposition of nanocrystalline TiO ₂ films: enhancement of nanocrystal formation by energetic particle bombardment. 2007 , 40, 219-226	29
2215	Effect of Substrate Sodium Content on Crystallization and Photocatalytic Activity of TiO ₂ Films Prepared by DC Magnetron Sputtering. 2007 , 2007, 1-5	15
2214	Aqueous Photocatalytic Oxidation of Lignin: The Influence of Mineral Admixtures. 2007 , 2007, 1-7	14
2213	Photoinduced Reconstruction of Electronic Structure in Half-Metal CrO ₂ . 2007 , 24, 3509-3512	2
2212	TiO ₂ Thin Films by Chemical Vapor Deposition: An XPS Characterization. 2007 , 14, 27-33	26
2211	Photocatalytic H ₂ or O ₂ Evolution over A-Site Deficient Perovskite-Type Compounds La _{1/3} MO ₃ (M = Nb, Ta) from Aqueous Solutions. 2007 , 2007, 1-7	3
2210	Room-temperature Formation of Alkoxide-derived Anatase Nanoparticles by Peroxotitanic Acid Approach. 2007 , 36, 1094-1095	5
2209	Solar Photocatalysis for Hydrogen Production and CO ₂ Conversion. 2007 , 351-385	3
2208	Nanoparticles for the Photocatalytic Removal of Endocrine-disrupting Chemicals in Water. 2007 ,	
2207	Functional Finishing of Cotton Using Titanium Dioxide and Zinc Oxide Nanoparticles. 2007 , 11, 1-10	29
2206	Photocatalytic promoted oxidation of phenolic mixtures: an insight into the operating and mechanistic aspects. 2007 , 41, 4672-84	33
2205	Volatile organic compounds in indoor environment and photocatalytic oxidation: state of the art. 2007 , 33, 694-705	489
2204	Photocatalytic oxidation of toxic organohalides with TiO ₂ /UV: the effects of humic substances and organic mixtures. 2007 , 66, 1872-7	74
2203	The use of oxyhalogen in photocatalytic reaction to remove o-chloroaniline in TiO ₂ dispersion. 2007 , 66, 2106-13	20
2202	Photocatalysis of fluorene adsorbed onto TiO ₂ . 2007 , 69, 595-604	9
2201	Comparison of the electronic structure of anatase and rutile TiO ₂ single-crystal surfaces using resonant photoemission and x-ray absorption spectroscopy. 2007 , 75,	226

2200	Degradation of methylene blue by three-dimensionally ordered macroporous titania. 2007 , 41, 4405-9	111
2199	Physikalisch-chemische und mikrobiologische Wirkung gesputterter photokatalytischer Titanoxid-Schichten. 2007 , 19, 20-27	1
2198	Surface and Bulk Composition, Structure, and Photocatalytic Activity of Phosphate-Modified TiO ₂ . 2007 , 19, 4811-4819	155
2197	(I(2))(n) encapsulation inside TiO(2): a way to tune photoactivity in the visible region. 2007 , 129, 2822-8	93
2196	Marked Promotive Effect of Iron on Visible-Light-Induced Photocatalytic Activities of Nitrogen- and Silicon-Codoped Titanias. 2007 , 111, 17061-17066	46
2195	15N Solid State NMR and EPR Characterization of N-Doped TiO ₂ Photocatalysts. 2007 , 111, 2738-2748	97
2194	Mesoporous TiO ₂ /SiO ₂ composite nanofibers with selective photocatalytic properties. 2007 , 2043-5	104
2193	Electron transport via polaron hopping in bulk TiO ₂ : A density functional theory characterization. 2007 , 75,	341
2192	Titania Microstructures and Their Optical Properties. 2007 ,	1
2191	Application of Photocatalytic Oxidation in the Presence of TiO ₂ in Small Sewage Treatment Plants. 2007 , 42, 1553-1563	4
2190	Synthesis of nanoparticles in a flame aerosol reactor with independent and strict control of their size, crystal phase and morphology. 2007 , 18, 285603	53
2189	Hydrothermal Synthesis and Photocatalytic Properties of Pyrochlore La ₂ Sn ₂ O ₇ Nanocubes. 2007 , 111, 11879-11887	175
2188	Rate Enhancement and Rate Inhibition of Phenol Degradation over Irradiated Anatase and Rutile TiO ₂ on the Addition of NaF: New Insight into the Mechanism. 2007 , 111, 19024-19032	119
2187	Microemulsion-Mediated Room-Temperature Synthesis of High-Surface-Area Rutile and Its Photocatalytic Performance. 2007 , 111, 6789-6797	51
2186	Semiconductor-Catalyzed Photodegradation of o-Chloroaniline: Products Study and Iodate Effect. 2007 , 46, 4740-4746	12
2185	Fabrication of multiscale surface-chemical gradients by means of photocatalytic lithography. 2007 , 23, 3489-94	55
2184	Photocatalytic degradation of two volatile fatty acids in an annular plug-flow reactor; kinetic modeling and contribution of mass transfer rate. 2007 , 41, 2908-14	31
2183	Can OH Radicals Diffuse from the UV-Irradiated Photocatalytic TiO ₂ Surfaces? Laser-Induced-Fluorescence Study. 2007 , 111, 11339-11346	61

2182	Photocatalytic and antibacterial activity of TiO ₂ and Au/TiO ₂ nanosystems. 2007 , 18, 375709	164
2181	Surface Tailoring for Controlled Photoelectrochemical Properties: Effect of Patterned TiO ₂ Microarrays. 2007 , 111, 13163-13169	36
2180	Fe-Doped Trititanate Nanotubes: Formation, Optical and Magnetic Properties, and Catalytic Applications. 2007 , 111, 14339-14342	30
2179	Core and Valence Band Photoemission Spectroscopy of Well-Ordered Ultrathin TiO _x Films on Pt(111). 2007 , 111, 869-876	53
2178	Li Insertion in Sol-Gel Prepared Mn-Doped TiO ₂ Studied by Electron Spectroscopy in Ultrahigh Vacuum. 2007 , 111, 3459-3466	8
2177	Nanoscale Additives Tailor Energetic Materials. 2007 , 7, 2157-2161	110
2176	Recyclable hydrophilic-hydrophobic micropatterns on glass for microarray applications. 2007 , 23, 4728-31	23
2175	Interfacial and Surface Structures of CeO ₂ /TiO ₂ Mixed Oxides. 2007 , 111, 19078-19085	65
2174	Synthesis of High-Temperature Stable Anatase TiO ₂ Photocatalyst. 2007 , 111, 1605-1611	246
2173	Study on the pretreatment method of glass-epoxy resin in the presence of TiO ₂ sol prepared by hydrothermal method. 2007 , 8, 861-864	5
2172	Artificial lotus leaf structures from assembling carbon nanotubes and their applications in hydrophobic textiles. 2007 , 17, 1071-1078	221
2171	Effect of Visible and UV Illumination on the Water Contact Angle of TiO ₂ Thin Films with Incorporated Nitrogen. 2007 , 111, 1801-1808	66
2170	Hollowing Sn-doped TiO ₂ nanospheres via ostwald ripening. 2007 , 129, 15839-47	494
2169	Preparation of Mixed-Phase Titanium Dioxide Nanocomposites via Solvothermal Processing. 2007 , 19, 1143-1146	99
2168	High-performance dual-action polymer-TiO ₂ nanocomposite films via melting processing. 2007 , 7, 2529-34	114
2167	Effect of microstructure and crystallinity on the photocatalytic activity of TiO ₂ thin films deposited by dc magnetron sputtering. 2007 , 40, 5232-5238	61
2166	The rutile type and its derivatives View all notes . 2007 , 13, 65-113	28
2165	Semiconductor Oxide Photocatalysis for Organic Synthesis. 2007 , 172, 445-448	1

2164	Selective catalysis and nanoscience: an inseparable pair. 2007 , 13, 2440-60	80
2163	A titanium disilicide derived semiconducting catalyst for water splitting under solar radiation-reversible storage of oxygen and hydrogen. 2007 , 46, 7770-4	119
2162	Ein auf Titandisilicid basierender, halbleitender Katalysator zur Wasserspaltung mit Sonnenlicht □ reversible Speicherung von Sauerstoff und Wasserstoff. 2007 , 119, 7917-7921	24
2161	Nanostructured Titanium Oxynitride Porous Thin Films as Efficient Visible-Active Photocatalysts. 2007 , 17, 3348-3354	155
2160	Enhanced Photocatalytic Performance of Brookite TiO ₂ Macroporous Particles Prepared by Spray Drying with Colloidal Templating. 2007 , 19, 1408-1412	238
2159	Radical Enhanced Atomic Layer Deposition of Titanium Dioxide. 2007 , 13, 152-157	41
2158	Titania-Coated Platinum Thin Films by MOCVD: Electrochemical and Photoelectrochemical Properties. 2007 , 13, 644-650	8
2157	Free-radical pathways in the decomposition of ketones over polycrystalline TiO(2): the role of organoperoxy radicals. 2007 , 8, 113-23	29
2156	Development of a novel cathodic plasma/electrolytic deposition technique part 1: Production of titanium dioxide coatings. 2007 , 201, 8761-8770	17
2155	Adsorption of phenylalanine on single crystal rutile TiO ₂ (110) surface. 2007 , 601, 3828-3832	34
2154	The structure of a stoichiometric TiO ₂ nanophase on Pt(111). 2007 , 601, 3488-3496	39
2153	Study of the decomposition of aqueous citratoperoxo-Ti(IV)-gel precursors for titania by means of TGA-MS and FTIR. 2007 , 456, 38-47	27
2152	Investigation on the transition crystal of ordinary rutile TiO ₂ powder by microwave irradiation in hydrogen peroxide solution and its sonocatalytic activity. 2007 , 14, 575-582	30
2151	Photocatalytic behavior of different titanium dioxide layers. 2007 , 515, 6309-6313	53
2150	Photocatalytic activity of dc magnetron sputter deposited amorphous TiO ₂ thin films. 2007 , 254, 148-152	111
2149	Surface-modified anodic TiO ₂ films for visible light photocurrent response. 2007 , 9, 761-766	98
2148	Decolorization of organic dyes on Pilkington Activ□ photocatalytic glass. 2007 , 123, 177-188	37
2147	Photocatalytic degradation of organic pollutants with simultaneous production of hydrogen. 2007 , 124, 94-102	255

2146	Photocatalytic behavior of suspended and supported semiconductor particles in aqueous media: Fundamental aspects using catechol as model molecule. 2007 , 129, 86-95	16
2145	Hydrothermal preparation of highly photoactive TiO ₂ nanoparticles. 2007 , 129, 50-58	96
2144	Comparative study of phenolic compounds mixtures. 2007 , 129, 177-184	18
2143	Reaction intermediates and pathways in the photoreduction of oxygen molecules at the (101) TiO ₂ (anatase) surface. 2007 , 129, 169-176	21
2142	Exploring the electronic structure of nitrogen-modified TiO ₂ photocatalysts through photocurrent and surface photovoltage studies. 2007 , 339, 11-19	87
2141	TiO ₂ nanopowders doped with boron and nitrogen for photocatalytic applications. 2007 , 339, 111-123	179
2140	Hydrothermal synthesis and structural characterisation of xTiO ₂ (1-x)Fe ₂ O ₃ mixed oxide nanoparticles. 2007 , 325, 270-275	20
2139	A review of intensification of photocatalytic processes. 2007 , 46, 781-789	332
2138	Characterization of self-cleaning RO membranes coated with TiO ₂ particles under UV irradiation. 2007 , 303, 221-233	205
2137	Photoreactivity of TSP: A novel microporous titanosilicate. 2007 , 101, 184-190	4
2136	Characterization and photocatalytic activity of K ⁺ -doped TiO ₂ photocatalysts. 2007 , 265, 133-140	61
2135	A comparison of mixed phase titania photocatalysts prepared by physical and chemical methods: The importance of the solid-solid interface. 2007 , 275, 30-35	116
2134	Selective synthesis of borated meso-macroporous and mesoporous spherical TiO ₂ with high photocatalytic activity. 2007 , 102, 318-324	47
2133	The role of copper(II) ions in the photocatalytic oxidation of 1,4-dioxane. 2007 , 278, 152-159	20
2132	Thin film TiO ₂ photoanodes for water photolysis prepared by dc magnetron sputtering. 2007 , 173, 774-780	30
2131	Bi ₂ WO ₆ photocatalytic films fabricated by layer-by-layer technique from Bi ₂ WO ₆ nanoplates and its spectral selectivity. 2007 , 180, 1456-1463	41
2130	Anatase nanotubes as support for platinum nanocrystals. 2007 , 37, 245-249	20
2129	Synthesis of TiO ₂ nanoparticles by hydrolysis and peptization of titanium isopropoxide solution. 2007 , 189, 296-300	267

2128	Photodegradation of rhodamine B in aqueous solution via SiO ₂ @TiO ₂ nano-spheres. 2007 , 185, 19-25	246
2127	Investigation of photocatalytically-active hydrated forms of amorphous titania, TiO ₂ ·nH ₂ O. 2007 , 186, 8-13	75
2126	Photocatalytic degradation of methyl parathion: Reaction pathways and intermediate reaction products. 2007 , 186, 71-84	80
2125	Shape, size and photocatalytic activity control of TiO ₂ nanoparticles with surfactants. 2007 , 187, 363-369	160
2124	Preparation and characterization of doped metal-supported TiO ₂ -layers. 2007 , 188, 226-234	24
2123	The photocatalytic activity of sol-gel derived photo-platinized TiO ₂ films. 2007 , 189, 334-348	18
2122	Remediation of olfactory pollution by photocatalytic degradation process: Study of methyl ethyl ketone (MEK). 2007 , 191, 42-50	39
2121	Influence of synthesis parameters on morphology and phase composition of porous titania layers prepared via water based chemical solution deposition. 2007 , 27, 4537-4546	15
2120	Preparation of a porous nanocrystalline TiO ₂ layer by deposition of hydrothermally synthesized nanoparticles. 2007 , 27, 4529-4535	18
2119	Photocatalytic activity of TiO ₂ doped with boron and vanadium. 2007 , 146, 529-34	148
2118	Sensor performance of nanostructured TiO ₂ thin films derived from particulate sol-gel route and polymeric fugitive agents. 2007 , 124, 74-83	60
2117	Multi-faceted titanium glycolate and titania structures from room-temperature polyol process. 2007 , 316, 175-82	16
2116	Photoactivated Properties of TiO ₂ Films Prepared by Magnetron Sputtering. 2007 , 4, S531-S535	8
2115	Microwave-assisted hydrothermal synthesis and photocatalytic activity of ZnO. 2007 , 43, 35-39	36
2114	Microstructures and photoactivity of mesoporous anatase hollow microspheres fabricated by fluoride-mediated self-transformation. 2007 , 249, 59-66	349
2113	Effects of hydrothermal temperature and time on the photocatalytic activity and microstructures of bimodal mesoporous TiO ₂ powders. 2007 , 69, 171-180	481
2112	The effect of platinum and silver deposits in the photocatalytic oxidation of resorcinol. 2007 , 72, 363-372	56
2111	Effect of key operating parameters on phenols degradation during H ₂ O ₂ -assisted TiO ₂ photocatalytic treatment of simulated and actual olive mill wastewaters. 2007 , 73, 11-22	99

2110	Photocatalytic reduction of 4-nitrophenol with arginine-modified titanium dioxide nanoparticles. 2007 , 74, 103-110	82
2109	Photocatalytic degradation of two volatile fatty acids in monocomponent and multicomponent systems: Comparison between batch and annular photoreactors. 2007 , 74, 187-196	9
2108	Photocatalytic degradation of sulfamethoxazole in aqueous suspension of TiO ₂ . 2007 , 74, 233-241	204
2107	Sol-gel preparation and characterization of nanosize TiO ₂ : Its photocatalytic performance. 2007 , 104, 454-459	176
2106	Anatase/rutile TiO ₂ composites: Influence of the mixing ratio on the photocatalytic degradation of Malachite Green and Orange II in slurry. 2007 , 106, 187-192	70
2105	Preparation and characterization of high surface area nanosheet titania with mesoporous structure. 2007 , 61, 2973-2977	28
2104	Dye-effect in TiO ₂ catalyzed contaminant photo-degradation: Sensitization vs. charge-transfer formalism. 2007 , 9, 9-15	58
2103	X-ray discrete variational analysis and ¹ H nuclear magnetic resonance study of the dissociation of water molecules on the surface of TiO and TiO ₂ oxides. 2007 , 71, 735-737	
2102	Bioinspired nanodevice based on the folic acid/titanium dioxide system. 2007 , 2, 580-90	27
2101	Characterization of titanium dioxide photoactivity following the formation of radicals by EPR spectroscopy. 2007 , 33, 251-268	68
2100	Influence of Zn(II) adsorption on the photocatalytic activity and the production of H ₂ O ₂ over irradiated TiO ₂ . 2007 , 33, 319-332	19
2099	Effect of UV irradiation on cellulase degradation of cellulose acetate containing TiO ₂ . 2007 , 8, 19-24	20
2098	Preparation of nanocrystalline titania films with different porosity by water-based chemical solution deposition. 2007 , 43, 291-297	12
2097	Preparation and characterization of titania based nanowires. 2007 , 9, 455-470	7
2096	Photocatalytic mineralisation of organic compounds: a comparison of flame-made TiO ₂ catalysts. 2007 , 44, 489-497	42
2095	A Novel Method for Preparing V-doped Titanium Dioxide Thin Film Photocatalysts with High Photocatalytic Activity Under Visible Light Irradiation. 2007 , 118, 254-259	55
2094	Synthesis of TiO ₂ nano-particles and their photocatalytic activity for formaldehyde and methyl orange degradation. 2007 , 1, 178-183	2
2093	Application of beam irradiation in preparation of visible light responsive TiO ₂ films. 2007 , 2, 387-392	1

2092	Spectroscopic studies of interfacial structures of CeO ₂ /TiO ₂ mixed oxides. 2007 , 253, 8952-8961	286
2091	The solid-solid interface: Explaining the high and unique photocatalytic reactivity of TiO ₂ -based nanocomposite materials. 2007 , 339, 173-187	254
2090	Photo-induced properties of thin TiO ₂ films deposited using the radio frequency plasma enhanced chemical vapor deposition method. 2007 , 515, 5275-5281	22
2089	Optical and photocatalytic properties of nanocrystalline TiO ₂ synthesised by solid-state chemical reaction. 2007 , 68, 2341-2348	16
2088	Photocatalytic sterilization of TiO ₂ films coated on Al fiber. 2008 , 148, 183-186	21
2087	Lanthanide-doped titanium dioxide layers as photocatalysts. 2008 , 254, 7296-7302	29
2086	Conformity and structure of titanium oxide films grown by atomic layer deposition on silicon substrates. 2008 , 516, 4855-4862	42
2085	Photocatalytic Study of Bi-ZSM-5 and Bi ₂ O ₃ /HZSM-5 for the Treatment of Phenolic Wastes. 2008 , 121, 131-136	18
2084	Ce Dispersed Al-MCM-41: A Photocombinate for Phenol Degradation Activity. 2008 , 123, 301-306	11
2083	In vitro bioactivity of wollastonite-titania materials obtained by sol-gel method or solid state reaction. 2008 , 48, 362-368	8
2082	Genotoxic and cytotoxic potential of titanium dioxide (TiO ₂) nanoparticles on fish cells in vitro. 2008 , 17, 410-20	200
2081	Photocatalytic activities of nanocrystalline Si-modified titania xerogels prepared by the glycothermal method. 2008 , 43, 2286-2292	2
2080	Modifier ligands effects on the synthesized TiO ₂ nanocrystals. 2008 , 43, 1723-1729	56
2079	Influence of pH and H ₂ O ₂ on dyes photodegradation. 2008 , 5, 3332-3337	5
2078	Composite semiconductor H ₂ WO ₄ .H ₂ O/AgCl as an efficient and stable photocatalyst under visible light. 2008 , 14, 10543-6	83
2077	Interference colors of thin oxide layers on titanium. 2008 , 33, 221-228	110
2076	Europium-doped mesoporous titania thin films: rare-earth locations and emission fluctuations under illumination. 2008 , 9, 2077-84	25
2075	Effects of Precipitation, SolGel Synthesis Conditions, and Drying Methods on the Properties of Nano-TiO ₂ for Photocatalysis Applications. 2008 , 2008, 974-979	16

2074	MALDI in-source photooxidation reactions for online peptide tagging. 2008 , 47, 2646-8	35
2073	Importance of the relationship between surface phases and photocatalytic activity of TiO ₂ . 2008 , 47, 1766-9	1003
2072	Semiconductor-photocatalyzed sulfoxidation of alkanes. 2008 , 47, 7107-9	53
2071	Self-Sterilized EVOH-TiO ₂ Nanocomposites: Interface Effects on Biocidal Properties. 2008 , 18, 1949-1960	98
2070	Hierarchical WO ₃ Hollow Shells: Dendrite, Sphere, Dumbbell, and Their Photocatalytic Properties. 2008 , 18, 1922-1928	504
2069	Carbon/Inorganic Hybrid Materials: The Carbon-Nanotube/TiO ₂ Interface. 2008 , 20, 1787-1793	200
2068	MALDI In-Source Photooxidation Reactions for Online Peptide Tagging. 2008 , 120, 2686-2688	3
2067	Importance of the Relationship between Surface Phases and Photocatalytic Activity of TiO ₂ . 2008 , 120, 1790-1793	152
2066	Sulfoxidation von Alkanen durch Halbleiterphotokatalyse. 2008 , 120, 7215-7217	16
2065	Preparation and characterization of hydrophobic TiO ₂ (2) pillared clay: the effect of acid hydrolysis catalyst and doped Pt amount on photocatalytic activity. 2008 , 320, 501-7	60
2064	Comparative examination of titania nanocrystals synthesized by peroxo titanate approach from different precursors. 2008 , 322, 497-504	31
2063	Sorption of uranyl ions on titanium oxide studied by ATR-IR spectroscopy. 2008 , 327, 15-20	37
2062	Synthesis of thermally stable mesoporous TiO ₂ and investigation of its photocatalytic activity. 2008 , 110, 501-507	55
2061	Development of photocatalytic efficient Ti-based nanotubes and nanoribbons by conventional and microwave assisted synthesis strategies. 2008 , 114, 401-409	52
2060	Modification of photocatalytic TiO ₂ thin films by electron beam irradiation. 2008 , 77, 345-351	18
2059	Preparation of nanosized TiO ₂ /ZnO composite catalyst and its photocatalytic activity for degradation of methyl orange. 2008 , 194, 11-19	242
2058	Tailoring the activity of Ti-based photocatalysts by playing with surface morphology and silver doping. 2008 , 196, 165-173	36
2057	The influence of platinum on UV and visible photocatalysis by rutile and Degussa P25. 2008 , 194, 283-289	59

2056	Abatement of volatile organic compounds using an annular photocatalytic reactor: Study of gaseous acetone. 2008 , 197, 177-189	69
2055	Surface properties and photocatalytic activity of nanocrystalline titania films. 2008 , 200, 192-200	74
2054	Photocatalytic degradation of ammonia and butyric acid in plug-flow reactor: Degradation kinetic modeling with contribution of mass transfer. 2008 , 200, 254-261	46
2053	Heterogeneous photocatalytic degradation of organic contaminants over titanium dioxide: A review of fundamentals, progress and problems. 2008 , 9, 1-12	2114
2052	The effect of the valence state of titanium ions on the hydrophilicity of ceramics in the titanium-oxygen system. 2008 , 28, 577-584	29
2051	Effects of peptizing conditions on nanometer properties and photocatalytic activity of TiO ₂ hydrosols prepared by H ₂ TiO ₃ . 2008 , 155, 90-9	22
2050	Low temperature synthesis, characterization and substrate-dependent photocatalytic activity of nanocrystalline TiO ₂ with tailor-made rutile to anatase ratio. 2008 , 340, 153-161	91
2049	Effect of suspended TiO ₂ physicochemical characteristics on benzene derivatives photocatalytic degradation. 2008 , 78, 19-29	56
2048	One-pot synthesis of twist-like helix tungsten-nitrogen-codoped titania photocatalysts with highly improved visible light activity in the abatement of phenol. 2008 , 82, 233-243	64
2047	Highly photoactive ZnO by amine capping-assisted hydrothermal treatment. 2008 , 83, 30-38	66
2046	Ag promotion of TiO ₂ -anatase disinfection capability: Study of Escherichia coli inactivation. 2008 , 84, 87-93	99
2045	Photocatalytic degradation of toluene over doped and coupled (Ti,M)O ₂ (M = Sn or Zr) nanocrystalline oxides: Influence of the heteroatom distribution on deactivation. 2008 , 84, 598-606	60
2044	Visible light photocatalytic properties of anion-doped TiO ₂ materials prepared from a molecular titanium precursor. 2008 , 451, 75-79	30
2043	Effect of temperature on the degree of anatase-rutile transformation in titanium dioxide nanoparticles synthesized by the modified sol-gel method. 2008 , 8, 343-346	82
2042	Effect of quenching medium on photocatalytic activity of nano-TiO ₂ prepared by solvothermal method. 2008 , 138, 622-627	39
2041	Characterization of photocatalytic and superhydrophilic properties of mortars containing titanium dioxide. 2008 , 38, 1349-1353	123
2040	Low temperature preparation and characterization of nanospherical anatase TiO ₂ and its photocatalytic activity on Congo red degradation under sunlight. 2008 , 34, 479-483	14
2039	TiO ₂ optical coating layers for self-cleaning applications. 2008 , 34, 1067-1071	146

2038	Identification of photocatalytic degradation products of bezafibrate in TiO ₂ aqueous suspensions by liquid and gas chromatography. 2008 , 1183, 38-48	47
2037	Effect of the internal stress relaxation during the post-annealing on the photo-induced properties of TiO ₂ coatings reactively sputtered. 2008 , 202, 6120-6126	9
2036	Porous TiO ₂ coating using the solution precursor plasma spray process. 2008 , 202, 6113-6119	35
2035	Reactive direct current magnetron sputtered TiO ₂ thin films with amorphous to crystalline structures. 2008 , 516, 6353-6358	58
2034	Investigation on the nitrogen doping of multilayered, porous TiO ₂ thin films. 2008 , 516, 8184-8189	29
2033	One-step synthesis of noble metal titanium dioxide nanocomposites in a flame aerosol reactor. 2008 , 345, 241-246	69
2032	High temperature stable mesoporous anatase TiO ₂ photocatalyst achieved by silica addition. 2008 , 349, 13-19	104
2031	Influence of amine template on the photoactivity of TiO ₂ nanoparticles obtained by hydrothermal treatment. 2008 , 78, 176-182	26
2030	Comparative study of MTBE photocatalytic degradation with TiO ₂ and Cu-TiO ₂ . 2008 , 78, 355-363	54
2029	Study of the synergic effect of sulphate pre-treatment and platinisation on the highly improved photocatalytic activity of TiO ₂ . 2008 , 81, 49-55	31
2028	Photodegradation of dye pollutant under UV light by nano-catalyst doped titania thin films. 2008 , 84, 233-240	73
2027	The effect of particle shape on the activity of nanocrystalline TiO ₂ photocatalysts in phenol decomposition. 2008 , 84, 356-362	92
2026	Effect of silver ions on the structure of ZnO and photocatalytic performance of Ag/ZnO composites. 2008 , 255, 1996-1999	91
2025	Photodegradation of NPE-10 surfactant by Au-doped nano-TiO ₂ . 2008 , 315, 254-258	26
2024	Photocatalytic activity of silver-modified titanium dioxide at solid-liquid and solid-gas interfaces. 2008 , 319, 136-142	38
2023	Preillumination of TiO ₂ and Ta ₂ O ₅ photoactive thin films as a tool to tailor the synthesis of composite materials. 2008 , 24, 9460-9	36
2022	Surfactant-Assisted Synthesis of Uniform Titania Microspheres and Their Clusters. 2008 , 20, 2704-2710	51
2021	Nanotechnology and water treatment: applications and emerging opportunities. 2008 , 34, 43-69	481

2020	Photocatalytic disinfection of <i>Giardia intestinalis</i> and <i>Acanthamoeba castellanii</i> cysts in water. 2008 , 119, 44-8	71
2019	The effect of surface OH-population on the photocatalytic activity of rare earth-doped P25-TiO ₂ in methylene blue degradation. 2008 , 260, 75-80	156
2018	Preparation and characterization of Ti _{1-x} Zr _x O ₂ /ZrO ₂ nanocomposite. 2008 , 58, 794-797	5
2017	Effect of the mechanoactivation on the structure, sorption and photocatalytic properties of titanium dioxide. 2008 , 110, 291-298	35
2016	Photocatalytic and photoelectrocatalytic degradation of aqueous Rhodamine B by low-temperature deposited anatase thin films. 2008 , 112, 510-515	22
2015	A facile solvothermal route to photocatalytically active nanocrystalline anatase TiO ₂ from peroxide precursors. 2008 , 10, 864-872	10
2014	Chimie Douce Route to Sodium Hydroxo Titanate Nanowires with Modulated Structure and Conversion to Highly Photoactive Titanium Dioxides. 2008 , 20, 7228-7236	44
2013	Lamellar carbon nanosheets function as templates for two-dimensional deposition of tubular titanate. 2008 , 4348-50	24
2012	On the preparation of TiO ₂ -sepiolite hybrid materials for the photocatalytic degradation of TCE: influence of TiO ₂ distribution in the mineralization. 2008 , 42, 5892-6	63
2011	Role of Surface/Interfacial Cu ²⁺ Sites in the Photocatalytic Activity of Coupled CuO/TiO ₂ Nanocomposites. 2008 , 112, 19040-19044	285
2010	Sol-Gel Pure and Mixed-Phase Titanium Dioxide for Photocatalytic Purposes: Relations between Phase Composition, Catalytic Activity, and Charge-Trapped Sites. 2008 , 20, 4051-4061	88
2009	Tuning Photoelectrochemical Performances of Ag/TiO ₂ Nanocomposites via Reduction/Oxidation of Ag. 2008 , 20, 6543-6549	511
2008	Oxidation and Photo-Oxidation of Water on TiO ₂ Surface. 2008 , 112, 9872-9879	422
2007	Does Nanoparticle Activity Depend upon Size and Crystal Phase?. 2008 , 2, 33-42	319
2006	Preparation and Enhanced Photoelectrochemical Performance of Coupled Bicomponent ZnO/TiO ₂ Nanocomposites. 2008 , 112, 117-122	171
2005	Photocatalytic activity of MCM-organized TiO ₂ materials in the oxygenation of cyclohexane with molecular oxygen. 2008 , 7, 819-25	19
2004	Ab initio study of the electronic states induced by oxygen vacancies in rutile and anatase TiO ₂ . 2008 , 78,	221
2003	Organic chemistry in inorganic nanomaterials synthesis. 2008 , 18, 1171-1182	115

2002	Water Dissociation on Single Crystalline Anatase TiO ₂ (001) Studied by Photoelectron Spectroscopy. 2008 , 112, 16616-16621	72
2001	Hole-Mediated Photodecomposition of Trimethyl Acetate on a TiO ₂ (001) Anatase Epitaxial Thin Film Surface. 2008 , 112, 20050-20056	47
2000	Morphology control of CNT-TiO ₂ hybrid materials and rutile nanotubes. 2008 , 18, 2036	121
1999	Enhanced Photocatalytic Activity of Hollow Anatase Microspheres by Sn ⁴⁺ Incorporation. 2008 , 112, 2050-2057	92
1998	V and N co-doped nanocrystal anatase TiO ₂ photocatalysts with enhanced photocatalytic activity under visible light irradiation. 2008 , 9, 1472-1476	138
1997	Photocatalytic study of P25 and mesoporous titania in aqueous and gaseous environment. 2008 , 9, 1787-1792	11
1996	Self-Assembled 3-D Architectures of BiOBr as a Visible Light-Driven Photocatalyst. 2008 , 20, 2937-2941	389
1995	(101)-Exposed Anatase TiO ₂ Nanosheets. 2008 , 20, 2426-2428	46
1994	Photoinduced degradation of orange II on different iron (hydr)oxides in aqueous suspension: rate enhancement on addition of hydrogen peroxide, silver nitrate, and sodium fluoride. 2008 , 24, 175-81	120
1993	Tuning the optical and photoelectrochemical properties of surface-modified TiO ₂ . 2008 , 7, 40-8	201
1992	The important role of tetrahedral Ti ⁴⁺ sites in the phase transformation and photocatalytic activity of TiO ₂ nanocomposites. 2008 , 130, 5402-3	149
1991	Visible Light Photocatalytic Oxidation of Toluene Using a Cerium-Doped Titania Catalyst. 2008 , 47, 3346-3357	26
1990	Size-dependent modifications of the first-order Raman spectra of nanostructured rutile TiO ₂ . 2008 , 77,	109
1989	Development of multifunctional photoactive self-cleaning glasses. 2008 , 354, 1424-1430	120
1988	Electrical conductivity and photoconductivity studies of TiO ₂ sol-gel thin films and the effect of N-doping. 2008 , 354, 4448-4457	43
1987	Surface modification of glass epoxy resin using the photocatalytic reaction in TiO ₂ dispersed solution. 2008 , 449, 184-187	5
1986	Degradation of paracetamol in aqueous solutions by TiO ₂ photocatalysis. 2008 , 42, 3480-8	434
1985	Defect Chemistry of Titanium Dioxide. Application of Defect Engineering in Processing of TiO ₂ -Based Photocatalysts. 2008 , 112, 5275-5300	458

1984	Phase Composition, Size, Orientation, and Antenna Effects of Self-Assembled Anodized Titania Nanotube Arrays: A Polarized Micro-Raman Investigation. 2008 , 112, 12687-12696	103
1983	Removal of humic acid using TiO ₂ photocatalytic process--fractionation and molecular weight characterisation studies. 2008 , 72, 263-71	118
1982	Microstructure promoted photosensitization activity of dye-titania/titanium composites. 2008 , 39, 690-696	6
1981	Preparation and Characterization of Stable Biphasic TiO ₂ Photocatalyst with High Crystallinity, Large Surface Area, and Enhanced Photoactivity. 2008 , 112, 3083-3089	267
1980	Theoretical investigation of size and shape effects on the melting temperature and energy bandgap of TiO ₂ nanostructures. 2008 , 92, 103121	56
1979	Dependence of Quenching Process on the Photocatalytic Activity of Solvothermal-Derived TiO ₂ with Various Crystallite Sizes. 2008 , 47, 693-697	24
1978	Photocatalytic decomposition of acetone using LaTi(O,N) ₃ nanoparticles under visible light irradiation. 2008 , 18, 4260	32
1977	Structural, electronic, and surface properties of anatase TiO ₂ nanocrystals from first principles. 2008 , 78,	54
1976	Detection of HO ₂ Radicals in the Photocatalytic Oxidation of Methyl Ethyl Ketone. 2008 , 112, 2239-2243	13
1975	Sum Frequency Generation Spectroscopic Investigation of TiO _x /Pt(111): Surface Active Sites and Reaction Paths Probed by Formate. 2008 , 112, 12477-12485	4
1974	Ultrathin TiO ₂ Films on (100)-Pt(110): a LEED, Photoemission, STM, and Theoretical Investigation. 2008 , 112, 20038-20049	20
1973	The role of photoinduced defects in TiO ₂ and its effects on hydrogen evolution from aqueous methanol solution. 2008 , 112, 10784-9	51
1972	Effect of Prolonged Oxidation on Semiconducting Properties of Titanium Dioxide. 2008 , 112, 13248-13257	23
1971	Nanotube transistors as direct probes of the trap dynamics at dielectric-organic interfaces of interest in organic electronics and solar cells. 2008 , 8, 3619-25	30
1970	Mechanisms of photocatalytic degradation of monomethylarsonic and dimethylarsinic acids using nanocrystalline titanium dioxide. 2008 , 42, 2349-54	73
1969	Reversible superhydrophobic to superhydrophilic conversion of Ag@TiO ₂ composite nanofiber surfaces. 2008 , 24, 8021-6	84
1968	Mobility of Electronic Charge Carriers in Titanium Dioxide. 2008 , 112, 12981-12987	49
1967	Interconversion of Rutile TiO ₂ and Layered Ramsdellite-Like Titanates: New Route to Elongated Mesoporous Rutile Nanoplates. 2008 , 8, 3555-3559	6

1966	Molecules Immobilization in Titania Nanotubes: A Solid-State NMR and Computational Chemistry Study. 2008 , 112, 17331-17335	28
1965	Quantum Chemical Modeling of Ground States of CO ₂ Chemisorbed on Anatase (001), (101), and (010) TiO ₂ Surfaces. 2008 , 22, 2611-2618	53
1964	Titanium dioxide-based semiconductors for solar-driven environmentally friendly applications: impact of point defects on performance. 2008 , 1, 565	96
1963	Reactivity of titanium dioxide with oxygen at room temperature and the related charge transfer. 2008 , 130, 9984-93	41
1962	Short Hydrogen Bonds at the Water/TiO ₂ (Anatase) Interface. 2008 , 112, 13579-13586	61
1961	Preparation, Characterisation, and Photocatalytic Behaviour of Co-TiO ₂ with Visible Light Response. 2008 , 2008, 1-9	34
1960	Rapidly switched wettability of titania films deposited by dc magnetron sputtering. 2008 , 41, 155308	17
1959	Effect of Ag and Au doping on the photocatalytic activity of TiO ₂ supported on textile fibres. 2008 , 1077, 72001	2
1958	Structural Study And Optical Properties Of TiO ₂ Thin Films Elaborated By Thermal Oxidation Of RF Magnetron Sputtered Ti Films. 2008 ,	
1957	Self-organized TiO ₂ nanotubular arrays for photoelectrochemical hydrogen generation: effect of crystallization and defect structures. 2008 , 41, 125307	89
1956	Nanograined anatase titania-based optochemical gas detection. 2008 , 10, 053030	17
1955	Optical and photocatalytic properties of oblique angle deposited TiO ₂ nanorod array. 2008 , 26, 1350	41
1954	Geometric structure of TiO ₂ (011)(2 x 1). 2008 , 101, 185501	86
1953	Defect evolution in oxide nanophases: The case of a zigzag-like TiO _x phase on Pt(111). 2008 , 77,	41
1952	Probing and modifying the empty-state threshold of anatase TiO ₂ : Experiments and ab initio theory. 2008 , 78,	15
1951	Structural study of TiO ₂ -based transparent conducting films. 2008 , 26, 1027-1029	10
1950	Risk Assessment Assisted by TiO ₂ Photocatalytic Oxidation. 2008 ,	0
1949	Development of a Photocatalytic Oxidation-Based TOC Analyzer Part II: Effect of Reactor Design and Operation Parameters on Oxidation Efficiency of VOCs. 2009 ,	0

- 1948 Preparation, characterisation and structure of Ti and Al ultrathin oxide films on metals. **2009**, 28, 517-576 72
- 1947 The large-scale synthesis of one-dimensional TiO₂ nanostructures using palladium as catalyst at low temperature. **2009**, 20, 055605 15
- 1946 Crystallographic dependence of visible-light photoactivity in epitaxial TiO₂-N_x anatase and rutile. **2009**, 79, 51
- 1945 Cu_xO - TiO₂ Composites (x=1, 2) Studied by X-ray Photoelectron Spectroscopy. **2009**, 16, 1-12 11
- 1944 . **2009**,
- 1943 Determination of Photoadsorption Capacity of Polychrystalline TiO₂ Catalyst in Irradiated Slurry. **2009**, 36, 1-35 19
- 1942 Assignment of photoelectron spectra of (TiO₂)_n with n = 1-3. **2009**, 130, 174308 12
- 1941 Preyssler Anion as a Green and Eco-friendly Catalyst for Photocatalytic Oxidation of Aromatic Aldehydes. **2009**, 39, 746-750 10
- 1940 Hydrothermal Synthesis and Photocatalytic Properties of TiO₂ Nanotubes. **2009**, 95-101 2
- 1939 Fabrication of TiO₂ and Ag wires and arrays using opal polystyrene crystal templates. **2009**, 27, 1484 2
- 1938 Correlation of crystal structures, electronic structures and photocatalytic properties in W-based oxides. **2009**, 42, 125402 11
- 1937 Nanostructured Photocatalysts and Their Applications in the Photocatalytic Transformation of Lignocellulosic Biomass: An Overview. **2009**, 2, 2228-2258 141
- 1936 Structure, thermal stability, and optical properties of boron modified nanocrystalline anatase prepared by chemical vapor synthesis. **2009**, 105, 113526 1
- 1935 Photocatalytic Reduction of Methyl Orange Using Titania Photocatalyst Codoped with Nitrogen and Gadolinium under Visible Light Illumination. **2009**, 79-82, 2127-2130 2
- 1934 The Role of the Surface Coverage on the Structural and Electronic Properties of TiO₂ Nanocrystals. **2009**, 1178, 114
- 1933 Study on activities of vanadium (IV/V) doped TiO₂(R) nanorods induced by UV and visible light. **2009**, 113, 551-557 77
- 1932 Facile synthesis and the sensitized luminescence of europium ions-doped titanate nanowires. **2009**, 114, 561-568 17
- 1931 Preparation and optical property of anatase hollow microsphere with mesoporosity. **2009**, 44, 271-275 6

