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2360	Comparison of the photocatalytic efficiency of TiO ₂ , iron oxides and mixed Ti(IV)/Fe(III) oxides: photodegradation of oligocarboxylic acids. 1994 , 84, 183-193		86
2359	A decade of heterogeneous photocatalysis in our laboratory: Pure and applied studies in energy production and environmental detoxification. 1994 , 20, 953-992		70
2358	The effect of the inert support on relative photocatalytic activity in the oxidative decomposition of alcohols on irradiated titanium dioxide composites. 1994 , 20, 711-721		49
2357	New Reactor Design for Photocatalytic Wastewater Treatment with TiO ₂ Immobilized on Fused-Silica Glass Fibers: Photomineralization of 4-Chlorophenol. 1994 , 28, 670-4		228
2356	The influence of oxide surface structure on adsorbate chemistry: desorption of water from the smooth, the microfaceted and the ion sputtered surfaces of TiO ₂ (100). 1994 , 319, 315-328		103
2355	Time-resolved microwave conductivity. Part 2. Quantum-sized TiO ₂ and the effect of adsorbates and light intensity on charge-carrier dynamics. 1994 , 90, 3323-3330		152
2354	Ultra-highly Active Titanium(IV) Oxide Photocatalyst Prepared by Hydrothermal Crystallization from Titanium(IV) Alkoxide in Organic Solvents. 1995 , 24, 693-694		75
2353	The effect of dark recovery time on the photoefficiency of heterogeneous photocatalysis by TiO ₂ suspended in non-aqueous media. 1995 , 21, 933-938		22

2352	Application of TiO ₂ sol for UV radiation measurements. 1995 , 311, 115-122	6
2351	A spectroelectrochemical study of chemisorption, anodic polymerization and degradation of salicylic acid on conductor and TiO ₂ surfaces. 1995 , 40, 2603-2609	31
2350	Femtosecond study of the intensity dependence of electron-hole dynamics in TiO ₂ nanoclusters. 1995 , 232, 207-214	181
2349	Titanium(IV) oxide photocatalyst of ultra-high activity for selective N-cyclization of an amino acid in aqueous suspensions. 1995 , 242, 315-319	47
2348	A Taylor vortex reactor for heterogeneous photocatalysis. 1995 , 50, 3163-3173	117
2347	A comparison of the mechanisms of photooxidative degradation of organic molecules on irradiated semiconductor powders and in aerated supercritical water. 1995 , 38, 381-390	3
2346	Photocatalytic degradation of sulfonated aromatics in aqueous TiO ₂ suspension. 1995 , 85, 187-190	35
2345	Photoreduction of carbon dioxide using chalcogenide semiconductor microcrystals. 1995 , 86, 191-196	70
2344	The reactivity of phenol in irradiated aqueous suspensions of TiO ₂ . Mechanistic changes as a function of solution pH. 1995 , 91, 67-72	42
2343	Prebiotic polymerization: oxidative polymerization of 2,3-dimercapto-1-propanol on the surface of iron(III) hydroxide oxide. 1995 , 25, 53-60	7
2342	Photoisomerization of 3-benzoylacrylates on a silica gel surface: Effect of reaction environment on selectivity. 1995 , 8, 31-34	5
2341	Exploiting the interparticle electron transfer process in the photocatalysed oxidation of phenol, 2-chlorophenol and pentachlorophenol: chemical evidence for electron and hole transfer between coupled semiconductors. 1995 , 85, 247-255	543
2340	Photochemistry of semiconductor particles 3. Effects of surface charge on reduction rate of methyl orange photosensitized by ZnS sols. 1995 , 85, 239-245	35
2339	Photodegradation of surfactants XIV. Formation of NG ⁴⁺ and NO ₃ ⁻ ions for the photocatalyzed mineralization of nitrogendashcontaining cationic, nondashionic and amphoteric surfactants. 1995 , 91, 145-152	35
2338	Effect of platinum loading on the photocatalytic activity of cadmium(II) sulfide particles suspended in aqueous amino acid solutions. 1995 , 90, 75-80	20