1930	Structure and photocatalytic activity studies of TiO ₂ -supported over Ce-modified Al-MCM-41. 2009 , 44, 1540-1546	23
1929	Nanoporous composite of carbon nanosheets and functional titania nanoparticles formed by reassembling of exfoliated graphite oxides with colloidal titania. 2009 , 63, 260-262	26
1928	Effects of Sintering Atmosphere on the Microstructure and Surface Properties of Symmetric TiO ₂ Membranes. 2009 , 17, 739-745	2
1927	Photocatalytic Carbon-Nanotube/TiO ₂ Composites. 2009 , 21, 2233-2239	1195
1926	Non-UV-induced radical reactions at the surface of TiO ₂ nanoparticles that may trigger toxic responses. 2009 , 15, 4614-21	143
1925	Facile Synthesis of Anatase/Brookite Mixed-Phase N-Doped TiO ₂ Nanoparticles with High Visible-Light Photocatalytic Activity. 2009 , 2009, 3727-3733	26
1924	Resonance Raman spectroscopy as an effective tool for the determination of antioxidative stability of cosmetic formulations. 2010 , 3, 82-8	40
1923	Screening tests for the evaluation of nanoparticle titania photocatalysts. 2009 , 84, 1717-1725	20
1922	Self-cleaning, titanium dioxide based, multilayer coating fabricated on polymer and glass surfaces. 2009 , 111, 2597-2606	68
1921	Photocatalytic activity of size and phase selective TiO ₂ nanoparticles prepared by the membrane processing. 2009 , 68, 153-158	3
1920	N-doped TiO ₂ /ZnO composite powder and its photocatalytic performance for degradation of methyl orange. 2009 , 204, 723-730	51
1919	Photolytic depolymerization of alginate. 2009 , 344, 2023-7	40
1918	Photocatalytic activity of nanocrystalline mesoporous-assembled TiO ₂ photocatalyst for degradation of methyl orange monoazo dye in aqueous wastewater. 2009 , 155, 223-233	68
1917	Simple fabrication and photocatalytic activity of S-doped TiO ₂ under low power LED visible light irradiation. 2009 , 35, 3061-3065	83
1916	Deposition of thin TiO ₂ layers on platinum by means of cyclic voltammetry of selected complex Ti(IV) media leading to anatase. 2009 , 54, 4045-4055	11
1915	Photo-catalytic coating of polystyrene for household cooling appliances with self cleaning surfaces. 2009 , 39, 2265-2273	6
1914	Influence of platinum nano-particles on the photocatalytic activity of sol-gel derived TiO ₂ films. 2009 , 44, 2637-2646	14
1913	Effect of TiO ₂ surface modification in Rhodamine B photodegradation. 2009 , 49, 95-100	57

1912	Photocatalytic degradation of Orange II by titania addition to sol-gel glasses. 2009 , 50, 314-320	6
1911	NaNbO ₃ Nanostructures: Facile Synthesis, Characterization, and Their Photocatalytic Properties. 2009 , 132, 205-212	89
1910	Photocatalysis of Ag Doped TiO _x Films Prepared at Room Temperature. 2009 , 132, 244-247	6
1909	Photooxidation Products of Ethanol During Photoelectrochemical Operation Using a Nanocrystalline Titania Anode and a Two Compartment Chemically Biased Cell. 2009 , 129, 344-349	28
1908	Study of photocatalytic activity of Cd-doped mesoporous nanocrystalline TiO ₂ prepared at low temperature. 2009 , 35, 705-715	15
1907	The effects of the crystallization rate of the mesoporous TiO ₂ on the stability of the mesoporous structure after reflux. 2009 , 35, 693-703	
1906	A Study of the Photocatalytic Oxidation of Humic Acid on Anatase and Mixed-phase Anatase/Rutile TiO ₂ Nanoparticles. 2009 , 9, 237-243	23
1905	Characteristics and photocatalytic degradation of methyl orange on Ti-RH-MCM-41 and TiO ₂ /RH-MCM-41. 2009 , 26, 1556-1562	8
1904	First-principles calculations on implanted TiO ₂ by 3d transition metal ions. 2009 , 52, 838-842	15
1903	TiO ₂ -based building materials: Above and beyond traditional applications. 2009 , 54, 1137-1142	33
1902	Synthesis of silica supported titania nanocomposite in controllable phase content and morphology. 2009 , 95, 555-562	7
1901	Formation of hydrophilic and photocatalytically active TiO ₂ thin films by plasma based ion implantation and deposition. 2009 , 206, 71-77	6
1900	Highly stable re-dispersibility of nanocrystalline TiO ₂ observed during anatase/rutile phase transformation. 2009 , 206, 1520-1524	2
1899	Adverse effects of titanium dioxide nanoparticles on human dermal fibroblasts and how to protect cells. 2009 , 5, 511-20	157
1898	Photocatalytically Active Titania Layers: Production at Ambient Temperature and Characterisation of Biological Properties. 2009 , 6, 440-445	3
1897	Raman spectroscopic study of the framework structure of amorphous mesoporous titania. 2009 , 119, 267-275	23
1896	The study of Iron (III) and nitrogen co-doped mesoporous TiO ₂ photocatalysts: synthesis, characterization and activity. 2009 , 121, 52-57	98
1895	Verified syntheses of mesoporous materials. 2009 , 125, 170-223	502

1894	Effects of urea on the microstructure and photocatalytic activity of bimodal mesoporous titania microspheres. 2009 , 313, 107-113	26
1893	N ion irradiation enhancement of photocatalytic activity of TiO ₂ . 2009 , 267, 1654-1657	8
1892	Investigation of nucleation and phase formation of photocatalytically active TiO ₂ films by MePBIID. 2009 , 267, 1658-1661	4
1891	Synthesis of immobilized TiO ₂ nanowires by anodic oxidation and their gas phase photocatalytic properties. 2009 , 11, 1692-1695	29
1890	Properties of sol-gel SnO ₂ /TiO ₂ electrodes and their photoelectrocatalytic activities under UV and visible light illumination. 2009 , 54, 1304-1311	68
1889	Enhanced visible light photocurrent generation at surface-modified TiO ₂ nanotubes. 2009 , 54, 2640-2646	85
1888	Characterization of thin TiO ₂ films prepared by plasma enhanced chemical vapour deposition for optical and photocatalytic applications. 2009 , 517, 5409-5414	60
1887	Photo-fixation of SO ₂ in nanocrystalline TiO ₂ films prepared by reactive DC magnetron sputtering. 2009 , 518, 1341-1344	16
1886	Description of TiO ₂ thin films treated in NH ₃ atmosphere by optical dispersion models. 2009 , 517, 6694-6699	11
1885	Photo-degradation activity of sputter-deposited nitrogen-doped titania thin films. 2009 , 518, 1040-1043	4
1884	Photoinduced superhydrophilicity and photocatalytic properties of ZnO nanoplatelets. 2009 , 203, 2041-2045	47
1883	Photocatalytic degradation of gaseous 1-propanol using an annular reactor: kinetic modelling and pathways. 2009 , 161, 1173-81	47
1882	Synthesis of nanoporous graphite-derived carbon/TiO ₂ /BiO ₂ composites by a mechanochemical intercalation method. 2009 , 118, 496-502	9
1881	Electrospinning preparation, characterization and photocatalytic properties of Bi ₂ O ₃ nanofibers. 2009 , 333, 242-8	168
1880	Effect of PEG on rheology and stability of nanocrystalline titania hydrosols. 2009 , 337, 81-7	49
1879	Mechanisms involved in the platinization of sol-gel-derived TiO ₂ thin films. 2009 , 202, 214-220	12
1878	Photocatalytic H ₂ production from water splitting under visible light irradiation using Eosin Y-sensitized mesoporous-assembled Pt/TiO ₂ nanocrystal photocatalyst. 2009 , 190, 513-524	94
1877	Design and investigation of photo-induced super-hydrophilic materials for car mirrors. 2009 , 30, 3428-3435	24

1876	Photodegradation of phenol by UV/TiO ₂ and Vis/N,C-TiO ₂ processes: Comparative mechanistic and kinetic studies. 2009 , 68, 90-96	60
1875	A quantitative method of photoadsorption determination for irradiated catalyst in liquid-solid system. 2009 , 143, 189-194	9
1874	Photocatalytic behaviour of Bi ₂ MO ₆ polymetalates for rhodamine B degradation. 2009 , 143, 274-281	80
1873	Visualization of the three-dimensional microstructure of TiO ₂ nanotubes by electron tomography. 2009 , 143, 225-229	21
1872	Reactivity and antimicrobial properties of nanostructured titanium dioxide. 2009 , 143, 218-224	63
1871	Wetting angles and photocatalytic activities of illuminated TiO ₂ thin films. 2009 , 143, 347-354	45
1870	Synthesis of Ti _{1-x} Sn _x O ₂ nanosized photocatalysts in reverse microemulsions. 2009 , 143, 230-236	24
1869	Efficient production of hydrogen by photo-induced reforming of glycerol at ambient conditions. 2009 , 144, 75-80	200
1868	Adsorption and photo-oxidation of 3,4-dihydroxy-cinnamic acid on TiO ₂ films. 2009 , 144, 149-153	6
1867	Oxygen vacancies and OH species in rutile and anatase TiO ₂ polymorphs. 2009 , 144, 177-182	60
1866	Hybrid photocatalysts for the degradation of trichloroethylene in air. 2009 , 143, 302-308	35
1865	Macroporous anatase titania particle: Aerosol self-assembly fabrication with photocatalytic performance. 2009 , 152, 293-296	35
1864	Effects of rf-power and working pressure on formation of rutile phase in rf-sputtered TiO ₂ thin film. 2009 , 35, 1281-1284	13
1863	Correlation between sintering conditions and water contact angles for TiO ₂ thick films screen printed on an alumina substrate. 2009 , 35, 1063-1069	4
1862	Synthesis and photocatalytic properties of dense and porous TiO ₂ -anatase thin films prepared by sol-gel. 2009 , 86, 1-7	158
1861	Synthesis of visible light-active nanostructured TiO _x (x = 2009, 86, 145-151	35
1860	Photocatalytic degradation of sulfa drugs with TiO ₂ , Fe salts and TiO ₂ /FeCl ₃ in aquatic environment: Kinetics and degradation pathway. 2009 , 90, 516-525	84
1859	Influence of sulfur on the structural, surface properties and photocatalytic activity of sulfated TiO ₂ . 2009 , 90, 633-641	47

1858	Ti 3p electrons: Core or valence?. 2009 , 471, 75-79	9
1857	Solar photocatalytic degradation of commercial textile azo dyes: Performance of pilot plant scale thin film fixed-bed reactor. 2009 , 246, 344-352	51
1856	Enhanced visible light-induced photoelectrocatalytic degradation of phenol by carbon nanotube-doped TiO ₂ electrodes. 2009 , 54, 3884-3891	163
1855	Development of copper-doped TiO ₂ photocatalyst for hydrogen production under visible light. 2009 , 34, 1652-1661	300
1854	Single wall carbon nanohorns coated with anatase titanium oxide. 2009 , 47, 1321-1326	24
1853	Synthesis of titania/carbon nanotube heterojunction arrays for photoinactivation of E. coli in visible light irradiation. 2009 , 47, 3280-3287	215
1852	Direct hydro-alcohol thermal synthesis of special core-shell structured Fe-doped titania microspheres with extended visible light response and enhanced photoactivity. 2009 , 85, 162-170	105
1851	Boosting TiO ₂ -anatase antimicrobial activity: Polymer-oxide thin films. 2009 , 89, 441-447	72
1850	Fast adsorptive and photocatalytic purification of air from acetone and dimethyl methylphosphonate by TiO ₂ aerosol. 2009 , 89, 602-612	35
1849	Enhanced photocatalytic activity of rutile TiO ₂ prepared by anodic oxidation in a high concentration sulfuric acid electrolyte. 2009 , 90, 255-261	75
1848	One step activation of WO _x /TiO ₂ nanocomposites with enhanced photocatalytic activity. 2009 , 91, 397-405	197
1847	TiO ₂ nanotubes and CNT/TiO ₂ hybrid materials for the photocatalytic oxidation of propene at low concentration. 2009 , 92, 377-383	141
1846	Influence of the OH groups on the photocatalytic activity and photoinduced hydrophilicity of microwave assisted sol-gel TiO ₂ film. 2009 , 255, 8054-8062	144
1845	Comparison of the substrate dependent performance of Pt-, Au- and Ag-doped TiO ₂ photocatalysts in H ₂ -production and in decomposition of various organics. 2009 , 98, 215-225	53
1844	Elektronenspinresonanz Eine Methode zur Bewertung der Radikalaktivität auf photokatalytischen Implantatoberflächen. 2009 , 21, 22-29	0
1843	Photodeposition of CdS Quantum Dots on TiO ₂ : Preparation, Characterization, and Reaction Mechanism. 2009 , 113, 16711-16716	80
1842	Deposition of an oxomanganese water oxidation catalyst on TiO ₂ nanoparticles: computational modeling, assembly and characterization. 2009 , 2, 230	71
1841	Intrinsic Hole Migration Rates in TiO ₂ from Density Functional Theory. 2009 , 113, 346-358	146

1840	Photocatalysis. A multi-faceted concept for green chemistry. 2009 , 38, 1999-2011	811
1839	Sm ³⁺ -Doped Bi ₂ O ₃ Photocatalyst Prepared by Hydrothermal Synthesis. 2009 , 1, 492-496	61
1838	Photoinduced activation of CO ₂ on Ti-based heterogeneous catalysts: Current state, chemical physics-based insights and outlook. 2009 , 2, 745	578
1837	Photocatalytic properties of electric-explosion-produced TiO ₂ nanopowder. 2009 , 82, 1351-1356	2
1836	Nanodisperse photocatalysts based on titanium dioxide. 2009 , 83, 1371-1375	10
1835	Synthesis and Photocatalytic Activity of Calcium Antimony Oxide Hydroxide for the Degradation of Dyes in Water. 2009 , 113, 13825-13831	61
1834	Chemical State of Nitrogen and Visible Surface and Schottky Barrier Driven Photoactivities of N-Doped TiO ₂ Thin Films. 2009 , 113, 13341-13351	58
1833	Nanocrystallization of Anatase or Rutile TiO ₂ by Laser Treatment. 2009 , 113, 15343-15345	11
1832	TiO ₂ film/Cu ₂ O microgrid heterojunction with photocatalytic activity under solar light irradiation. 2009 , 1, 2111-4	91
1831	Niobate Nanosheets as Catalysts for Photochemical Water Splitting into Hydrogen and Hydrogen Peroxide. 2009 , 113, 479-485	118
1830	Photodegradation of phenanthrene by N-doped TiO ₂ photocatalyst. 2009 , 44, 841-6	16
1829	Highly stable molecular layers on nanocrystalline anatase TiO ₂ through photochemical grafting. 2009 , 25, 10676-84	37
1828	Oxygen Diffusion and Photon-Induced Decomposition of Acetone on Zr- and Nb-Doped TiO ₂ Nanoparticles. 2009 , 113, 3810-3818	18
1827	Photochemical grafting and patterning of biomolecular layers onto TiO ₂ thin films. 2009 , 1, 1013-22	34
1826	Biocidal capability optimization in organic-inorganic nanocomposites based on titania. 2009 , 43, 1630-4	21
1825	Effect of sintering temperature on the photocatalytic activities and stabilities of hematite and silica-dispersed hematite particles for organic degradation in aqueous suspensions. 2009 , 25, 2895-9	34
1824	Photocatalytic lithography of poly(propylene sulfide) block copolymers: toward high-throughput nanolithography for biomolecular arraying applications. 2009 , 25, 1238-44	12
1823	Formation and diffusion of water dimers on rutile TiO ₂ (110). 2009 , 102, 226101	80

1822	Anatase vs. rutile efficiency on the photocatalytic degradation of clofibric acid under near UV to visible irradiation. 2009 , 8, 705-11	47
1821	Structure of Reduced Ultrathin TiO _x Polar Films on Pt(111). 2009 , 113, 5721-5729	60
1820	Iron-doped Pt-TiO ₂ nanotubes for photo-catalytic water splitting. 2009 , 20, 055602	43
1819	From Isolated Ag ⁺ Ions to Aggregated Ag ⁰ Nanoclusters in Silver-Exchanged Engelhard Titanosilicate (ETS-10) Molecular Sieve: Reversible Behavior. 2009 , 21, 1343-1353	40
1818	Anomalous Photocathodic Behavior of CdS within the Urbach Tail Region. 2009 , 113, 6774-6784	41
1817	Plasmonic Nanoparticle/Polymer Nanocomposites with Enhanced Photocatalytic Antimicrobial Properties. 2009 , 113, 9182-9190	56
1816	Surface-catalysed reactions on pollutant-removing building products for indoor use. 2009 , 75, 476-82	30
1815	Synthesis of sulfur-doped TiO ₂ by solvothermal method and its visible-light photocatalytic activity. 2009 , 471, L23-L25	28
1814	Direct continuous hydrothermal synthesis of high surface area nanosized titania. 2009 , 476, 451-456	73
1813	Synthesis and photocatalytic properties of Sn-doped TiO ₂ nanotube arrays. 2009 , 482, 382-387	65
1812	Investigation of phase transformations and photocatalytic properties of sol-gel prepared nanostructured ZnO/TiO ₂ composites. 2009 , 486, 805-808	69
1811	Photocatalytic removal of C.I. Basic Red 46 on immobilized TiO ₂ nanoparticles: artificial neural network modelling. 2009 , 30, 1155-68	79
1810	Development of alternative photocatalysts to TiO ₂ : Challenges and opportunities. 2009 , 2, 1231	1024
1809	Efficient Photocatalytic Degradation of Organic Compounds by Ilmenite AgSbO ₃ under Visible and UV Light Irradiation. 2009 , 113, 12483-12488	72
1808	Rational design and applications of highly efficient reaction systems photocatalyzed by noble metal nanoparticle-loaded titanium(IV) dioxide. 2009 , 38, 1849-58	295
1807	Enhanced Photoelectrocatalytic Activity of Methanol Oxidation on TiO ₂ -Decorated Nanoporous Gold. 2009 , 113, 16138-16143	86
1806	UV Raman Spectroscopic Study on TiO ₂ . II. Effect of Nanoparticle Size on the Outer/Inner Phase Transformations. 2009 , 113, 1698-1704	98
1805	Photocatalytic oxidation of paracetamol: dominant reactants, intermediates, and reaction mechanisms. 2009 , 43, 460-5	165

1804	Microfabricated formaldehyde gas sensors. 2009 , 9, 9196-215	52
1803	Suspensions of modified TiO ₂ nanoparticles with supreme UV filtering ability,. 2009 , 19, 8176	13
1802	Synergetic Codoping in Fluorinated Ti _{1-x} ZrxO ₂ Hollow Microspheres. 2009 , 113, 10712-10717	74
1801	Wetting Angles on Illuminated Ta ₂ O ₅ Thin Films with Controlled Nanostructure. 2009 , 113, 3775-3784	29
1800	Self-Organized Anodic TiO ₂ Nanotube Arrays Functionalized by Iron Oxide Nanoparticles. 2009 , 21, 662-672	126
1799	Spectroscopic Investigation of the Anatase-to-Rutile Transformation of Sol-Gel-Synthesized TiO ₂ Photocatalysts. 2009 , 113, 16151-16157	187
1798	Unusual compression behavior of anatase TiO ₂ nanocrystals. 2009 , 103, 075505	57
1797	Low-temperature synthesis and characterization of TiO ₂ and TiO ₂ -ZrO ₂ photocatalytically active thin films. 2009 , 8, 657-62	19
1796	Structural and luminescent properties of europium doped TiO ₂ thick films synthesized by the ultrasonic spray pyrolysis technique. 2009 , 42, 095102	19
1795	First-Principles Band Calculations on Electronic Structures of Ag-Doped Rutile and Anatase TiO ₂ . 2009 , 26, 077106	24
1794	Coexistence of several structural phases in MOCVD TiO ₂ layers: evolution from nanometre to micrometre thick films. 2009 , 42, 175302	10
1793	Efficient Photocatalytic Activity of PZT/TiO ₂ Heterojunction under Visible Light Irradiation. 2009 , 113, 14264-14269	49
1792	Visible light-induced photocatalytic reaction of gold-modified titanium(IV) oxide particles: action spectrum analysis. 2009 , 241-3	351
1791	Efficient degradation of benzene over LaVO ₄ /TiO ₂ nanocrystalline heterojunction photocatalyst under visible light irradiation. 2009 , 43, 4164-8	246
1790	Comparison of Size-Dependent Structural and Electronic Properties of Anatase and Rutile Nanoparticles. 2009 , 113, 6367-6380	79
1789	First principles study of the photo-oxidation of water on tungsten trioxide (WO ₃). 2009 , 130, 114701	85
1788	Effect of thermal oxidation on titanium oxides' characteristics. 2009 , 4, 365-372	35
1787	Hierarchically organized nanostructured TiO ₂ for photocatalysis applications. 2009 , 20, 015604	113

1786	Experimental evidence for electron localization on Au upon photo-activation of Au/anatase catalysts. 2009 , 11, 2708-14	41
1785	On the origin of visible light activity in carbon-modified titania. 2009 , 8, 264-9	106
1784	Highly enhanced photocatalytic degradation of tetramethylammonium on the hybrid catalyst of titania and MCM-41 obtained from rice husk silica. 2009 , 91, 157-164	52
1783	Efficient fabrication and photocatalytic properties of TiO ₂ hollow spheres. 2009 , 10, 650-654	67
1782	The comparison of photocatalytic activity of Fe-salts, TiO ₂ and TiO ₂ /FeCl ₃ during the sulfanilamide degradation process. 2009 , 10, 811-814	18
1781	Synthesis of mesoporous TiO ₂ nanorods via a mild template-free sonochemical route and their photocatalytic performances. 2009 , 10, 1766-1770	34
1780	Janus nanostructures based on Au-TiO ₂ heterodimers and their photocatalytic activity in the oxidation of methanol. 2009 , 1, 2060-5	109
1779	Enhancement photocatalytic activity of ZnO nanoparticles by silver doping with optimization of photodeposition method parameters. 2009 , 44, 666-72	24
1778	Photoelectrocatalytic materials for environmental applications. 2009 , 19, 5089	791
1777	Enhanced photocatalytic degradation properties of nitrogen-doped titania nanotube arrays. 2009 , 19, 1583-1587	34
1776	Sensitization of TiO ₂ with Aluminum Phthalocyanine: Factors Influencing the Efficiency for Chlorophenol Degradation in Water under Visible Light. 2009 , 113, 12387-12394	80
1775	Enhanced Photocatalytic Activity of Ag ₃ VO ₄ Loaded with Rare-Earth Elements under Visible-Light Irradiation. 2009 , 48, 10771-10778	77
1774	Preparation of TiO ₂ nanocrystallites by oxidation of Ti-Au ₁₁₁ surface alloy. 2009 , 9, 2378-83	22
1773	Evaluation of photocatalytic activity of anatase/hydroxyapatite composite granules for environmental purification. 2009 , 117, 1172-1174	8
1772	Preparation of Co-doped TiO ₂ for Photocatalytic Degradation of NO _x in Air under Visible Light. 2009 , 12,	4
1771	Assembled surface-anisotropic colloids as a template for a multistage catalytic membrane reactor. 2009 , 1, 1747-54	19
1770	Thin Layers of Photocatalytic TiO ₂ Prepared by Inkjet Printing of a Sol-gel Precursor. 2010 , 13,	7
1769	Photocatalytic Activities and Crystal Structures of Titanium Dioxide by Anodization: Their Dependence upon Current Density. 2010 , 51, 1443-1448	11

1768	UV-A and Simulated Sunlight Photo-activity of TiO ₂ Nanoparticles Formed from Titanate Nanotubes. 2010 , 63, 293	2
1767	Reactors Using Alternative Energy Forms for Green Synthetic Routes and New Functional Products. 2010 , 289-308	1
1766	Titania solid solution nanoparticles co-doped with niobium and gallium. 2010 , 118, 1170-1175	7
1765	Electronic structure and the optical and photocatalytic properties of anatase doped with vanadium and carbon. 2010 , 52, 271-280	23
1764	Increasing the efficiency of deep photocatalytic oxidation of organic vapors under the action of negative atmospheric corona discharge. 2010 , 2, 118-125	1
1763	Exceptional Photocatalytic Activity of Ordered Mesoporous Bi ₂ O ₃ Thin Films and Electrospun Nanofiber Mats. 2010 , 22, 3079-3085	186
1762	Shape and size controlled synthesis of anatase nanocrystals with the assistance of ionic liquid. 2010 , 26, 5129-34	33
1761	TiO ₂ -graphene nanocomposites for gas-phase photocatalytic degradation of volatile aromatic pollutant: is TiO ₂ -graphene truly different from other TiO ₂ -carbon composite materials?. 2010 , 4, 7303-14	1455
1760	Improved TiO ₂ photocatalytic reduction by the intrinsic electrostatic potential of BN nanotubes. 2010 , 5, 1220-4	44
1759	Surface structural transformation and the phase transition kinetics of brookite TiO ₂ . 2010 , 5, 2158-61	25
1758	Visible-light-induced photocatalysis through surface plasmon excitation of gold on titania surfaces. 2010 , 12, 2344-55	457
1757	Ta ₂ O ₅ - and TiO ₂ -based nanostructures made by atomic layer deposition. 2010 , 21, 035301	16
1756	Anatase thin films by ultrasonic spray pyrolysis. 2010 , 88, 98-101	15
1755	Cation site environment in ultrathin TiO _x films grown on Pt(1 1 1) probed by X-ray absorption spectroscopy at the Ti 2p edge. 2010 , 604, 366-371	7
1754	Selective photoreduction of nitrobenzene to aniline on TiO ₂ nanoparticles modified with amino acid. 2010 , 178, 994-8	42
1753	Low-temperature hydrothermal synthesis of highly photoactive mesoporous spherical TiO ₂ nanocrystalline. 2010 , 71, 507-510	19
1752	Preparation and characterization of nanocrystalline TiO ₂ thin films. 2010 , 174, 102-104	43
1751	Alcohol induced liquid-phase synthesis of rutile titania nanotubes. 2010 , 172, 114-120	32

1750	Visible light active TiO ₂ films prepared by electron beam deposition of noble metals. 2010 , 268, 550-554	10
1749	Antimicrobial polyurethane synthetic leather coating with In-situ generated Nano-TiO ₂ . 2010 , 11, 689-694	24
1748	Electrical properties of TiO ₂ : equilibrium vs dynamic electrical conductivity. 2010 , 16, 673-679	5
1747	Role of Surface Area, Primary Particle Size, and Crystal Phase on Titanium Dioxide Nanoparticle Dispersion Properties. 2011 , 6, 27	435
1746	Facile preparation of transparent monolithic titania gels utilizing a chelating ligand and mineral salts. 2010 , 53, 59-66	30
1745	Qualitative investigations of the photocatalytic dye destruction by TiO ₂ -coated polyester fabrics. 2010 , 55, 177-185	23
1744	Stable hydrosols for TiO ₂ coatings. 2010 , 56, 250-263	45
1743	Triblock copolymer-templated synthesis of porous TiO ₂ and its photocatalytic activity. 2010 , 12, 2895-2906	25
1742	In situ generated gas bubble-assisted modulation of the morphologies, photocatalytic, and magnetic properties of ferric oxide nanostructures synthesized by thermal decomposition of iron nitrate. 2010 , 12, 3025-3037	56
1741	Photocatalytic Activity of Microwave Plasma-Synthesized TiO ₂ Nanopowder. 2010 , 30, 461-470	6
1740	CLEAN WATER: water detoxification using innovative photocatalysts. 2010 , 9, 87-94	61
1739	Photocatalytic activity of (sulfur, nitrogen)-codoped mesoporous TiO ₂ thin films. 2010 , 36, 27-37	24
1738	Synthesis of Fe ³⁺ doped ordered mesoporous TiO ₂ with enhanced visible light photocatalytic activity and highly crystallized anatase wall. 2010 , 36, 83-93	27
1737	Catalytic and photocatalytic activity of lightly doped catalysts M:ZnO (M=Cu, Mn). 2010 , 123, 563-568	68
1736	Investigations on the photocatalytic activity of sol-gel derived plain and Fe ³⁺ /Nb ⁵⁺ -doped titania coatings on glass substrates. 2010 , 124, 63-68	21
1735	Photocatalytic degradation activity of titanium dioxide sol-gel coatings on stainless steel wire meshes. 2010 , 124, 1225-1231	40
1734	Preparation of Fe-doped TiO ₂ nanotube arrays and their photocatalytic activities under visible light. 2010 , 45, 224-229	74
1733	Facile preparation of TiO ₂ nanostructures by direct annealing of the Ti foil. 2010 , 64, 2392-2394	5

1732	Preparation of DNA-adsorbed TiO ₂ particles--augmentation of performance for environmental purification by increasing DNA adsorption by external pH regulation. 2010 , 408, 480-5	20
1731	A simple method for producing mesoporous anatase TiO ₂ nanocrystals with elevated photovoltaic performance. 2010 , 62, 223-226	26
1730	Pristine and supported ZnO-based catalysts for phenazopyridine degradation with direct solar light. 2010 , 12, 578-586	38
1729	Rutile and its applications in earth sciences. 2010 , 102, 1-28	291
1728	Removal of natural organic matter from drinking water by advanced oxidation processes. 2010 , 80, 351-65	454
1727	Initial photocatalytic degradation intermediates/pathways of 17alpha-ethynylestradiol: effect of pH and methanol. 2010 , 81, 92-9	25
1726	Adsorption of proline and glycine on the TiO ₂ (110) surface: a density functional theory study. 2010 , 11, 1053-61	51
1725	Structure of glancing incidence deposited TiO ₂ (2) thin films as revealed by grazing incidence small-angle X-ray scattering. 2010 , 11, 2205-8	24
1724	Hydrogen production over titania-based photocatalysts. 2010 , 3, 681-94	349
1723	Self-Assembling TiO ₂ Nanorods on Large Graphene Oxide Sheets at a Two-Phase Interface and Their Anti-Recombination in Photocatalytic Applications. 2010 , 20, 4175-4181	675
1722	Metal Oxide Nanoparticles. 2010 , 1-76	2
1721	Nanoparticle-Assembled Catalysts for Photochemical Water Splitting. 507-521	2
1720	Fundamental Reactions on Rutile TiO ₂ (110) Model Photocatalysts Studied by High-Resolution Scanning Tunneling Microscopy. 91-122	1
1719	Preparation of Pd (0) and Pd (II) nanotubes and nanoparticles on modified bentonite and their catalytic activity in oxidation of ethyl benzene to acetophenone. 2010 , 381, 121-131	38
1718	N- and/or W-(co)doped TiO ₂ -anatase catalysts: Effect of the calcination treatment on photoactivity. 2010 , 95, 238-244	66
1717	Photocatalytic degradation of bisphenol-A by nitrogen-doped TiO ₂ hollow sphere in a vis-LED photoreactor. 2010 , 95, 414-422	125
1716	Removal of recalcitrant pollutants from wastewater. 2010 , 256, 5434-5438	13
1715	Synthesis and bactericidal ability of Ag/TiO ₂ composite films deposited on titanium plate. 2010 , 257, 974-978	72

1714	Zirconium-doped and silicon-doped TiO ₂ photocatalysts synthesis from ionic-liquid-like precursors. 2010 , 344, 327-33	22
1713	Low-temperature and one-step synthesis of rutile TiO ₂ aqueous sol by heterogeneous nucleation method. 2010 , 345, 181-6	24
1712	Separation of photo-active nano-crystalline anatase from titanate nanotubes. 2010 , 346, 43-7	4
1711	Self-assembly of polyoxometalate-azure A multilayer films and their photocatalytic properties for degradation of methyl orange under visible light irradiation. 2010 , 350, 562-7	20
1710	Sonophotocatalytic degradation of monocrotophos using TiO ₂ and Fe ³⁺ . 2010 , 177, 944-9	83
1709	Combined advanced oxidation processes for the synergistic degradation of ibuprofen in aqueous environments. 2010 , 178, 202-8	214
1708	Nonaqueous seeded growth of flower-like mixed-phase titania nanostructures for photocatalytic applications. 2010 , 183, 1917-1924	28
1707	Microwave hydrothermal synthesis and photocatalytic activity of AgIn ₅ S ₈ for the degradation of dye. 2010 , 183, 2466-2474	35
1706	Synthesis and studies on photochromic properties of vanadium doped TiO ₂ nanoparticles. 2010 , 209, 68-73	45
1705	Adsorption and photocatalytic bleaching of acid orange 7 on P25 titania. 2010 , 216, 261-267	19
1704	Photoreaction of ethanol on Au/TiO ₂ anatase: Comparing the micro to nanoparticle size activities of the support for hydrogen production. 2010 , 216, 250-255	80
1703	Photocatalytic bleaching of p-nitrosodimethylaniline and a comparison to the performance of other AOP technologies. 2010 , 216, 244-249	53
1702	Synthesis and structural characteristics of nitrogen doped TiO ₂ aerogels. 2010 , 132, 80-86	37
1701	Synthesis of Cu ²⁺ doped mesoporous titania and investigation of its photocatalytic ability under visible light. 2010 , 134, 108-114	40
1700	A visible light active photocatalyst: Nano-composite with Fe-doped anatase TiO ₂ nanoparticles coupling with TiO ₂ (B) nanobelts. 2010 , 326, 1-7	41
1699	Photoinduced formation of reactive oxygen species in suspensions of titania mechanochemically synthesized from TiCl ₄ . 2010 , 327, 101-109	17
1698	A facile one-step approach to visible-light-sensitive vanadium-doped TiO ₂ hollow microspheres. 2010 , 172, 142-145	7
1697	Optical and photocatalytic properties of titanium-manganese mixed oxides. 2010 , 175, 48-55	20

1696	Titanium dioxide/amine hybrid nanotubes. Optical properties and behavior as lithium ion electrode. 2010 , 55, 1373-1379	5
1695	Photo-electro catalytic oxidation of aromatic alcohols on visible light-absorbing nitrogen-doped TiO ₂ . 2010 , 55, 7788-7795	38
1694	Low temperature atomic layer deposition of titania thin films. 2010 , 518, 3182-3189	52
1693	Densification of amorphous sol-gel TiO ₂ films: An X-ray reflectometry study. 2010 , 518, 3748-3753	7
1692	Photocatalytic and antibacterial properties of TaON/Ag nanocomposite thin films. 2010 , 518, 7263-7266	20
1691	In-situ X-ray diffraction studies of time and thickness dependence of crystallization of amorphous TiO ₂ thin films and stress evolution. 2010 , 519, 1649-1654	20
1690	Effects of NiTiO ₃ nanoparticles supported by mesoporous MCM-41 on photoreduction of methylene blue under UV and visible light irradiation. 2010 , 47, 685-694	34
1689	Study of bactericidal efficiency of magnetron sputtered TiO ₂ films deposited at varying oxygen partial pressure. 2010 , 205, 1611-1617	19
1688	Dissociative and molecular oxygen chemisorption channels on reduced rutile TiO ₂ (110): An STM and TPD study. 2010 , 604, 1945-1960	116
1687	The effect of sputtering gas pressure on structure and photocatalytic properties of nanostructured titanium oxide self-cleaning thin film. 2010 , 85, 400-405	20
1686	Nanoengineering with residual catalyst from CNT templates. 2010 , 58, 4406-4413	18
1685	Adsorbent as an essential participant in photocatalytic processes of water and air purification: Computer simulation study. 2010 , 377, 140-149	14
1684	Visible-light photocatalytic activity of gold nanoparticles supported on template-synthesized mesoporous titania for the decontamination of the chemical warfare agent Soman. 2010 , 99, 191-197	96
1683	Understanding the solar photo-catalytic activity of TiO ₂ /TiO nanocomposite deposited on low cost substrates. 2010 , 256, 2170-2175	14
1682	Influence of the heating temperature on the properties of nickel doped TiO ₂ films prepared by sol-gel method. 2010 , 256, 4538-4542	12
1681	Photocatalytic degradation of stearic acid by ZnO thin films and nanostructures deposited by different chemical routes. 2010 , 151, 34-38	47
1680	Photocatalytic-based strategies for H ₂ S elimination. 2010 , 151, 64-70	53
1679	Transition metal nanoparticle catalysis in green solvents. 2010 , 254, 1179-1218	350

1678	A comparative study between photocatalytic and photoelectrocatalytic properties of Pt deposited TiO ₂ thin films for glucose degradation. 2010 , 158, 482-488	31
1677	Gas-phase photocatalysis in reactors. 2010 , 160, 738-741	28
1676	Factors affecting diclofenac decomposition in water by UV-A/TiO ₂ photocatalysis. 2010 , 161, 53-59	136
1675	Antibacterial properties, in vitro bioactivity and cell proliferation of titania/wollastonite composites. 2010 , 36, 513-519	16
1674	Impact of Si and Zr addition on the surface defect and photocatalytic activity of the nanocrystalline TiO ₂ synthesized by the solvothermal method. 2010 , 36, 1439-1446	8
1673	Channelled optical fibre photoreactor for improved air quality control. 2010 , 65, 882-889	27
1672	Prediction of photocatalytic air purifier apparatus performances with a CFD approach using experimentally determined kinetic parameters. 2010 , 65, 5067-5074	25
1671	Computational fluid dynamics modelling and optimal configuring of a channelled optical fibre photoreactor. 2010 , 65, 5029-5040	10
1670	Biogenic N-P-codoped TiO ₂ : synthesis, characterization and photocatalytic properties. 2010 , 101, 6829-35	46
1669	Photocatalytic oxidation for antimicrobial control in built environment: A brief literature overview. 2010 , 45, 1747-1754	76
1668	Application of photo-impinging streams reactor in degradation of phenol in aqueous phase. 2010 , 253, 57-61	31
1667	Photocatalytic removal of 2,4,6-trichlorophenol from water exploiting commercial ZnO powder. 2010 , 263, 176-182	60
1666	Validation of a newly developed FTIR in situ reactor: Real time study of photocatalytic degradation of nitric oxide. 2010 , 53, 469-473	14
1665	Properties of TiO ₂ -based transparent conducting oxides. 2010 , 207, 1529-1537	135
1664	Influence of TiO ₂ Nanoparticles on Early C3S Hydration. 2010 , 93, 3399-3405	109
1663	Photodegradation of methanol under UV-visible irradiation by titania dispersed on polyester cloth. 2010 , 86, 241-6	10
1662	Fabrication and Characterization of Hydrophilic TiO ₂ Thin Films on Unheated Substrates Prepared by Pulsed DC Reactive Magnetron Sputtering. 2010 , 2010, 1-7	7
1661	Photocatalytical Properties of TiO ₂ Nanotubes. 2010 , 162, 295-328	27

- 1660 The Preparation of TiO₂ Film Loaded on Fiberglass Mesh and the Experimental Study on Its Photocatalytic Properties. **2010**, 150-151, 1421-1424 3
- 1659 Photodegradation of Ammonia by TiO₂ Nanoparticles Produced by Flame CVD Process. **2010**, 152-153, 391-394
- 1658 The fabrication of CNTs/TiO₂ photoanodes for sensitive determination of organic compounds. **2010**, 21, 485503 12
- 1657 Synthesis and Photocatalytic Performance of Novel Visible-Light-Driven Bi₂WO₆ Photocatalyst via a Reverse Microemulsion Process. **2010**, 105-106, 837-840 5
- 1656 Photocatalytic Activity of F-/ SiO₂/TiO₂ Nanowires. **2010**, 177, 284-286
- 1655 Antiphotocorrosive photocatalysts containing CdS nanoparticles and exfoliated TiO₂ nanosheets. **2010**, 25, 182-188 40
- 1654 Photocatalytic Deposition of Nickel Nanoparticles on Titanium Dioxide. **2010**, 1279, 1 2
- 1653 Visible Light-Responsive Titanium Oxide Photocatalysts: Preparations Based on Chemical Methods. **2010**, 277-299
- 1652 Purification of Toxic Compounds in Water and Treatment of Polymeric Materials. **2010**, 345-402 4
- 1651 Photocatalytic Application of TiO₂ for Air Cleaning. **2010**, 415-436
- 1650 Photoreactions of Organic Compounds with TiO₂ Single Crystal Surfaces. **2010**, 503-524 2
- 1649 Photo-Catalytic Activity of Quencher Impurity Doped ZnS Nanocrystals. **2010**, 93-94, 288-291 1
- 1648 Titanium Dioxide Photocatalysts: Performance Related Properties. **2010**, 162, 329-335 1
- 1647 Study on Sono-photocatalytic Degradation of Chlorobenzene in Wastewater. **2010**, 1 1
- 1646 Surface nanostructuring of TiO₂ thin films by high energy ion irradiation. **2010**, 82, 26
- 1645 Efficient preparation of polymer-based hollow spheres for the photocatalytic degradation of methylene blue. **2010**, 16, 272-276 3
- 1644 Comparison of TiO₂/RH-MCM-41 and TiO₂/TEOS-MCM-41 Hybrid Catalysts in Characteristics and Photodegradation of Tetramethylammonium. **2010**, 93-94, 22-26 1
- 1643 AB INITIO APPROACH TO STRUCTURAL, ELECTRONIC AND OPTICAL PROPERTIES OF B-, C- AND N-DOPED ANATASE. **2010**, 24, 6049-6067 13

1642	Structural properties characterization of TiO ₂ thin films prepared by sol-gel process on Si and Ge based substrates. 2010 ,	
1641	Surface Modified Titania Visible Light Photocatalyst Powders. 2010 , 162, 49-75	13
1640	Deposition rate of anatase films by ultrasonic spray pyrolysis. 2010 , 109, 196-199	5
1639	Characterisation of titanium oxide films by potentiodynamic polarisation and electrochemical impedance spectroscopy. 2010 , 45, 428-434	29
1638	Highly Stable Dispersibility in Water Induced by Surface Hydration Force of TiO ₂ Nanocrystalline Mixtures During Phase Transformation. 2010 , 31, 260-263	
1637	Thin Film Deposition Using Energetic Ions. 2010 , 3, 4109-4141	61
1636	Fundamentals and applications of the photocatalytic treatment for the removal of industrial organic pollutants and effects of operational parameters: A review. 2010 , 2, 042701	41
1635	Oxygen migration in TiO ₂ -based higher-k gate stacks. 2010 , 107, 054102	17
1634	Ab initio approach to the excited electron dynamics in rutile and anatase TiO ₂ . 2010 , 22, 435802	23
1633	Mesoporous Titania (A) Nanoparticles Prepared by a Solvothermally Treated Organic Small Molecule System: Formation Mechanism and Behavior in Photocatalysis and Dye-Sensitized Solar Cells. 2010 , 114, 1444-1450	21
1632	Carbon nanotube-inorganic hybrids. 2010 , 110, 1348-85	703
1631	Fluorine- and iron-modified hierarchical anatase microsphere photocatalyst for water cleaning: facile wet chemical synthesis and wavelength-sensitive photocatalytic reactivity. 2010 , 26, 4546-53	45
1630	Photocatalytic H ₂ Evolution over TiO ₂ Nanoparticles. The Synergistic Effect of Anatase and Rutile. 2010 , 114, 2821-2829	307
1629	TUD-1: synthesis and application of a versatile catalyst, carrier, material□ 2010 , 20, 642-658	82
1628	DFT Study on Anatase TiO ₂ Nanowires: Structure and Electronic Properties As Functions of Size, Surface Termination, and Morphology. 2010 , 114, 12389-12400	46
1627	Deep versus Shallow Behavior of Intrinsic Defects in Rutile and Anatase TiO ₂ Polymorphs. 2010 , 114, 21694-21704	126
1626	Adsorption and Photoinduced Decomposition of Acetone and Acetic Acid on Anatase, Brookite, and Rutile TiO ₂ Nanoparticles. 2010 , 114, 14121-14132	143
1625	Aerosol-assisted production of mesoporous titania microspheres with enhanced photocatalytic activity: the basis of an improved process. 2010 , 2, 1663-73	44

- 1624 A Systematic Study of the Effect of Silver on the Chelation of Formic Acid to a Titanium Precursor and the Resulting Effect on the Anatase to Rutile Transformation of TiO₂. **2010**, 114, 13026-13034 65
- 1623 Mechanism of aerobic visible light formic acid oxidation catalyzed by poly(tri-s-triazine) modified titania. **2010**, 9, 31-8 29
- 1622 Platinum-nanoparticle-modified TiO₂ nanowires with enhanced photocatalytic property. **2010**, 2, 3373-7 99
- 1621 Inactivation and mineralization of aerosol deposited model pathogenic microorganisms over TiO₂ and Pt/TiO₂. **2010**, 44, 5121-6 46
- 1620 Cluster Study of the Photo-Oxidation of Water on Rutile Titanium Dioxide (TiO₂). **2010**, 114, 1701-1708 71
- 1619 Epitaxial Growth and Orientational Dependence of Surface Photochemistry in Crystalline TiO₂ Rutile Films Doped with Nitrogen. **2010**, 114, 6595-6601 17
- 1618 Direct Observation of Site-Specific Molecular Chemisorption of O₂ on TiO₂(110). **2010**, 1, 3524-3529 63
- 1617 Self-assembly of poly(ethylene glycol)-poly(alkyl phosphonate) terpolymers on titanium oxide surfaces: synthesis, interface characterization, investigation of nonfouling properties, and long-term stability. **2010**, 26, 74-82 85
- 1616 Enhanced Bonding of Silver Nanoparticles on Oxidized TiO₂(110) **2010**, 114, 16964-16972 20
- 1615 Integrated photocatalytic filtration array for indoor air quality control. **2010**, 44, 5558-63 27
- 1614 Reactivity between Titanium Dioxide and Water at Elevated Temperatures. **2010**, 114, 18215-18221 18
- 1613 Synthesis and functionalities of noble metal nanoparticles formed through simple all-inorganic photochemical procedures. **2010**, 5, 221-243 6
- 1612 Hybrid TiO₂/BiMgOX Composite for Combined Chemisorption and Photocatalytic Elimination of Gaseous H₂S. **2010**, 49, 6685-6690 20
- 1611 Membrane-Assisted Charge Separation and Photocatalytic Activity in Embedded TiO₂: A Kinetic and Mechanistic Study. **2010**, 114, 15755-15762 15
- 1610 Cathodoluminescence evaluation of oxygen vacancy population in nanostructured titania thin films for photocatalytic applications. **2010**, 114, 5295-8 8
- 1609 Comparative Study in Liquid-Phase Heterogeneous Photocatalysis: Model for Photoreactor Scale-Up. **2010**, 49, 8397-8405 17
- 1608 Reversible visible-light photooxidation of an oxomanganese water-oxidation catalyst covalently anchored to TiO₂ nanoparticles. **2010**, 114, 14214-22 55
- 1607 Photoreaction of the rutile TiO₂(011) single-crystal surface: reaction with acetic acid. **2010**, 26, 6411-7 48

1606	Tunable photocatalytic selectivity of hollow TiO ₂ microspheres composed of anatase polyhedra with exposed {001} facets. 2010 , 132, 11914-6	935
1605	One-step hydrothermal fabrication and photocatalytic activity of surface-fluorinated TiO ₂ hollow microspheres and tabular anatase single micro-crystals with high-energy facets. 2010 , 12, 872-879	226
1604	Structural and textural characterization of sol-gel prepared nanoscale titanium-chromium mixed oxides. 2010 , 356, 1282-1287	10
1603	On electrical and photoconductive properties of mixed Nb ₂ O ₅ /TiO ₂ sol-gel thin films. 2010 , 356, 2042-2048	17
1602	Optical and photocatalytic properties of nanoparticulate (TiO ₂) _x (ZnO) _{1-x} powders. 2010 , 489, L17-L21	17
1601	Influence of anodisation voltage on the dimension of titania nanotubes. 2010 , 503, 359-364	65
1600	Synthesis of carbon-modified TiO ₂ nanotube arrays for enhancing the photocatalytic activity under the visible light. 2010 , 501, L8-L11	29
1599	Titanium in subduction zone fluids: First insights from ab initio molecular metadynamics simulations. 2010 , 74, 2797-2810	18
1598	Photocatalytic production of superoxide ion in the aqueous suspensions of two kinds of ZnO under simulated solar light. 2010 , 12, 169-172	65
1597	Comparison of photocatalytic degradation of natural organic matter in two Australian surface waters using multiple analytical techniques. 2010 , 41, 124-129	58
1596	Interaction of <i>Chrysosporium merdarium</i> with titanium oxide surface. 2010 , 160, 906-910	6
1595	Sol-gel synthesis of linear Sn-doped TiO ₂ nanostructures. 2010 , 20, 498-503	48
1594	Evaluating Intrinsic Photocatalytic Activities of Anatase and Rutile TiO ₂ for Organic Degradation in Water. 2010 , 114, 18911-18918	124
1593	New Insight for Enhanced Photocatalytic Activity of TiO ₂ by Doping Carbon Nanotubes: A Case Study on Degradation of Benzene and Methyl Orange. 2010 , 114, 2669-2676	473
1592	One-Step Synthesis of Bifunctional TiO ₂ Catalysts and Their Photocatalytic Activity. 2010 , 114, 7940-7948	63
1591	Influence of operational parameters on photodegradation of Acid Black 1 with ZnO. 2010 , 24, 132-139	84
1590	Energy-efficient photodegradation of azo dyes with TiO ₂ nanoparticles based on photoisomerization and alternate UV-visible light. 2010 , 44, 1107-11	69
1589	Visible-light absorption and photocatalytic activity in molybdenum- and nitrogen-codoped TiO ₂ . 2010 , 11, 331-335	62

1588	Effect of excited state redox properties of dye sensitizers on hydrogen production through photo-splitting of water over TiO ₂ photocatalyst. 2010 , 11, 336-339	53
1587	Ultrasound assisted photocatalytic degradation of diclofenac in an aqueous environment. 2010 , 80, 747-52	109
1586	First principles study of the size effect of TiO ₂ anatase nanoparticles in dye-sensitized solar cell. 2010 , 18, 025004	28
1585	Photoinduced Superparamagnetism in Nanostructured γ -Fe ₂ O ₃ . 2010 , 1, 2488-2492	17
1584	Direct aromatic-ring amination by aqueous ammonia with a platinum loaded titanium oxide photocatalyst. 2010 , 46, 8854-6	33
1583	PDMS bonding to organically-modified solid surface using photocatalyst for fabricating low-cost plastic microchip. 2010 ,	
1582	Systematic Control of Monoclinic CdWO ₄ Nanophase for Optimum Photocatalytic Activity. 2010 , 114, 1512-1519	80
1581	Study on the anatase to rutile phase transformation and controlled synthesis of rutile nanocrystals with the assistance of ionic liquid. 2010 , 26, 10294-302	76
1580	Nanosized Photocatalysts in Environmental Remediation. 2010 , 51	1
1579	Titanium Dioxide Photocatalyst - Unresolved Problems. 2010 , 162, 77-90	5
1578	Wetting properties of polycrystalline TiO ₂ surfaces: a scaling approach to the roughness factors. 2010 , 26, 15875-82	35
1577	Effects of annealing on the microstructures and photoactivity of fluorinated N-doped TiO ₂ . 2010 , 12, 12308-15	92
1576	Hydroxide ions at the water/anatase TiO ₂ (101) interface: structure and electronic states from first principles molecular dynamics. 2010 , 26, 11518-25	72
1575	Visible light photo-induced antibacterial activity of CNTdoped TiO ₂ thin films with various CNT contents. 2010 , 20, 7386	193
1574	Kinetic Study of Acetaldehyde Photocatalytic Oxidation with a Thin Film of TiO ₂ Coated on Stainless Steel and CFD Modeling Approach. 2010 , 49, 6890-6897	23
1573	Cyclohexane selective photocatalytic oxidation by anatase TiO ₂ : influence of particle size and crystallinity. 2010 , 12, 2744-50	43
1572	CuO(x)-TiO ₂ photocatalysts for H ₂ production from ethanol and glycerol solutions. 2010 , 114, 3916-25	218
1571	Molecular Precursor Route to a Metastable Form of Zinc Oxide. 2010 , 22, 4263-4270	51

1570	Photocatalytic activity of titanium dioxide modified by silver nanoparticles. 2010 , 2, 1945-53	141
1569	Enhanced photoinduced surface reactivity of mesoporous titania modified with benzene siloxane. 2010 , 46, 6729-31	4
1568	Adsorption Geometry of Anthracene and 4-Bromobiphenyl on TiO ₂ (110) Surfaces. 2010 , 114, 19419-19424	14
1567	A preliminary study on antifungal effect of TiO ₂ -based paints in natural indoor light. 2010 , 12, 53-57	14
1566	On the microstructure of thin films grown by an isotropically directed deposition flux. 2010 , 108, 064316	28
1565	High-k/metal gate innovations enabling continued CMOS scaling. 2011 ,	6
1564	Ultraviolet response and photoelectrochemical properties of a rutile and anatase mixture grown onto single-wall carbon nanotubes at a low temperature using nano-cluster deposition. 2011 , 21, 16473	8
1563	Synthesis of ZnO nanorod grafted TiO ₂ nanotube 3-D arrayed heterostructure as supporting platform for nanoparticle deposition. 2011 , 21, 14056	31
1562	High-k / metal gate innovations enabling continued CMOS scaling. 2011 ,	18
1561	Preparation and characterization of rose-like NiO nanostructures. 2011 , 13, 5094	31
1560	Three-dimensional high-density hierarchical nanowire architecture for high-performance photoelectrochemical electrodes. 2011 , 11, 3413-9	210
1559	Ultraviolet-Induced Grafting of Alkenes to TiO ₂ Surfaces: Controlling Multilayer Formation. 2011 , 115, 17102-17110	22
1558	Photochemical Properties, Composition, and Structure in Molecular Beam Epitaxy Grown Fe Doped and (Fe,N) Codoped Rutile TiO ₂ (110). 2011 , 115, 15416-15424	25
1557	Application of KZnF ₃ as a Single Source Precursor for the Synthesis of Nanocrystals of ZnO ₂ :F and ZnO:F; Synthesis, Characterization, Optical, and Photocatalytic Properties. 2011 , 115, 10131-10139	22
1556	Highly selective GaN-nanowire/TiO ₂ -nanocluster hybrid sensors for detection of benzene and related environment pollutants. 2011 , 22, 295503	52
1555	Hierarchical Bi ₇ O ₉ I ₃ micro/nano-architecture: facile synthesis, growth mechanism, and high visible light photocatalytic performance. 2011 , 1, 1099	135
1554	N3-dye-induced visible laser anatase-to-rutile phase transition on mesoporous TiO ₂ films. 2011 , 27, 9094-9	15
1553	Effect of Hydrogen on Semiconducting Properties of TiO ₂ Single Crystal. Jonker Analysis. 2011 , 115, 18316-18326	8

1552	Photoelectrocatalytic Degradation of Methylene Blue Over M-CNT/TiO ₂ (M=Y, Ag, and Pt) Composite Electrodes. 2011 , 19, 564-574	8
1551	Fluctuation-Induced Tunneling Conductivity in Nanoporous TiO ₂ Thin Films. 2011 , 2, 1931-1936	16
1550	Theoretical Study of the Molecular and Electronic Structures of TiO ₄ H ₄ , Ti ₂ O ₇ H ₆ , and Ti ₂ O ₆ H ₄ . 2011 , 115, 1635-1642	7
1549	Semiconducting Properties of Oxidized and Reduced Polycrystalline TiO ₂ . Jonker Analysis. 2011 , 115, 9746-9752	5
1548	Synthesis, Structural Correlations, and Photocatalytic Properties of TiO ₂ Nanotube/SnO ₂ Nanoparticle Heterostructures. 2011 , 115, 1600-1607	34
1547	Reactivity of Rutile with Oxygen and Hydrogen and Related Charge Transfer. 2011 , 115, 15345-15354	8
1546	Electronic basis of visible region activity in high area Sn-doped rutile TiO ₂ photocatalysts. 2011 , 13, 7882-91	44
1545	Photocatalytic Degradation of Rhodamine B on Anatase, Rutile, and Brookite TiO ₂ . 2011 , 32, 983-991	64
1544	Extending the family of titanium heterometallic-oxo-alkoxy cages. 2011 , 50, 5655-62	44
1543	Photocatalytic Degradation of Water Pollutants Using Nano-TiO ₂ . 2011 , 625-677	10
1542	Active and Intelligent Packaging Materials. 2011 , 629-644	11
1541	Nanostructured Materials for Photolytic Hydrogen Production. 2011 , 441-486	3
1540	Structural Defects in W-Doped TiO ₂ (101) Anatase Surface: Density Functional Study. 2011 , 115, 16970-16976	31
1539	Nanostructure Packaging Technologies. 2011 , 240-265	0
1538	Photocatalytic patterning and modification of graphene. 2011 , 133, 2706-13	160
1537	A novel tungsten trioxide (WO ₃)/ITO porous nanocomposite for enhanced photo-catalytic water splitting. 2011 , 13, 19553-60	32
1536	Inorganic Photochemical Synthesis. 2011 , 129-150	1
1535	Magnetically separable nanocomposites with photocatalytic activity under visible light for the selective transformation of biomass-derived platform molecules. 2011 , 13, 2750	80

1534	Reduced graphene oxide as capturer of dyes and electrons during photocatalysis: surface wrapping and capture promoted efficiency. 2011 , 13, 13216-21	89
1533	Self-cleaning fibers via nanotechnology: a virtual reality. 2011 , 21, 7858	132
1532	Synthesis of reduced graphene oxide-anatase TiO ₂ nanocomposite and its improved photo-induced charge transfer properties. 2011 , 3, 1640-5	154
1531	Nanocomposites of TiO ₂ and Reduced Graphene Oxide as Efficient Photocatalysts for Hydrogen Evolution. 2011 , 115, 10694-10701	545
1530	An enhanced CdS/TiO ₂ photocatalyst with high stability and activity: Effect of mesoporous substrate and bifunctional linking molecule. 2011 , 21, 4945	142
1529	Real-Time Optical Waveguide Measurements of Dye Adsorption into Nanocrystalline TiO ₂ Films with Relevance to Dye-Sensitized Solar Cells. 2011 , 115, 613-619	19
1528	Zinc oxide nanorod mediated visible light photoinactivation of model microbes in water. 2011 , 22, 215703	89
1527	Visible Light Absorption of N-Doped TiO ₂ Rutile Using (LR/RT)-TDDFT and Active Space EOMCCSD Calculations. 2011 , 2, 2696-2701	24
1526	Sunlight-driven plasmonic photocatalysts based on Ag/AgCl nanostructures synthesized via an oil-in-water medium: enhanced catalytic performance by morphology selection. 2011 , 21, 16413	127
1525	Improved photocatalytic activity of WO ₃ through clustered Fe ₂ O ₃ for organic degradation in the presence of H ₂ O ₂ . 2011 , 27, 9359-66	72
1524	Strong Coupling of Cr and N in Cr ^{III} -doped TiO ₂ and Its Effect on Photocatalytic Activity. 2011 , 115, 17392-17399	68
1523	A mesoporous WN co-doped titania nanomaterial with enhanced photocatalytic aqueous nitrate removal activity under visible light. 2011 , 1, 609	38
1522	Ti(IV) doped WO ₃ nanocuboids: fabrication and enhanced visible-light-driven photocatalytic performance. 2011 , 3, 3695-9	62
1521	Photocatalytic Activity of Nanocomposite Catalyst Films Based on Nanocrystalline Metal/Semiconductors. 2011 , 115, 12033-12040	34
1520	TiO ₂ /AC Composites for Synergistic Adsorption-Photocatalysis Processes: Present Challenges and Further Developments for Water Treatment and Reclamation. 2011 , 41, 1173-1230	140
1519	Photocatalytic Membrane Contactors for Water Treatment. 2011 , 50, 6000-6008	17
1518	Unraveling the Photocatalytic Activity of Multiwalled Hydrogen Trititanate and Mixed-Phase Anatase/Trititanate Nanotubes: A Combined Catalytic and EPR Study. 2011 , 115, 2302-2313	21
1517	Effect of Cr incorporation on the structural and optoelectronic properties of TiO ₂ :Cr deposited by means of a magnetron co-sputtering process. 2011 , 257, 10351-10357	27

1516	Light-induced antifungal activity of TiO ₂ nanoparticles/ZnO nanowires. 2011 , 257, 10096-10100	25
1515	Preparation of heterostructured mesoporous In ₂ O ₃ /Ta ₂ O ₅ nanocomposites with enhanced photocatalytic activity for hydrogen evolution. 2011 , 12, 548-552	45
1514	Synthesis, characterization and photocatalytic activity of TiO ₂ supported natural palygorskite microfibers. 2011 , 52, 301-311	95
1513	Theoretical Investigation of the Hydrogenation of (TiO ₂) _N Clusters (N = 1-10). 2011 , 115, 15890-15899	60
1512	Micro-arc oxidation of TC4 substrates to fabricate TiO ₂ /YAG:Ce ³⁺ compound films with enhanced photocatalytic activity. 2011 , 509, L137-L141	32
1511	Structural, optical and hydrophilic properties of nanocrystalline TiO ₂ ultra-thin films prepared by pulsed dc reactive magnetron sputtering. 2011 , 509, 4520-4524	18
1510	Preparation and characterization of nano TiO ₂ /micron Cr ₂ O ₃ composite particles. 2011 , 509, 5017-5019	8
1509	Thermal treatment effect on structure, electrical conductivity and transient photoconductivity behavior of thiourea modified TiO ₂ sol-gel thin films. 2011 , 509, 7253-7258	19
1508	Preparation and characterization of platinum doped porous titania nanoparticles for photocatalytic oxidation of carbon monoxide. 2011 , 509, 10132-10138	55
1507	Carbon-sensitized and nitrogen-doped TiO ₂ for photocatalytic degradation of sulfanilamide under visible-light irradiation. 2011 , 45, 5015-26	111
1506	Preparation and photocatalytic activity of BiOCl catalyst. 2011 , 21, 2254-2258	36
1505	Photocatalytic degradation of Acid Red 1 dye using ZnO catalyst in the presence and absence of silver. 2011 , 27, 204-209	27
1504	TiO ₂ -B/anatase core-shell heterojunction nanowires for photocatalysis. 2011 , 3, 4444-50	149
1503	Enhanced Photocatalytic Activity and Electron Transfer Mechanisms of Graphene/TiO ₂ with Exposed {001} Facets. 2011 , 115, 23718-23725	212
1502	Explaining the High Photocatalytic Activity of a Mixed Phase TiO ₂ : A Combined Effect of O ₂ and Crystallinity. 2011 , 115, 21161-21168	84
1501	Field Effects in Plasmonic Photocatalyst by Precise SiO ₂ Thickness Control Using Atomic Layer Deposition. 2011 , 1, 300-308	141
1500	Synthesis of ₂ (M = Au, Pd, Pt) Core-Shell Nanocomposites with Tunable Photoreactivity. 2011 , 115, 9136-9145	523
1499	Photooxidation of atmospheric alcohols on laboratory proxies for mineral dust. 2011 , 45, 10004-12	22

1498	Distribution of Ti ³⁺ Surface Sites in Reduced TiO ₂ . 2011 , 115, 7562-7572	204
1497	Methylene bromide chemistry and photochemistry on rutile TiO ₂ (110). 2011 , 605, 1834-1841	3
1496	Photocatalytic degradation of humic acids and landfill leachate using a solid industrial by-product containing TiO ₂ and Fe. 2011 , 102, 172-179	36
1495	Visible light photocatalysis by metal halide complexes containing titania as a semiconductor ligand. 2011 , 371-393	7
1494	Formation and Characteristics of Anatase-Type Titania Solid Solution Nanoparticles Doped with Nb ⁵⁺ +M (M = Ga ³⁺ , Al ³⁺ , Sc ³⁺). 2011 , 18, 062010	
1493	(Photo)electrochemical Methods for the Determination of the Band Edge Positions of TiO ₂ -Based Nanomaterials. 2011 , 2011, 1-20	222
1492	Titanium oxide antibacterial surfaces in biomedical devices. 2011 , 34, 929-46	186
1491	CO ₂ utilisation by photocatalytic conversion to methane and methanol. 2011 , 3, 142	13
1490	Surfactants removal from water and wastewater using Co modified TiO ₂ /Al ₂ O ₃ photocatalysts. 2011 , 66,	2
1489	Optimization of Parameters for the Preparation of Au/TiO ₂ with Photodegradation of NPE-10 in Aqueous Solution. 2011 , 48, 200-204	
1488	Hydrothermal synthesis of yttrium and niobium co-doped anatase-type titania nanoparticles. 2011 , 119, 464-469	6
1487	Effect of Calcination Temperature and Environment on Photocatalytic and Mechanical Properties of Ultrathin Sol-Gel Titanium Dioxide Films. 2011 , 94, 1101-1108	12
1486	Sol-Gel Synthesis and Photo-Fenton-Like Catalytic Activity of EuFeO ₃ Nanoparticles. 2011 , 94, 3418-3424	68
1485	Hydrothermal Synthesis of Rutile-Type Complete Solid Solution Nanoparticles in the TiO ₂ /SnO ₂ System under Acidic Conditions. 2011 , 94, 3319-3326	11
1484	Synthesis of superfine titania via high-temperature hydrolysis of titanium(IV) bis(ammonium lactato) dihydroxide. 2011 , 441, 361-364	6
1483	Alternative natural dyes in water purification: Anthocyanin as TiO ₂ -sensitizer in methyl orange photo-degradation. 2011 , 13, 1268-1275	71
1482	Influence of auxiliary plasma source and ion bombardment on growth of TiO ₂ thin films. 2011 , 205, S232-S234	2
1481	A novel ozone detection at room temperature through UV-LED-assisted ZnO thick film sensors. 2011 , 520, 939-946	46

- 1480 Characterization of inhomogeneity in TiO₂ thin films prepared by pulsed dc reactive magnetron sputtering. **2011**, 520, 272-279 22
- 1479 Optical and hydrophilic properties of nanostructure Cu loaded brookite TiO₂ thin film. **2011**, 520, 1053-1056 11
- 1478 Photocatalytic degradation of nitrogen-containing organic compounds over TiO₂. **2011**, 351, 17-28 52
- 1477 The influence of platinum (II) on TiO₂ photocatalyzed dye decolourization by rutile, P25 and PC500. **2011**, 224, 31-37 8
- 1476 Response surface methodological approach for the assessment of the photocatalytic degradation of NOM. **2011**, 225, 26-35 17
- 1475 The effect of photon source on heterogeneous photocatalytic oxidation of ethanol by a silica/titania composite. **2011**, 225, 58-64 17
- 1474 Exfoliation and thermal transformations of Nb-substituted layered titanates. **2011**, 184, 3135-3143 9
- 1473 TiO₂ nanoparticles prepared without harmful organics: A biosafe and economical approach. **2011**, 18, 804-807
- 1472 Microstructural, optical and photocatalytic properties of CdS doped TiO₂ thin films. **2011**, 406, 4327-4331 18
- 1471 Effects of sintering temperature on physicochemical properties and photocatalytic activity of titanate nanotubes modified with sulfuric acid. **2011**, 214, 451-457 13
- 1470 Goethite hierarchical nanostructures: Glucose-assisted synthesis, chemical conversion into hematite with excellent photocatalytic properties. **2011**, 127, 371-378 55
- 1469 Solution growth of KDP single crystals doped with titanium dioxide nanoparticles. **2011**, 129, 777-782 18
- 1468 Iron promotion of the TiO₂ photosensitization process towards the photocatalytic oxidation of azo dyes under solar-simulated light irradiation. **2011**, 129, 1176-1183 25
- 1467 An aqueous sol-gel synthesis of chromium(III) doped mesoporous titanium dioxide for visible light photocatalysis. **2011**, 46, 914-921 69
- 1466 Synthesis of Sn-doped ZnO nanorods and their photocatalytic properties. **2011**, 46, 1107-1112 78
- 1465 Hydrothermal synthesis and properties of solid solutions and composite nanoparticles in the TiO₂/SnO₂ system. **2011**, 46, 1384-1390 24
- 1464 Effect of temperature on the growth of TiO₂ thin films synthesized by spray pyrolysis: Structural, compositional and optical properties. **2011**, 46, 2057-2063 34
- 1463 Preparation and hydrophilicity of TiO₂ sol-gel derived nanocomposite films modified with copper loaded TiO₂ nanoparticles. **2011**, 46, 2342-2345 9

1462	Characterisation and photocatalytic activity of structure-controlled spherical granules of an anatase/hydroxyapatite composite. 2011 , 46, 2283-2287	5
1461	Microwave-assisted synthesis and characterization of $Ti_{1-x}V_xO_2$ ($x=0.00-1.0$) nanopowders. 2011 , 65, 3047-3050	7
1460	Preparation of $InYO_3$ catalyst and its application in photodegradation of molasses fermentation wastewater. 2011 , 23, 1219-24	10
1459	Anatase nanocrystals with {103} and {112} facets by hydrothermal transformation of titanate nanotubes. 2011 , 6, 675	2
1458	Preparation of a TiO_2/MoS_2 nanoparticle-based composite by solvothermal method with enhanced photoactivity for the degradation of organic molecules in water under UV light. 2011 , 6, 932	44
1457	Efficient fabrication of ZrO_2 -doped TiO_2 hollow nanospheres with enhanced photocatalytic activity of rhodamine B degradation. 2011 , 364, 288-97	43
1456	Improving performance of dental resins by adding titanium dioxide nanoparticles. 2011 , 27, 972-82	71
1455	Importance of adsorption isotherms in defining performance of dye-sensitized solar cells fabricated from photoelectrodes composed of ZnO nanopowders and nanorods. 2011 , 56, 8873-8879	9
1454	Photocatalytic degradation of TCE in dry and wet air conditions with TiO_2 porous thin films. 2011 , 108-109, 14-21	35
1453	An experimental and modelling investigation of the effect of the flow regime on the photocatalytic degradation of methylene blue on a thin film coated ultraviolet irradiated spinning disc reactor. 2011 , 110, 14-24	37
1452	Formation of Cu_0 in Cu_2O under light irradiation and subsequent accelerated decoloration to MO aqueous solution. 2011 , 16, 175-179	5
1451	Photocatalytic degradation of dye pollutant over Ti and Co doped SBA-15: Comparison of activities under visible light. 2011 , 176-177, 265-271	22
1450	Sonophotocatalytic degradation of dinitrotoluenes and trinitrotoluene in industrial wastewater. 2011 , 172, 944-951	24
1449	Comparative investigation of hydrogen production over Ag-, Ni-, and Cu-loaded mesoporous-assembled TiO_2/ZrO_2 mixed oxide nanocrystal photocatalysts. 2011 , 173, 667-675	58
1448	Improved mineralization by combined advanced oxidation processes. 2011 , 174, 134-142	33
1447	Degradation of phenol by a combined independent photocatalytic and electrochemical process. 2011 , 175, 349-355	47
1446	Sonophotocatalytic degradation of Rhodamine B using a novel reactor geometry: Effect of operating conditions. 2011 , 178, 244-251	56
1445	Significance of analytical parameters for the understanding of natural organic matter in relation to photocatalytic oxidation. 2011 , 84, 1009-31	94

- 1444 Influence of excitation wavelength (UV or visible light) on the photocatalytic activity of titania containing gold nanoparticles for the generation of hydrogen or oxygen from water. **2011**, 133, 595-602 861
- 1443 Titanium Dioxide-Based Plastic Technologies. **2011**, 351-377
- 1442 Effect of Crystal Imperfections on Reactivity and Photoreactivity of TiO₂ (Rutile) with Oxygen, Water, and Bacteria. **2011**, 115, 15711-15738 75
- 1441 EPR spectroscopy in catalysis. **2012**, 321, 1-39 15
- 1440 Developmental toxicity of engineered nanoparticles. **2011**, 269-290 11
- 1439 Enhanced photocatalytic and adsorptive degradation of organic dyes by mesoporous Cu/Al₂O₃-MCM-41: intra-particle mesoporosity, electron transfer and OH radical generation under visible light. **2011**, 40, 7348-56 41
- 1438 Biomimetic synthesis of titania with chitosan-mediated phase transformation at room temperature. **2011**, 21, 10755 13
- 1437 Review on modified TiO₂ photocatalysis under UV/visible light: selected results and related mechanisms on interfacial charge carrier transfer dynamics. **2011**, 115, 13211-41 1497
- 1436 Characterization, activity and mechanisms of a visible light driven photocatalyst: Manganese and iron co-modified TiO₂ nanoparticles. **2011**, 85, 1825-1831 14
- 1435 Photocatalytic destruction of fulvic acids by oxygen in the TiO₂ suspension. **2011**, 33, 236-247 4
- 1434 Photocatalytic Titanium Dioxide Nanostructures for Self-Regenerating Relative Humidity Sensors. **2011**, 11, 1713-1719 6
- 1433 New insights in photo-patterned sol-gel-derived TiO₂ films. **2011**, 46, 1474-1486 26
- 1432 Anatase nanotubes synthesized by a template method and their application as a green photocatalyst. **2011**, 46, 2097-2104 18
- 1431 Review of the anatase to rutile phase transformation. **2011**, 46, 855-874 1940
- 1430 A review on nano-TiO₂ sol-gel type syntheses and its applications. **2011**, 46, 3669-3686 563
- 1429 Degradation of Cellulose Acetate-Based Materials: A Review. **2011**, 19, 152-165 318
- 1428 Photocatalytic Degradation of Poly(Vinyl Alcohol) on Pt/TiO₂ with Fenton Reagent. **2011**, 19, 966-970 17
- 1427 Comparison of the liquid and gas phase photocatalytic activity of flame-synthesized TiO₂ catalysts: the role of surface quality. **2011**, 102, 283-294 2

1426	Selective solar photocatalytic oxidation of ethylbenzene on C, N, and S doped TiO ₂ . 2011 , 37, 901-918	5
1425	Effects of diethanolamine on the evolution of silver/titanium dioxide sol-gel process. 2011 , 58, 148-155	21
1424	Effect of silver incorporation on crystallization and microstructural properties of sol-gel derived titania thin films on glass. 2011 , 58, 277-289	22
1423	Anti-soiling effect of porous SiO ₂ coatings prepared by sol-gel processing. 2011 , 59, 239-244	32
1422	Degradation of <i>Candida albicans</i> on TiO ₂ and Ag-TiO ₂ thin films prepared by sol-gel and nanosuspensions. 2011 , 60, 23-32	22
1421	Morphology modification of TiO ₂ nanotubes by controlling the starting material crystallite size for chemical synthesis. 2011 , 13, 2319-2327	6
1420	Formation of well-packed TiO ₂ nanoparticles on multiwall carbon nanotubes using CVD method to fabricate high sensitive gas sensors. 2011 , 13, 5257-5264	18
1419	Photoelectrochemical Hydrogen Production from Aqueous Solution Containing Cyanide Using Bi ₂ MnNbO ₇ (M = Al, Fe, Ga, In) Films on Stainless Steel as Photoanodes. 2011 , 54, 244-249	9
1418	Photocatalytic degradation of phenol with mesoporous TiO ₂ -Bx. 2011 , 9, 251-257	14
1417	Photocatalytic disinfection using titanium dioxide: spectrum and mechanism of antimicrobial activity. 2011 , 90, 1847-68	707
1416	Mechanistic pathways differences between P25-TiO(2) and Pt-TiO(2) mediated CV photodegradation. 2011 , 185, 227-35	89
1415	Anodic titanium oxide as immobilized photocatalyst in UV or visible light devices. 2011 , 186, 2103-9	51
1414	A new nano-TiO ₂ immobilized biodegradable polymer with self-cleaning properties. 2011 , 187, 199-205	49
1413	Preparation and characterization of photoactive composite kaolinite/TiO(2). 2011 , 188, 212-20	97
1412	Enhanced sorption and photodegradation of chlorophenol over fluoride-loaded TiO ₂ . 2011 , 192, 485-9	21
1411	TiO ₂ /MgAl layered double hydroxides mechanical mixtures as efficient photocatalysts in phenol degradation. 2011 , 72, 914-919	70
1410	Sterilization of microorganisms on jet spray formed titanium dioxide surfaces. 2011 ,	3
1409	Highly efficient photocatalytic oxidation of phenol over ordered mesoporous Bi ₂ WO ₆ . 2011 , 106, 559-564	44

1408	Low-cost polymer microfluidic device for on-chip extraction of bacterial DNA. 2011 , 155, 422-429	14
1407	High transmittance and superhydrophilicity of porous TiO ₂ /SiO ₂ bi-layer films without UV irradiation. 2011 , 205, 3596-3599	48
1406	Study of the effect of a silver nanoparticle seeding layer on the crystallisation temperature, photoinduced hydrophilic and catalytic properties of TiO ₂ thin films deposited on glass by magnetron sputtering. 2011 , 205, 3774-3778	25
1405	A surface science perspective on TiO ₂ photocatalysis. 2011 , 66, 185-297	1592
1404	Anti-fingerprints fluorinated coating for anodized titanium avoiding color alteration. 2011 , 8, 153-160	16
1403	Visible light photocatalytic properties of novel molybdenum treated carbon nanotube/titania composites. 2011 , 34, 543-549	3
1402	DFT calculations on structural and electronic properties of Bi ₂ MO ₆ (M = Cr, Mo, W). 2011 , 30, 166-172	46
1401	Preparation and characterization of porous TiO ₂ with La ₂ O ₃ load. 2011 , 30, 221-224	2
1400	A review of TiO ₂ nanoparticles. 2011 , 56, 1639-1657	798
1399	Structure and Photocatalytic Activity of Polythiophene/TiO ₂ Composite Particles Prepared by Photoinduced Polymerization. 2011 , 32, 536-545	36
1398	Influence of phonon confinement, surface stress, and zirconium doping on the Raman vibrational properties of anatase TiO ₂ nanoparticles. 2011 , 42, 2026-2035	30
1397	The effect of platinum on the performance of WO ₃ nanocrystal photocatalysts for the oxidation of Methyl Orange and iso-propanol. 2011 , 86, 1018-1023	44
1396	Supported Metal Oxide Nanosystems for Hydrogen Photogeneration: Quo Vadis?. 2011 , 21, 2611-2623	122
1395	Enhanced photoelectrochemical activity of the TiO ₂ /ITO nanocomposites grown onto single-walled carbon nanotubes at a low temperature by nanocluster deposition. 2011 , 23, 5557-62	28
1394	Photocatalytic H ₂ and Added-Value By-Products The Role of Metal Oxide Systems in Their Synthesis from Oxygenates. 2011 , 2011, 4309-4323	114
1393	Chronic exposure to nanosized, anatase titanium dioxide is not cyto- or genotoxic to Chinese hamster ovary cells. 2011 , 52, 614-22	39
1392	TiO ₂ -assisted Photocatalytic Degradation of Vitamin B12 in Aqueous Solution: Influencing Factors, Kinetics, and Reaction Investigations. 2011 , 29, 661-668	2
1391	Enhanced photoactivity in bilayer films with buried rutile-anatase heterojunctions. 2011 , 12, 191-6	18

1390	Heterogeneous photocatalytic reactions of sulfur aromatic compounds. 2011 , 12, 2870-85	28
1389	Electronic properties of vanadium-doped TiO ₂ . 2011 , 12, 3467-73	21
1388	A non-aqueous synthesis of TiO ₂ /SiO ₂ composites in supercritical CO ₂ for the photodegradation of pollutants. 2011 , 4, 1457-63	16
1387	Improved adhesion of TiO ₂ -based multilayer coating on HDPE and characterization of photocatalysis. 2011 , 119, 2235-2245	17
1386	Low-temperature synthesis of visible-light active fluorine/sulfur co-doped mesoporous TiO ₂ microspheres. 2011 , 17, 1096-100	41
1385	One-step and self-assembly based fabrication of Pt/TiO ₂ nanohybrid photocatalysts with programmed nanopatterns. 2011 , 17, 540-5	9
1384	In situ growth of TiO ₂ in interlayers of expanded graphite for the fabrication of TiO ₂ -graphene with enhanced photocatalytic activity. 2011 , 17, 8379-87	128
1383	Photocatalytic activity of TiO ₂ nanofibers in simulated and real municipal effluents. 2011 , 161, 147-152	28
1382	Physical and chemical properties of titanium dioxide printed layers. 2011 , 161, 97-104	37
1381	The application of titanium dioxide for deactivation of bioparticulates: An overview. 2011 , 169, 249-257	215
1380	Carbon nanotube/TiO ₂ thin films for photocatalytic applications. 2011 , 161, 91-96	76
1379	Degradation of organic pollutants in aquatic environment photoinduced by Fe(III)Cit complex: Impact of TiO ₂ . 2011 , 161, 127-132	8
1378	WO ₃ /TiO ₂ composite with morphology change via hydrothermal template-free route as an efficient visible light photocatalyst. 2011 , 166, 906-915	207
1377	Production of peroxide species in Pt/TiO ₂ suspensions under conditions of photocatalytic water splitting and glycerol photoreforming. 2011 , 170, 433-439	95
1376	Treatment of highly polluted paper mill wastewater by solar photocatalytic oxidation with synthesized nano TiO ₂ . 2011 , 168, 446-454	102
1375	Using the Box-Behnken design (BBD) to minimize the diameter of electrospun titanium dioxide nanofibers. 2011 , 169, 116-125	41
1374	Cr-doped perovskite and rutile pigments derived from industrial by-products. 2011 , 171, 1178-1184	10
1373	Selective oxidation of benzyl alcohol to benzaldehyde in water by TiO ₂ /Cu(II)/UV solar system. 2011 , 172, 243-249	57