2337	The influence of dissolved metal ions on the photocatalytic degradation of phenol in aqueous TiO ₂ suspensions. 1995 , 98, 109-116	90
2336	Combined Raman and photoelectrochemical imaging system. Application to TiO ₂ films grown anodically on Ti/Ag alloy. 1995 , 386, 229-233	14
2335	Photoassisted decomposition of salicylic acid on TiO ₂ and Pd/TiO ₂ films. 1995 , 119, 339-343	10

- 2334 The gas-phase photocatalytic mineralization of benzene on porous titania-based catalysts. **1995**, 6, 209-224 202
- 2333 Photocatalytic Oxidation of Volatile Organic Contaminants. **1995**, 3
- 2332 Femtosecond study of the size-dependent charge carrier dynamics in ZnO nanocluster solutions. **1995**, 103, 5378-5386 42
- 2331 TiO₂ mediated photooxidation of trichloroethylene and toluene dissolved in fluorocarbon solvents. **1995**, 31, 3575-3584 5
- 2330 UV/TiO₂ photocatalytic oxidation of commercial dyes in aqueous solutions. **1995**, 31, 4157-4170 262
- 2329 Photocatalytic degradation kinetics and mechanism of acid blue 40 by TiO₂/UV in aqueous solution. **1995**, 31, 4171-4183 66
- 2328 Evidence for a surface dual hole-radical mechanism in the titanium dioxide photocatalytic oxidation of 2,4-D. **1995**, 29, 2065-72 140
- 2327 CO chemisorption on TiO₂(110): Oxygen vacancy site influence on CO adsorption. **1995**, 103, 9438-9443 170
- 2326 Photochemistry of semiconductor particles. Part 4. Effects of surface condition on the photodegradation of 2,4-dichlorophenol catalysed by TiO₂ suspensions. **1995**, 91, 917-923 50
- 2325 Absence of Platinum Enhancement of a Photoreaction on TiO₂ Photooxidation on Pt/TiO₂(110). **1996**, 118, 5284-5289 85
- 2324 Self-Assembly of Nanostructured Semiconductor Films. **1996**, 557-577 2
- 2323 The Use of Nanoparticles in Environmental Applications. **1996**, 643-656 11
- 2322 Quantitative Spin-Trapping Studies of Weakly Illuminated Titanium Dioxide Sols. Implications for the Mechanism of Photocatalysis. **1996**, 100, 16940-16946 156
- 2321 Effects of Adsorbents Used as Supports for Titanium Dioxide Loading on Photocatalytic Degradation of Propyzamide. **1996**, 30, 1275-1281 253
- 2320 Photocatalyzed Oxidation of Triphenyl Derivatives of P, As, Sb & Bi and Reduction of Their Oxides. **1996**, 61, 2895-2896 14
- 2319 Does Interfacial Charge Transfer Compete with Charge Carrier Recombination? A Femtosecond Diffuse Reflectance Investigation of TiO₂ Nanoparticles. **1996**, 100, 18445-18449 181
- 2318 Mechanism of the UV-laser-induced desorption of CO from Cr₂O₃(0001). **1996**, 363, 252-261 12
- 2317 Enhanced Photocatalytic Performance of Titania-Based Binary Metal Oxides: TiO₂/SiO₂ and TiO₂/ZrO₂. **1996**, 30, 647-653 565

2316	Determination of the Quantum Yield for the Photochemical Generation of Hydroxyl Radicals in TiO ₂ Suspensions. 1996 , 100, 4127-4134	358
2315	Dynamics of photoinduced reactions at oxide surfaces. 1996 , 63, 509-521	17
2314	Decomposition of 2-chlorophenol in aqueous solution by UV irradiation with the presence of titanium dioxide. 1996 , 30, 2569-2578	86
2313	Photoinduced surface chemistry. 1996 , 1, 630-635	27
2312	Identification of TiO ₂ /UV Disinfection Byproducts in Drinking Water. 1996 , 30, 3327-3334	89
2311	Chemical and Physical Characterization of a TiO ₂ -Coated Fiber Optic Cable Reactor. 1996 , 30, 2806-2812	127
2310	Mechanism of Photooxidation of Trichloroethylene on TiO ₂ : Detection of Intermediates by Infrared Spectroscopy. 1996 , 118, 4686-4692	190
2309	Kinetics of Stochastic Charge Transfer and Recombination Events in Semiconductor Colloids. Relevance to Photocatalysis Efficiency. 1996 , 100, 18214-18221	79