1372	Dopant-free, polymorphic design of TiO ₂ nanocrystals by flame aerosol synthesis. 2011 , 66, 2409-2416	31
1371	Paper surfaces functionalized by nanoparticles. 2011 , 163, 23-38	141
1370	Photocatalytic degradation of mixed azo dyes in aqueous wastewater using mesoporous-assembled TiO ₂ nanocrystal synthesized by a modified sol-gel process. 2011 , 384, 519-528	49
1369	Photochemical synthesis and photocatalytic activity in simulated solar light of nanosized Ag doped TiO ₂ nanoparticle composite. 2011 , 42, 579-583	70
1368	Tailoring polymer-TiO ₂ film properties by presence of metal (Ag, Cu, Zn) species: Optimization of antimicrobial properties. 2011 , 104, 346-352	38
1367	Nanocomposite of Ag-AgBr-TiO ₂ as a photoactive and durable catalyst for degradation of volatile organic compounds in the gas phase. 2011 , 106, 445-452	192
1366	Preparation, structure and photo-catalytic performances of hybrid Bi ₂ SiO ₅ modified Si nanowire arrays. 2011 , 257, 5571-5575	29
1365	Influence of photo-induced superhydrophilicity of titanium dioxide nanoparticles on the anti-fouling performance of ultrafiltration membranes. 2011 , 257, 6175-6180	66
1364	Doping mode, band structure and photocatalytic mechanism of Bi-codoped TiO ₂ . 2011 , 257, 7335-7342	48
1363	Effect of calcination temperature on porous titania prepared from industrial titanyl sulfate solution. 2011 , 257, 8391-8395	16
1362	Photocatalytic reduction of Hg(II) on TiO ₂ and Ag/TiO ₂ prepared by the sol-gel and impregnation methods. 2011 , 270, 241-247	66
1361	Effects of monometallic and bimetallic Au-Ag supported on sol-gel TiO ₂ on photocatalytic degradation of 4-chlorophenol and its intermediates. 2011 , 272, 154-163	43
1360	Characterizations and photocatalytic activity comparisons of N-doped nc-TiO ₂ depending on synthetic conditions and structural differences of amine sources. 2011 , 36, 1243-1254	68
1359	Nanosheet-based titania microspheres with hollow core-shell structure encapsulating horseradish peroxidase for a mediator-free biosensor. 2011 , 32, 6588-94	73
1358	Carbonaceous nanomaterials for the enhancement of TiO ₂ photocatalysis. 2011 , 49, 741-772	967
1357	Visible light active Au:TiO ₂ nanocomposite photoanodes for water splitting: Sol-gel vs. sputtering. 2011 , 56, 1150-1158	30
1356	Probing the conduction band edge of transition metal oxides by X-ray absorption spectroscopy. 2011 , 183, 107-113	8
1355	First-principles calculations on electronic structures of Fe-vacancy-codoped TiO ₂ anatase (1 0 1) surface. 2011 , 406, 3841-3846	26

1354	Optical and structural properties of TiO ₂ thin films prepared by sol-gel spin coating. 2011 , 36, 4130-4133	55
1353	Synthesis of mesoporous-assembled TiO ₂ nanocrystals by a modified urea-aided sol-gel process and their outstanding photocatalytic H ₂ production activity. 2011 , 36, 6553-6559	37
1352	Photodeposited Pd nanoparticle catalysts supported on photoactivated TiO ₂ nanofibers. 2011 , 340, 89-98	30
1351	Effect of incorporation of titanium dioxide nanocrystals on bulk properties of KDP crystals. 2011 , 33, 623-630	25
1350	Influence of the triblock copolymer P123 and phosphorous on the physico-chemical properties of TiO ₂ . 2011 , 397, 241-249	8
1349	Delaminated titanate and peroxotitanate photocatalysts. 2011 , 105, 69-76	7
1348	Photocatalysis and photoelectrocatalysis using (CdS-ZnS)/TiO ₂ combined photocatalysts. 2011 , 107, 188-196	141
1347	Effect of cobalt doping and annealing on properties of titania thin films prepared by sol-gel process. 2011 , 257, 6897-6907	27
1346	Photocatalytic and superhydrophilicity properties of N-doped TiO ₂ nanothin films. 2011 , 257, 7179-7183	33
1345	Effect of co-dopant on the formation and properties of anatase-type titania solid solutions doped with niobium. 2011 , 72, 661-666	6
1344	Influence of particle size on the photoactivity of Ti/TiO ₂ thin film electrodes, and enhanced photoelectrocatalytic degradation of indigo carmine dye. 2011 , 217, 259-266	42
1343	Comparative study of the photodeposition of Pt, Au and Pd on pre-sulphated TiO ₂ for the photocatalytic decomposition of phenol. 2011 , 217, 275-283	145
1342	Photocatalytic destruction of gaseous toluene by porphyrin-sensitized TiO ₂ thin films. 2011 , 42, 470-479	12
1341	The effect of crystal lattice distortions on the electronic band structure and optical properties of the N,V- and N,Na-doped anatase. 2011 , 406, 3752-3758	10
1340	Inkjet printing of photocatalytically active TiO ₂ thin films from water based precursor solutions. 2011 , 31, 1067-1074	53
1339	Synergy between surface adsorption and photocatalysis during degradation of humic acid on TiO ₂ /activated carbon composites. 2011 , 186, 765-72	142
1338	Investigation of cation (Sn ²⁺) and anion (N ³⁻) substitution in favor of visible light photocatalytic activity in the layered perovskite K ₂ La ₂ Ti ₃ O ₁₀ . 2011 , 189, 502-8	52
1337	Increasing the catalytic activities of iodine doped titanium dioxide by modifying with tin dioxide for the photodegradation of 2-chlorophenol under visible light irradiation. 2011 , 189, 595-602	38

1336	Characterization and activity of mesoporous titanium dioxide beads with high surface areas and controllable pore sizes. 2011 , 190, 133-9	63
1335	Removal of aqueous As(III) and As(V) by hydrous titanium dioxide. 2011 , 353, 257-62	70
1334	Enhancement of the photocatalytic activity of TiO ₂ by doping it with calcium ions. 2011 , 357, 168-78	48
1333	Quantitative characterization of hydroxyl radicals produced by various photocatalysts. 2011 , 357, 163-7	527
1332	CFD modelling of an annular reactor, application to the photocatalytic degradation of acetone. 2011 , 89, 35-40	27
1331	UV stability of polyurethane binding agent on multilayer photocatalytic TiO ₂ coating. 2011 , 30, 381-389	12
1330	Mesoporous-assembled V ₂ O ₅ nanosheet synthesized via a surfactant-modified sol-gel technique and its photocatalytic H ₂ production activity under visible light irradiation. 2011 , 208, 37-41	30
1329	The mechanism of sonophotocatalytic degradation of methyl orange and its products in aqueous solutions. 2011 , 18, 974-80	87
1328	Solar/TiO ₂ photocatalytic decomposition of β -blockers atenolol and propranolol in water and wastewater. 2011 , 85, 1915-1926	85
1327	A comparative DFT study of adsorption and catalytic performance of Au nanoparticles at anatase and brookite TiO ₂ surfaces. 2011 , 605, 1369-1380	19
1326	Characterization of the aqueous peroxomethod for the synthesis of transparent TiO ₂ thin films. 2011 , 519, 3475-3479	8
1325	Optical and structural properties of nanocrystalline anatase (TiO ₂) thin films prepared by non-aqueous sol-gel dip-coating. 2011 , 519, 5882-5886	40
1324	Preparing thick, defect-free films of anatase titania for dye-sensitized solar cells. 2011 , 519, 6598-6604	6
1323	Photocatalytic Functional Coating of TiO ₂ Thin Film Deposited by Cyclic Plasma Chemical Vapor Deposition at Atmospheric Pressure. 2011 , 50, 085502	
1322	Low dark current metal-semiconductor-metal ultraviolet photodetectors based on sol-gel-derived TiO ₂ films. 2011 , 109, 023114	31
1321	Adsorption Isotherms in Defining Performance of Dye-Sensitized Solar Cells with Photoelectrodes of TiO ₂ and ZnO. 2011 , 158, B1417	
1320	Characterization and Photocatalytic Performance of Rb ⁺ -Doped TiO ₂ Photocatalysts. 2011 , 44, 203-210	6
1319	Partial oxidation (POX) processes and technology for clean fuel and chemical production. 2011 , 262-286	1

1318	Self-cleaning smart nanocoatings. 2011 , 397-413	6
1317	Photoactivated DNA Cleavage and Anticancer Activity of 3d Metal Complexes. 2011 , 119-202	2
1316	Relation between crystallinity and chemical nature of surface on wettability: A study on pulsed laser deposited TiO ₂ thin films. 2011 , 109, 123512	22
1315	N-Doped TiO ₂ Hollow Spheres with Enhanced Visible-Light Photocatalytic Activity for Water Purification. 2011 , 236-238, 1636-1639	
1314	Synthesis and Characterization of a Novel Netlike Nano-TiO ₂ with Polylactic Acid (PLA) as Template. 2011 , 233-235, 623-626	0
1313	Metal surface oxidation and surface interactions. 2011 , 102-142	5
1312	Study on Preparation and Optical Absorption of Ge Doped TiO ₂ Composite Thin Films by Sol-Gel Method. 2011 , 299-300, 558-561	3
1311	Studies on Effect of Refractory Chemicals on Cement Mortar. 2011 , 82, 184-189	
1310	Preparation of TiO ₂ Nanoparticles in the Solvothermal Method. 2011 , 474-476, 1672-1677	5
1309	Focused ion beam and transmission electron microscopy as a powerful tool to understand localized corrosion phenomena. 2011 , 29,	2
1308	Surfactant-Assisted Sol-Gel Synthesis of TiO ₂ with Uniform Particle Size Distribution. 2011 , 2011, 1-8	16
1307	Nb-substituted TiO ₂ Nanosheet Exfoliated from Layered Titanate for photocatalysis. 2011 , 1352, 103	
1306	Ab-initio Electronic and Structural Properties of Rutile Titanium Dioxide. 2011 , 50, 101103	29
1305	CORRELATION BETWEEN THE ELASTIC AND THE VIBRONIC BEHAVIOR OF NANOSTRUCTURED TITANIA AND THEIR PRESSURE, SIZE, AND TEMPERATURE DEPENDENCE. 2011 , 01, 407-416	
1304	Photoresponsive and Ultraviolet to Visible-Light Range Photocatalytic Properties of ZnO:Sb Nanowires. 2011 , 158, K6	36
1303	COMPOSITES OF THE TITANIA THIN FILMS IMPLANTED BY Ge AND Si. 2011 , 25, 1629-1635	3
1302	Thermally Stable Nanoporous Nanocrystalline TiO ₂ with a Bicrystalline (Anatase-Brookite) Framework Fabricated via Combining the Soft-Templating with Solid-Liquid Method. 2011 , 32, 692-701	4
1301	Strain engineering of the elasticity and the Raman shift of nanostructured TiO ₂ . 2011 , 110, 044322	26

1300	Comparative analysis of ZnO-catalyzed photo-oxidation of p-chlorophenols. 2011 , 2, 163-167	13
1299	Preparation of Crystalline Sn-Doped TiO ₂ and Its Application in Visible-Light Photocatalysis. 2011 , 2011, 1-5	23
1298	Configuration interaction study of the ground and excited states of TiO ₂ ring structures. 2011 , 134, 114701	4
1297	Photocatalytic Desulfurization of Waste Tire Pyrolysis Oil. 2011 , 4, 1880-1896	23
1296	Laser-based photo-oxidative degradation of methyl tertiary-butyl ether (MTBE) using zinc oxide (ZnO) catalyst. 2011 , 46, 1154-9	4
1295	Facile Synthesis and Photocatalytic Property of Titania/Carbon Composite Hollow Microspheres with Bimodal Mesoporous Shells. 2012 , 2012, 1-9	4
1294	Fabrication and Photocatalytic Activities of TiO ₂ Nanotube Arrays. 2012 , 460, 151-154	1
1293	The Self-Sterilized Properties of Ag@TiO ₂ -Styrene-Acrylic Complex Coatings. 2012 , 152-154, 485-488	
1292	Degrading Endocrine Disrupting Chemicals from Wastewater by Photocatalysis: A Review. 2012 , 2012, 1-23	98
1291	Effect of Oxygen and Hydrogen Peroxide on the Photocatalytic Degradation of Monochlorobenzene in Aqueous Suspension. 2012 , 2012, 1-9	45
1290	Photocatalytical Properties and Theoretical Analysis of N, Cd-Codoped TiO ₂ Synthesized by Thermal Decomposition Method. 2012 , 2012, 1-9	8
1289	Treatment of Pesticides in Wastewater by Heterogeneous and Homogeneous Photocatalysis. 2012 , 2012, 1-6	7
1288	The Contribution of Nanotechnology for Removal of Water Pollutants. 2012 , 712, 1-24	3
1287	Sol-Gel Processing and Characterization of Z-DL (Zirconium-Doped Lanthanum) Nanocrystallites for Substrate Coating. 2012 , 4, 225-229	2
1286	Photodegradation of Phenol over Flame-Made Sn-Doped ZnO Nanoparticles. 2012 , 16, 97-103	3
1285	Wet Chemical Synthesis of Molybdenum-Doped Amorphous TiO ₂ Nanoparticles and Studies on Their Photochromic Properties. 2012 , 4, 399-407	
1284	Photocatalytic water disinfection on oxide semiconductors: Part 1 Basic concepts of TiO ₂ photocatalysis. 2012 , 111, 4-15	18
1283	SWCNTs AS ELECTRON WITHDRAWERS IN NANOCRYSTALLINE ANATASE PHOTOCATALYSTS. 2012 , 07, 1250020	5

1282	Review on Transforming TiO ₂ into a Visible-Light- Responsive Catalyst for Water and Air Purification. 2012 ,	2
1281	Improvement of (004) texturing by slow growth of Nd doped TiO ₂ films. 2012 , 112, 113505	22
1280	Role of ethylene on surface oxidation of TiO ₂ (110). 2012 , 101, 211601	2
1279	Pentylcyanobiphenyl as Test Molecule for the Acid Sites of Powdered Titanium(IV) Oxides: Sensitivity of Core Levels to the Local Structure. 2012 , 562, 200-217	1
1278	Synthesis and Densification Studies of Nanocrystalline Titanium Dioxide Ceramics. 2012 , 129-137	
1277	Preparation and Photocatalytic Property of TiO ₂ /NiFe ₂ O ₄ Composite Photocatalysts. 2012 , 518-523, 775-779	1
1276	Antimicrobial natural fibres. 2012 , 428-466	10
1275	Dependence of activation energy and lattice strain on TiO ₂ nanoparticles?. 2012 , 1, 201-212	31
1274	Concept and validation of a fully automated photocatalytic test setup. 2012 , 17, 134-43	15
1273	Photocatalytic Decomposition of Amoxicillin Trihydrate Antibiotic in Aqueous Solutions under UV Irradiation Using Sn/TiO ₂ Nanoparticles. 2012 , 2012, 1-11	28
1272	Gel Oxidation of Titanium and Effect of UV Irradiation on Precipitation of Hydroxyapatite from Simulated Body Fluid. 2012 , 488-489, 1229-1237	4
1271	First-principles study of the electronic and optical properties of the (Y, N)-codoped anatase TiO ₂ photocatalyst. 2012 , 21, 033103	12
1270	Titanium Oxide Modeling and Design for Innovative Biomedical Surfaces: A Concise Review. 2012 , 35, 629-641	19
1269	Salt-assisted solution combustion synthesis of ZnFe ₂ O ₄ nanoparticles and photocatalytic activity with TiO ₂ (P25) as nanocomposite. 2012 , 120, 579-583	13
1268	Solution-derived photocatalytic films for environmental cleaning applications. 2012 , 30, 012001	2
1267	Study on kinetic of UV and solar assisted photocatalytic degradation of rhodamine B by TiO ₂ nanostructure layer. 2012 , 27, 261-266	8
1266	Nanostructured photochemical TiO ₂ thin film fabricated by magnetron sputtering on glass. 2012 , 05, 661-669	3
1265	More durable or more vulnerable? - Effect of nanoparticles on long-term performance of polymeric nanocomposites during UV exposure. 2012 , 1, 68	1

1264	Mesoporous titania: From synthesis to application. 2012 , 7, 344-366	230
1263	Graphene transforms wide band gap ZnS to a visible light photocatalyst. The new role of graphene as a macromolecular photosensitizer. 2012 , 6, 9777-89	591
1262	Synthesis of one-dimensional CdS@TiO ₂ core-shell nanocomposites photocatalyst for selective redox: the dual role of TiO ₂ shell. 2012 , 4, 6378-85	309
1261	Overview on oxidation mechanisms of organic compounds by TiO ₂ in heterogeneous photocatalysis. 2012 , 13, 224-245	219
1260	Hydrothermal Synthesis of Nb- and Eu- Co-Substituted Nanocrystalline Anatase: EuxTi _{1-x} NbxO ₂ with Photoluminescence and Photocatalytic Activity: Compositional Dependence of Multifunctional Properties. 2012 , 95, 3408-3414	7
1259	Simultaneous improvement of photocatalytic and superhydrophilicity properties of nano TiO ₂ thin films. 2012 , 90, 1473-1479	24
1258	A comparative study of the photocatalytic efficiency of Degussa P25, Qualigens, and Hombikat UV-100 in the degradation kinetic of congo red dye. 2012 , 46, 188-195	15
1257	Water and temperature effects on photo-selective catalytic reduction of nitric oxide on Pd-loaded TiO ₂ photocatalyst. 2012 , 33, 2133-41	8
1256	Evidence for the Active Species Involved in the Photodegradation Process of Methyl Orange on TiO ₂ . 2012 , 116, 3552-3560	277
1255	Development of titanium-dioxide-based aerogel catalyst with tunable nanoporosity and photocatalytic activity. 2012 , 23, 294012	10
1254	A comparative study on the photocatalytic efficiency of ZnO thin films prepared by spray pyrolysis and sol-gel method. 2012 , 207, 5-10	46
1253	Photoelectrocatalytic oxidation of phenol on platinum-modified TiO ₂ nanotubes. 2012 , 7, 482-485	5
1252	Photocatalytic TiO ₂ Macroscopic Fibers Obtained Through Integrative Chemistry. 2012 , 2012, 5350-5359	13
1251	Effect of deposition parameters on the photocatalytic activity and bioactivity of TiO ₂ thin films deposited by vacuum arc on Ti-6Al-4V substrates. 2012 , 100, 1078-85	21
1250	Photocatalytic and antimicrobial properties of surgical implant coatings of titanium dioxide deposited through cathodic arc evaporation. 2012 , 34, 2299-305	42
1249	Morphology-Controlled Synthesis and Applications of Silver Halide Photocatalytic Materials. 2012 , 16, 210-230	49
1248	Nanosphere assembled mesoporous titanium dioxide with advanced photocatalytic activity using absorbent cotton as template. 2012 , 47, 7210-7216	21
1247	Sol-gel preparation of pure and doped TiO ₂ films for the photocatalytic oxidation of ethanol in air. 2012 , 63, 526-536	8

1246	Thickness effects in naturally superhydrophilic TiO ₂ /BiO ₂ nanocomposite films deposited via a multilayer sol-gel route. 2012 , 64, 465-479	10
1245	Investigation of photocatalytic activity of metal-doped TiO ₂ nanoparticles prepared by Pechini method. 2012 , 64, 734-742	10
1244	The formation of titanium dioxide crystallite nanoparticles during activation of PAN nanofibers containing titanium isopropoxide. 2012 , 14, 1	8
1243	Block copolymers for the synthesis of pure and Bi-promoted nano-TiO ₂ as active photocatalysts. 2012 , 14, 1	16
1242	TiO ₂ Immobilized Biodegradable Polymer for Photocatalytic Removal of Chlorophenol. 2012 , 223, 3955-3964	21
1241	Comparison of methods for evaluation of activity of photocatalytic films. 2012 , 19, 3772-81	9
1240	Photocatalytic degradation of gaseous toluene by using immobilized titania/silica on aluminum sheets. 2012 , 19, 3735-42	27
1239	Anatase nanoparticles on supergene platinum-palladium aggregates from Brazil: Titanium mobility in natural waters. 2012 , 334, 182-188	10
1238	WO ₃ photocatalysts: Influence of structure and composition. 2012 , 294, 119-127	219
1237	Sprayed nanostructured TiO ₂ films for efficient photocatalytic degradation of textile azo dye. 2012 , 117, 19-26	21
1236	Synthesis and characterization of anatase TiO ₂ nanotubes with controllable crystal size by a simple MWCNT template method. 2012 , 196, 435-440	13
1235	Enhanced visible light activity of nano-titanium dioxide doped with multiple ions: Effect of crystal defects. 2012 , 196, 465-470	12
1234	A simple route for the preparation of P-modified TiO ₂ : Effect of phosphorus on thermal stability and photocatalytic activity. 2012 , 43, 132-139	33
1233	Oxidation of thin Ti films and its simultaneous hydrogenation by water vapor plasma. 2012 , 524, 133-136	5
1232	Atomic layer deposition of anatase TiO ₂ coating on silica particles: growth, characterization and evaluation as photocatalysts for methyl orange degradation and hydrogen production. 2012 , 22, 20203	19
1231	Hierarchical structured TiO ₂ nano-tubes for formaldehyde sensing. 2012 , 38, 6341-6347	49
1230	The manufacture of micropillars with high depth-to-width ratio, and the comparison between two typical materials. 2012 ,	
1229	A new route for the synthesis of methacrylic acid from 2-methyl-1,3-propanediol by integrating biotransformation and catalytic dehydration. 2012 , 14, 1942	31

1228	Synthesis of single-crystalline anatase nanorods and nanoflakes on transparent conducting substrates. 2012 , 48, 8565-7	38
1227	The synthesis of organo-soluble anatase nanocrystals from amorphous titania. 2012 , 48, 7453-5	6
1226	Nanostructured Titania: the current and future promise of Titania nanotubes. 2012 , 2, 1617	19
1225	Sunlight active antibacterial nanostructured N-doped TiO ₂ thin films synthesized by an ultrasonic spray pyrolysis technique. 2012 , 2, 10639	14
1224	Enhanced Dopant Solubility and Visible-Light Absorption in Cr ^{VI} Codoped TiO ₂ Nanoclusters. 2012 , 116, 311-318	66
1223	Rapid synthesis of Zn ²⁺ doped SnWO ₄ nanowires with the aim of exploring doping effects on highly enhanced visible photocatalytic activities. 2012 , 2, 6266	38
1222	N-Doped TiO ₂ Nanofibers Deposited by Electrospinning. 2012 , 116, 18427-18431	49
1221	Influence of Selected Alkoxysilanes on Dispersive Properties and Surface Chemistry of Titanium Dioxide and TiO ₂ /BiO ₂ Composite Material. 2012 , 2012, 1-19	13
1220	Bicontinuous ceramics with high surface area from block copolymer templates. 2012 , 28, 8518-29	64
1219	Making Photo-selective TiO ₂ Materials by Cation/Anion Codoping: From Structure and Electronic Properties to Photoactivity. 2012 , 116, 18759-18767	25
1218	Dissociation of Single 2-Chloroanthracene Molecules by STM-Tip Electron Injection. 2012 , 116, 4679-4685	4
1217	Reaction Mechanism of Aromatic Ring Hydroxylation by Water over Platinum-Loaded Titanium Oxide Photocatalyst. 2012 , 116, 25376-25387	44
1216	Effect of indium segregation on the surface versus bulk chemistry for indium-doped TiO ₂ . 2012 , 4, 6626-34	30
1215	PMMA/Titania nanocomposites: Properties and thermal degradation behaviour. 2012 , 97, 1325-1333	54
1214	TiO ₂ nanoparticle layer formation on ceramic support, a statistical approach to control influential synthesis parameters. 2012 , 229, 51-60	11
1213	Visible light induced photodesorption of NO from the FeCr ₂ O ₃ (0001) surface. 2012 , 606, 505-509	11
1212	Photostability and Thermal Decomposition of Benzoic Acid on TiO ₂ . 2012 , 116, 21508-21513	18
1211	Oxygen-induced doping of spiro-MeOTAD in solid-state dye-sensitized solar cells and its impact on device performance. 2012 , 12, 4925-31	252

1210	Tailored visible-light driven anatase TiO ₂ photocatalysts based on controllable metal ion doping and ordered mesoporous structure. 2012 , 22, 5031	112
1209	Particle Size and Structural Control of ZnWO ₄ Nanocrystals via Sn ²⁺ Doping for Tunable Optical and Visible Photocatalytic Properties. 2012 , 116, 18508-18517	83
1208	A review on the visible light active titanium dioxide photocatalysts for environmental applications. 2012 , 125, 331-349	2848
1207	TiO ₂ activation using acid-treated vermiculite as a support: Characteristics and photoreactivity. 2012 , 258, 3386-3392	29
1206	Visible light assisted photodecolorization of eosin-Y in aqueous solution using hesperidin modified TiO ₂ nanoparticles. 2012 , 258, 4592-4600	44
1205	Synergistic effects of Fe and graphene on photocatalytic activity enhancement of TiO ₂ under visible light. 2012 , 258, 5827-5834	96
1204	The antibacterial and hydrophilic properties of silver-doped TiO ₂ thin films using sol-gel method. 2012 , 258, 8241-8246	41
1203	Photo-induced properties of non-annealed anatase TiO ₂ mesoporous film prepared by anodizing in the hot phosphate/glycerol electrolyte. 2012 , 258, 9810-9815	10
1202	Effect of surface Fe ₂ O ₃ clusters on the photocatalytic activity of TiO ₂ for phenol degradation in water. 2012 , 229-230, 224-32	50
1201	Effect of ultrasonic frequency on the structure and sonophotocatalytic property of CdS/TiO ₂ nanocomposite. 2012 , 15, 152-158	21
1200	Hydrogen production from water splitting under visible light irradiation using sensitized mesoporous-assembled TiO ₂ /BiO ₂ mixed oxide photocatalysts. 2012 , 37, 11061-11071	46
1199	A short literature survey on iron and cobalt ion doped TiO ₂ thin films and photocatalytic activity of these films against fungi. 2012 , 517, 80-86	22
1198	Study on defect properties of nanocrystalline TiO ₂ during phase transition by positron annihilation lifetime. 2012 , 353, 55-58	12
1197	Photocatalytic oxidation of volatile pollutants of air driven by visible light. 2012 , 241, 8-12	23
1196	Removal of humic acids from water by hybrid titanium-based electrocoagulation with ultrafiltration membrane processes. 2012 , 300, 51-57	32
1195	Insights into UV-TiO ₂ photocatalytic degradation of PCE for air decontamination systems. 2012 , 204-206, 244-257	28
1194	Photodegradation of volatile organic compounds using zirconium-doped TiO ₂ /SiO ₂ visible light photocatalysts. 2012 , 204-206, 40-47	46
1193	Photocatalytic process optimisation for ethylene oxidation. 2012 , 209, 494-500	19

1192	Synthesis and Characterization of La (Ti,Nb)(O,N) ₃ for Photocatalytic Water Oxidation. 2012 , 22, 41-47	4
1191	Sorption of U(VI) at the TiO ₂ /water interface: An in situ vibrational spectroscopic study. 2012 , 76, 191-205	48
1190	Dye-Sensitized Solar Cells. 2012 , 147-175	2
1189	Titania and Silica Materials Derived from Chemically Dehydrated Porous Botanical Templates. 2012 , 24, 4301-4310	12
1188	Graphene nanosheets as a platform for the 2D ordering of metal oxide nanoparticles: mesoporous 2D aggregate of anatase TiO ₂ nanoparticles with improved electrode performance. 2012 , 18, 13800-9	31
1187	Synthesis and applications of graphene-based TiO(2) photocatalysts. 2012 , 5, 1868-82	200
1186	Kritikalität von Ressourcen für Zukunftstechnologien. 2012 , 638, 1552-1552	1
1185	Electronic band structure and distribution of excited electrons in the conduction band of anatase doped with boron, nitrogen, and carbon. 2012 , 54, 2173-2181	5
1184	Heterogeneous Photocatalytic Degradation of Selected Organophosphate Pesticides: A Review. 2012 , 42, 2365-2407	68
1183	Reaction Mechanism of Ammonia Decomposition to Nitrogen and Hydrogen over Metal Loaded Titanium Oxide Photocatalyst. 2012 , 116, 4126-4136	96
1182	Ag/AgBr/graphene oxide nanocomposite synthesized via oil/water and water/oil microemulsions: a comparison of sunlight energized plasmonic photocatalytic activity. 2012 , 28, 3385-90	191
1181	Raman Investigation of Nanosized TiO ₂ : Effect of Crystallite Size and Quantum Confinement. 2012 , 116, 8792-8797	216
1180	Photocatalytic destruction of anionic SAS with oxygen and hydrogen peroxide in the TiO ₂ suspension. 2012 , 34, 218-226	5
1179	Template-free fabrication of TiO ₂ hollow spheres and their photocatalytic properties. 2012 , 4, 860-5	140
1178	RECENT ADVANCES IN PROPERTY ENHANCEMENT OF NANO TiO ₂ IN PHOTODEGRADATION OF ORGANIC POLLUTANTS. 2012 , 199, 1543-1574	10
1177	Deposition of photocatalytically active TiO ₂ films by inkjet printing of TiO ₂ nanoparticle suspensions obtained from microwave-assisted hydrothermal synthesis. 2012 , 23, 165603	56
1176	Mesoporous-Assembled Nanocrystal Photocatalysts for Degradation of Azo Dyes. 2012 , 147-175	1
1175	A DFT-D study of structural and energetic properties of TiO ₂ modifications. 2012 , 24, 424206	44

1174	The Dominance of Morphology over Size in the Decrease of the Activation Energy of Biphasic TiO ₂ Nanocrystallites. 2012 , 562, 219-228	6
1173	TiO ₂ nanoparticles are phototoxic to marine phytoplankton. 2012 , 7, e30321	197
1172	Titanium Dioxide Polymer Nanocomposites with Advanced Properties. 2012 , 119-149	3
1171	Recent progress on graphene-based photocatalysts: current status and future perspectives. 2012 , 4, 5792-813	820
1170	Structure of epitaxial (Fe,N) codoped rutile TiO ₂ thin films by x-ray absorption. 2012 , 86,	22
1169	Creating Oxygen Vacancies as a Novel Strategy To Form Tetrahedrally Coordinated Ti ⁴⁺ in Fe/TiO ₂ Nanoparticles. 2012 , 116, 7219-7226	130
1168	TiO ₂ /SiO ₂ mixed oxides: Organic ligand templated controlled deposition of titania and their photocatalytic activities for hydrogen production. 2012 , 37, 17009-17018	21
1167	Performance comparison of CO ₂ conversion in slurry and monolith photoreactors using Pd and Rh-TiO ₂ catalyst under ultraviolet irradiation. 2012 , 126, 172-179	69
1166	Effect of deposition of silver on structural characteristics and photoactivity of TiO ₂ -based photocatalysts. 2012 , 127, 112-120	56
1165	Characterisation of samarium and nitrogen co-doped TiO ₂ films prepared by chemical spray pyrolysis. 2012 , 261, 735-741	21
1164	Low temperature synthesis and characterization of rutile TiO ₂ -coated mica titania pigments. 2012 , 95, 534-539	55
1163	Engineering TiO ₂ nanomaterials for CO ₂ conversion/solar fuels. 2012 , 105, 53-68	165
1162	The structure and photocatalytic activity of TiO ₂ thin films deposited by dc magnetron sputtering. 2012 , 52, 1131-1142	17
1161	Photocatalytic properties and optical characterization of cotton fabric coated via sol-gel with non-crystalline TiO ₂ modified with poly(ethylene glycol). 2012 , 207, 79-88	40
1160	Facile aqueous synthesis and thermal insulating properties of low-density glass/TiO ₂ core/shell composite hollow spheres. 2012 , 10, 475-479	14
1159	Doped-metal oxide nanoparticles for use as photocatalysts. 2012 , 58, 145-163	41
1158	Decolorization of Cationic Yellow X-Gl 200% from Textile Dyes by TiO ₂ Films-Coated Rotor. 2012 , 32, 800-806	11
1157	Photocatalytic degradation of quinoline in aqueous TiO ₂ suspension. 2012 , 237-238, 247-55	31

1156	Synthesis, characterization and photocatalytic activity of neodymium, nitrogen and neodymiumNitrogen doped TiO ₂ . 2012 , 47, 2165-2177	29
1155	Characterizations and electrical properties of ZrTiO ₄ ceramic. 2012 , 47, 3141-3147	20
1154	Studies on the TiO ₂ modified microchannels for microfluidic applications. 2012 , 89, 247-250	5
1153	Degradation of wastewaters containing organic dyes photocatalysed by zinc oxide: a review. 2012 , 41, 131-169	293
1152	Ordered mesoporous tungsten oxide and titanium oxide composites and their photocatalytic degradation behavior. 2012 , 22, 654-660	20
1151	Synthesis of amphiphilic brookite nanoparticles with high photocatalytic performance for wide range of application. 2012 , 4, 4846-52	44
1150	Enhanced Charge Separation in Nanostructured TiO ₂ Materials for Photocatalytic and Photovoltaic Applications. 2012 , 51, 11841-11849	83
1149	Methanol, ethanol and hydrogen sensing using metal oxide and metal (TiO ₂ -Pt) composite nanoclusters on GaN nanowires: a new route towards tailoring the selectivity of nanowire/nanocluster chemical sensors. 2012 , 23, 175501	60
1148	Photo-induced charge separation across the graphene-TiO ₂ interface is faster than energy losses: a time-domain ab initio analysis. 2012 , 134, 14238-48	206
1147	Preparation of well-defined titaniaSilica spherical particles. 2012 , 22, 9963	17
1146	Enhanced performance of surface-modified TiO ₂ photocatalysts prepared via a visible-light photosynthetic route. 2012 , 48, 8556-8	33
1145	Hierarchical TiO ₂ Bi nanowire architecture with photoelectrochemical activity under visible light illumination. 2012 , 5, 7918	57
1144	Synthesis and photocatalytic activity of titania monoliths prepared with controlled macro- and mesopore structure. 2012 , 4, 4123-30	22
1143	ZnO/TiO ₂ coreBrush nanostructure: processing, microstructure and enhanced photocatalytic activity. 2012 , 22, 5629	98
1142	Electron-phonon relaxation and excited electron distribution in zinc oxide and anatase. 2012 , 24, 405802	12
1141	Cooperative Effect between Cation and Anion of Copper Phosphate on the Photocatalytic Activity of TiO ₂ for Phenol Degradation in Aqueous Suspension. 2012 , 116, 24582-24589	21
1140	Thulium and Ytterbium-Doped Titanium Oxide Thin Films Deposited by Ultrasonic Spray Pyrolysis. 2012 , 21, 1263-1268	14
1139	Preparation and properties of Nano-TiO ₂ photo-catalytic silk respirator paper. 2012 , 13, 1159-1164	9

1138	Encapsulation of a Baked Br ₂ Anion in a polyoxotitanate host. 2012 , 3, 2470	46
1137	Adsorption and Photocatalytic Oxidation of Methanol/Benzene Binary Mixture in an Annular Fluidized Bed Photocatalytic Reactor. 2012 , 51, 15360-15373	15
1136	Iron insertion and hematite segregation on Fe-doped TiO ₂ nanoparticles obtained from sol-gel and hydrothermal methods. 2012 , 4, 5555-61	51
1135	Effect of TiO ₂ nanoparticle surface functionalization on protein adsorption, cellular uptake and cytotoxicity: the attachment of PEG comb polymers using catalytic chain transfer and thiol-ene chemistry. 2012 , 3, 2743	37
1134	Efficient Degradation of Azo Dyes over Sb ₂ S ₃ /TiO ₂ Heterojunction under Visible Light Irradiation. 2012 , 51, 2897-2903	53
1133	Synthesis of Efficient Nanosized Rutile TiO ₂ and Its Main Factors Determining Its Photodegradation Activity: Roles of Residual Chloride and Adsorbed Oxygen. 2012 , 116, 17094-17100	41
1132	Recent progress on metal core@semiconductor shell nanocomposites as a promising type of photocatalyst. 2012 , 4, 2227-38	365
1131	Photocatalysis by Nanostructured TiO ₂ -based Semiconductors. 2012 , 89	1
1130	Synthesis, Structure, and Photocatalytic Activity of Titanium Dioxide and Some of Its Surface-Modified Derivatives. 2012 , 459-489	
1129	Mesoporous MgTa ₂ O ₆ thin films with enhanced photocatalytic activity: On the interplay between crystallinity and mesostructure. 2012 , 3, 123-33	7
1128	Semiconductors in Organic Photosynthesis. 2012 ,	2
1127	Antimicrobial natural fibres. 2012 , 653-687	3
1126	Kajian Metode Elektrofotokatalisis, Elektrolisis dan Fotokatalisis pada Dekolorisasi Larutan Zat Warna Remazol Red RB yang Mengandung Ion Logam Cd ²⁺ . 2012 , 15, 58-61	
1125	Artificial Photosynthesis from a Chemical Engineering Perspective. 2012 ,	0
1124	Potential Applications for Solar Photocatalysis: From Environmental Remediation to Energy Conversion. 2012 ,	5
1123	Ab initio approach to the rate of radiative electron trapping and electron-hole recombination in B-, C-, and N-doped anatase. 2012 , 249, 1063-1071	7
1122	Interfacial agent effect on rheological response and crystallite characteristics in germicidal polypropylene/titanium dioxide nanocomposites. 2012 , 61, 1655-1665	3
1121	Effect of different annealing temperatures and SiO ₂ /Si(100) substrate on the properties of nickel containing titania thin sol-gel films. 2012 , 209, 953-965	9

1120	The influence of precursor composition and concentration on cadmium doped TiO ₂ film. 2012 , 10, 85-90	2
1119	A review on the synthesis of TiO ₂ nanoparticles by solution route. 2012 , 10, 279-294	59
1118	Preparation and characterization of V ₂ O ₅ doped SiO ₂ -TiO ₂ thin films. 2012 , 2,	
1117	Evaluating the effectiveness of photocatalysts based on titanium dioxide in the degradation of the dye Ponceau 4R. 2012 , 92, 563-572	38
1116	Synergetic effect of MoS ₂ and graphene as cocatalysts for enhanced photocatalytic H ₂ production activity of TiO ₂ nanoparticles. 2012 , 134, 6575-8	2059
1115	Advanced nanoarchitectures for solar photocatalytic applications. 2012 , 112, 1555-614	1888
1114	Transforming CdS into an efficient visible light photocatalyst for selective oxidation of saturated primary C-H bonds under ambient conditions. 2012 , 3, 2812	205
1113	The electrochemistry of nanostructured titanium dioxide electrodes. 2012 , 13, 2824-75	210
1112	Effect of heat treatment on photocatalytic activity of titania incorporated with carbon black for degradation of methyl orange. 2012 , 31, 306-317	7
1111	Room Temperature Synthesis and Thermal Evolution of Porous Nanocrystalline TiO ₂ Anatase. 2012 , 24, 245-254	43
1110	Progress in Heterogeneous Photocatalysis: From Classical Radical Chemistry to Engineering Nanomaterials and Solar Reactors. 2012 , 3, 629-39	344
1109	Graphene-based semiconductor photocatalysts. 2012 , 41, 782-96	2274
1108	A New Approach to the Preparation of Nitrogen-Doped Titania Visible Light Photocatalyst. 2012 , 24, 636-642	67
1107	Hierarchically Structured Porous Materials for Energy Conversion and Storage. 2012 , 22, 4634-4667	697
1106	Influence of the surface hydrolysis on the functionality of poly(ethylene terephthalate) fabric treated with nanotitanium dioxide. 2012 , 125, 1176-1184	34
1105	Probing the electronic structure and photoactivation process of nitrogen-doped TiO ₂ using DRS, PL, and EPR. 2012 , 13, 1542-50	25
1104	Production of Predominantly Anatase Thin Films on Various Grades of Steel and Other Metallic Substrates From TiCl ₄ and Ethyl Acetate by Atmospheric Pressure CVD. 2012 , 18, 133-139	14
1103	CVD Production of Doped Titanium Dioxide Thin Films. 2012 , 18, 89-101	31

1102	Photocatalytic and Photoelectrocatalytic Degradation of the Explosive RDX by TiO ₂ Thin Films Prepared by CVD and Anodic Oxidation of Ti. 2012 , 18, 112-120	7
1101	Infrared Spectroscopic Studies of Conduction Band and Trapped Electrons in UV-Photoexcited, H-Atom n-Doped, and Thermally Reduced TiO ₂ . 2012 , 116, 4535-4544	104
1100	Photooxidation Mechanism of Methanol on Rutile TiO ₂ Nanoparticles. 2012 , 116, 6623-6635	86
1099	Band bending in semiconductors: chemical and physical consequences at surfaces and interfaces. 2012 , 112, 5520-51	1464
1098	Cathodoluminescence insights into the ionic disorder of photocatalytic anatase films. 2012 , 111, 103720	1
1097	Influence of gamma-irradiation on the photocatalytic activity of Degussa P25 TiO ₂ . 2012 , 47, 4936-4945	27
1096	Photocatalytic degradation of chlorpyrifos in aqueous suspensions using nanocrystals of ZnO and TiO ₂ . 2012 , 106, 325-339	26
1095	Photocatalytic degradation of benzene, toluene, ethylbenzene, and xylene (BTEX) using transition metal-doped titanium dioxide immobilized on fiberglass cloth. 2012 , 29, 377-383	34
1094	Photodecomposition of polyphenols in <i>E. camaldulensis</i> leaves in the presence of hybrid catalyst of titania and MCM-41 synthesized from rice husk silica. 2012 , 29, 555-562	4
1093	Structure and stability of kaolinite/TiO ₂ nanocomposite: DFT and MM computations. 2012 , 18, 2689-98	21
1092	Study of Phase Transformation of Rapid-Thermal-Annealed TiO _x Films and Their Photo-Induced Hydrophilicity. 2012 , 95, n/a-n/a	
1091	Photoelectron Properties of Nanocrystalline TiO ₂ Films Prepared by a Powerful Hydrothermal Technique. 2012 , 95, 1980-1984	6
1090	Photo-catalytic degradation of gaseous formaldehyde by TiO ₂ /UV, Ag/TiO ₂ /UV and Ce/TiO ₂ /UV. 2012 , 51, 345-350	60
1089	TiO ₂ nanoparticles with increased surface hydroxyl groups and their improved photocatalytic activity. 2012 , 19, 96-99	57
1088	The shape-specific photocatalytic efficiency of quantum size TiO ₂ nanoparticles. 2012 , 21, 1-4	12
1087	Effects of the crystal reduction state on the interaction of oxygen with rutile TiO ₂ (1 1 0). 2012 , 182, 25-38	37
1086	Preparation and characterization of WO ₃ /TiO ₂ hollow microsphere composites with catalytic activity in dark. 2012 , 181-182, 734-739	52
1085	Modeling the photocatalytic degradation of moxifloxacin by means of a stochastic cellular automaton. 2012 , 188, 181-190	15

1084	Functioning devices for solar to fuel conversion. 2012 , 51, 137-149	18
1083	Determination of the photocatalytic efficiency of TiO ₂ coatings on ceramic tiles by monitoring the photodegradation of organic dyes. 2012 , 38, 1611-1616	25
1082	Simple synthesis and characterization of mesoporous (N, S)-codoped TiO ₂ with enhanced visible-light photocatalytic activity. 2012 , 38, 1671-1675	29
1081	Processing and characterization of sol-gel titania membranes. 2012 , 38, 3251-3260	20
1080	Enhancement of the photocatalytic performance of Ag-modified TiO ₂ photocatalyst under visible light. 2012 , 38, 5201-5207	79
1079	Photodegradation of perfluorooctanoic acid by synthesized TiO ₂ -MWCNT composites under 365nm UV irradiation. 2012 , 86, 853-9	87
1078	Fluorinated semiconductor photocatalysts: tunable synthesis and unique properties. 2012 , 173, 35-53	142
1077	Boosting catalytic activity with a p-n junction: Ni/TiO ₂ nanotube arrays composite catalyst for methanol oxidation. 2012 , 37, 4967-4973	52
1076	Photocatalytic activity of single and mixed nanosheet-like Bi ₂ WO ₆ and TiO ₂ for Rhodamine B degradation under sunlike and visible illumination. 2012 , 423-424, 34-41	39
1075	Photoelectrocatalytic performance of TiO ₂ nanoparticles incorporated TiO ₂ nanotube arrays. 2012 , 113-114, 318-325	58
1074	Degradation intermediates and reaction pathway of pyraclostrobin with TiO ₂ photocatalysis. 2012 , 115-116, 285-293	29
1073	Enhanced photocatalytic activity of hierarchical macro/mesoporous TiO ₂ /graphene composites for photodegradation of acetone in air. 2012 , 119-120, 109-116	329
1072	Kinetics of photocatalytic disinfection in TiO ₂ -containing polymer thin films: UV and visible light performances. 2012 , 121-122, 230-238	30
1071	Metakaolinite/TiO ₂ composite: Photoactive admixture for building materials based on Portland cement binder. 2012 , 35, 38-44	27
1070	Electrophotochemical decolorization of an azo dye on TiO ₂ self-organized nanotubes in a laboratory scale reactor. 2012 , 285, 377-382	23
1069	Efficient photocatalytic hydrogen generation by Pt modified TiO ₂ nanotubes fabricated by rapid breakdown anodization. 2012 , 37, 8268-8276	76
1068	Facile synthesis of polyoxometalate-thionine composite via direct precipitation method and its photocatalytic activity for degradation of rhodamine B under visible light. 2012 , 365, 198-203	15
1067	Extraordinarily water permeable sol-gel formed nanocomposite nanofibrous membranes. 2012 , 366, 51-56	43

1066	Hydrophilic/hydrophobic features of TiO ₂ nanoparticles as a function of crystal phase, surface area and coating, in relation to their potential toxicity in peripheral nervous system. 2012 , 369, 28-39	80
1065	Visible-light-induced degradation of methylene blue by mesoporous Bi ₂ WO ₆ plates with worm-like structure. 2012 , 7, 52	8
1064	Photoinduced oxidation of sterically hindered amines in acetonitrile solutions and titania suspensions (an EPR study). 2012 , 88, 1442-54	16
1063	Synthesis and Characterization of Anatase-Structured Titania Hollow Spheres Doped with Erbium (III). 2012 , 95, 3005-3011	16
1062	Influence of Nb dopant on the structural and optical properties of nanocrystalline TiO ₂ thin films. 2012 , 132, 210-215	48
1061	Glycerol as an efficient mesopore-controlling agent for synthesis of mesoporous-assembled TiO ₂ nanocrystals and their remarkable photocatalytic H ₂ production activity. 2012 , 47, 199-205	10
1060	Preparation of hollow TiO ₂ microspheres using a novel polymer microsphere template. 2012 , 72, 365-371	10
1059	Spectrophotometric studies of visible light induced photocatalytic degradation of methyl orange using phthalocyanine-modified Fe-doped TiO ₂ nanocrystals. 2012 , 92, 148-53	27
1058	Biosensing of reactive intermediates produced by the photocatalytic activities of titanium dioxide nanoparticles. 2012 , 110, 22-7	4
1057	Influence of adsorption on the photocatalytic properties of TiO ₂ /AC composite materials in the acetone and cyclohexane vapor photooxidation reactions. 2012 , 229, 11-19	24
1056	Quenching of TiO ₂ photo catalysis by silver nanoparticles. 2012 , 230, 10-14	10
1055	Cr modified TiO ₂ -loaded MCM-41 catalysts for UV-light driven photodegradation of diethyl sulfide and ethanol. 2012 , 232, 1-7	9
1054	Overview of the current ISO tests for photocatalytic materials. 2012 , 237, 7-23	197
1053	Photocatalytic degradation of p-cresol on Pt/Al ₂ O ₃ /TiO ₂ mixed oxides: Effect of oxidizing and reducing pre-treatments. 2012 , 236, 21-25	12
1052	Effects of oxygen vacancy and N-doping on the electronic and photocatalytic properties of Bi ₂ MO ₆ (M=Mo, W). 2012 , 187, 103-108	64
1051	Influence of calcination temperature on anatase to rutile phase transformation in TiO ₂ nanoparticles synthesized by the modified sol-gel method. 2012 , 82, 195-198	114
1050	Preparation and characterization of TiO ₂ nanobelts deposited with Bi ₂ Se ₃ nanoplates. 2012 , 83, 108-111	5
1049	Effect of treatment temperature on the hydrothermal formation, phase, and photoluminescence property of Nb- and Eu-co-substituted anatase-type titania nanocrystals. 2012 , 83, 186-188	4

1048	Systematic evaluation of thermal and mechanical stability of different commercial and synthetic photocatalysts in relation to their photocatalytic activity. 2012 , 156, 62-72	9
1047	The influence of the oxidation degree of poly(3-hexylthiophene) on the photocatalytic activity of poly(3-hexylthiophene)/TiO ₂ composites. 2012 , 96, 286-291	47
1046	The selective growth of rutile thin films using radio-frequency magnetron sputtering. 2012 , 520, 3884-3891	13
1045	Atmospheric plasmas for thin film deposition: A critical review. 2012 , 520, 4219-4236	196
1044	Synthesis of TiO ₂ /Pt/TiO ₂ multilayer films via radio frequency magnetron sputtering and their enhanced photocatalytic activity. 2012 , 520, 5727-5732	10
1043	Immobilization of nanoparticle titanium dioxide membrane on polyamide fabric by low temperature hydrothermal method. 2012 , 520, 5922-5927	21
1042	Synthesis of CdSe and CdSe/TiO ₂ nanoparticles under multibubble sonoluminescence condition. 2012 , 19, 464-8	7
1041	Polymeric materials with antimicrobial activity. 2012 , 37, 281-339	910
1040	Detonation spraying of TiO ₂ 0.5vol.% Ag powders in a reducing atmosphere. 2012 , 32, 815-821	21
1039	Effect of N-doping on the photocatalytic activity of sol-gel TiO ₂ . 2012 , 211-212, 88-94	141
1038	Photocatalytic production of ¹ O ₂ and *OH mediated by silver oxidation during the photoinactivation of Escherichia coli with TiO ₂ . 2012 , 211-212, 172-81	28
1037	Reduction of carbon dioxide on jet spray formed titanium dioxide surfaces. 2012 , 211-212, 247-54	8
1036	Ecotoxicity of TiO ₂ to Daphnia similis under irradiation. 2012 , 211-212, 436-42	57
1035	Evolution of natural organic matter by size exclusion chromatography during photocatalytic degradation by solvothermal-synthesized titanium dioxide. 2012 , 213-214, 318-24	12
1034	An overview of commonly used semiconductor nanoparticles in photocatalysis. 2012 , 46, 1-9	46
1033	New photocatalysts based on cadmium and zinc sulfides for hydrogen evolution from aqueous Na ₂ S-Na ₂ SO ₃ solutions under irradiation with visible light. 2012 , 53, 188-196	33
1032	Mechanochemical degradation of Safranin T catalyzed by oxides. 2012 , 85, 187-190	4
1031	Potential scenarios for nanomaterial release and subsequent alteration in the environment. 2012 , 31, 50-9	457

1030	The photocatalytic properties of amorphous TiO ₂ composite films deposited by magnetron sputtering. 2012 , 38, 487-498	32
1029	Protection of organic pigments against photocatalysis by encapsulation. 2012 , 62, 65-74	8
1028	Photodegradation of azo-dyes in aqueous solution by polyacrylonitrile nanofiber mat-supported metalloporphyrins. 2013 , 62, 289-294	16
1027	The photocatalytic degradation and modeling of 2,4-Dichlorophenoxyacetic acid by bismuth tungstate/peroxide. 2013 , 223, 665-669	10
1026	Low temperature deposition of TiO ₂ layers from nanoparticle containing suspensions synthesized by microwave hydrothermal treatment. 2013 , 66, 100-111	21
1025	The influence of various deposition techniques on the photoelectrochemical properties of the titanium dioxide thin film. 2013 , 65, 452-458	11
1024	The effect of thermal treatment in TiO ₂ photocatalytic activity. 2013 , 112, 621-628	8
1023	Gas sensor based on photoconductive electrospun titania nanofibres operating at room temperature. 2013 , 15, 1	22
1022	Solar photocatalysis for treatment of Acid Yellow-17 (AY-17) dye contaminated water using Ag@TiO ₂ core-shell structured nanoparticles. 2013 , 20, 5692-707	42
1021	Role of steps in the dissociative adsorption of water on rutile TiO ₂ (110). 2013 , 110, 146101	54
1020	Photocatalytic degradation with combustion synthesized WO ₃ and WO ₃ TiO ₂ mixed oxides under UV and visible light. 2013 , 105, 79-89	55
1019	130-fold enhancement of TiO ₂ photocatalytic activities by ball milling. 2013 , 103, 031916	24
1018	Silver-loaded TiO ₂ powders prepared through mechanical ball milling. 2013 , 39, 7119-7126	34
1017	A Unique Silk Mat-Like Structured Pd/CeO ₂ as an Efficient Visible Light Photocatalyst for Green Organic Transformation in Water. 2013 , 1, 1258-1266	63
1016	Kinetic and mechanistic study of p-nitrochlorobenzene photoreduction and Bacillus inactivation over aluminosilicate-based nanocomposites. 2013 , 144, 589-596	9
1015	Silver and copper co-impregnated onto TiO ₂ -P25 nanoparticles and its photocatalytic activity. 2013 , 228, 1207-1213	76
1014	Anti-Markovnikov hydration of alkenes over platinum-loaded titanium oxide photocatalyst. 2013 , 3, 1739	15
1013	Photo-catalytic efficiency of laboratory made and commercially available ceramic building products. 2013 , 39, 2981-2987	11

1012	Sol-gel and low-temperature solvothermal synthesis of photoactive nano-titanium dioxide. 2013 , 251, 175-181	34
1011	Immobilised Photocatalysts. 2013 , 245-267	6
1010	Fabrication of X Zeolite Based Modified Nano TiO ₂ Photocatalytic Paper for Removal of VOC Pollutants under Visible Light. 2013 , 52, 10961-10968	39
1009	Production of photocatalytically active titania layers: A comparison of plasma processes and coating properties. 2013 , 227, 2-9	17
1008	UV light assisted synthesis of ternary reduced graphene oxide hybrid materials and their photocatalytic performance. 2013 , 42, 12284-92	13
1007	Application of long wavelength visible light ($\lambda > 650$ nm) in photocatalysis with a p-CuO _B -In ₂ O ₃ quantum dot heterojunction photocatalyst. 2013 , 1, 9637	46
1006	Characterization and visible light photocatalytic mechanism of size-controlled BiFeO ₃ nanoparticles. 2013 , 48, 3017-3024	39
1005	Effect of solution contents on the evolution of microstructure and photoluminescence of laser-annealed rutile TiO ₂ thin films. 2013 , 574, 83-87	11
1004	Transition from anatase to rutile phase in titanium dioxide (TiO ₂) nanoparticles synthesized by complexing sol-gel process: effect of kind of complexing agent and calcinating temperature. 2013 , 65, 329-335	22
1003	Morphology-wettability relations in artificially structured superhydrophilic TiO ₂ /BiO ₂ composite films. 2013 , 48, 3107-3120	9
1002	Understanding the effect of surface/bulk defects on the photocatalytic activity of TiO ₂ : anatase versus rutile. 2013 , 15, 10978-88	457
1001	Photocatalytic Production of Renewable Hydrogen. 2013 , 495-527	
1000	Innovative Photocatalysts for Solar Fuel Generation by CO ₂ Reduction. 2013 , 219-241	1
999	Recent Advances in Photocatalytic Processes by Nanomaterials. 2013 , 267-288	6
998	Self-Ordered Titanium Dioxide Nanotube Arrays: Anodic Synthesis and Their Photo/Electro-Catalytic Applications. 2013 , 6, 2892-2957	78
997	Mini review on photocatalysis of titanium dioxide nanoparticles and their solar applications. 2013 , 2, 1031-1045	269
996	Influence of substrate on the hydrophilicity and photocatalytic properties of TiO ₂ nano-layers. 2013 , 88, 025604	7
995	Catalysts for Environmental Remediation Examples in Photo- and Heterogeneous Catalysis. 2013 , 63-85	2

994	Colloidal stability of dextran and dextran/poly ethylene glycol coated TiO ₂ nanoparticles by hydrothermal assisted sol-gel method. 2013 , 39, 8377-8384	15
993	Acaricidal activity of synthesized titanium dioxide nanoparticles using <i>Calotropis gigantea</i> against <i>Rhipicephalus microplus</i> and <i>Haemaphysalis bispinosa</i> . 2013 , 6, 682-8	98
992	Physical-chemical characterization of titanium dioxide layers sensitized with the natural dyes carmine and morin. 2013 , 16, 1551-1557	15
991	Effect of crystal structure on photoinduced superhydrophilicity of copper grafted TiO ₂ nanostructure thin film. 2013 , 36, 59-63	
990	Photocatalytic degradation of formaldehyde by silk mask paper loading nanometer titanium dioxide. 2013 , 14, 976-981	6
989	Micro-nano hierarchical porous titania modified with ZnO nanorods for biomedical applications. 2013 , 232, 68-74	16
988	Enhanced stability of catalase covalently immobilized on functionalized titania submicrospheres. 2013 , 33, 1438-45	28
987	Electronic structure and optical properties of anatase doped with bismuth and carbon. 2013 , 55, 589-597	4
986	Impact of water quality on removal of carbamazepine in natural waters by N-doped TiO ₂ photo-catalytic thin film surfaces. 2013 , 244-245, 463-71	60
985	Microwave-assisted synthesis of porous carbon-titania and highly crystalline titania nanostructures. 2013 , 5, 1948-54	17
984	Improving the visible light photoactivity of In ₂ S ₃ -graphene nanocomposite via a simple surface charge modification approach. 2013 , 29, 10549-58	136
983	Novel encapsulated ITO/arc-ZnO:TiO ₂ antireflective passivating layer for TCO conducting substrate prepared by simultaneous radio frequency-magnetron sputtering. 2013 , 108, 138-144	9
982	Growth of Ag and Au Nanoparticles on Reduced and Oxidized Rutile TiO ₂ (110) Surfaces. 2013 , 56, 1460-1476	25
981	Room Temperature Photocatalytic Oxidation of Carbon Monoxide Over Pd/TiO ₂ /BiO ₂ Catalysts. 2013 , 56, 1883-1891	14
980	Photocatalytic Degradation of Butanol in Aqueous Solutions by TiO ₂ Nanofibers. 2013 , 56, 630-636	8
979	Visible-light-driven Ag/Ag ₃ PO ₄ -based plasmonic photocatalysts: Enhanced photocatalytic performance by hybridization with graphene oxide. 2013 , 58, 84-91	41
978	Effect of magnetic carrier NiFe ₂ O ₄ nanoparticles on physicochemical and catalytic properties of magnetically separable photocatalyst TiO ₂ /NiFe ₂ O ₄ . 2013 , 29, 121-125	3
977	A facile and fast synthesis of novel composite Pt-graphene/TiO ₂ with enhanced photocatalytic activity under UV/Visible light. 2013 , 231, 76-83	47

976	Surface modification of TiO ₂ nanoparticles and its effect on the properties of fluoropolymer/TiO ₂ nanocomposite coatings. 2013 , 276, 761-768	65
975	The case for the photocatalytic spinning disc reactor as a process intensification technology: Comparison to an annular reactor for the degradation of methylene blue. 2013 , 225, 752-765	42
974	Characterization of TiO ₂ -coated ceramic foam prepared by modified sol-gel method and optimization of synthesis parameters in photodegradation of Acid Red 73. 2013 , 30, 1855-1866	9
973	Optimization of the degradation of imazalil by photocatalysis: Comparison between commercial and lab-made photocatalysts. 2013 , 138-139, 391-400	36
972	Preliminary experimental study on the effects of surface-applied photocatalytic products on the durability of reinforced concrete. 2013 , 48, 137-143	12
971	Photocatalytic activity of TiO ₂ -coated glass raschig rings on the degradation of phenolic derivatives under simulated solar light irradiation. 2013 , 224, 32-38	53
970	Influence of catalyst on structural and morphological properties of TiO ₂ nanostructured films prepared by sol-gel on glass. 2013 , 23, 77-84	31
969	An overview of photocatalysis phenomena applied to NO _x abatement. 2013 , 129, 522-39	163
968	Zinc oxysulfide ternary alloy nanocrystals: A bandgap modulated photocatalyst. 2013 , 102, 233110	19
967	Photoinduced hole injection in semiconductor-coordination compound systems. 2013 , 257, 767-775	40
966	Investigation of thermal treatment effect on physicochemical and photocatalytic H ₂ production properties of mesoporous-assembled Nb ₂ O ₅ nanoparticles synthesized via a surfactant-modified sol-gel method. 2013 , 215-216, 322-330	22
965	Exopolysaccharides protect <i>Synechocystis</i> against the deleterious effects of titanium dioxide nanoparticles in natural and artificial waters. 2013 , 405, 35-43	51
964	Photocatalytic transformation of sixteen substituted phenylurea herbicides in aqueous semiconductor suspensions: intermediates and degradation pathways. 2013 , 244-245, 370-9	47
963	Enhanced photocatalytic degradation of humic acids using Al and Fe co-doped TiO ₂ nanotubes under UV/ozonation for drinking water purification. 2013 , 262, 527-38	73
962	Highly photoactive anatase nanoparticles obtained using trifluoroacetic acid as an electron scavenger and morphological control agent. 2013 , 1, 14358	11
961	Flexible deposition of TiO ₂ electrodes for photocatalytic applications: Modulation of the crystal phase as a function of the layer thickness. 2013 , 199, 1-6	6
960	Hybrid organic PVDF-inorganic M-rGO-TiO ₂ (M = Ag, Pt) nanocomposites for multifunctional volatile organic compound sensing and photocatalytic degradation-H ₂ production. 2013 , 5, 11283-90	59
959	Preparation of sustainable photocatalytic materials through the valorization of industrial wastes. 2013 , 6, 2340-7	6

958	Different recycle behavior of Cu ²⁺ and Fe ³⁺ ions for phenol photodegradation over TiO ₂ and WO ₃ . 2013 , 262, 114-20	23
957	Photocatalytic performance of Fe-, Ni-, or Cu-ion implanted TiO ₂ films under UV light, visible light and sunlight irradiation. 2013 , 307, 385-390	16
956	Titania/carbon nanotube composite (TiO ₂ /CNT) and its application for removal of organic pollutants. 2013 , 15, 871-880	64
955	Formation of 8nm TiO ₂ nanotubes on a three dimensional electrode for enhanced photoelectrochemical reaction. 2013 , 2, 1347-1353	16
954	Photocatalytic Performance of Titanium Dioxide Thin Films from Polymer-Encapsulated Titania. 2013 , 52, 17800-17811	8
953	Light intensity dependence of the kinetics of the photocatalytic oxidation of nitrogen(II) oxide at the surface of TiO ₂ . 2013 , 15, 20876-86	49
952	Nanoscale investigation of photoinduced hydrophilicity variations in anatase and rutile nanopowders. 2013 , 29, 14512-8	12
951	Structural and mechanical characterization of nanostructured titanium oxide thin films deposited by filtered cathodic vacuum arc. 2013 , 227, 42-47	8
950	Characterization of Incidental Photon-to-electron Conversion Efficiency (IPCE) of porous TiO ₂ /SnO ₂ composite film. 2013 , 569, 88-94	25
949	Enhanced photocatalytic activity of TiO ₂ /EC hybrid aerogels for methylene blue degradation. 2013 , 3, 3018	87
948	Electrochemical degradation of chlortetracycline using N-doped Ti/TiO ₂ photoanode under sunlight irradiations. 2013 , 47, 6801-10	44
947	Larger Effect of Sintering Temperature Than Particle Size on the Photocatalytic Activity of Anatase TiO ₂ . 2013 , 117, 24360-24367	32
946	Ionic liquid-assisted hydrothermal synthesis of TiO ₂ nanoparticles and its application in photocatalysis. 2013 , 48, 8420-8426	44
945	Hydrothermal synthesis and acidity characterization of TiO ₂ polymorphs. 2013 , 48, 3374-3382	22
944	Nanocatalyst from sol-gel doping of TiO ₂ with Vanadium and Cerium and its application for 3,4 Dichloroaniline degradation using visible light. 2013 , 232, 249-258	26
943	Photodegradation of Methylene Blue by the Action of Solar Light in the Presence of Potassium Polytitanate Doped with Silicon Oxide. 2013 , 49, 224-227	2
942	Self-Cleaning Fibers and Fabrics*. 2013 , 129-152	2
941	Self-Cleaning Materials for Plastic and Plastic-Containing Substrates. 2013 , 153-202	4

940	The Environmental Impact of a Nanoparticle-Based Reduced Need of Cleaning Product and the Limitation Thereof. 2013 , 313-346	1
939	Interplay of Vanadium States and Oxygen Vacancies in the Structural and Optical Properties of TiO ₂ :V Thin Films. 2013 , 130917102322003	1
938	Tailoring the properties of immobilized titanium dioxide/carbon nanotube composites for photocatalytic water treatment. 2013 , 1, 945-953	16
937	Core-shell structured Fe ₂ O ₃ @TiO ₂ nanocomposites with improved photocatalytic activity in the visible light region. 2013 , 15, 18627-34	112
936	Photoelectrochemical oxidation of p-nitrophenol on an expanded graphite-TiO ₂ electrode. 2013 , 12, 1091-102	19
935	Formation of bundle-shaped NaYF ₄ upconversion microtubes via Ostwald ripening. 2013 , 5, 9732-9	79
934	Photocatalytic degradation of methylene blue and inactivation of Gram-negative bacteria by TiO ₂ nanoparticles in aqueous suspension. 2013 , 34, 372-377	62
933	Band structure engineering of TiO ₂ nanowires by n-p codoping for enhanced visible-light photoelectrochemical water-splitting. 2013 , 15, 18523-9	36
932	Mass production of titanium oxide (TiO ₂) nanosheets using a soft, solution process. 2013 , 3, 21343	1
931	Solar photocatalytic and electrokinetic studies of TiO ₂ /Ag nanoparticle suspensions. 2013 , 96, 220-226	11
930	Antibacterial Activity of Ag-TiO ₂ Nanoparticles with Various Silver Contents. 2013 , 756, 238-245	11
929	Enhanced photoluminescence from SiO ₂ /Au nanostructures. 2013 , 15, 10116	6
928	High-resolution anion photoelectron spectra of TiO ₂ -, ZrO ₂ -, and HfO ₂ - obtained by slow electron velocity-map imaging. 2013 , 15, 20973-81	24
927	Role of TiO ₂ morphological characteristics in EVOH/TiO ₂ nanocomposite films: self-degradation and self-cleaning properties. 2013 , 3, 8541	8
926	Bio-inspired synthesis of titania with polyamine induced morphology and phase transformation at room-temperature: insight into the role of the protonated amino group. 2013 , 42, 12179-84	15
925	Reducing cross-sensitivity of TiO ₂ -(B) nanowires to humidity using ultraviolet illumination for trace explosive detection. 2013 , 15, 5017-21	29
924	A complete multi-scale simulation of light absorption within a fluidized bed photoreactor using integrated particle, fluid and photon behaviour models. 2013 , 15, 12373-85	9
923	Curcumin-sensitized anatase TiO ₂ nanoparticles for photodegradation of methyl orange with solar radiation. 2013 ,	3

922	Electronic band structure, optical absorption and photocatalytic activity of anatase doped with bismuth or carbon. 2013 , 548, 46-51	9
921	2-Propanol reactivity on in situ prepared Au(1 1 1)-supported TiO ₂ nanocrystals. 2013 , 297, 281-288	12
920	Incorporation of titanium dioxide nanoparticles in mortars [Influence of microstructure in the hardened state properties and photocatalytic activity. 2013 , 43, 112-120	121
919	Carbon nanosheet-titania nanocrystal composites from reassembling of exfoliated graphene oxide layers with colloidal titania nanoparticles. 2013 , 197, 329-336	6
918	Influences of urea/glycerol mixtures as mixed mesopore-controlling agents on tailoring physicochemical properties and photocatalytic H ₂ production activity of sol-gel-derived mesoporous-assembled TiO ₂ nanocrystals. 2013 , 48, 30-36	5
917	Facile Preparation of Transparent Monolithic TiO ₂ Gels Utilizing Chelating Ligand and Mineral Salts. 2013 , 91-105	1
916	Kinetic Analysis of Heterogeneous Photocatalysis: Role of Hydroxyl Radicals. 2013 , 55, 79-133	78
915	A critical and benchmark comparison on graphene-, carbon nanotube-, and fullerene-semiconductor nanocomposites as visible light photocatalysts for selective oxidation. 2013 , 299, 210-221	154
914	Applications of Nanomaterial-Based Membranes in Pollution Control. 2013 , 43, 2389-2438	18
913	Preparation and characterization of TiO ₂ coated with a thin carbon layer for enhanced photocatalytic activity under fluorescent lamp and solar light irradiations. 2013 , 453, 80-91	22
912	Quantitative Detection of OH Radicals for Investigating the Reaction Mechanism of Various Visible-Light TiO ₂ Photocatalysts in Aqueous Suspension. 2013 , 117, 1383-1391	124
911	Hierarchical TiO ₂ photonic crystal spheres prepared by spray drying for highly efficient photocatalysis. 2013 , 1, 541-547	57
910	Removal of NO _x by photocatalytic processes. 2013 , 14, 29-52	239
909	Semiconductor photocatalysis--mechanistic and synthetic aspects. 2013 , 52, 812-47	597
908	Band structures and nitrogen doping effects in zinc titanate photocatalysts. 2013 , 208, 11-18	41
907	Study of the interaction of formic acid, formaldehyde and formamide with the bulk terminated (1 0 1) and reconstructed (2 0 1) surfaces of rutile TiO ₂ (011). 2013 , 607, 187-196	17
906	Theoretical approaches to excited-state-related phenomena in oxide surfaces. 2013 , 113, 4456-95	69
905	Electrical and optical properties of Zr _x La _{1-x} O _y nanocrystallites as an advanced dielectric for the next FET devices. 2013 , 24, 674-686	11

904	Effects of TiO ₂ nanoparticles on the NO ₂ levels in cell culture media analysed by Griess colorimetric methods. 2013 , 15, 1	10
903	Synthesis of fullerene-, carbon nanotube-, and graphene-TiO ₂ nanocomposite photocatalysts for selective oxidation: a comparative study. 2013 , 5, 1156-64	307
902	Halbleiterphotokatalyse [mechanistische und präparative Aspekte. 2013 , 125, 842-879	80
901	Study of morphology, mechanical properties, and thermal degradation of polycarbonate-titania nanocomposites as function of titania crystalline phase and content. 2013 , 34, 164-172	25
900	Morphology, photocleaning and water wetting properties of cotton fabrics, modified with titanium dioxide coatings synthesized with plasma enhanced chemical vapor deposition technique. 2013 , 217, 51-57	33
899	Synthesis and properties of new anatase-type and composite nanophosphors via hydrothermal method. 2013 , 138, 724-730	2
898	Hydrogen production by photoreforming of formic acid in aqueous copper/TiO ₂ suspensions under UV-simulated solar radiation at room temperature. 2013 , 38, 9644-9654	23
897	Photocatalytic degradation of humic acid in the presence of montmorillonite. 2013 , 75-76, 60-66	18
896	Fabrication and characterization of a porous titanium dioxide film with sub-micropores. 2013 , 51, 193-198	8
895	Investigation of photocatalytic activity of titanium dioxide deposited on metallic substrates by DC magnetron sputtering. 2013 , 216, 35-45	18
894	Photoelectrocatalytic properties of Cu ²⁺ -doped TiO ₂ film under visible light. 2013 , 134-135, 185-192	26
893	Sol-gel fabrication and enhanced optical properties, photocatalysis, and surface wettability of nanostructured titanium dioxide films. 2013 , 16, 1063-1069	14
892	Titanium determination by multisyringe flow injection analysis system and a liquid waveguide capillary cell in solid and liquid environmental samples. 2013 , 76, 89-94	7
891	CHARACTERIZATION OF A HETEROSTRUCTURE TiO ₂ /SnO ₂ :F/SUBSTRATE WITH TWO DIFFERENT GEOMETRIES, PREPARED BY SPRAY PYROLYSIS TO BE USED AS PHOTOCATALYST. 2013 , 20, 1350042	1
890	Surface hydroxylation of TiO ₂ yields notable visible-light photocatalytic activity to decompose rhodamine B in aqueous solution. 2013 , 74, 1136-1142	12
889	Low irradiance photocatalytic degradation of toluene in air by screen-printed titanium dioxide layers. 2013 , 545, 537-542	11
888	Synthesis and characterization of anatase nanoadsorbent and application in removal of lead, copper and arsenic from water. 2013 , 225, 625-635	109
887	UV and visible light optimization of anatase TiO ₂ antimicrobial properties: Surface deposition of metal and oxide (Cu, Zn, Ag) species. 2013 , 140-141, 680-690	66

886	Stability and prospect of UV/H ₂ O ₂ activated titania films for biomedical use. 2013 , 285, 317-323	16
885	Synthesis and characterization of novel magnetically separable CoFe ₂ O ₄ /CeO ₂ nanocomposite photocatalysts. 2013 , 113, 76-79	27
884	Experimental analysis of Ga ₂ O ₃ :Ti films grown on Si and glass substrates. 2013 , 53, 676-680	12
883	Decoupling the dual source of colour alteration of architectural titanium: Soiling or oxidation?. 2013 , 72, 125-132	9
882	Iron-doped titania thin films with enhanced photovoltaic efficiency: Effects of iron concentration and rectifying layer. 2013 , 232, 658-665	10
881	Eco-friendly synthetic route for layered zinc compound and its conversion to ZnO with photocatalytic properties. 2013 , 23, 58-64	20
880	Effect of amorphous fluorinated coatings on photocatalytic properties of anodized titanium surfaces. 2013 , 545, 210-216	11
879	Preparation of novel Sb ₂ O ₃ /WO ₃ photocatalysts and their activities under visible light irradiation. 2013 , 48, 2244-2249	46
878	Reduced graphene oxide modified Ag/AgBr with enhanced visible light photocatalytic activity for methyl orange degradation. 2013 , 575, 81-85	38
877	Effect of surface physics of metal oxides on the ability to form metallic nanowires. 2013 , 285, 450-457	11
876	Influence of V ⁺ -implantation on structural, chemical, optical and nanomechanical properties of TiO ₂ films. 2013 , 89, 147-152	3
875	Synthesis of CdTe/TiO ₂ nanoparticles and their photocatalytic activity. 2013 , 48, 4283-4286	30
874	Can nanotechnology be green? Comparing efficacy of nano and microparticles in cementitious materials. 2013 , 36, 16-24	70
873	Photodegradation of Orange II under Visible Light Using Cu ₃ Ni/TiO ₂ : Influence of Cu:Ni Mass Composition, Preparation, and Calcination Temperature. 2013 , 52, 4491-4503	52
872	A self-cleaning porous TiO ₂ -Ag core-shell nanocomposite material for surface-enhanced Raman scattering. 2013 , 49, 382-4	78
871	Recent Progress in the Synthesis of Spherical Titania Nanostructures and Their Applications. 2013 , 23, 1356-1374	178
870	X-Ray Photoelectron Spectroscopy in Analysis of Surfaces Update based on the original article by Steffen Oswald, Encyclopedia of Analytical Chemistry, © 2000, John Wiley & Sons, Ltd.. 2013 ,	7
869	Anatase-to-Rutile Phase Transition in TiO ₂ Nanoparticles Irradiated by Visible Light. 2013 , 117, 7850-7857	92

868	Photocatalytic WO ₃ and TiO ₂ Films on Brass. 2013 , 10, 26-32	5
867	Preparation of Nanocrystalline Nitrogen-doped Mesoporous Titanium Dioxide. 2013 , 23, 11-13	3
866	Identification of Bi ₂ WO ₆ as a highly selective visible-light photocatalyst toward oxidation of glycerol to dihydroxyacetone in water. 2013 , 4, 1820	271
865	Photocatalytic activity of a nitrogen-doped TiO ₂ modified zeolite in the degradation of Reactive Yellow 125 azo dye. 2013 , 44, 270-278	51
864	Nanoscale materials and their use in water contaminants removal-a review. 2013 , 20, 1239-60	168
863	Modified TiO ₂ For Environmental Photocatalytic Applications: A Review. 2013 , 52, 3581-3599	1082
862	Molecular-level insights into photocatalysis from scanning probe microscopy studies on TiO ₂ (110). 2013 , 113, 4428-55	202
861	A comparative study of optical absorption and photocatalytic properties of nanocrystalline single-phase anatase and rutile TiO ₂ doped with transition metal cations. 2013 , 198, 511-519	41
860	Graphene and its derivatives for the development of solar cells, photoelectrochemical, and photocatalytic applications. 2013 , 6, 1362	324
859	Photocatalytic properties of ZnO/TiO ₂ powders obtained via combustion gel method. 2013 , 11, 364-370	7
858	Visible light photocatalytic activity of TiO ₂ deposited on activated carbon. 2013 , 11, 464-470	10
857	Photochemical transformation of the insensitive munitions compound 2,4-dinitroanisole. 2013 , 443, 692-9	45
856	Surface modification of inorganic nanoparticles for development of organic/inorganic nanocomposites-A review. 2013 , 38, 1232-1261	1435
855	The influence of alizarin and fluorescein on the photoactivity of Ni, Pt and Ru-doped TiO ₂ layers. 2013 , 178, 383-390	15
854	Activating titanium oxide coatings for orthopedic implants. 2013 , 233, 57-64	39
853	The power of EPR techniques in revealing active sites in heterogeneous photocatalysis: The case of anion doped TiO ₂ . 2013 , 206, 2-11	42
852	Photochemical and photocatalytic degradation of trans-resveratrol. 2013 , 12, 638-44	40
851	Reaction Mechanism of Aromatic Ring Amination of Benzene and Substituted Benzenes by Aqueous Ammonia over Platinum-Loaded Titanium Oxide Photocatalyst. 2013 , 117, 11047-11058	23

850	Heterogeneous Photocatalysis: Recent Advances and Applications. 2013 , 3, 189-218	790
849	A hybrid photocatalysis-ultrafiltration continuous process for humic acids degradation. 2013 , 104, 333-341	61
848	A heterogeneous palladium catalyst hybridised with a titanium dioxide photocatalyst for direct C-C bond formation between an aromatic ring and acetonitrile. 2013 , 49, 3793-5	46
847	Reduced graphene oxide and PbS nanoparticles co-modified TiO ₂ nanotube arrays as a recyclable and stable photocatalyst for efficient degradation of pentachlorophenol. 2013 , 457, 78-84	47
846	Photodegradation of quinoline in water over magnetically separable Fe ₃ O ₄ /TiO ₂ composite photocatalysts. 2013 , 219, 355-360	96
845	The application of biodegradable chelates in the preparation of Ni/TiO ₂ /Al ₂ O ₃ photocatalysts by the Double Impregnation Method. 2013 , 260, 14-23	2
844	Nanotechnology innovations for the construction industry. 2013 , 58, 1056-1102	195
843	Functionalization of textile materials with TiO ₂ nanoparticles. 2013 , 16, 62-76	153
842	Direct removal of aqueous As(III) and As(V) by amorphous titanium dioxide nanotube arrays. 2013 , 34, 2285-90	12
841	Synthesis of nanovoid Bi ₂ WO ₆ 2D ordered arrays as photoanodes for photoelectrochemical water splitting. 2013 , 6, 283-90	46
840	Novel sol-gel preparation of V-TiO ₂ films for the photocatalytic oxidation of ethanol in air. 2013 , 263, 1-7	15
839	An experimental and first-principles study of the effect of B/N doping in TiO ₂ thin films for visible light photo-catalysis. 2013 , 254, 25-34	25
838	Photocatalytic activity enhancement of TiO ₂ thin films with silver doping under visible light. 2013 , 262, 57-63	23
837	Physico-chemical processes and kinetics of sunlight-induced hydrophobic <-> superhydrophilic switching of transparent N-doped TiO ₂ thin films. 2013 , 5, 3967-74	22
836	Photoelectrocatalysis for Water Purification. 2013 , 241-270	3
835	Singlet oxygen plays a key role in the toxicity and DNA damage caused by nanometric TiO ₂ in human keratinocytes. 2013 , 5, 6567-76	45
834	Preparation of nanoporous titania spherical nanoparticles. 2013 , 199, 317-325	8
833	TiO ₂ -based Nanomaterials with Photocatalytic Properties for the Advanced Degradation of Xenobiotic Compounds from Water. A Literature Survey. 2013 , 224, 1	29