2308	Separation and Concentration of Metals Present in Industrial Effluent and Sludge Samples by Using Electrodialysis, Coulometry, and Photocatalysis. 1996 , 31, 523-532	14
2307	Photocatalytic reduction of methyl yellow by CdS nanoparticles mediated in reverse micelles: microheterogeneous electron transfer across a water/oil boundary. 1996 , 473-474	4
2306	Transient Photocurrent Response of Dye-Sensitized Porous Nanocrystalline TiO ₂ Electrodes. 1996 , 452, 607	6
2305	Catalytic Effect of Ag ⁺ in Colloidal CdS-Induced Photooxidation of Aniline. 1996 , 25, 711-712	19
2304	Mechanisms of Photocatalysis: The Reductive Degradation of Tetrachloromethane in Aqueous Titanium Dioxide Suspensions. 1996 , 1,	
2303	Photocatalytic Degradation of 4-Chlorophenol in Aerated Aqueous Titanium Dioxide Suspensions: A Kinetic and Mechanistic Study. 1996 , 12, 6368-6376	306
2302	Environmental Photochemistry on Semiconductor Surfaces: Photosensitized Degradation of a Textile Azo Dye, Acid Orange 7, on TiO ₂ Particles Using Visible Light. 1996 , 30, 1660-1666	469
2301	Photochemical behavior of nanoparticles of cadmium sulfide in the presence of a reducing agent. 1996 , 32, 88-92	5
2300	Indicator Reactions for evaluating the photocatalytic properties of new semiconductor materials. 1996 , 32, 24-26	
2299	A broad spectrum catalytic system for removal of toxic organics from water by deep oxidation using dioxygen as the oxidant. 1996 , 40, 95-99	13

2298	A new synthesis procedure for titanium-containing zeolites under strong alkaline conditions and the catalytic activity for partial oxidation and photocatalytic decomposition. 1996 , 37, 217-221	10
2297	Catalytic activity of $(\text{CaO})_1(\text{ZnO})_x$ solids for the N_2O decomposition: relation with photoluminescence. 1996 , 41, 113-117	3
2296	Photocatalytic degradation of malonic acid in aqueous suspensions of titanium dioxide: an initial kinetic investigation of CO_2 photogeneration. 1996 , 96, 175-180	58
2295	TiO_2 -fixed-bed reactor for water decontamination using solar light. 1996 , 56, 471-477	60
2294	Photo-induced Transformation, upon UV Illumination in Air, of Hyponitrite Species N_2O_2 -Preadsorbed on TiO_2 Surface. 1996 , 24, 355-359	50
2293	Spin-catalysis phenomena. 1996 , 57, 519-532	34
2292	Semiconductor-Catalysed Photoaddition: β -Unsaturated Amines from Cyclopentene and Schiff Bases. 1996 , 129, 925-932	41
2291	Hydrogen production from water and conversion of carbon dioxide to useful chemicals by room temperature photoelectrocatalysis. 1996 , 27, 271-277	75
2290	Effect of temperature on kraft black liquor degradation by ZnO -photoassisted catalysis. 1996 , 93, 205-209	40
2289	Effects of reaction temperature and water vapor content on the heterogeneous photocatalytic oxidation of ethylene. 1996 , 97, 181-186	133
2288	Acceleration of secondary dark reactions of intermediates derived from adsorbed dyes on irradiated TiO_2 powders. 1996 , 98, 91-101	28
2287	Photocatalytic properties of iron-doped titania semiconductors. 1996 , 98, 171-181	366
2286	Photoredox reactions of ArXCOOH ($\text{X}=\text{CH}_2, \text{OCH}_2, \text{SCH}_2, \text{SOCH}_2$ or SO_2CH_2) on TiO_2 . 1996 , 99, 67-70	6
2285	Partial or complete heterogeneous photocatalytic oxidation of neat toluene and 4-picoline in liquid organic oxygenated dispersions containing pure or iron-doped titania photocatalysts. 1996 , 104, 329-339	31
2284	Solar photocatalytic processes for the purification of water: State of development and barriers to commercialization. 1996 , 56, 429-437	70
2283	Investigation of controlled periodic illumination effects on photo-oxidation processes at titanium dioxide films using rotating ring disk photoelectrochemistry. 1996 , 406, 213-217	15