- 832 Photocatalytic activity for H₂ evolution of TiO₂ with tuned surface crystalline phase. **2013**, 280, 304-311 25
- 831 Amine-Functionalized Titania-based Porous Structures for Carbon Dioxide Postcombustion Capture. **2013**, 117, 9747-9757 24
- 830 A chemical etching route to controllable fabrication of TiO₂ hollow nanospheres for enhancing their photocatalytic activity. **2013**, 7, 192-201 3
- 829 All-angle negative refraction and active flat lensing of ultraviolet light. **2013**, 497, 470-4 218
- 828 Sol-gel-synthesized mesoporous-assembled TiO₂/FeO₂ mixed oxide nanocrystals and their photocatalytic sensitized H₂ production activity under visible light irradiation. **2013**, 16, 667-678 30
- 827 Emerging in vitro models for safety screening of high-volume production nanomaterials under environmentally relevant exposure conditions. **2013**, 9, 1504-20 21
- 826 Spinodal Decomposition in the TiO₂/VO₂ System. **2013**, 25, 2202-2210 35
- 825 Characterizations and Process Parameters of Titanium Dioxide Thin Film by RF Sputtering. **2013**, 22, 9-21 3
- 824 Photocatalytic degradation of 2,4-dichlorophenoxyacetic acid under visible light: Effect of synthesis route. **2013**, 139, 423-430 33
- 823 Dispersion and surface functionalization of oxide nanoparticles for transparent photocatalytic and UV-protecting coatings and sunscreens. **2013**, 14, 023001 201
- 822 Polymer-supported titanium dioxide photocatalysts for environmental remediation: A review. **2013**, 462-463, 178-195 284
- 821 Enhanced photocatalytic activity of electrospun TiO₂/ZnO nanofibers with optimal anatase/rutile ratio. **2013**, 37, 100-104 54
- 820 Metal Doped TiO₂ Photocatalysts for CO₂ Photoreduction. **2013**, 757, 243-256 3
- 819 Unravelling the mysteries of gas phase photocatalytic reaction pathways by studying the catalyst surface: A literature review of different Fourier transform infrared spectroscopic reaction cells used in the field. **2013**, 14, 72-85 14
- 818 Electronic Structure of Epitaxial Sn-Doped Anatase Grown on SrTiO₃(001) by Dip Coating. **2013**, 117, 15221-15228 9
- 817 Synthesis of graphene/ZnO nanorod nanocomposites with improved photoactivity and anti-photocorrosion. **2013**, 15, 3022 287
- 816 Investigation of opto-dielectric properties of Ti-doped Ga₂O₃ thin films. **2013**, 20, 54-58 22
- 815 A review on non metal ion doped titania for the photocatalytic degradation of organic pollutants under UV/solar light: Role of photogenerated charge carrier dynamics in enhancing the activity. **2013**, 140-141, 559-587 426

814	Photocatalytic Properties of Nd and C Codoped TiO ₂ with the Whole Range of Visible Light Absorption. 2013 , 117, 8345-8352	77
813	Ag ₃ PO ₄ /graphene-oxide composite with remarkably enhanced visible-light-driven photocatalytic activity toward dyes in water. 2013 , 244-245, 86-93	182
812	Synthesis of brookite TiO ₂ nanorods with isolated Co(II) surface sites and photocatalytic degradation of 5,8-dihydroxy-1,4-naphthoquinone dye. 2013 , 1, 7717	25
811	A batch LED reactor for the photocatalytic degradation of phenol. 2013 , 71, 43-50	64
810	Synthesis and modification of nano-sized TiO ₂ for photo-degradation process under visible light irradiation; a Plackett-Burman experimental design. 2013 , 48, 3196-3203	9
809	Facile Tailoring of Anatase TiO ₂ Morphology by Use of H ₂ O ₂ : From Microflowers with Dominant {101} Facets to Microspheres with Exposed {001} Facets. 2013 , 52, 6704-6712	36
808	Characterisation, phase stability and surface chemical properties of photocatalytic active Zr and Y co-doped anatase TiO ₂ nanoparticles. 2013 , 199, 212-223	15
807	Formulation of mortars with nano-SiO ₂ and nano-TiO ₂ for degradation of pollutants in buildings. 2013 , 44, 40-47	54
806	Fe ³⁺ doped TiO ₂ nanotubes for combined adsorption-photocatalytic degradation of real textile wastewater. 2013 , 129, 473-481	126
805	Interaction between Escherichia coli and TiO ₂ nanoparticles in natural and artificial waters. 2013 , 102, 158-64	46
804	Ultrathin TiO ₂ layer coated-CdS spheres core-shell nanocomposite with enhanced visible-light photoactivity. 2013 , 5, 13353-63	138
803	Structural Properties and Ionic Conductivity of Nanocrystalline Zr ₅ Ti ₇ O ₂₄ Ceramic Synthesized by Autoignited Combustion Technique. 2013 , 42, 2953-2960	1
802	Synthesis of Nanostructured Copper-doped Titania and Its Properties. 2013 , 5, 26-33	22
801	Wettability conversion on the liquid flame spray generated superhydrophobic TiO ₂ nanoparticle coating on paper and board by photocatalytic decomposition of spontaneously accumulated carbonaceous overlayer. 2013 , 20, 391-408	28
800	Synergistic effect of pH and phase in a nanocrystalline titania photocatalyst. 2013 , 5, 6247-54	24
799	Significant effects of reaction temperature on morphology, crystallinity, and photoelectrical properties of rutile TiO ₂ nanorod array films. 2013 , 46, 095102	17
798	Concrete, mortar and plaster using titanium dioxide nanoparticles: applications in pollution control, self-cleaning and photo sterilization. 2013 , 299-326	6
797	Effects of Annealing Treatment on the Properties of TiO ₂ /ZnO Thin Film Prepared by Simultaneous RF-Magnetron Sputtering. 2013 , 832, 573-578	

796	Synthesis, characterization, and photocatalytic properties of BiOBr catalyst. 2013 , 199, 224-229	57
795	The noncellular reduction of MTT tetrazolium salt by TiO ₂ nanoparticles and its implications for cytotoxicity assays. 2013 , 27, 1445-50	57
794	Preparation and self-sterilizing properties of Ag@TiO ₂ -styrene-acrylic complex coatings. 2013 , 33, 1209-13	7
793	Structural properties of rutile TiO ₂ bombarded with Er ions. 2013 , 313, 50-53	2
792	Radiation damage induced by swift heavy ions in TiO ₂ sol-gel films nanocrystallines. 2013 , 304, 16-22	15
791	Synthesis of lanthanide-doped NaYF ₄ @TiO ₂ core-shell composites with highly crystalline and tunable TiO ₂ shells under mild conditions and their upconversion-based photocatalysis. 2013 , 5, 8930-3	85
790	Photocatalytic Application of Au@TiO ₂ Immobilized in Polycarbonate Film. 2013 , 52, 17907-17912	6
789	Growth of Epitaxial Anatase Nano Islands on SrTiO ₃ (001) by Dip Coating. 2013 , 13, 1438-1444	9
788	An evaluation of the application of a TiO ₂ / Cu(II)/solar simulated radiation system for selective oxidation of benzyl alcohol derivatives. 2013 , 88, 864-872	10
787	Preparation, characterisation and solar photoactivity of titania supported strontium ferrite nanocomposite photocatalyst. 2013 , 8, 295-310	17
786	Effect of nickel doping on the optical property and photocatalytic activity of titanium dioxide nanoparticles. 2013 , 8, 184-187	4
785	Au-TiO ₂ Nanocomposites and Efficient Photocatalytic Hydrogen Production under UV-Visible and Visible Light Illuminations: A Comparison of Different Crystalline Forms of TiO ₂ . 2013 , 2013, 1-10	26
784	Physicochemical Study of Photocatalytic Activity of TiO ₂ Supported Palygorskite Clay Mineral. 2013 , 2013, 1-6	22
783	Water Vapor-Plasma-Enhanced Oxidation of Thin Titanium Films. 2013 , 123, 907-910	4
782	Microvolume TOC Analysis as Useful Tool in the Evaluation of Lab Scale Photocatalytic Processes. 2013 , 3, 74-87	4
781	Structure Characterization and Hydrophilic Property of S+Ce Co-Doped TiO ₂ Nanocomposite Film. 2013 , 537, 234-237	
780	A Novel Way to Fabricate Superhydrophilic and Antibacterial TiO ₂ Nanofilms on Glass by Ion Implantation and Subsequent Annealing. 2013 , 52, 100207	4
779	Insights into Interactions of Propranolol with Nano TiO ₂ . 2013 , 101-120	

778	Photocatalytic oxidation for degradation of VOCs. 2013 , 03, 14-25	59
777	Photocatalysis by Nanoparticles of Titanium Dioxide for Drinking Water Purification: A Conceptual and State-of-Art Review. 2013 , 764, 130-150	25
776	Optical and Electrical Properties of Transparent TiO ₂ Thin-Film Developed by Electron Beam-Evaporation. 2013 , 209, 169-172	2
775	Production of Highly Efficient Photocatalytic TiO ₂ Powders by Mechanical Ball Milling. 2013 , 650, 44-48	
774	Short Review: Effect of UV Light on Precipitation of Hydroxyapatite on TiO ₂ in Simulated Body Fluid. 2013 , 315, 325-329	
773	Photodegradation of Aqueous Sodium Carbonate by KNiF ₃ Nanoparticles. 2013 , 341-342, 59-63	
772	One-Step Synthesis of TiO ₂ /Perlite Composites by Flame Spray Pyrolysis and Their Photocatalytic Behavior. 2013 , 2013, 1-8	15
771	Plasma enhanced decoration of nc-TiO ₂ on electrospun PVDF fibers for photocatalytic application. 2019 , 111, 102-112	12
770	Photocatalytic degradation of anthracene in aqueous dispersion of metal oxides nanoparticles: Effect of different parameters. 2019 , 371, 327-335	6
769	Coupling of Ag ₂ CO ₃ to an optimized ZnO photocatalyst: Advantages vs. disadvantages. 2019 , 369, 119-132	22
768	Translucent packed bed structures for high throughput photocatalytic reactors. 2019 , 361, 725-735	25
767	Assessing IEQ Performance in Buildings. 2019 , 311-340	
766	Sick Building Syndrome and Other Building-Related Illnesses. 2019 , 53-103	8
765	Porphyrin-based hybrid silica-titania as a visible-light photocatalyst. 2019 , 373, 66-76	21
764	The influence of nitrogen doping on the electronic structure of the valence and conduction band in TiO. 2019 , 26, 145-151	7
763	Nano TiO ₂ for Biomedical Applications. 2019 , 267-281	1
762	Photo-Induced Phase Transition of CdZnS Based Nanocomposite at Room Temperature Under Solar Irradiation. 2019 , 149, 876-881	3
761	Synthesis of heterojunction photocatalysts composed of Ag S quantum dots combined with Bi Ti O nanosheets for the degradation of dyes. 2019 , 26, 5524-5538	33

760	Chromium segregation in Cr-doped TiO ₂ (rutile): impact of oxygen activity. 2019 , 25, 3363-3372	1
759	Photocatalytic and Filtration performance study of TiO ₂ /CNTs-Filter for oil particle. 2019 , 123, 72-78	6
758	Lead Remediation Using Smart Materials. A Review. 2019 , 233, 1377-1409	25
757	In Vitro Cytotoxicity Evaluation of the Magn ²⁺ li Phase Titanium Suboxides (TiO) on A549 Human Lung Cells. 2019 , 20,	8
756	A Review on the Synthesis and Characterization of Metal Organic Frameworks for Photocatalytic Water Purification. 2019 , 9, 52	138
755	Visible light photocatalytic activity of Cu doped TiO ₂ -CNT nanocomposite powder prepared by sol-gel method. 2019 , 110, 198-206	32
754	Thermal transitions and stability of melt mixed TiO ₂ /Poly(L-lactic acid) nanocomposites. 2019 , 59, 704-713	4
753	Microstructural analysis and optical properties evaluation of sol-gel heterostructured NiO-TiO ₂ film used for solar panels. 2019 , 45, 3250-3255	22
752	Reinforcing materials for polymeric tissue engineering scaffolds: A review. 2019 , 107, 1560-1575	12
751	Facile Synthesis of Unique Bismuth Vanadate Nano-Knitted Hollow Cage and its Application in Environmental Remediation. 2019 , 74, 259-263	3
750	Effects of Au nanoparticles and ZnO morphology on the photocatalytic performance of Au doped ZnO/TiO films. 2019 , 30, 085708	6
749	An overview of solar/visible light-driven heterogeneous photocatalysis for water purification: TiO ₂ - and ZnO-based photocatalysts used in suspension photoreactors. 2019 , 71, 19-49	124
748	Comparison between the performance of an immobilized impinging jet stream reactor and a slurry impinging jet stream reactor for photocatalytic phenol degradation. 2019 , 40, 338-345	3
747	Synthesis of gadolinium-doped TiO ₂ thin films by sol-gel spin coating technique and its application in degradation of rhodamine-B. 2019 , 61, 167-181	5
746	Disorder Engineering in Monolayer Nanosheets Enabling Photothermic Catalysis for Full Solar Spectrum (250-2500 nm) Harvesting. 2019 , 58, 3077-3081	61
745	Porous polydimethylsiloxane membranes loaded with low-temperature crystallized TiO ₂ NPs for detachable antibacterial films. 2019 , 54, 1665-1676	8
744	Synthesis and characterization of Fe(NO ₃) ₂ -NiO composite as a photocatalyst for degradation of methylene blue dye under UV-irradiation. 2019 , 177, 36-45	6
743	Improved photocatalytic activity of rutile TiO ₂ for organic oxidation through Ag nanoparticles and borate anions. 2019 , 368, 227-232	7

742	Photocatalytic degradation performance and mechanism of dibutyl phthalate by graphene/TiO ₂ nanotube array photoelectrodes. 2019 , 358, 1083-1090	65
741	Effect of indium doping on the electrical and structural properties of TiO ₂ thin films used in MOS devices. 2019 , 775, 202-213	14
740	Thickness dependence of structural, optical and morphological properties of sol-gel derived TiO ₂ thin film. 2019 , 6, 016417	12
739	Ciprofloxacin degradation in photo-Fenton and photo-catalytic processes: Degradation mechanisms and iron chelation. 2019 , 80, 82-92	23
738	Visible-light-enhanced photoactivity of perovskite-type W-doped BaTiO ₃ photocatalyst for photodegradation of tetracycline. 2019 , 774, 795-802	41
737	Carbon nitride, metal nitrides, phosphides, chalcogenides, perovskites and carbides nanophotocatalysts for environmental applications. 2019 , 17, 655-682	32
736	Facile preparation of tungsten oxide doped TiO ₂ photocatalysts using liquid phase plasma process for enhanced degradation of diethyl phthalate. 2019 , 377, 120087	26
735	Co-precipitation synthesis of ZnO/TiO ₂ nanostructure composites for arsenic photodegradation from industrial wastewater. 2019 , 16, 463-468	16
734	Large scale and facile synthesis of Sn doped TiO ₂ aggregates using hydrothermal synthesis. 2019 , 189, 254-262	27
733	Photocatalytic degradation of diclofenac using TiO-SnO mixed oxide catalysts. 2019 , 40, 929-941	33
732	Improved photo-electrochemical properties of strained SnO ₂ . 2020 , 45, 11035-11039	6
731	Structural, electronic and photochemical properties of cerium-doped zirconium titanate. 2020 , 340, 49-57	7
730	Solar Photocatalysis Applications to Antibiotic Degradation in Aquatic Systems. 2020 , 35-53	1
729	Nanocarbons-Supported and Polymers-Supported Titanium Dioxide Nanostructures as Efficient Photocatalysts for Remediation of Contaminated Wastewater and Hydrogen Production. 2020 , 139-169	25
728	Magnetic-Based Photocatalyst for Antibacterial Application and Catalytic Performance. 2020 , 195-215	2
727	Investigating metal-organic framework based on nickel (II) and benzene 1,3,5-tri carboxylic acid (H3BTC) as a new photocatalyst for degradation of 4-nitrophenol. 2020 , 77, 137-151	2
726	Nanomaterials Developed for Removing Air Pollutants. 2020 , 203-247	1
725	Enhancement of photocatalytic NO _x abatement on titania via additional metal oxide NO _x -storage domains: Interplay between surface acidity, specific surface area, and humidity. 2020 , 263, 118227	8

724	Tailoring titanium dioxide by silver particles for photocatalysis. 2020 , 20, 23-28	9
723	Effect of different iron precursors on the synthesis and photocatalytic activity of Fe ₃ O ₄ nanotubes under visible light. 2020 , 46, 3353-3366	7
722	Particulate Photocatalysts for Light-Driven Water Splitting: Mechanisms, Challenges, and Design Strategies. 2020 , 120, 919-985	765
721	TiO ₂ and N-TiO ₂ -photocatalytic degradation of salicylic acid in water: characterization of transformation products by mass spectrometry. 2020 , 27, 28469-28479	3
720	In situ synthesis and exhaustion of nano TiO ₂ on fabric samples using laser ablation method. 2020 , 111, 122-128	8
719	Photocatalytic Synthesis of p-Anisaldehyde in a Mini Slurry-Bubble Reactor under Solar Light Irradiation. 2020 , 98, 119-126	0
718	Photocatalytic and photothermocatalytic applications of cerium oxide-based materials. 2020 , 109-167	8
717	Structured photocatalysts for the removal of emerging contaminants under visible or solar light. 2020 , 41-98	4
716	Ash based nanocomposites for photocatalytic degradation of textile dye pollutants: A review. 2020 , 241, 122405	42
715	Green fabrication of silver imprinted titania / silica nanospheres as robust visible light-induced photocatalytic wastewater purification. 2020 , 241, 122403	10
714	Synergetic effects of defects and acid sites of 2D-ZnO photocatalysts on the photocatalytic performance. 2020 , 385, 121527	17
713	Recent advances in heterometallic polyoxotitanium clusters. 2020 , 404, 213099	27
712	Fabrication of ZnO/FeVO ₄ heterojunction nanocomposite with high catalytic activity in photo-Fenton-like process. 2020 , 817, 152702	19
711	Utilization of nickel-electroplating wastewaters in manufacturing of photocatalysts for water purification. 2020 , 134, 208-216	7
710	The elusive photocatalytic water splitting reaction using sunlight on suspended nanoparticles: is there a way forward?. 2020 , 10, 304-310	24
709	Reactive and morphological trends on porous anodic TiO ₂ substrates obtained at different annealing temperatures. 2020 , 45, 4376-4389	10
708	Photoluminescence study of interfacial charge transfer and photocatalytic activity in titanium dioxide/copper multilayer film. 2020 , 108, 104886	2
707	Anaerobically photoreductive degradation by CdS nanocrystal: Biofabrication process and bioelectron-driven reaction coupled with <i>Shewanella oneidensis</i> MR-1. 2020 , 154, 107466	9

706	Nonprecious anodic catalysts for low-molecular-hydrocarbon fuel cells: Theoretical consideration and current progress. 2020 , 77, 100805	62
705	Production of Biodegradable Film Based on Polylactic Acid, Modified with Lycopene Pigment and TiO ₂ and Studying Its Physicochemical Properties. 2020 , 28, 433-444	44
704	Photocatalytic degradation and kinetic modeling of azo dye using bimetallic photocatalysts: effect of synthesis and operational parameters. 2020 , 27, 2992-3006	15
703	Nonaqueous synthesis of TiO ₂ nanorods using inductively coupled plasma. 2020 , 46, 8615-8624	
702	Enhanced titanium dioxide photocatalyst embolized on micropores silicon wafer: an experimental approach. 2020 , 95, 2730	0
701	Tetraphenylporphyrin decorated anatase TiO ₂ catalysts for the visible light photocatalytic oxidation of gaseous ammonia at room temperature. 2020 , 506, 144421	4
700	Modification of sulfide-based photocatalyst with zinc- and nickel-containing compounds: Correlation between photocatalytic activity and photoelectrochemical parameters. 2020 , 151, 286-294	6
699	Development of photocatalytic paint based on TiO and photopolymer resin for the degradation of organic pollutants in water. 2020 , 704, 135406	38
698	Modification of TiO ₂ with hBN: high temperature anatase phase stabilisation and photocatalytic degradation of 1,4-dioxane. 2020 , 3, 015009	5
697	Magnetron co-sputtered TiO ₂ /SiO ₂ /Ag nanocomposite thin coatings inhibiting bacterial adhesion and biofilm formation. 2020 , 384, 125322	24
696	Nanomaterial Fate in Seawater: A Rapid Sink or Intermittent Stabilization?. 2020 , 8,	9
695	Bactericidal Activity of TiO Nanotube Thin Films on Si by Photocatalytic Generation of Active Oxygen Species. 2020 , 36, 12668-12677	4
694	Semiconductor based photocatalytic degradation of pesticides: An overview. 2020 , 20, 101128	31
693	Rare-earth-doped TiO rutile as a promising ferromagnetic alloy for visible light absorption in solar cells: first principle insights.. 2020 , 10, 35505-35515	6
692	Sol-gel powder synthesis in the TiO ₂ -TeO ₂ -ZnO system: Structural characterization and properties. 2020 , 13, 7132-7146	4
691	Radiation damage induced by reactor neutrons in nano-anatase TiO ₂ thin film. 2020 , 177, 109114	1
690	Enhanced photocatalytic degradation of sulfadiazine via g-C ₃ N ₄ /carbon dots nanosheets under nanoconfinement: Synthesis, Biocompatibility and Mechanism. 2020 , 8, 104612	7
689	How different dopants leads to difference in photocatalytic activity in doped TiO ₂ ?. 2020 , 46, 27308-27317	6

688	Copper phosphide promoted BiVO ₄ photocatalysts for the degradation of sulfamethoxazole in aqueous media. 2020 , 8, 104340	13
687	Effect of the Method of Synthesis on the Photocatalytic and Sorption Properties for Potassium Polytitanates Doped with Di- and Trivalent Metal Ions. 2020 , 65, 1127-1134	4
686	Preparation and characterization of (WO ₃ :Co ₃ O ₄) nano catalyst for fuel cell application. 2020 , 1591, 012017	
685	Effect of the addition of functionalized TiO nanotubes and nanoparticles on properties of experimental resin composites. 2020 , 36, 1544-1556	6
684	Synthesis of V- and Mo-doped/codoped TiO ₂ powders for photocatalytic degradation of methylene blue. 2020 , 24, 100557	9
683	Tuning of TiO ₂ nanoparticles incorporation in poly methyl methacrylate for synthesis of polymer nanocomposites for promising biomedical application. 2020 , 30, 137-144	5
682	1D Titanium Dioxide: Achievements in Chemical Sensing. 2020 , 13,	9
681	TiO ₂ Nanoparticles and Epoxy-TiO ₂ Nanocomposites: A Review of Synthesis, Modification Strategies, and Photocatalytic Potentialities. 2020 , 30, 4829-4846	15
680	Atmospheric Pressure Plasma Deposition of TiO: A Review. 2020 , 13,	13
679	Imparting self-cleaning property in textiles. 2020 , 191-212	
678	Airborne reactive oxygen species (ROS) is associated with nano TiO ₂ concentrations in aerosolized cement particles during simulated work activities. 2020 , 22, 1	0
677	Lattice disorders of TiO ₂ and their significance in the photocatalytic conversion of CO ₂ . 2020 , 109-233	0
676	Bright and slip-proof engineered cementitious composites with visible light activated photo-catalysis property for pavement in tunnels. 2020 , 114, 103788	5
675	Influence of Inorganic Bases on the Structure of Titanium Dioxide-Based Microsheets. 2020 , 5, 23703-23717	1
674	Biofilm Control Strategies: Engaging with the Public. 2020 , 9,	0
673	Facile synthesis and comparative study for the optical performance of different TiO ₂ phases doped PVA nanocomposite films. 2020 , 597, 412415	10
672	A microscopic and macroscopic investigation of the adsorption of N719 dye on ZnO nanopowders (ZNP) and ZnO nanorods (ZNR) for dye sensitized solar cells using statistical physics treatment and DFT simulation.. 2020 , 10, 27615-27632	6
671	Recent Advances in Noble Metal Catalysts for Hydrogen Production from Ammonia Borane. 2020 , 10, 788	17

670	Kinetic Study of Cyanide Degradation from Gold mining wastewater Using Photocatalysis. 2020 , 844, 012011	
669	Aerogel-Based TiO ₂ Stable Inks for Direct Inkjet Printing of Nanostructured Layers. 2020 , 2020, 1-9	3
668	Influence of Preparation Methods of TiO ₂ Nano-Particle on Photodegradation of Methylene Blue. 2020 , 998, 84-89	0
667	Nanoparticles aided AOP for degradation of p-nitro benzoic acid. 2020 , 32, 519-523	1
666	Three-dimensional hierarchical nanostructured porous TiO ₂ aerogel/Cobalt based metal-organic framework (MOF) composite as an electrode material for supercapattery. 2020 , 32, 101750	14
665	Thermal techniques as a tool for the direction of the preparation of photocatalytically efficient titania thin films and powders. 2020 , 146, 1121	0
664	Obtaining TiO ₂ and Fe ₂ O ₃ from Ilmenite via Alkaline Fusion Method. 2020 , 1010, 385-390	0
663	Fabrication of dual-phase TiO ₂ /WO ₃ with post-illumination photocatalytic memory. 2020 , 44, 20375-20386	6
662	Kinetic Studies on the Catalytic Degradation of Rhodamine B by Hydrogen Peroxide: Effect of Surfactant Coated and Non-Coated Iron (III) Oxide Nanoparticles. 2020 , 12,	3
661	Understanding the Role of Silver Nanostructures and Graphene Oxide Applied as Surface Modification of TiO in Photocatalytic Transformations of Rhodamine B under UV and Vis Irradiation. 2020 , 13,	5
660	Preparation of Fe Doped High-Ordered TiO Nanotubes Arrays with Visible Photocatalytic Activities. 2020 , 10,	3
659	Removal of Diclofenac in Effluent of Sewage Treatment Plant by Photocatalytic Oxidation. 2020 , 12, 2902	2
658	Hydrogen Production through Glycerol Photoreforming on TiO/Mesoporous Carbon: Influence of the Synthetic Method. 2020 , 13,	2
657	Core-crown Quantum Nanoplatelets with Favorable Type-II Heterojunctions Boost Charge Separation and Photocatalytic NO Oxidation on TiO ₂ . 2020 , 12, 6329-6343	6
656	Particle size effect on the photocatalytic kinetics of barium titanate powders. 2020 , 10, 6274-6284	3
655	Improving the photocatalytic hydrogen production of SrTiO ₃ by in situ loading ethylene glycol as a co-catalyst. 2020 , 7, 4133-4141	2
654	Anatase/Rutile Transition and Photo-Induced Conductivity of Highly Yb-Doped TiO ₂ Films Deposited by Acid Sol-Gel Dip-Coating Method. 2020 , 49, 6369-6379	1
653	Effect of Calcination Time on the Physicochemical Properties and Photocatalytic Performance of Carbon and Nitrogen Co-Doped TiO ₂ Nanoparticles. 2020 , 10, 847	6

652	New titania-based photocatalysts for hydrogen production from aqueous-alcoholic solutions of methylene blue.. 2020 , 10, 34137-34148	3
651	Effects in Band Gap for Photocatalysis in TiO ₂ Support by Adding Gold and Ruthenium. 2020 , 8, 1032	10
650	Photocatalytic Degradation of Phenol and Methyl Orange with Titania-Based Photocatalysts Synthesized by Various Methods in Comparison with ZnO/Graphene Oxide Composite. 2020 , 63, 1215-1226	2
649	Engineering materials with light: recent progress in digital light processing based 3D printing. 2020 , 8, 13896-13917	26
648	Effect of the electrolyte chemical nature on the formation and characteristics of TiO ₂ nanotubes synthesized by anodic oxidation using a Ti cathode. 2020 , 31, 15907-15918	2
647	Preparation of TiO ₂ Nanoparticle Aggregates and Capsules by the "Two-Emulsion Method" 2020 , 4, 57	
646	Oxo-Titanium(IV) Complex/Polymer Composites-Synthesis, Spectroscopic Characterization and Antimicrobial Activity Test. 2020 , 21,	0
645	Solar Photocatalysis for Emerging Micro-Pollutants Abatement and Water Disinfection: A Mini-Review. 2020 , 12, 10047	5
644	Plant mediated synthesis of AgNPs and its applications: an overview. 2020 , 1-17	5
643	Efficient sunlight driven CO ₂ reduction on Graphene-wrapped Cu-Pt/rTiO ₂ @ SiO ₂ . 2020 , 3, 734-741	1
642	Virtually Transparent TiO/Polyelectrolyte Thin Multilayer Films as High-Efficiency Nanoporous Photocatalytic Coatings for Breaking Down Formic Acid and for Removal. 2020 , 12, 55766-55781	3
641	The Photoelectric Behavior and Antimicrobial Effect of Titanium Dioxide Deposition for Dental Implants. 2020 , 865, 97-103	
640	Hydrogen production through photoreforming of methanol by Cu(s)/TiO ₂ nanocatalyst: Optimization and simulation. 2020 , 21, 100709	4
639	3D Printed Fully Recycled TiO-Polystyrene Nanocomposite Photocatalysts for Use against Drug Residues. 2020 , 10,	7
638	Ocimum tenuiflorum leaf extract as a green mediator for the synthesis of ZnO nanocapsules inactivating bacterial pathogens. 2020 , 74, 3431-3444	8
637	Investigation on photo-induced mechanistic activity of GO/TiO hybrid nanocomposite against wound pathogens. 2020 , 30, 508-525	7
636	Selective Organic Transformations over Cadmium Sulfide-Based Photocatalysts. 2020 , 10, 6262-6280	91
635	Electrochemical Disposition of Titanium Dioxide Photocatalyst on Micropores Silicon Wafer for Water Treatment Application. 2020 , 736, 042015	0

634	Improved Photocatalyzed Degradation of Phenol, as a Model Pollutant, over Metal-Impregnated Nanosized TiO. 2020 , 10,	10
633	Hydrophobic octadecylamine-functionalized graphene/TiO ₂ hybrid coating for corrosion protection of copper bipolar plates in simulated proton exchange membrane fuel cell environment. 2020 , 45, 15380-15389 ²⁶	
632	Density Functional Theory investigation of rhombohedral multiferroic oxides for photocatalytic water splitting and organic photodegradation. 2020 , 400, 112656	12
631	Characterization of nanotubular oxide layer grown on Ti14wt.%Nb alloy by anodization and its performance in photoelectrocatalytic process. 2020 , 24, 1877-1888	0
630	Fabrication and characterization of Schottky barrier diodes on rutile TiO ₂ . 2020 , 7, 065903	5
629	Efficient N, Fe Co-Doped TiO ₂ Active under Cost-Effective Visible LED Light: From Powders to Films. 2020 , 10, 547	7
628	Comprehensive review and future perspectives of efficient N-doped, Fe-doped and (N,Fe)-co-doped titania as visible light active photocatalysts. 2020 , 178, 109429	18
627	Metal-Organic Frameworks as Possible Candidates for Photocatalytic Degradation of Dyes in Wastewater. 2020 , 65-91	1
626	Recent Advancement in Visible-Light-Responsive Photocatalysts in Heterogeneous Photocatalytic Water Treatment Technology. 2020 , 167-196	12
625	In-situ nitrogen-doped black TiO ₂ with enhanced visible-light-driven photocatalytic inactivation of <i>Microcystis aeruginosa</i> cells: Synthesization, performance and mechanism. 2020 , 272, 119019	34
624	Surface plasma treatment of the electrospun TiO ₂ /PVP composite fibers in different atmospheres. 2020 , 523, 146381	8
623	Behavior and Bio-Interactions of Anthropogenic Particles in Marine Environment for a More Realistic Ecological Risk Assessment. 2020 , 8,	27
622	Effects of Elemental Chemical State in NiFe ₂ O ₄ @TiO ₂ on the Photocatalytic Performance. 2020 , 35, 320-326	1
621	Rapid proton exchange between surface bridging hydroxyls and adsorbed molecules on TiO ₂ . 2020 , 277, 119234	10
620	A DFT study on production of hydrogen from biomass-derived formic acid catalyzed by Pt/TiO ₂ . 2020 , 45, 20993-21003	5
619	Reforming of Rice Ash Waste by Incorporated Nanotitania in Silica Framework for Photo-catalytic Treatment of Wastewater. 2020 , 34, e5824	3
618	Photocatalytic ozonation of wastewater: a review. 2020 , 18, 1491-1507	47
617	Photocatalytic degradation of a typical agricultural chemical: metalaxyl in water using TiO ₂ under solar irradiation. 2020 , 2, 1	4

616	Oxide nanotubes formation by anodic process and their application in photochemical reactions for heavy metal removal. 2020 , 277-303	0
615	Solar Degradation of Sulfamethazine Using rGO/Bi Composite Photocatalysts. 2020 , 10, 573	5
614	Investigation of electro-optical and dielectric properties of nematic liquid crystal dispersed with biowaste based porous carbon nanoparticles: Increased birefringence for display applications. 2020 , 314, 113643	8
613	Europium Doped TiO ₂ /ZnO Heterostructure for Photodegradation of Dyes. 2020 , 5, 2981-2984	2
612	Effect of Synthesis Conditions on the Structural, Photocatalytic, and Self-Cleaning Properties of TiO ₂ Nanoparticles. 2020 , 62, 120-130	5
611	Nanotechnology and remediation of agrochemicals. 2020 , 487-533	1
610	Preparation of FeO/SiO ₂ /TiO ₂ /CeVO Nanocomposites: Investigation of Photocatalytic Effects on Organic Pollutants, Bacterial Environments, and New Potential Therapeutic Candidate Against Cancer Cells. 2020 , 11, 192	14
609	Black TiO ₂ Thin Films Production Using Hollow Cathode Hydrogen Plasma Treatment: Synthesis, Material Characteristics and Photocatalytic Activity. 2020 , 10, 282	7
608	Relaxation dynamics of photoexcitations in TiO ₂ and its composites with Au/carbon nanotube (graphene). 2020 , 139, 105970	2
607	Stabilizer-free low-acid rapid synthesis of highly stable transparent aqueous titania nano sol and its photocatalytic activity. 2020 , 305, 112842	4
606	Advanced materials for photocatalytic applications: the challenge ahead. 2020 , 3-8	3
605	Photocatalytic degradation and photo-generated hydrophilicity of Methylene Blue over ZnO/ZnCr ₂ O ₄ nanocomposite under stimulated UV light irradiation. 2020 , 115, 107889	16
604	Nanoscale materials for the treatment of water contaminated by bacteria and viruses. 2020 , 261-305	
603	Nickel doped TiO ₂ films by a modified laser plasma source for photocatalytic applications. 2020 , 15, C03039-C03039	
602	Polyacrylamide hybrid nanocomposites hydrogels for efficient water treatment. 2020 , 29, 455-466	5
601	Photocatalytic properties of hybrid materials based on a multicharged polymer matrix with encored TiO ₂ and noble metal (Pt, Pd or Au) nanoparticles. 2020 , 44, 7169-7174	4
600	Synthesis of RGO/NiO nanocomposites adopting a green approach and its photocatalytic and antibacterial properties. 2020 , 247, 122906	21
599	Photocatalytic membrane filtration and its advantages over conventional approaches in the treatment of oily wastewater: A review. 2020 , 15, e2533	17

598	Effect of Corona Discharge Plasma and Ozone on the Rate of the Photocatalytic Oxidation of Acetone and Benzene Vapors. 2020 , 12, 141-147	
597	Synthesis of Titanium Oxide Nanoparticles Using Root Extract of <i>Kniphofia foliosa</i> as a Template, Characterization, and Its Application on Drug Resistance Bacteria. 2020 , 2020, 1-10	25
596	Microfluidic Synthesis of Functional Materials as Potential Sorbents for Water Remediation and Resource Recovery. 2020 ,	0
595	The Photocatalytic Activity of Titania Coatings Produced by Electrochemical and Chemical Oxidation of Ti6Al4V Substrate, Estimated According to ISO 10678:2010 The Photocatalytic Activity of Titania Coatings Produced by Electrochemical and Chemical Oxidation of Ti6Al4V Substrate, Estimated According to ISO 10678:2010. 2020 , 13,	0
594	Growth of Sb2S3 semiconductor thin film on different morphologies of TiO2 nanostructures. 2020 , 131, 110980	4
593	Effect of Annealing Temperature on Spatial Atomic Layer Deposited Titanium Oxide and Its Application in Perovskite Solar Cells. 2020 , 10,	6
592	On the importance of catalysis in photocatalysis: Triggering of photocatalysis at well-defined anatase TiO crystals through facet-specific deposition of oxygen reduction cocatalyst. 2020 , 152, 244702	5
591	Anisotropic alignments of hierarchical LiSiO/TiO @nano-C anode//LiMnPO@nano-C cathode architectures for full-cell lithium-ion battery. 2020 , 7, 863-880	15
590	Frequency and temperature dependence of dielectric properties and capacitance-voltage in GO/TiO2/n-Si MOS device. 2020 , 126, 1	10
589	Assessment of atomic layer deposited TiO2 photocatalytic self-cleaning by quartz crystal microbalance. 2020 , 38, 043404	2
588	Development of photocatalysts and system optimization for CO2 photoreduction. 2020 , 39-73	1
587	Grain size effect on photocatalytic activity of TiO2 thin films grown by atomic layer deposition. 2020 , 709, 138215	8
586	Eco-Friendly Manufacturing of Nano-TiO2 Coated Cotton Textile with Multifunctional Properties. 2020 , 21, 90-102	6
585	Photocatalytic properties of atomic layer deposited TiO2 inverse opals and planar films for the degradation of dyes. 2020 , 512, 145693	11
584	Antimicrobial cationic acrylate-based hybrid coatings against microorganism contamination. 2020 , 142, 105576	7
583	Titanium Dioxide Nanoparticles: Prospects and Applications in Medicine. 2020 , 10,	159
582	TiO2 Nanoparticles. 2020 , 1-66	1
581	Review on microfluidic device applications for fluids separation and water treatment processes. 2020 , 2, 1	9

580	Determination of crystal phases in mixed TiO ₂ paint films by non-invasive optical spectroscopies. 2020 , 155, 104739	5
579	The Influence of The Light-Activated Titania P25 on Human Breast Cancer Cells. 2020 , 10, 238	5
578	A critical review on application of photocatalysis for toxicity reduction of real wastewaters. 2020 , 258, 120694	250
577	Photodegradation of Gas Phase Benzene by SnO ₂ Nanoparticles by Direct Hole Oxidation Mechanism. 2020 , 10, 117	2
576	Sliding of drops on mesoporous thin films. 2020 , 22, 5915-5919	1
575	Supported TiO ₂ on Kaolin, Cordierite, and Calcite for Photocatalytic Removal of Dyes from Wastewater. 2020 , 48, 1900361	1
574	Antimicrobial Nanostructured Coatings: A Gas Phase Deposition and Magnetron Sputtering Perspective. 2020 , 13,	13
573	The Nanosized Dye Adsorbents for Water Treatment. 2020 , 10,	66
572	Some issues limiting photo(cata)lysis application in water pollutant control: A critical review from chemistry perspectives. 2020 , 174, 115605	52
571	Photodegradation of 4-nitrophenol over B-doped TiO nanostructure: effect of dopant concentration, kinetics, and mechanism. 2020 , 27, 10966-10980	25
570	Role of cerium (Ce) dopant on structural, optical and photocatalytic properties of MgO nanoparticles by wet chemical route. 2020 , 31, 2799-2808	6
569	Adsorption of dyes onto modified titanium dioxide. 2020 , 85-160	
568	Titanium dioxideBased nanomaterials for photocatalytic water treatment. 2020 , 1-56	2
567	On the Effect of the Washcoat on the Partial Oxidation and Steam Reforming of Ethanol on Ni/Al ₂ O ₃ Monolith in Short-Contact-Time Reactors. 2020 , 34, 2205-2213	7
566	Influence of 2,4-Diamino-6-Phenyl-1-3-5-triazine on bio synthesized TiO ₂ dye-sensitized solar cell fabricated using poly (ethylene glycol) polymer electrolyte. 2020 , 7, 025507	12
565	Photocatalytic activity and doping effects of BiFeO nanoparticles in model organic dyes. 2020 , 6, e03237	41
564	Enhancement of Oxidation Efficiency of Elemental Mercury by CeO/TiO at Low Temperatures Governed by Different Mechanisms. 2020 , 5, 1796-1804	5
563	Enhanced photocatalytic activity of ZnO sensitized by carbon quantum dots and application in phenol wastewater. 2020 , 100, 109674	40