2282	Photocatalytic water treatment on immobilized TiO_2 combined with ozonation. 1996 , 101, 85-87	56
2281	Semiconductor photocatalysis: an environmentally acceptable alternative production technique and effluent treatment process. 1996 , 4, 203-212	90

2280	Preparation and photocatalytic studies on a novel Ti-substituted polyoxometalate. 1996 , 114, 65-75	31
2279	Photocatalytic Degradation of Formic Acid via Metal-Supported Titania. 1996 , 122, 217-221	24
2278	Photocatalytic degradation of succinic acid in aqueous suspensions of titanium dioxide: An initial kinetic investigation of co ₂ photogeneration. 1996 , 55, 115-126	6
2277	Dry Phase Titanium Dioxide-Mediated Photocatalysis: Basis for In Situ Surface Destruction of Hazardous Chemicals. 1997 , 123, 974-981	12
2276	Materials issues in solar detoxification of air and water. 1997 ,	1
2275	Particle size effects on transformation kinetics and phase stability in nanocrystalline TiO ₂ . 1997 , 82, 717-728	581
2274	Applications in photocatalytic purification of air. 1997 , 103, 445-461	37
2273	Femtosecond Diffuse Reflectance Spectroscopy on Some Standard TiO ₂ Powder Catalysts. 1997 , 26, 735-736	27
2272	Enhancement of Photocatalytic Oxidation Activity by Surface-Modified CdS Nanoparticles of High Photostability. 1997 , 26, 751-752	10
2271	Coadsorption of Cationic Dyes with Surfactants on Colloidal TiO ₂ Particles to Achieve Photosensitization in Highly Acidic Media. 1997 , 26, 791-792	12
2270	Semiconductor Photocatalysis. Part 22. Visible-Light Induced Photoreduction of CO ₂ with CdS Nanocrystallites □ Importance of the Morphology and Surface Structures Controlled through Solvation by N,N-Dimethylformamide. 1997 , 70, 2063-2070	27
2269	An in situ FT-IR Study on Photocatalytic Reaction at Semiconductor-Aqueous Solution Interface □ Mechanism of Photocatalytic N-Cyclization of (S)-Lysine. 1997 , 26, 91-92	4
2268	Photoelectron transfer in nanocomposite films, layer by layer self-assembled from polycations and anionic semiconductors. 1997 , 103, 261-276	1
2267	In Situ Solid-State NMR Observations of Photocatalytic Surface Chemistry: Degradation of Trichloroethylene. 1997 , 119, 7877-7878	31
2266	A feasibility study of the destruction of chemical weapons by photocatalytic oxidation. 1997 , 6, 205-237	5
2265	Quantum Confinement Effects Enable Photocatalyzed Nitrate Reduction at Neutral pH Using CdS Nanocrystals. 1997 , 101, 5010-5017	51
2264	Comparative Study of Mo ₂ OxSy(cys) ₂₂ -Complexes as Catalysts for Electron Transfer from Irradiated Colloidal TiO ₂ to Acetylene. 1997 , 13, 1571-1576	8
2263	Characterization of Covalently Immobilized Q-CdS Particles on Au(111) by Scanning Tunneling Microscopy and Tunneling Spectroscopy with High Reproducibility. 1997 , 13, 742-746	42

2262	Evaluation of Diffusibility of Adsorbed Propionaldehyde on Titanium Dioxide-Loaded Adsorbent Photocatalyst Films from Its Photodecomposition Rate. 1997 , 101, 2644-2649	75
2261	Cumene Photo-oxidation over Powder TiO ₂ Catalyst. 1997 , 13, 2373-2379	16
2260	Photoreduction of 1,1,2-Trichlorotrifluoroethane Initiated by TiO ₂ Particles. 1997 , 101, 3769-3775	14
2259	Photocatalytic Activity of Amorphous Anatase Mixture of Titanium(IV) Oxide Particles Suspended in Aqueous Solutions. 1997 , 101, 3746-3752	714
2258	Probing the TiO ₂ Photocatalytic Mechanisms in Water Purification by Use of Quinoline, Photo-Fenton Generated OH Radicals and Superoxide Dismutase. 1997 , 101, 2650-2658	196
2257	Defect Sites on TiO ₂ (110). Detection by O ₂ Photodesorption. 1997 , 13, 4311-4316	121
2256	A New Method To Determine the Generation of Hydroxyl Radicals in Illuminated TiO ₂ Suspensions. 1997 , 101, 7127-7134	192