562	Connecting the surface structure, morphology and photocatalytic activity of Ag ₂ O: An in depth and unified theoretical investigation. 2020 , 509, 145321	29
561	Highly dispersed FeOOH to enhance photocatalytic activity of TiO ₂ for complete mineralisation of herbicides. 2020 , 511, 145479	13
560	Enhancement of photocatalytic degradation of ibuprofen contained in water using a static mixer. 2020 , 156, 54-63	6
559	N,Fe-Doped Carbon Dot Decorated Gear-Shaped WO ₃ for Highly Efficient UV-Vis-NIR-Driven Photocatalytic Performance. 2020 , 10, 416	8
558	Highly efficient visible light driven photocatalytic activity of graphene and CNTs based Mg doped ZnO photocatalysts: A comparative study. 2020 , 245, 116892	14
557	Catalytic and photocatalytic oxidation of diphenyl sulphide to diphenyl sulfoxide over titanium dioxide doped with vanadium, zinc, and tin.. 2020 , 10, 4023-4031	9
556	Microbiological air analysis of industrial premises and photocatalysis efficiency for its disinfection. 2020 , 17, 00126	0
555	Synthesis and Characterization of Mesoporous Silica SBA-15 and ZnO/SBA-15 Photocatalytic Materials from the Ash of Brickyards. 2020 , 2020, 1-8	9
554	Nanostructured TiO ₂ for light-driven CO ₂ conversion into solar fuels. 2020 , 8, 040914	15
553	Carbon-supported semiconductor nanoparticles as effective photocatalysts for water and wastewater treatment. 2020 , 245-278	2
552	Metal-oxide semiconductor photocatalysts for the degradation of organic contaminants. 2020 , 23-38	1
551	A review on TiO ₂ /g-C ₃ N ₄ visible-light- responsive photocatalysts for sustainable energy generation and environmental remediation. 2020 , 8, 103896	97
550	Photocatalytic degradation of pharmaceutical and pesticide compounds (PPCs) using doped TiO ₂ nanomaterials: A review. 2020 , 3, 46-61	72
549	Fabrication and characterization of transparent Cr-decorated TiO ₂ nanoporous electrode for enhanced photo-electrocatalytic performance. 2020 , 177, 109375	6
548	Boosted photocatalytic elimination toward Cr(VI) and organic pollutants over BUC-21/Cd _{0.5} Zn _{0.5} S under LED visible Light. 2020 , 129, 110903	12
547	Light-Activated Heterostructured Nanomaterials for Antibacterial Applications. 2020 , 10,	27
546	Synthesis of surface molecularly imprinted poly-o-phenylenediamine/TiO ₂ /carbon nanodots with a highly enhanced selective photocatalytic degradation of pendimethalin herbicide under visible light. 2020 , 151, 104580	19
545	Study on Effect of the Solvothermal Temperature on Synthesis of 3D Hierarchical TiO ₂ Nanoflower and Its Application as Photocatalyst in Degradation of Organic Pollutants in Wastewater. 2021 , 46, 6315-6331 ¹	1

544	Synthesis of methyl acetate by nano-photocatalyst based on titania: Temperature dependence studies. 2021 , 41, 851-855	1
543	Inorganic/Organic Nanocomposites Based on Aggregation-Induced Emission Luminogens. 2021 , 31, 2006952	14
542	An overview on combined electrocoagulation-degradation processes for the effective treatment of water and wastewater. 2021 , 263, 127907	30
541	Design considerations for photocatalytic structured packed bed reactors. 2021 , 403, 126355	7
540	Photocatalytic ozonation of offshore produced water by TiO nanotube arrays coupled with UV-LED irradiation. 2021 , 402, 123456	25
539	Structural and optical properties of multilayered un-doped and cobalt doped TiO ₂ thin films. 2021 , 536, 147830	7
538	Titanium dioxide nanostructures as efficient photocatalyst: Progress, challenges and perspective. 2021 , 45, 3569-3589	28
537	Sputtered crystalline TiO film drives improved surface properties of titanium-based biomedical implants. 2021 , 119, 111638	16
536	Interface excess on Sb-doped TiO ₂ photocatalysts and its influence on photocatalytic activity. 2021 , 47, 619-625	1
535	Nd ³⁺ doped TiO ₂ nanocrystals as self-referenced optical nanothermometer operating within the biological windows. 2021 , 317, 112445	7
534	Synthesis and doping of TiO ₂ thin films via a new type of laser plasma source. 2021 , 184, 109890	3
533	The effect of different morphology of fluoride-mediated TiO ₂ based on Ostwald ripening on photocatalytic activity. 2021 , 610, 125702	8
532	Photo-Chlorine Production with Hydrothermally Grown and Vacuum-Annealed Nanocrystalline Rutile. 2021 , 12, 65-77	0
531	Removal of organic pollutants from water by Fe ₂ O ₃ /TiO ₂ based photocatalytic degradation: A review. 2021 , 21, 101230	20
530	Arsenic Adsorption by TiO ₂ Nanoparticles Under Conditions Similar to Groundwater: Batch and Column Studies. 2021 , 15, 79-91	4
529	Performance analysis of Pt/TiO ₂ /C catalyst using a multi-scale and two-phase proton exchange membrane fuel cell model. 2021 , 366, 137484	8
528	Bi-functional NiO-ZnO nanocomposite: Synthesis, characterization, antibacterial and photo assisted degradation study. 2021 , 32, 131-143	11
527	Recent advances in TiO ₂ -functionalized textile surfaces. 2021 , 22, 100890	24

526	Photocatalytic and electrocatalytic CO ₂ conversion: from fundamental principles to design of catalysts. 2021 , 96, 1161-1175	11
525	A review on in vivo and in vitro nanotoxicological studies in plants: A headlight for future targets. 2021 , 208, 111697	20
524	Development of a rapid method for assessing the efficacy of antibacterial photocatalytic coatings. 2021 , 225, 122009	1
523	Enhanced photocatalytic performance of ammonia self-etched holey g-C ₃ N ₄ decorated with anatase nanoflakes by a facile synthesis process. 2021 , 542, 148580	6
522	Influence of mixing methods on the NO _x reduction capability and electrical properties of photocatalytic cementitious systems. 2021 , 115, 103840	4
521	Graphene quantum dots incorporated UiO-66-NH ₂ as a promising photocatalyst for degradation of long-chain oleic acid. 2021 , 762, 138129	9
520	Engineering SiO ₂ /TiO ₂ binary aerogels for sun protection and cosmetic applications. 2021 , 169, 105099	5
519	Ultrafast microwave-assisted hydrothermal synthesis and photocatalytic behaviour of ferroelectric Fe ³⁺ -doped BaTiO ₃ nanoparticles under simulated sunlight. 2021 , 360, 90-98	7
518	Apparatus-dependent sol-gel synthesis of TiO ₂ nanoparticles for dye-sensitized solar cells. 2021 , 42, 432-439	3
517	Photocatalytic Degradation of Dyes in Wastewater Using Metal Organic Frameworks. 2021 , 261-285	0
516	Optimization of pH and radiation time for photocatalytic activity of methyl orange using TiO ₂ . 2021 , ,	
515	Electrospun-based TiO ₂ nanofibers for organic pollutant photodegradation: a comprehensive review. 2019 ,	1
514	FeO enhanced high-temperature arsenic resistance of CeO-LaO/TiO catalyst for selective catalytic reduction of NO with NH ₃ . 2021 , 11, 9395-9402	2
513	Photocatalytic behavior of titania coatings fabricated by suspension and solution precursor plasma spray processes. 2021 , 36, 868-875	3
512	Perspectives and state of the art in producing solar fuels and chemicals from CO ₂ . 2021 , 181-219	0
511	Effect of operating parameters on photocatalytic degradation of dyes by using graphitic carbon nitride. 2021 , 23-43	1
510	Methodologies of synthesis of titania and titania-graphene photocatalysts. 2021 , 83-94	
509	Ultrasensitive electrochemical determination of phosphate in water by using hydrophilic TiO modified glassy carbon electrodes. 2021 , 13, 996-1002	2

508	Research progress of semiconductor photocatalysis applied to environmental governance. 631, 012022	2
507	TiO ₂ /graphene oxide nanocomposite with enhanced photocatalytic capacity for degradation of 2,4-dichlorophenoxyacetic acid herbicide. 2021 , 4, 103-112	3
506	Basic concepts and processing of nanostructures materials. 2021 , 1-32	0
505	High-temperature vanadium-free catalyst for selective catalytic reduction of NO with NH ₃ and theoretical study of La ₂ O ₃ over CeO ₂ /TiO ₂ . 2021 , 11, 6112-6125	1
504	Determination of Crystal-Field Splitting Induced by Thermal Oxidation of Titanium. 2021 , 125, 50-56	2
503	Black titania an emerging photocatalyst: review highlighting the synthesis techniques and photocatalytic activity for hydrogen generation. 2021 , 3, 5487-5524	1
502	Synthesis of TiO ₂ Tubes Via Dissolution of TiOSO ₄ Rod Using H ₂ O ₂ . 2021 , 24,	0
501	Preparation of Anatase Titanium Dioxide Nanoparticle Powders Submitting Reactive Oxygen Species (ROS) under Dark Conditions. 2021 , 12, 89-110	1
500	Mechanochemical Synthesis of TiO ₂ Nanoparticles and Their Self-organization at Interfaces to Produce Emulsion-Templated Photocatalytic Porous Polymers. 2021 , 31, 1912-1930	1
499	Recent advances on TiO ₂ photocatalysis for wastewater degradation: fundamentals, commercial TiO ₂ materials, and photocatalytic reactors. 2021 , 25-65	1
498	Characterization and physicochemical properties of nanomaterials. 2021 , 97-121	1
497	Photocatalysts for Hydrogen Production. 2021 ,	1
496	Beta-FeOOH nanoparticles: a promising nano-based material for water treatment and remediation. 2021 , 23, 1	2
495	Nanocrystalline TiO ₂ Films: Synthesis and Low-Temperature Luminescent and Photovoltaic Properties. 2021 , 66, 117-123	2
494	C-,N- and S-Doped TiO ₂ Photocatalysts: A Review. 2021 , 11, 144	38
493	Using dyes to evaluate the photocatalytic activity. 2021 , 125-224	1
492	Nanomaterials for Textile Waste Treatment. 2021 , 663-684	
491	Detailed characterization of the Ti-O based thin films obtained by cathodic arc evaporation. 2021 , 62, 41-50	

490	Stability of the Photocatalytic Activity of TiO ₂ Deposited by Reactive Sputtering. 2021 , 24,	0
489	Photocatalytic degradation of diclofenac using TiO-CdS heterojunction catalysts under visible light irradiation. 2021 , 28, 18186-18200	8
488	Design Expert Application for Optimization of Ag/AgBr/TiO ₂ Visible Light Photocatalyst Preparation. 2021 , 93-102	
487	Sunlight-induced photocatalytic degradation of indigo carmine using Bi ₅ Ti ₃ FeO ₁₅ layered structure. 2021 , 228, 166207	2
486	Exploiting the properties of TiO ₂ thin films as a sensing layer on (MEMS)-based sensors for radiation dosimetry applications. 2021 , 11, 025209	2
485	Thermal stability and phase transformation of semi-crystalline mesostructured TiO ₂ in the presence of heteroelements. 2021 , 315, 110896	6
484	Recent progress in photocatalytic degradation of chlorinated phenols and reduction of heavy metal ions in water by TiO ₂ -based catalysts. 1-18	5
483	Visible-Ultraviolet Upconversion Carbon Quantum Dots for Enhancement of the Photocatalytic Activity of Titanium Dioxide. 2021 , 6, 4247-4254	21
482	Bulk and Nanocatalysts Applications in Advanced Oxidation Processes.	
481	Photocatalytic Hydrogen Evolution. 2021 , 77-105	
480	On the surface chemistry and the reuse of sulfur-doped TiO ₂ films as photocatalysts. 2021 , 261, 124231	7
479	Charge Carrier Processes and Optical Properties in TiO and TiO-Based Heterojunction Photocatalysts: A Review. 2021 , 14,	30
478	The Water Pathway and Microfluidics: A Potential Solution to the Global Water Crisis. 2021 , 690, 012045	
477	Solar Hydrogen from Glycerol-Water Mixture. 2021 , 8, 1-5	
476	Intensification of Heterogeneous Photocatalytic Reactions Without Efficiency Losses: The Importance of Surface Catalysis. 2021 , 151, 3105-3113	5
475	Comparison of processing parameter effects during magnetron sputtering and electrochemical anodization of TiO ₂ nanotubes on ITO/glass and glass substrates. 2021 , 63, 245-252	
474	TiO ₂ grafted activated carbon elaboration by milling: Composition effect on sorption and photocatalytic properties. 2021 , 408, 113108	3
473	Use of Different Natural Products to Control Growth of Titanium Oxide Nanoparticles in Green Solvent Emulsion, Characterization, and Their Photocatalytic Application. 2021 , 2021, 6626313	2

472	Fabrication of Carbon Nanofibers Decorated with Various Kinds of Metal Oxides for Battery Applications. 2021 , 14, 1353	6
471	Recent Development in Defects Engineered Photocatalysts: An Overview of the Experimental and Theoretical Strategies.	17
470	Recent development and future prospects of TiO ₂ photocatalysis. 2021 , 68, 738-769	17
469	Effect of Composite Composition in Nanofiber for Degradation of Humic Acid Solution. 1162, 87-92	
468	Advancements on Basic Working Principles of Photo-Driven Oxidative Degradation of Organic Substrates over Pristine and Noble Metal-Modified TiO ₂ . Model Case of Phenol Photo Oxidation. 2021 , 11, 487	2
467	Durability of self-cleaning cement-based materials. 2021 , 280, 122442	6
466	An Overview of Photoreactors and Computational Modeling for the Intensification of Photocatalytic Processes in the Gas-Phase: State-of-Art. 2021 , 9, 105068	5
465	Photocatalytic Technology for Palm Oil Mill Effluent (POME) Wastewater Treatment: Current Progress and Future Perspective. 2021 , 14,	6
464	Nanoscale control of high-quality boron-doped ultrananodiamond on dioxide titanium nanotubes as a porous composite. 2021 , 12, 597-612	2
463	A novel method for fast and continuous preparation of superfine titanium dioxide nanoparticles in microfluidic system. 2021 , 60, 61-61	2
462	Photocatalytic Degradation of Valsartan by MoS ₂ /BiOCl Heterojunctions. 2021 , 11, 650	3
461	The effect of mechanochemical, microwave and hydrothermal modification of precipitated TiO ₂ on its physical-chemical and photocatalytic properties. 2021 , 862, 158011	2
460	Single- and co-sensitization of triphenylamine-based and asymmetrical squaraine dyes on the anatase (001) surface for DSSC applications: Periodic DFT calculations. 2021 , 104, 107833	1
459	Modification of polyethylene terephthalate track etched membranes by planar magnetron sputtered Ti/TiO ₂ thin films. 2021 , 725, 138641	4
458	TiO nanoparticle coatings on glass surfaces for the selective trapping of leukemia cells from peripheral blood. 2021 , 109, 2142-2153	3
457	NaBr-Assisted Photoelectrochemical and Photochemical Integrated Process for Isomerization of Maleate Esters to Fumarate Esters. 2021 , 9, 6886-6893	1
456	Interaction of Titanium Dioxide with Formaldehyde in the Presence of Quartz Sand under Static and Dynamic Conditions. 2021 , 13, 1420	1
455	Carrier Blocking Layer Materials and Application in Organic Photodetectors. 2021 , 11,	6

454	Photocatalytic and Antibacterial Potency of Titanium Dioxide Nanoparticles: A Cost-Effective and Environmentally Friendly Media for Treatment of Air and Wastewater. 2021 , 11, 709	6
453	TiO ₂ assisted photocatalysts for degradation of emerging organic pollutants in water and wastewater. 2021 , 331, 115458	17
452	An Overview of Biosensors Based on Glutathione Transferases and for the Detection of Glutathione. 2021 , 33, 1852-1865	1
451	Effects of Zn:Ti molar ratios on the morphological, optical and photocatalytic properties of ZnO-TiO ₂ nanocomposites for application in dye removal. 2021 , 128, 105786	5
450	The Influence of Nd and Sm on the Structure and Properties of Sol-Gel-Derived TiO Powders. 2021 , 26,	5
449	Diatom Biosilica Doped with Palladium(II) Chloride Nanoparticles as New Efficient Photocatalysts for Methyl Orange Degradation. 2021 , 22,	2
448	Facile decoration of CdS nanoparticles on TiO ₂ : robust photocatalytic activity under LED illumination. 2021 ,	1
447	Eco-Friendly Colloidal Aqueous Sol-Gel Process for TiO ₂ Synthesis: The Peptization Method to Obtain Crystalline and Photoactive Materials at Low Temperature. 2021 , 11, 768	4
446	The Evolution of Photocatalytic Membrane Reactors over the Last 20 Years: A State of the Art Perspective. 2021 , 11, 775	4
445	Photo and thermoluminescence of Eu doped ZnO nanophosphors. 2021 , 32, 17080-17093	2
444	Enhanced dye-removal performance of Cu-TiO-fly ash composite by optimized adsorption and photocatalytic activity under visible light irradiation. 2021 , 1	2
443	Investigations on the Nonlinear Optical Properties of Eu ³⁺ : TiO ₂ Nanoparticles via Z-Scan Technique. 1039, 245-252	1
442	Antimicrobial Efficacy and Spectrum of Phosphorous-Fluorine Co-Doped TiO Nanoparticles on the Foodborne Pathogenic Bacteria , Typhimurium, Enterohaemorrhagic , , , and. 2021 , 10,	2
441	Aluminium-doped TiO ₂ nanotubes with enhanced light-harvesting properties. 2021 , 47, 18358-18366	4
440	TiO ₂ /In ₂ S ₃ S-scheme photocatalyst with enhanced H ₂ O ₂ -production activity. 1	15
439	Fly ash-based nanocomposites: a potential material for effective photocatalytic degradation/elimination of emerging organic pollutants from aqueous stream. 2021 , 28, 46910-46933	6
438	TiO ₂ /PANI/Graphene/PVA Hydrogel for Recyclable and Highly Efficient Photo-Electrocatalysts. 2021 , 60, 10033-10043	5
437	Simultaneous remediation of hexavalent chromium and organic pollutants in wastewater using period 4 transition metal oxide-based photocatalysts: a review. 2021 , 19, 4489	5

436	Multilayered TiO ₂ /TiO _{2-x} /TiO ₂ films deposited by reactive sputtering for photocatalytic applications. 2021 , 36, 3096-3108	1
435	A New Mechanism of the Selective Photodegradation of Antibiotics in the Catalytic System Containing TiO and the Inorganic Cations. 2021 , 22,	0
434	Synthesis of stable sols based on titanium dioxide, silicon and metal ion for use in photocatalysis. 2021 , 1989, 012019	
433	Influence of the Microwaves on the Sol-Gel Syntheses and on the Properties of the Resulting Oxide Nanostructures.	
432	Small-polaron-induced infrared opacification in rutile TiO ₂ . 2021 , 130, 075105	1
431	Progress of functionalized TiO ₂ -based nanomaterials in the construction industry: A comprehensive review. 2021 , 430, 132062	5
430	Defective Dopant-Free TiO ₂ as an Efficient Visible Light-Active Photocatalyst. 2021 , 11, 978	6
429	Effects of synthesis parameters on the properties and photocatalytic activity of the magnetic catalyst TiO ₂ /CoFe ₂ O ₄ applied to selenium photoreduction. 2021 , 42, 102163	4
428	EPR and CV studies cast further light on the origin of the enhanced hydrogen production through glycerol photoreforming on CuO:TiO ₂ physical mixtures. 2021 , 9, 105336	5
427	Enhanced visible light-triggered antibacterial activity of carbon quantum dots/polyurethane nanocomposites by gamma rays induced pre-treatment. 2021 , 185, 109499	6
426	Photocatalytic Applications of Titanium Dioxide (TiO ₂).	0
425	Applications of Titanium Dioxide Materials.	0
424	Nano-Titania Doped NR Foams: Influence on Photocatalysis and Physical Properties. 2021 , 190, 109640	0
423	Oxygen Vacancy and Adsorbed Superoxides Dependent Photocatalytic Activity of TiO ₂ Quantum Dot Thin Films for Degradation of Methylene Blue with Variation of Precursor Concentration. 2021 , 10, 081011	1
422	Environmental photochemistry with Sn/F simultaneously doped TiO nanoparticles: UV and visible light induced degradation of thiazine dye. 2021 , 112108	3
421	Localized phase transition of TiO ₂ thin films induced by sub-bandgap laser irradiation. 2021 , 39, 053402	1
420	Photocatalytic Degradation of Diazo Dye over Suspended and Immobilized TiO ₂ Catalyst in Swirl Flow Reactor: Kinetic Modeling. 2021 , 9, 1741	2
419	Experimental study and theoretical modeling of coating-speed-dependent optical properties of TiO ₂ -graphene-oxide thin films. 2021 , 30, 104867	2

4 ¹⁸	Heterogeneous photocatalytic materials for sustainable formation of high-value chemicals in green solvents. 2021 , 13, 100071	3
4 ¹⁷	Facile synthesis of Bi ₂ MoO ₆ -Ag ₂ MoO ₄ nanocomposite for the enhanced visible light photocatalytic removal of methylene blue and its antimicrobial application. 2021 , 337, 116350	24
4 ¹⁶	Photocatalysts synthesized via plant mediated extracts for degradation of organic compounds: A review of formation mechanisms and application in wastewater treatment. 2021 , 22, 100453	3
4 ¹⁵	ANTIMICROBIAL BIODEGRADABLE PACKAGING FOR SLICED BAKERY. 2021 , 15,	0
4 ¹⁴	Pristine and Janus chromium dichalcogenides: Potential photocatalysts for overall water splitting in wide solar spectrum under strain and electric field. 2021 , 230, 111258	1
4 ¹³	Synthesis of New Antibiotics Derivatives by the Photocatalytic Method: A Screening Research. 2021 , 11, 1102	0
4 ¹²	RuO ₂ /TiO ₂ photocatalysts prepared via a hydrothermal route: Influence of the presence of TiO ₂ on the reactivity of RuO ₂ in the artificial photosynthesis reaction. 2021 , 401, 288-296	3
4 ¹¹	Photoinduced Charge Transfer from a Semiconductor to a Metal Probed at the Single-Nanoparticle Level. 3473-3480	2
4 ¹⁰	Effects of various treatment procedures and pulse power modes on the photoelectric efficiency of Ti-PEO photocatalysts. 2021 , 270, 124705	
4 ⁰⁹	A New Generation of Energy Harvesting Devices.	
4 ⁰⁸	Iron-Zinc Co-Doped Titania Nanocomposite: Photocatalytic and Photobiocidal Potential in Combination with Molecular Docking Studies. 2021 , 11, 1112	4
4 ⁰⁷	CuCoO _x /BiVO multifunctional catalyst for organics degradation, water oxidation, and O reduction under visible light. 2021 , 419, 126515	1
4 ⁰⁶	Reactivity of anatase and rutile titanium dioxide powder with hydrogen peroxide vapour: Implication for reactive coating systems for laundry enzymes. 2021 , 391, 353-361	
4 ⁰⁵	In situ nanoremediation of soils and groundwaters from the nanoparticle's standpoint: A review. 2021 , 791, 148324	10
4 ⁰⁴	A critical review on ozone and co-species, generation and reaction mechanisms in plasma induced by dielectric barrier discharge technologies for wastewater remediation. 2021 , 9, 105758	10
4 ⁰³	Fast organic degradation on Ti- and Bi-based photocatalysts via co-deposited Pt and Ni(PO) nanoparticles. 2021 , 600, 629-638	1
4 ⁰²	PVDF-TiO ₂ core-shell fibrous membranes by microwave-hydrothermal method: Preparation, characterization, and photocatalytic activity. 2021 , 9, 106250	9
4 ⁰¹	Kinetic and reaction mechanism of generated by-products in a photocatalytic oxidation reactor: Model development and validation. 2021 , 419, 126411	6

400	Mechanical and Antibacterial Behavior of Photocatalytic Lightweight Engineered Cementitious Composites. 2021 , 33, 04021262	2
399	TiO ₂ -carbon microspheres as photocatalysts for effective remediation of pharmaceuticals under simulated solar light. 2021 , 275, 119169	9
398	Single-atomic Pt sites anchored on defective TiO ₂ nanosheets as a superior photocatalyst for hydrogen evolution. 2021 , 62, 1-10	23
397	Latest progress on the key operating parameters affecting the photocatalytic activity of TiO ₂ -based photocatalysts for hydrogen fuel production: A comprehensive review. 2021 , 303, 121207	20
396	Surface properties enhancement by sulfur-doping TiO ₂ films. 2021 , 143, 111460	2
395	Behavior of engineered nanoparticles in aquatic environmental samples: Current status and challenges. 2021 , 793, 148560	9
394	Aqueous selective photocatalytic oxidation of salicyl alcohol by TiO ₂ catalysts: Influence of some physico-chemical features. 2021 , 380, 16-24	0
393	Solar light assisted photocatalytic degradation of 1,4-dioxane using high temperature stable anatase W-TiO ₂ nanocomposites. 2021 , 380, 199-208	3
392	Effects of O ₂ and H ₂ O on TiO ₂ photocatalytic mass loss self-cleaning efficiency for thin hydrocarbons layers. 2021 , 421, 113510	
391	Preparation of a composite coating film via vapor induced phase separation for air purification and real-time bacteria photocatalytic inactivation. 2021 , 161, 106486	1
390	Effect of surface doping of TiO ₂ powders with Fe ions on the structural, optical and photocatalytic properties of anatase and rutile. 2022 , 160, 110308	2
389	Enabling photocatalytic hydrogen production over Fe-based MOFs by refining band structure with dye sensitization. 2022 , 429, 132217	5
388	Advances in nanotechnologies of waste water treatment: strategies and emerging opportunities. 2022 , 123-138	
387	Accurate prediction of band gap of materials using stacking machine learning model. 2022 , 201, 110899	2
386	Nanomaterials: Synthesis, physicochemical characterization, and biopharmaceutical applications. 2021 , 33-70	
385	Photocatalytic degradation of acetaminophen and caffeine using magnetite-hematite combined nanoparticles: kinetics and mechanisms. 2021 , 28, 17228-17243	4
384	High Efficient Photocatalytic Degradation of 3,7-Bis(Dimethylamino)-Phenothiazin-5-Ium Chloride Dye and Kinetics of H ₂ Evolution of N ₂ H ₄ H ₂ O by Synthesized CdS/NiS Nanocomposite by Electrochemical Method. 2021 , 10, 15-35	0
383	Challenges and solutions to water problems in Africa. 2021 , 35-56	

382	Self-cleaning textiles: structure, fabrication and applications. 2021 , 557-597	0
381	Applications of nanomaterials in wastewater treatment. 2021 , 43, 2877-2881	5
380	Synthesis and characterization of zinc-imidazolate coordination polymer and its use for photocatalytic degradation of methylene blue dye under visible light irradiation. 975, 012012	1
379	New Advances of the Nanotechnology in Textile Engineering: Functional Finishing with Quantum Dots and Others Nanoparticles. 2021 , 239-281	
378	Detonation Spraying of TiO ₂ -Ag: Controlling the Phase Composition and Microstructure of the Coatings. 161-169	4
377	Titania Coated Silica Nano-spheres as Catalyst in the Photodegradation of Hydrocarbons. 2006 , 147-151	5
376	Solar Disinfection of Water by TiO ₂ Photoassisted Processes: Physicochemical, Biological, and Engineering Aspects. 2010 , 443-472	1
375	Metal Doping of Semiconductors for Improving Photoactivity. 2013 , 269-286	2
374	Heterojunctions: Joining Different Semiconductors. 2013 , 311-327	1
373	Environmental Applications of Photocatalysis. 2013 , 35-66	11
372	The Keys of Success: TiO ₂ as a Benchmark Photocatalyst. 2013 , 85-101	3
371	A Review on Nano TiO ₂ Repellent in Paint. 2020 , 909-918	4
370	Implication of Porous TiO ₂ Nanoparticles in PEDOT:PSS Photovoltaic Devices. 2014 , 389-447	2
369	Cationic and Anionic Substitutions in Hydroxyapatite. 2015 , 1-68	3
368	Nanoecotoxicology: The State of the Art. 2015 , 301-319	2
367	Light-Triggered Anti-Infective Surfaces. 2017 , 241-266	2
366	Metal Oxide Nanocrystals and Their Properties for Application in Solar Cells. 2014 , 671-707	1
365	Environmental Profile of Nano-finished Textile Materials: Implications on Public Health, Risk Assessment, and Public Perception. 2020 , 57-83	1

364	Synthesis of Nanomaterials: Methods & Technology. 2020 , 15-21	8
363	Responses of Ceriodaphnia dubia to Photocatalytic Nano-Titanium dioxide Particles. 2010 , 1-21	1
362	Antimicrobial nanostructured coating. 2020 , 15, 291-311	3
361	Nanoengineered textiles: from advanced functional nanomaterials to groundbreaking high-performance clothing. 2020 , 611-714	4
360	Intrinsic properties of high-aspect ratio single- and double-wall anodic TiO ₂ nanotube layers annealed at different temperatures. 2020 , 352, 136479	13
359	Effect of calcinations on structural, optical and photocatalytic properties of a green photo-catalyst Burmeric roots powder 2020 , 216, 164804	2
358	From nano to micrometer size particles - A characterization of airborne cement particles during construction activities. 2020 , 398, 122838	4
357	Regeneration Studies of TiO ₂ Photocatalyst for Degradation of Phenol in a Batch System. 2019 , 19, 1327-1332	27
356	Facile fabrication of ordered mesoporous Bi/Ti-MCM-41 nanocomposites for visible light-driven photocatalytic degradation of methylene blue and CO oxidation. 2018 , 195, 174-183	19
355	CHAPTER 9:Photocatalytic Reactors in Environmental Applications. 270-295	1
354	Highly distorted mesoporous S/C/Ti ³⁺ doped black TiO ₂ for simultaneous visible light degradation of multiple dyes. 2020 , 44, 9830-9836	4
353	Synth�se, caract�risations et tests photocatalytiques d'un mat�riau argileux d'origine naturelle � base de beidellite fonctionnalis�e par TiO ₂ . 2012 , 100, 241-252	8
352	Electrically-active defects in reduced and hydrogenated rutile. 2021 , 36, 014006	1
351	Green synthesis and characterization of ZnO nanoparticles for photocatalytic degradation of anthracene. 2015 , 6, 045012	86
350	Photocatalytic Activity of Phosphorus and Nitrogen Co-Doped Carbon Quantum Dots/TiO ₂ Nanosheets. 2020 , 15, 2050151	4
349	Tunable Biomass Transformations by Means of Photocatalytic Nanomaterials. 2013 , 295-326	1
348	Synthesis of Nanocrystalline TiO ₂ and Reduced Titanium Oxides via Rapid and Exothermic Metathesis Reactions. 2006 , 18, 2381-2388	1
347	Kinetic Consideration of the Effect of Organic Impurities on Photocatalytic Phage Inactivation with TiO ₂ . 2006 , 32, 288-292	1

346	Structural and Optical Characterization of TiO ₂ Thin Films Prepared by Sol-Gel Process. 2012 , 121, 265-267	9
345	Synthesis of Nitrogen Doped Titanium Dioxide (TiO ₂) and its Photocatalytic Performance for the Degradation of Indigo Carmine Dye. 2013 , 2, 28-31	3
344	Metabolomic and proteomic investigations of impacts of titanium dioxide nanoparticles on Escherichia coli. 2017 , 12, e0178437	32
343	Photocatalytic Efficiency of Cement-Based Materials: Demonstration of Proposed Test Method. 2015 , 112,	2
342	Theoretical calculation of a TiO ₂ -based photocatalyst in the field of water splitting: A review. 2020 , 9, 1080-1103	23
341	Ceramic-based photocatalytic membrane reactors for water treatment –where to next?. 2020 , 36, 593-622	12
340	Investigation of structural, textural, optical and photocatalytic properties of Sn/TiO ₂ nanocomposites. 2018 , 25, 067-074	2
339	XPS and TPR study of sol-gel derived M/TiO ₂ powders (M=Co, Cu, Mn, Ni). 2015 , 6, 179-189	6
338	Combined In vitro Effects of TiO ₂ Nanoparticles and Dimethyl Sulfoxide (DMSO) on HepG2 Hepatocytes. 002-010	1
337	Photo Catalytic Removal of Sodium Dodecyl Sulfate From Aquatic Solutions With Prepared ZnO Nanocrystals and UV Irradiation. 2014 , 1,	2
336	Horseradish Peroksidaz Enziminin TiO ₂ -COOH Nanopartiküller Üzerine İmmobilizasyon Koşullarının Box-Behnken Metodu ile Optimize Edilmesi. 904-916	3
335	Synthesis and Characterization of SnO ₂ -TiO ₂ Nanocomposites Photocatalysts. 2019 , 15, 398-406	5
334	Encapsulation of Reactive Nanoparticles of Aluminum, Magnesium, Zinc, Titanium, or Boron within Polymers for Energetic Applications. 2019 , 3, 3-13	6
333	Photocatalytic Oxidation of Formaldehyde Vapour Using Amorphous Titanium Dioxide. 2010 , 4, 311-315	3
332	Photocatalytic Degradation of Pharmaceuticals Using TiO ₂ Based Nanocomposite Catalyst-Review. 2019 , 29, 1-33	12
331	Titania/mesoporous silica nanotubes with efficient photocatalytic properties. 2018 , 20, 103-108	5
330	Cytotoxic activity of zinc oxide/titanium dioxide nanoparticles on prostate cancer cells. 2019 , 3, 113-120	6
329	Synthesis of Nanostructured Copper-doped Titania and Its Properties. 2013 , 5, 26	4

328	Photocatalytic Activity under Solar Irradiation of Silver and Copper Doped Zinc oxide: Photodeposition Versus Liquid Impregnation Methods. 2012 , 12, 1809-1816	18
327	Degradability of Treated Ethion Insecticide by TiO ₂ Photocatalysis. 2015 , 18, 27-31	2
326	Titania based nanocomposites as a photocatalyst: A review. 2016 , 3, 1236-1254	20
325	Large scale production of photocatalytic TiO ₂ coating for volatile organic compound (VOC) air remediation. 2018 , 5, 945-956	4
324	Photocatalytic activity of rutile TiO ₂ powders coupled with anatase TiO ₂ nanoparticles using surfactant. 2018 , 25, 257-262	2
323	Solution-Processed Metal Oxide Thin Film Nanostructures for Water Splitting Photoelectrodes: A Review. 2018 , 55, 185-202	27
322	Enhanced Photocatalytic Remediation Using Graphene (G)-Titanium Oxide (TiO ₂) Nanocomposite Material in Visible Light Radiation. 2016 , 07, 576-587	8
321	TiO ₂ Films Synthesis over Polypropylene by Sol-Gel Assisted with Hydrothermal Treatment for the Photocatalytic Propane Degradation. 2014 , 04, 120-132	4
320	Environmental Toxicity and Antimicrobial Efficiency of Titanium Dioxide Nanoparticles in Suspension. 2015 , 06, 213-224	20
319	Characteristics and Photocatalytic Activities of Ce-Doped ZnO Nanoparticles. 2013 , 04, 145-152	12
318	Titania-Silica Composites: A Review on the Photocatalytic Activity and Synthesis Methods. 2015 , 05, 161-177	38
317	Doping a metal (Ag, Al, Mn, Ni and Zn) on TiO ₂ nanotubes and its effect on Rhodamine B photocatalytic oxidation. 2015 , 20, 329-335	25
316	Synthesis of Bi ₂ WO ₆ Nanometer Sheet Shaped and Approach to the Photocatalysis. 2009 , 30, 630-635	12
315	Visible Light Photoelectrocatalytic Properties of Novel Yttrium Treated Carbon Nanotube/Titania Composite Electrodes. 2010 , 31, 133-139	22
314	Influence of TiO ₂ Surface Properties on Water Pollution Treatment and Photocatalytic Activity. 2013 , 34, 953-956	26
313	An Overview on the Photocatalytic Activity of Nano-Doped-TiO ₂ in the Degradation of Organic Pollutants. 2011 , 2011, 1-18	81
312	Preparation and Photocatalytic Activity of Multi-elements Codoped TiO ₂ Made by Sol-gel Method and Microwave Treatment. 2009 , 10, 123-130	6
311	The UV/Ozone Stability of PET and Nylon 6 Nanocomposite Films Containing TiO ₂ Photocatalysts. 2014 , 26, 88-98	5

- 310 Preparation and Biological Activity of New Collagen Composites, Part III. Collagen/(Ag/RGO) and Collagen/(Ag/RGO/SiO₂) Composites. **2017**, In Press, 1
- 309 Titanium dioxide nanoparticles surface modified with imine as fillers for epoxy resin. **2018**, 7, 46-53 1
- 308 Ab-initio Electronic and Structural Properties of Rutile Titanium Dioxide. **2011**, 50, 101103 36
- 307 Bandgap Engineering as a Potential Tool for Quantum Efficiency Enhancement. **2021**, 545-564
- 306 A Review on Remedial Techniques for Pharmaceutical Contaminants in Wastewater. **2022**, 373-397 0
- 305 Influence of high energy ball milling on structural, microstructural and optical properties of TiO₂ nanoparticles. **2021**, 48, 3362-3362 1
- 304 Enhancing the visible-light photoactivity of silica-supported TiO for the photocatalytic treatment of pharmaceuticals in water. **2021**, 1 0
- 303 Synergic effect of Sn-doped TiO₂ nanostructures for enhanced visible light photocatalysis. 1 2
- 302 Photocatalytic Degradation of Palm Oil Mill Effluent (POME) Waste Using BiVO Based Catalysts. **2021**, 26, 1
- 301 Enriched Catalytic Activity of TiO Nanoparticles Supported by Activated Carbon for Noxious Pollutant Elimination. **2021**, 11, 9
- 300 Mutually exclusive ytterbium and nitrogen co-doping of mesoporous titania-carbon for self-cleanable and sustainable triboelectric nanogenerators. **2021**, 90, 106615 2
- 299 Sol-electrophoretic deposition (SEPD) kinetics and properties of pure and W-doped titania thin films. **2021**, 274, 115484 1
- 298 Photoelectrochemical Degradation of Perchlorate Ions by TiO₂. **2008**, 18, 432-437
- 297 Environmental Photo(electro)catalysis: Fundamental Principles and Applied Catalysts. **2010**, 371-442 1
- 296 Photocatalytic Activity of EG-TiO₂ Composite for Various Dye Solutions Under UV Light and Visible Light. **2009**, 19, 555-561 1
- 295 Characterization of superhydrophilic thin films fabricated by a layer-by-layer self-assembly method. **2010**, 20, 168-172
- 294 Properties of TiO₂ thin films fabricated with surfactant by a sol-gel method. **2010**, 20, 267-271 1
- 293 Comparison of Photocatalytic Activity of TiO₂ Anatase Prepared by the Sol-Gel Technique and Chemical Vapour Deposition on Naphthalene in the Gas Phase. **2011**, 493-498

- 292 Lithographically Controlled Etching. **2011**, 73-90
- 291 Chapter 2. Photocatalytic Effects in Doped and Undoped Titania. **2011**, 15-25
- 290 10.2478/s11814-009-0270-z. **2011**, 26, 1556
- 289 Photocatalytic Functional Coating of TiO₂ Thin Film Deposited by Cyclic Plasma Chemical Vapor Deposition at Atmospheric Pressure. **2011**, 50, 085502
- 288 Photocatalysis: Toward Solar Fuels and Chemicals. **2012**, 491-512
- 287 An Overview of Environmental Remediation Using Photocatalyst. **2014**, 115-131
- 286 Origin of the Activity of Semiconductor Photocatalysts. **2014**, 91-135
- 285 Photocatalytic Pavements. **2014**, 275-307 2
- 284 Carbon Nanostructures for Enhanced Photocatalysis for Biocidal Applications. **2014**, 771-791
- 283 Interfaces of Condensed Pure Water. **2014**, 73-100
- 282 A Study on the Volatile Change of Essential Oils Addition on to the Vegetable Fatty Acid Hard Soap. **2014**, 15, 3304-3311 1
- 281 Pathways for the Production of Non-stoichiometric Titanium Oxides. **2015**, 239-253 1
- 280 Soft X-Ray Spectroscopy and Electronic Structure of 3d Transition Metal Compounds in Artificial Photosynthesis Materials. **2015**, 269-296 1
- 279 Titania Nano-architectures for Energy. **2015**, 129-165
- 278 Electrochemical Properties of TiO₂ Oxide Film on 316LVM Stainless Steel for Orthopedic Implants. **2016**, 375-384
- 277 Effect of Interfaces. **2016**, 330-353
- 276 Chapter 6 Metallization. **2016**, 61-78
- 275 Preparation and properties of a long time durable superhydrophilic titanium dioxide film obtained by a sol-gel process. **2017**, 59, 81-85

- 274 Introduction of nanocomposites in electrochemical sensors. **2016**, 21-44
- 273 LIGHT INTENSITY INFLUENCE ON STRONTIUM TITANATE BASED PHOTO- ELECTROCHEMICAL CELLS. **2017**, 179-182
- 272 The Photocatalytic Kinetics of the Methyl Orange Degradation in the Aqueous Suspension of Irradiated TiO₂. **2017**, 2, 154-160 1
- 271 First principle calculation and photocatalytic performance of Bi₂WO₆ (1.81 Å x 0.01) with oxygen vacancies. **2018**, 67, 066801 1
- 270 Anodik spark oksitleme tekniğine entilen titanyum dioksit (TiO₂) kaplamaların karakterizasyonu ve fotokatalitik özellikleri. 1-10
- 269 The impact of TiO₂ modifications on the effectiveness of photocatalytic processes [review]. **2018**, 14-19
- 268 A new preparation method of rutile-anatase TiO₂ coatings for photocatalytic application. **2018**,
- 267 Evaluación del potencial antibacterial del compuesto TiO₂/AgNO₃ en Escherichia coli (ATCC 25922) y Salmonella typhimurium (ATCC 2275).. **2019**, 4, 1-9
- 266 First-principles study of the single- and double-walled nanotubes of TiO₂. **2019**,
- 265 Photocatalytic properties of nanosilver-doped TiO₂ powders. **2019**,
- 264 Therapeutic Use of Inorganic Nanomaterials in Malignant Diseases. **2020**, 47-87
- 263 Toxic Gas Sensors and Biosensors. **2020**, 49-67 0
- 262 Titanium Oxide-Based Nanomaterials with Photocatalytic Applications in Environmental Chemistry. **2020**, 215-263
- 261 Tb³⁺ ile Aktive Edilmiş TiO₂ Fotofluoresans Nanomalzemelerin Sentezi ve Karakterizasyonu. **2020**, 22, 325-330
- 260 Synthesis of mesoporous TiO₂/BMMs via hydrothermal method and its potential application toward adsorption and photocatalytic degradation of crystal violet from aqueous solution. **2021**, 15, 103530 1
- 259 Effects of different crystallization methods on photocatalytic performance of TiO₂ nanotubes. **2021**, 127, 1 1
- 258 Impact of Nanoparticle Consolidation on Charge Separation Efficiency in Anatase TiO₂ Films. **2021**, 9, 772116 0
- 257 Effect of Nitrogen Doping on Photocatalytic Activity of TiO₂. **2020**, 6, 918-923

- 256 Quantum chemical modeling of orthophosphoric acid adsorption sites on hydrated anatase surface. **2020**, 12(27), 20-35 1
- 255 A New Route for the Synthesis of Visible-Light Driven Ag,V Co-Doped TiO₂ for Degradation of Organic Pollutant. **2020**, 94, 2715-2722 1
- 254 Comparison of Surface Characteristics of Mesoporous Titania Prepared in Matrix-Free Solutions and Using Triton X Reverse Micelles. **2020**, 11, 715-732
- 253 Dyes Depollution of Water Using Porous TiO₂-Based Photocatalysts. **2020**, 35-92
- 252 Influence of rGO and Preparation Method on the Physicochemical and Photocatalytic Properties of TiO₂/Reduced Graphene Oxide Photocatalysts. **2021**, 11, 1333 2
- 251 Photocatalytic Purification of Air. 55-87 1
- 250 Synthesis of TiO₂, CeO₂ and their composite nanostructures for gas sensor applications. **2021**,
- 249 Photocatalytic and antifouling properties of TiO₂-based photocatalytic membranes. **2022**, 23, 100650 4
- 248 Facile and novel synthesis of nitrogen doped TiO₂/Acid soluble collagen-polyvinyl pyrrolidone (ASC-PVP) hybrid nanocomposite for rapid and effective photodegradation of naphthalene from water under visible light irradiation. **2022**, 425, 113677 4
- 247 Effects of Coating by Chitosan, TiO₂ Nanoparticles, and Sodium Tripolyphosphate as Crosslinker on Stored Cucumber Fruits. **2021**, 15, 598-605 2
- 246 Probing the Role of Atomic Defects in Photocatalytic Systems through Photoinduced Enhanced Raman Scattering. 4273-4281 3
- 245 Anatase titanium dioxide as rechargeable ion battery electrode - A chronological review. **2021**, 45, 201-201 8
- 244 Graphene Family Nanomaterials (GFN)-TiO for the Photocatalytic Removal of Water and Air Pollutants: Synthesis, Characterization, and Applications.. **2021**, 11, 1 1
- 243 Nanodispersions of TiO in Water for Removing Acrylic Films Used in Conservation. **2021**, 13,
- 242 Nanobiocatalysts and photocatalyst in dye degradation. **2021**,
- 241 Effect of the Type of Heterostructures on Photostimulated Alteration of the Surface Hydrophilicity: TiO₂/BiVO₄ vs. ZnO/BiVO₄ Planar Heterostructured Coatings. **2021**, 11, 1424 2
- 240 Quantum size effect of cadmium-doped titanium dioxide photocatalysts towards methylene blue degradation and electrooxidation. 1 0
- 239 Antimicrobial Efficacy of Titanium Dioxide Coating in Operating Theaters at A Tertiary Care Hospital in Arunachal Pradesh.

238	Evaluation of N-doped graphene role in the visible-light driven photodegradation of sulfamethoxazole by a TiO ₂ -silver-graphene composite. 2021 , 113701	0
237	Tailoring of structural, optical and electrical properties of anatase TiO ₂ via doping of cobalt and nitrogen ions. 2021 ,	5
236	Fe ₃ O ₄ @SiO ₂ @TiO ₂ @PDA Nanocomposite for the Degradation of Organic Materials. 2022 , 45, 178	3
235	Carbon "quantum" dots for bioapplications. 2021 , 15353702211057513	1
234	PLD Preparation and Thermoelectric Properties of TiO ₂ Thin Films.	
233	Composite photocatalysts based on Cd Zn S and TiO for hydrogen production under visible light: effect of platinum co-catalyst location.. 2021 , 11, 37966-37980	1
232	Study of Self-cleaning and Slip-Proof ECC. 2022 , 207-227	
231	Role of inclusion size distribution of titanium dioxide on the nitrogen oxides reduction capability and microstructural characteristics of cementitious systems. 2022 , 318, 125992	0
230	Kinetic modeling of removal of aromatic hydrocarbons from petroleum wastewaters by UiO-66-NH ₂ /TiO ₂ /ZnO nanocomposite. 2022 , 10, 107066	2
229	Chemistry and mineralogy of Zr- and Ti-rich minerals sourced from Cox Bazar beach placer deposits, Bangladesh: Implication of resources processing and evaluation. 2022 , 141, 104687	2
228	Critical comparison of aerogel TiO ₂ and P25 nanopowders: Cytotoxic properties, photocatalytic activity and photoinduced antimicrobial/antibiofilm performance. 2022 , 579, 152145	2
227	Enhanced heterogeneous photocatalytic peroxone degradation of amoxicillin by ZnO modified TiO ₂ nanocomposites under visible light irradiation. 2022 , 142, 106456	1
226	Photocatalytic degradation of acetaminophen in water via ultraviolet light and titanium dioxide thin films part II: chemical and kinetic aspects. 2022 , 20, 113-127	1
225	Comparative photocatalytic performance and therapeutic applications of zinc oxide (ZnO) and neodymium-doped zinc oxide (Nd:ZnO) nanocatalysts against Acid Yellow-3 dye: kinetic and thermodynamic study of the reaction and effect of various parameters. 2022 , 33, 2781	2
224	Pilot-Scale Studies of WO ₃ /S-Doped g-CN Heterojunction toward Photocatalytic NO Removal.. 2022 , 15,	0
223	Combined experimental and TDDFT computational studies of the optical and electrical characteristic of luminol films-doped TiO ₂ with 9.027% power conversion efficiency. 2022 , 33, 5244	0
222	Comparison of TiO catalysis and Fenton's treatment for rapid degradation of Remazol Red Dye in textile industry effluent.. 2022 , 33, 1-10	1
221	Ab-Initio Investigation of Finite Size Effects in Rutile Titania Nanoparticles with Semilocal and Nonlocal Density Functionals. 2022 , 126, 2121-2130	0

- 220 Inorganic nanomaterials usable in plant protection strategies. **2022**, 211-231
- 219 Phase-Selective Synthesis of Anatase and Rutile TiO Nanocrystals and Their Impacts on Grapevine Leaves: Accumulation of Mineral Nutrients and Triggering the Plant Defense.. **2022**, 12, 0
- 218 Reduction of CO₂ to Formic Acid. **2022**, 1003-1026 0
- 217 Structural and electronic insight into the effect of indium doping on the photocatalytic performance of TiO₂ for CO₂ conversion. 0
- 216 Engineering Commercial TiO Powder into Tailored Beads for Efficient Water Purification.. **2022**, 15, 2
- 215 Heating-Induced Transformation of Anatase TiO Nanorods into Rock-Salt TiO Nanoparticles: Implications for Photocatalytic and Gas-Sensing Applications.. **2022**, 5, 1600-1606 1
- 214 On the Role of Atmospheric Weathering on Paint Dust Aerosol Generated by Mechanical Abrasion of TiO Containing Paints.. **2022**, 19, 0
- 213 Applications of heteropoly acids as homogeneous catalysts. **2022**, 205-264
- 212 Chemometric evaluation of different parameters for removal of tembotrione (agricultural herbicide) from water by adsorption and photocatalytic degradation using sustainable nanotechnology. 0
- 211 Sb-doped titanium dioxide nanoparticles: Its synthesis, characterization and antimicrobial application. **2022**, 7, 245
- 210 Towards control of TiO₂ thickness film in R-HiPIMS process with a coupled optical and electrical monitoring of plasma. **2022**, 433, 128073
- 209 Nanoparticle size effect of Pt and TiO₂ anatase/rutile phases Volcano-type curve for HOR electrocatalytic activity at Pt/TiO₂-CNx nanocatalysts. **2022**, 584, 152644 0
- 208 Monoethanolamine adsorption on oxide surfaces.. **2022**, 614, 75-83
- 207 Chapter 5. 2D Photocatalytic Materials for Environmental Applications. **2022**, 217-293
- 206 Advances in TiO₂-Based Photocatalytic Systems for Co₂ Reduction Using Solar Energy.
- 205 Facile Fabrication of Atom-Level Heterojunction 2d Mosse Nanoplates Exhibit Excellent Performance in Photoelectrochemistry and Photocatalytic Levofloxacin Degradation.
- 204 Recent Advances of TiO₂ Nanocomposites for Photocatalytic Degradation of Water Contaminants and Rechargeable Sodium Ion Batteries. **2022**, 757-770 1
- 203 UV-B radiation enhances the toxicity of TiO₂ nanoparticles to the marine microalga *Chlorella pyrenoidosa* by disrupting the protection function of extracellular polymeric substances. 0

202	Enhanced Hemocompatibility of Silver Nanoparticles Using the Photocatalytic Properties of Titanium Dioxide.. 2022 , 10, 855471	0
201	In situ ion irradiation of amorphous TiO ₂ nanotubes. 2022 , 37, 1144-1155	1
200	Room Temperature Electrodeposition of Ready-to-Use TiO for Uniform p-n Heterojunction Over Nanoarchitecture.. 2022 , 10, 832342	
199	Enhanced Photocatalytic Activity of TiO ₂ Thin Film Deposited by Reactive RF Sputtering under Oxygen-Rich Conditions. 2022 , 2, 138-149	
198	Selective Adsorption and Photocatalytic Clean-Up of Oil by TiO ₂ Thin Film Decorated with p-V 3 D 3 Modified Flowerlike Ag Nanoplates. 2102126	
197	Defect Chemistry of Titanium Dioxide: Evidence of the n-p Transition during Cooling. 2022 , 126, 5014-5021	0
196	Preparation of Low-Molecular-Weight Fucoïdan with Anticoagulant Activity by Photocatalytic Degradation Method.. 2022 , 11,	3
195	Sol-gel research in China: a brief history and recent research trends in synthesis of sol-gel derived materials and their applications.. 2022 , 1-16	1
194	Large-Scale MOCVD Deposition of Nanostructured TiO on Stainless Steel Woven: A Systematic Investigation of Photoactivity as a Function of Film Thickness.. 2022 , 12,	
193	Photocatalytic Activity in the In-Flow Degradation of NO on Porous TiO ₂ -Coated Glasses from Hybrid Inorganic/Organic Thin Films Prepared by a Combined ALD/MLD Deposition Strategy. 2022 , 12, 488	0
192	Methyl oleate synthesis by TiO ₂ -photocatalytic esterification of oleic acid: optimisation by Response surface quadratic methodology, reaction kinetics and thermodynamics..	1
191	Mechanistic insight into the improved photocatalytic degradation of dyes for an ultrathin coating of SiO ₂ on TiO ₂ (P25) nanoparticles. 2022 , 10, 100288	1
190	Solar light-driven photocatalytic degradation of methyl blue by carbon-doped TiO ₂ nanoparticles. 2022 , 127, 112259	3
189	Selective visible-light-induced photooxidation of benzylic alcohols to corresponding carbonyl compounds over titanium dioxide: A study of the structure-reactivity relationship. 2022 , 524, 112263	
188	Using colorimetric methods to analyze the impact of acrylic binders' physical-chemical factors on dirt-pickup resistance of white faïade coatings. 2022 , 166, 106804	1
187	Transport and surface reaction model of a photocatalytic membrane during the radical filtration of methylene blue. 2022 , 254, 117617	0
186	Ni/Al ₂ O ₃ spherical catalysts produced by magnetron sputtering. 2022 , 200, 111042	
185	A simulation study on the electromagnetic structure and optical properties of Co doped TiO ₂ . 2022 , 209, 111404	0

184	Influence of Nd concentrations on the structural, electronic and optical properties of anatase TiO ₂ : A first-principles approach. 2022 , 31, e00672	0
183	High-performance photocatalytic membranes for water purification in relation to environmental and operational parameters.. 2022 , 311, 114817	2
182	A review on the development of elemental and codoped TiO ₂ photocatalysts for enhanced dye degradation under UV-vis irradiation. 2022 , 47, 102728	7
181	Structural, Morphological and Optical Behavior of Green Synthesized NiO Nanoparticle for Methylene Blue Photo-Degradation. 2021 , 16, 1684-1689	
180	Fabrication of Fe ₃ O ₄ /Ag-TiO ₂ magnetic nanocomposite for antibacterial applications. 2022 , 17, 9-15	0
179	APATITIC NANOPOWDERS AND COATINGS: A COMPREHENSIVE REVIEW.	0
178	Application of Porous Materials for CO ₂ Reutilization: A Review. 2022 , 15, 63	2
177	Multifunctional Coatings of Titanium Implants Toward Promoting Osseointegration and Preventing Infection: Recent Developments.. 2021 , 9, 783816	5
176	Hydrogen production via water splitting over graphitic carbon nitride (g-C ₃ N ₄)-based photocatalysis. 2021 ,	1
175	Platinum-Decorated TiO ₂ : One Step Fast Monometallic Impregnation and Plasma Effect on Nanoparticles. 2022 , 6, 4	0
174	Kinetics and Mechanism of Aniline and Chloroanilines Degradation Photocatalyzed by Halloysite-TiO ₂ and Halloysite-Fe ₂ O ₃ Nanocomposites. 2021 , 11, 1548	1
173	Self-Cleaning Surfaces with Superhydrophobicity of Ag-TiO ₂ Nanofilms on the Floor Ceramic Tiles. 2022 , 48, 35-42	1
172	Ti and TiO ₂ magnetron sputtering in roll-to-roll fabrication of hybrid membranes. 2022 , 101975	0
171	Exploration of CdO properties favoring superior photocatalytic degradation of methylene blue dye by Al ³⁺ doping. 2022 , 54, 1	
170	Transport of anatase and rutile titanium dioxide nanoparticles in soils in the presence of phosphate: mechanisms and numerical modeling. 1	
169	Remediation of pesticides using TiO based photocatalytic strategies: A review.. 2022 , 134525	3
168	Titania Coated Silica Nano-spheres as Catalyst in the Photodegradation of Hydrocarbons. 147-151	
167	Data_Sheet_1.docx. 2018 ,	

- 166 Data_Sheet_1.pdf. **2020**,
- 165 A Review on Titanium Dioxide Based Photocatalytic Cement: Self-cleaning Cement. **2022**, 239-273
- 164 Preparation of InP quantum dots-TiO₂ nanoparticle composites with enhanced visible light induced photocatalytic activity.
- 163 Efficiency Enhancement of Dye Sensitized Solar Cell Using Composite P25-TiO₂/Carbon Nanotubes Photoanode with Platinum Counter Electrode. **2022**, 34, 1206-1212
- 162 Photoelectrochemical Performance of Nanotubular FeO-TiO Electrodes under Solar Radiation.. **2022**, 12, 0
- 161 Chitosan@TiO₂ composites for the adsorption of copper(II) and antibacterial applications. **2022**, 32, 3
- 160 Thickness dependence of the response of metal-dioxide-based micromechanical sensors for sensitive gamma-ray detection.. **2022**, 186, 110225
- 159 Highly efficient hydrogen production under visible light over g-C₃N₄-based photocatalysts with low platinum content. **2022**, 445, 136721 1
- 158 Structural, electronic and optical DFT investigation of ruthenium doped anatase TiO₂ for photocatalytic applications.
- 157 Water electrolysis: from textbook knowledge to the latest scientific strategies and industrial developments.. **2022**, 21
- 156 Solar Photocatalysis of TiO₂ Supported Natural Palygorskite Nanofibers Elaborated by a One_Pot Mechanochemical Route. **2022**, 10, 254-274 0
- 155 Ni(NH₃)₆²⁺ more efficient than Ni(H₂O)₆²⁺ and Ni(OH)₂ for catalyzing water and phenol oxidation on illuminated Bi₂MoO₆ with visible light. **2022**,
- 154 Emerging Contaminant Removal from Domestic Wastewater by Advanced Treatment Technologies. **2022**, 263-290
- 153 Photocatalytic Decolourization of Dyes Using Nanoparticles-Assisted Composite Catalysts. **2022**, 277-302 0
- 152 Rate of Photocatalytic Hydrogen Evolution and Photovoltaic Characteristics as a Function of the Nature and Concentration of the Electrolyte. **2022**, 96, 1093-1098 0
- 151 Photocatalytic Efficiency of Titanium Dioxide for Dyes and Heavy Metals Removal from Wastewater. **2022**, 17, 430-450 1
- 150 Recent Review of Titania-Clay-Based Composites Emerging as Advanced Adsorbents and Photocatalysts for Degradation of Dyes over the Last Decade. **2022**, 2022, 1-15 1
- 149 Different Effect of Synthesis Temperature on BiO₂ and Bi₄O₇ Activities for Phenol and Water Oxidation Under Visible Light.

- 148 Defect Engineered (Er³⁺/Nd³⁺) Co-Doped TiO₂ Photoanodes for Enhanced Photo-Electrochemical and Photovoltaic Applications.
- 147 Photocatalytic oxidation degradation of inhibitory fatty acids for aged *Chlorella vulgaris* cultivation medium recycling.
- 146 Selective adsorption of epigallocatechin gallate onto highly reusable gallium doped mesoporous TiO₂ nanoparticles adsorbent. **2022**, 100576
- 145 A Study of the Photocatalytic and Photovoltaic Properties of Photocatalysts Based on Carbon Nitride, Cobalt Phosphide, and Cobalt Phosphate. **2022**, 63, 248-260
- 144 Photoinduced Dynamics of Radicals in N- and Nb-Codoped Titania Nanocrystals with Enhanced Photocatalysis: Experiment and Modeling. ○
- 143 Enhanced photocatalytic activity of TiO₂ nanotubes arrays decorated with Ag and Pt nanoparticles. **2022**, ○
- 142 Sulfuric Acid Solutions of [Pt(OH)₄(H₂O)₂]: A Platinum Speciation Survey and Hydrated Pt(IV) Oxide Formation for Practical Use. ○
- 141 Effect of Various Surface Treatments on Wettability and Morphological Properties of Titanium Oxide Thin Films. **2022**, 15, 4113 ○
- 140 Photo-assisted (waste)water treatment technologies [A scientometric-based critical review. **2022**, 538, 115905 1
- 139 Fabrication of novel neodymium oxide coupled mesoporous titania for effective visible light-induced photocatalyst for decomposition of Ciprofloxacin. **2022**, 131, 112579 ○
- 138 Study on Photocatalytic and Mechanical Properties of TiO₂ Modified Pervious Concrete.
- 137 Z-Scheme MoS₂/TiO₂/graphene nanohybrid photocatalysts for visible light-induced degradation for highly efficient water disinfection and antibacterial activity. ○
- 136 Nanomaterials for construction building products designed to withstand natural disasters. **2022**, 19-42 ○
- 135 New insights into the deterioration of TiO₂ based oil paints: the effects of illumination conditions and surface interactions. **2022**, 10, ○
- 134 Nano-Titanium Oxide in Polymeric Contact Lenses: Short Communication. **2022**, 2, 71-81 ○
- 133 Advanced Photocatalytic Treatment of Wastewater Using Immobilized Titanium Dioxide as a Photocatalyst in a Pilot-Scale Reactor: Process Intensification. **2022**, 15, 4547 3
- 132 Development of La-impregnated TiO₂ based ethanol sensors for next generation automobile application. **2022**, 33, 15296-15312 ○
- 131 Synthesis, Characterization, Biological Activities of Fe and V Doped and Co-doped TiO₂.

130	Optimization of TiO ₂ /SiO ₂ photocatalysts in a LED-irradiated gas-solid photoreactor for air treatment. 2022 ,	0
129	A critical review on advances in TiO ₂ -based photocatalytic systems for CO ₂ reduction. 2022 , 119009	0
128	Pulsed laser deposition preparation and laser-induced voltage signals of TiO ₂ thin films. 2022 , 756, 139375	1
127	Efficient photocatalyst for the degradation of cationic and anionic dyes prepared via modification of carbonized mesoporous TiO ₂ by encapsulation of carbon dots. 2022 , 155, 111963	1
126	Scaling up anodic TiO ₂ nanotube layers Influence of the nanotube layer thickness on the photocatalytic degradation of hexane and benzene. 2022 , 29, 101567	0
125	Catalytic Applications of Non-Centrosymmetric Oxide Nanomaterials.	1
124	Comparison of Anatase and Rutile for Photocatalytic Application: the Short Review. 2021 , 18-30	
123	Eco-Friendly Biosynthesis of Tio ₂ Nanoparticles Using Desmostachya Bipinnata Extract: Larvicidal and Pupicidal Potential Against Aedes Aegypti and Spodoptera Litura and Acute Toxicity in Non-Target Organisms.	
122	Facile synthesis route and characterizations of zinc orthotitanate nanoparticles tested for dye-sensitized solar cell DSSC applications.	0
121	Highly Active Visible Light-Promoted Ir/g-C ₃ N ₄ Photocatalysts for the Water Oxidation Reaction Prepared from a Halogen-Free Iridium Precursor. 2022 , 14, 35600-35612	1
120	Catalytic Applications of Non-Centrosymmetric Oxide Nanomaterials.	1
119	Recent Advances in TiO ₂ -based Photoanodes for Photoelectrochemical Water Splitting.	1
118	Comparative study of the TiO ₂ nanopowders prepared from different precursors and chemical methods for heterogeneous photocatalysis application.	2
117	Photoactive Cements: A Review. 2022 , 15, 5407	0
116	Photo-induced absorption spectroscopy (PIAS) study of the kinetics of water oxidation by P25 TiO ₂ using periodate as an electron acceptor. 2022 , 644, 118817	0
115	Calcined or Microwaved TiO ₂ -K10 as Catalysts for p-Nitrophenol Photodegradation: Optimization Study Using Response Surface Methodology.	
114	On analysis of entropy measures for titanium dioxide via rational curve fitting methods.	
113	Photo-enhanced dry reforming of methane over Pt-Au/P25 composite catalyst by coupling plasmonic effect. 2022 , 413, 829-842	1

112	Tunable microscopic aggregation morphology of $\text{Ni}(\text{OH})_2$ for enhanced photocatalytic degradation of fracturing flowback fluid with ozone synergy. 9,	0
111	In-flow photocatalytic oxidation of NO on glasses coated with nanocolumnar porous TiO_2 thin films prepared by reactive sputtering. 2022 , 606, 154968	0
110	Treatment of oily wastewater using photocatalytic membrane reactors: A critical review. 2022 , 10, 108539	1
109	Nanoparticle production via laser ablation synthesis in solution method and printed electronic application - A brief review. 2022 , 16, 100646	1
108	Development and synthesis of nanoparticles and nanoadsorbents. 2022 , 127-165	0
107	Modeling titanium dioxide nanostructures for photocatalysis and photovoltaics. 2022 , 13, 9485-9497	0
106	The composing effect of bismuth on titania hollow microspheres for their visible-light photocatalytic activity.	0
105	Understanding the role of metal supported on TiO_2 in photoreforming of oxygenates.	1
104	Synthesis of Titanium Dioxide by Sol-Gel Method and Comparison with Titanium Dioxide Pure. 2022 , 75-82	0
103	Antimicrobial nanoparticles: Synthesis, mechanism of actions. 2023 , 155-202	0
102	Recent advances in electrode material for symmetrical solid oxide fuel cells and way forward sustainability based on local mineral resources.	0
101	Photocatalytic Cementitious Material for Eco-Efficient Construction A Systematic Literature Review. 2022 , 12, 8741	2
100	Photocatalytic Inactivation of Bacteria in the Presence of Tungsten-Modified Titania under Visible Light Irradiation. 2022 , 63, 364-376	0
99	Development and Investigation of Photoactive WO_3 Nanowire-Based Hybrid Membranes. 2022 , 12, 1029	0
98	Inactivation of SARS-CoV-2 and photocatalytic degradation by TiO_2 photocatalyst coatings. 2022 , 12,	2
97	Modified HSE06 functional applied to anatase TiO_2 : influence of exchange fraction on the quasiparticle electronic structure and optical response.	0
96	Adsorption of Selected Molecules on $(\text{TiO}_2)_{20}$ Nano-Clusters: A Density-Functional-Theory Study. 2022 , 2, 124-145	1
95	Highly Active Rutile TiO_2 for Photocatalysis under Violet Light Irradiation at 405 nm. 2022 , 12, 1079	0

94	Photothermal Synergism on Pd/TiO ₂ Catalysts with Varied TiO ₂ Crystalline Phases for NO _x Removal via H ₂ -SCR: A Transient DRIFTS Study.	0
93	Novel Nd-N/TiO ₂ Nanoparticles for Photocatalytic and Antioxidant Applications Using Hydrothermal Approach. 2022 , 15, 6658	0
92	Photoactive Catalysts for Treatment of Air Pollutants: A Review through Bibliometric Analysis.	0
91	Naphthalene Detection in Air by Highly Sensitive TiO ₂ Sensor: Real Time Response to Concentration Changes Monitored by Simultaneous UV Spectrophotometry. 2022 , 22, 7272	0
90	The photocatalytic process in the treatment of polluted water.	4
89	Defect passivation in (Er ³⁺ /Nd ³⁺) codoped TiO ₂ photoanode and its application towards enhanced solar energy conversion devices.	0
88	Cementitious Composite Materials for Self-Sterilization Surfaces. 2022 ,	0
87	Turning the Most Abundant Form of Trash Worldwide into Effective Corrosion Inhibitors for Applications in the Oil and Gas Industry. 2022 ,	0
86	Preventing Peri-implantitis: The Quest for a Next Generation of Titanium Dental Implants.	2
85	Preparation and Photocatalytic Activities of TiO ₂ -Based Composite Catalysts. 2022 , 12, 1263	1
84	Fabrication of TiO ₂ based Dye-Sensitized Solar Cell using Nerium oleander as a sensitizer. 2022 , 1263, 012018	0
83	Titanium dioxide nanoparticles: Recent progress in antimicrobial applications.	2
82	A Hybrid Amorphous/Crystalline TiO ₂ Material with Enhanced Photocatalytic Performance. 2200316	0
81	Structural and electronic properties of PANI-ZnO-TiO ₂ nanocomposite. 2022 , 18, 713-722	0
80	Studying the effects of processing parameters in the aerosol-assisted chemical vapour deposition of TiO ₂ coatings on glass for applications in photocatalytic NO _x remediation. 2022 , 648, 118924	1
79	Study on photocatalytic and mechanical properties of TiO ₂ modified pervious concrete. 2022 , 17, e01606	0
78	Anti-biofouling properties of TiO ₂ coating with coupled effect of photocatalysis and microstructure. 2023 , 656, 130357	0
77	Highly durable photocatalytic titanium suboxide polymer nanocomposite films with visible light-triggered antibiofilm activity. 2023 , 454, 139971	0

- 76 Synthesis and Characterization of SiO₂/TiO₂ as Photocatalyst on Methylene Blue Degradation. **2022**, 12, 1372 2
- 75 Synergistic Effect of Cu_xO_y-NPs/TiO₂-NTs Heterostructure on the Photodegradation of Amido Black Staining. **2022**, 170234 1
- 74 Composites for Aqueous-Mediated Heterogeneously Catalyzed Degradation and Mineralization of Water Pollutants on TiO₂. **Review. 2022**, 6, 350 0
- 73 Influence of sodium doping on the material properties and photocatalytic activity of anatase titanium dioxide nanotubes prepared by anodization. **2022**, 134, 113172 0
- 72 UiO-66/TiO₂ nanostructures as adsorbent/photocatalytic composites for air treatment towards dry dimethyl methylphosphonate-laden air flow as a Chemical Warfare Agent analog. **2022**, 0
- 71 Integrated full-scale solar CPC/UV-LED filtration system as a tertiary treatment in a conventional WWTP for agricultural reuse purposes. 0
- 70 Preparation of Ti-MOF and Ni-MOF using terephthalic acid as ligands. **2022**, 0
- 69 Plasmonic noble metal doped titanium dioxide nanocomposites: Newer and exciting materials in the remediation of water contaminated with micropollutants. **2023**, 51, 103360 0
- 68 MXene as emerging material for photocatalytic degradation of environmental pollutants. **2023**, 477, 214965 2
- 67 Enhanced photocatalytic degradation of Rhodamine B and Methylene blue by novel TiO₂/SnSe-SnO₂ hybrid nanocomposites under sunlight irradiation: Correlation of photoluminescence property with photocatalytic activity. **2023**, 159, 112109 0
- 66 Synthesis, Characterization, and Application of Pt/PtO₂-TiO₂/SiO₂ Materials on a Continuous Flow Packed Bed Microreactor for Enhanced Photocatalytic Activity under Sunlight. **2022**, 14, 3864 0
- 65 Hydrothermal-Assisted Synthesis of Copper Nanoparticles-Decorated Titania Nanofibers for Methylene Blue Photodegradation and Catalyst for Sodium Borohydride Dehydrogenation. **2022**, 14, 5180 0
- 64 An insight overview of bioplastics produced from cellulose extracted from plant material, its applications and degradation. **2022**, 5, 423-441 0
- 63 Photoactive catalysts for treatment of air pollutants: a bibliometric analysis. 0
- 62 More than One Century of History for Photocatalysis, from Past, Present and Future Perspectives. **2022**, 12, 1572 0
- 61 Nanomaterials as Photocatalysts Synthesis and Their Potential Applications. **2023**, 16, 193 2
- 60 Recyclable Biomass-Derived Polyethylene-Like Materials as Functional Coatings for Commercial Fabrics: Toward Upcycling of Waste Textiles. **2022**, 10, 17187-17197 0
- 59 Optical and fractal properties of sputter deposited TiO₂ films. **2023**, 55, 0

58	Photocatalytic H ₂ generation from ethanol and glucose aqueous solutions by PtOx/TiO ₂ composites. 2022 ,	2
57	Effect of Thermal Treatment on the Structure and Morphology of Vanadium Doped ZnO Nanostructures Obtained by Microwave Assisted Sol-Gel Method. 2022 , 8, 811	0
56	Integration of the straightforward and environmentally friendly sol-gel/solvothermal and photodeposition methods as a way to prepare highly photoactive Au/S-TiO ₂ and Cu/S-TiO ₂ materials. 2022 , 24,	0
55	Enhanced photocatalytic degradation of a cationic dye using slurry of anatase titania in a falling film reactor.	0
54	Green Synthesis of TiO ₂ Nanoparticles Using Averrhoa Bilimbi Fruits Extract and DPT-PEG Polymer Electrolyte for Enhance Dye-Sensitized Solar Cell Application.	0
53	TiO ₂ Nanoparticle/Polyimide Nanocomposite for Ultrahigh-Temperature Energy Storage. 2022 , 12, 4458	0
52	Synthesis and Application of Domestic Glassy Carbon TiO ₂ Nanocomposite for Electrochemical Triclosan Detection. 2022 , 12, 1571	0
51	Photocatalytic performance of Al and Nb-doped TiO ₂ nanoparticles prepared by microwave-assisted hydrothermal method.	0
50	Parameters to be considered for the development of highly photoactive TiO ₂ layers on aluminium substrates by RF magnetron sputtering for treating polluted air. 2022 ,	0
49	What is necessary to fill the technological gap to design sustainable dye-sensitized solar cells?.	0
48	Luminescent Inorganic Pigments Used in Ancient and Modern Times. 2022 ,	0
47	Photocatalytic degradation of sulfamethoxazole with Co-CuS@TiO ₂ heterostructures under solar light irradiation. 2023 , 106611	1
46	Recent Trends in Plasmon-Assisted Photocatalytic CO ₂ Reduction.	0
45	Hydrogen sulfide (H ₂ S) conversion to hydrogen (H ₂) and value-added chemicals: Progress, challenges and outlook. 2023 , 141398	1
44	Photocatalytic TiO ₂ -Based Coatings for Mortars on Facades: A Review of Efficiency, Durability, and Sustainability. 2023 , 13, 186	0
43	Synthesis, Characterization and In Vitro Anticancer analysis of PEG capped Mn doped TiO ₂ nanoparticles against Hepatocellular carcinoma cells.	0
42	Simultaneous reduction of 4-nitrophenol, 4-nitroaniline and methylene blue organic pollutants via TiO ₂ supported Pd(II) complex catalyst bearing 2-(6-methylpyridin-2-yl)-1H-benzimidazole type ligand. 2023 , 232, 116297	0
41	Photocatalytic applications of carbon quantum dots for wastewater treatment. 2023 , 263-294	0

- 40 NOM removal by advanced oxidation processes. **2023**, 225-265 ○
- 39 A study on fabrication and characterization of dye sensitized solar cells with carissa spinuram, ivesine herbstii and ipomoea purpurea as sensitizers in visible light. **2023**, 55, ○
- 38 Sol-Gel Obtaining of TiO₂/TeO₂ Nanopowders with Biocidal and Environmental Applications. **2023**, 13, 257 2
- 37 Enhancement of Wastewater Treatment Using Mist and Photocatalyst. ○
- 36 Cooperative coupling of photocatalytic production of H₂O₂ and oxidation of organic pollutants over gadolinium ion doped WO₃ nanocomposite. **2023**, 108157 ○
- 35 Impact of precursor chelation on tantalum based nanoparticles for removal of dye from water. **2023**, ○
- 34 Gas phase deposition of well-defined bimetallic gold-silver clusters for photocatalytic applications. **2023**, 15, 6696-6708 ○
- 33 Nanomaterials in the environment: impacts and challenges. **2023**, 389-414 ○
- 32 Chemical Transformations of Phosphoric Acid on Hydrated Anatase Surface: A Quantum Chemical Simulation. **2023**, 267-277 ○
- 31 *Aspergillus terreus* camptothecin-sodium alginate/titanium dioxide nanoparticles as a novel nanocomposite with enhanced compatibility and anticancer efficiency in vivo. **2023**, 23, ○
- 30 Investigation of Cu/TiO₂ synthesis methods and conditions for CO₂ photocatalytic reduction via conversion of bicarbonate/carbonate to formate. **2023**, 70, 102428 ○
- 29 Algal organic matter and dissolved Mn cooperatively accelerate 17β-ethinylestradiol photodegradation: Role of photogenerated reactive Mn(III). **2023**, 119980 ○
- 28 Pluronic f127 encapsulated titanium dioxide nanoparticles: Evaluation of physiochemical properties for biological applications. **2023**, 379, 121655 ○
- 27 Modification of ZIF-8 nanocomposite by a Gd atom doped TiO₂ for high efficiency photocatalytic degradation of neutral red dye: An experimental and theoretical study. **2023**, 380, 121729 ○
- 26 Bio-inspired functional photocatalyst: Lipase enzyme functionalized TiO₂ with excellent photocatalytic, enzymatic, and antimicrobial performance. **2023**, 438, 114565 ○
- 25 Study of the water content on the CdO + CdTiO₃ crystalline grains distribution in thin films obtained by sol-gel and their effect on the morphological, optical, and photocatalytic properties. **2023**, 662, 131033 ○
- 24 Photocatalytic Decomposition of Azo Dyes and Phenols Using Polymer Composites Containing Nanostructured Poly(Titanium Oxide) Doped with Gold or Silver Nanoparticles under Light Irradiation in a Wide Wavelength Range. **2023**, 13, 423 1
- 23 Structure and optical properties of Nd-substituted nanocrystalline Ba₄Ce₂Hf₂O₁₁ photocatalysts. **2023**, 34, ○

- 22 Iron-Doped Titania for Magneto-Opto-Electronic Device Applications. **2023**, 52, 2895-2903 ○
- 21 Treatment innovation using solar/UV. **2023**, 179-216 ○
- 20 Nanoparticle Approach to Control AMR. **2023**, 1-22 ○
- 19 Photocatalytic Performance of SnDoped TiO₂ Nanopowders for Photocatalytic Degradation of Methyl Orange Dye. **2023**, 13, 534 ○
- 18 Zircon Concentrate Enrichment by Dry Magnetic Separation and Centrifugal Air Separation. **2023**, 13, 397 ○
- 17 Photocatalytic and Antimicrobial Properties of Electrospun TiO₂BiO₂Al₂O₃ZrO₂TaO₅TeO₂ Ceramic Membranes. **2023**, 8, 10836-10850 ○
- 16 Photocatalytic degradation of malachite green using TiO₂ and ZnO impregnated on fecal sludge derived biochar. **2023**, 145, 104800 ○
- 15 Photocatalytic Degradation of Organic Dyes from Clinical Laboratory Wastewater. **2023**, 15, 1238 ○
- 14 Fabrication of Anatase TiO₂/PVDF Composite Membrane for Oil-in-Water Emulsion Separation and Dye Photocatalytic Degradation. **2023**, 13, 364 ○
- 13 Understanding the fundamentals of TiO₂ surfacesPart II. Reactivity and surface chemistry of TiO₂ single crystals. **2022**, 38, 846-906 ○
- 12 Catalytically active nanomaterials as artificial enzymes. **2023**, 305-337 ○
- 11 Crucible Effect on Phase Transition Temperature during Microwave Calcination of a N-Doped TiO₂ Precursor: Implications for the Preparation of TiO₂ Nanophotocatalysts. **2023**, 6, 5448-5459 ○
- 10 Removal of Azo Dyes from Wastewater through Heterogeneous Photocatalysis and Supercritical Water Oxidation. **2023**, 10, 230 ○
- 9 Treatment of a Food Industry Dye, Brilliant Blue, at Low Concentration Using a New Photocatalytic Configuration. **2023**, 15, 5788 ○
- 8 Formation of Hydrated Titanium Dioxide on the Surface of Aqueous Solution of Titanium(III, IV) Salt under the Action of Ammonia Gas. **2023**, 93, 363-368 ○
- 7 Removal of ibuprofen using a SiO₂@xTiO₂ photocatalyst under UV irradiation. **2023**, 136, 1085-1106 ○
- 6 Fast Reconfigurable Electrode Array Based on Titanium Oxide for Localized Stimulation of Cultured Neural Network. **2023**, 15, 19092-19101 ○
- 5 Application of the similarity theory to analysis of photocatalytic hydrogen production and photocurrent generation. **2023**, 10, ○

- 4 The efficacious of AOP-based processes in concert with electrocoagulation in abatement of CECs from water/wastewater. **2023**, 6,
- 3 Photovoltaic Effects of Dye-Sensitized Solar Cells Using Double-Layered TiO₂ Photoelectrodes and Pyrazine-Based Photosensitizers.
- 2 Photocatalytically Active Thin-Film Coatings. **2023**, 59-77
- 1 Photocatalytic Reactors Design and Operating Parameters on the Wastewater Organic Pollutants Removal. **2023**, 103-151