2255	Role of Platinum Deposits on Titanium(IV) Oxide Particles: Structural and Kinetic Analyses of Photocatalytic Reaction in Aqueous Alcohol and Amino Acid Solutions. 1997 , 101, 3349-3359	218
2254	Optical and Photochemical Properties of Nonstoichiometric Cadmium Sulfide Nanoparticles: Surface Modification with Copper(II) Ions. 1997 , 13, 3142-3149	263
2253	Charge Carrier Dynamics at TiO ₂ Particles: Reactivity of Free and Trapped Holes. 1997 , 101, 4265-4275	422
2252	Solar-Powered Photocatalytic Fiber-Optic Cable Reactor for Waste Stream Remediation. 1997 , 119, 229-236	38
2251	A Review of Engineering Developments of Aqueous Phase Solar Photocatalytic Detoxification and Disinfection Processes. 1997 , 119, 101-107	116
2250	Photocatalytic Degradation of Water Organic Pollutants. Kinetic Modeling and Energy Efficiency. 1997 , 36, 4705-4711	62
2249	Photocatalytic treatment of humic substances in drinking water. 1997 , 31, 1223-1226	104
2248	Photochemical degradation of dicarboximide fungicides in the presence of soil constituents. 1997 , 35, 33-37	15
2247	Semiconductor-mediated photocatalysis for organic synthesis. 1997 , 391-415	9
2246	Primary Processes in the Catalytic Photooxidation of p-Cresol. 1997 , 68, 397-404	10
2245	Design of photocatalysts encapsulated within the zeolite framework and cavities for the decomposition of NO into N ₂ and O ₂ at normal temperature. 1997 , 39, 159-168	72

2244	Photodegradation of phenol in water using silica-supported titania catalysts. 1997 , 13, 289-297	84
2243	Photocatalytic destruction of VOCs in the gas-phase using titanium dioxide. 1997 , 14, 55-68	387
2242	Solution-Phase Grafting of Titanium Dioxide onto the Pore Surface of Mesoporous Silicates: Synthesis and Structural Characterization. 1997 , 9, 2842-2851	215
2241	TiO ₂ photocatalytic degradation of dimethyl- and diethyl- methylphosphonate, effects of catalyst and environmental factors. 1997 , 23, 325-339	48
2240	Novel synthesis of microcrystalline titanium(IV) oxide having high thermal stability and ultra-high photocatalytic activity: thermal decomposition of titanium(IV) alkoxide in organic solvents. 1997 , 46, 235-240	104
2239	Photocatalysis of reaction of hydrogen production by cadmium and zinc sulfide nanoparticles incorporated into silicate matrices. 1997 , 33, 30-33	1
2238	Preparation and ultrafast optical characterization of metal and semiconductor colloidal nano-particles. 1997 , 9, 125-137	16
2237	Nanostructural composite photocatalysts based on polycrystalline cadmium sulfide. 1997 , 33, 272-287	4
2236	Photodecomposition of phenol in a flow reactor: Adsorption and kinetics. 1997 , 128, 1109-1118	9
2235	Photocatalytic decomposition of organophosphonates in irradiated TiO ₂ suspensions. 1997 , 107, 221-226	78
2234	Processes of formation of NH ₄ ⁺ and NO ₃ ⁻ ions during the photocatalyzed oxidation of N-containing compounds at the titania/water interface. 1997 , 102, 265-272	97
2233	Effect of activated carbon content in TiO ₂ -loaded activated carbon on photodegradation behaviors of dichloromethane. 1997 , 103, 153-157	160
2232	Relative photonic efficiencies and quantum yields in heterogeneous photocatalysis. 1997 , 104, 1-12	282
2231	Heterogeneous photocatalysis XV. Mechanistic aspects of cadmium sulfide-catalyzed photoaddition of olefins to Schiff bases. 1997 , 103, 257-264	36
2230	Solvent effect on the photocatalytic reduction of 4-nitrophenol in titanium dioxide suspensions. 1997 , 107, 233-237	81
2229	Iron(III)-doped Q-sized TiO ₂ coatings in a fiber-optic cable photochemical reactor. 1997 , 108, 221-228	33
2228	The photoreduction of acetylene by band-gap irradiation of TiO ₂ using Mo ₂ O ₄ (diethyldithiocarbamate) ₂ as a catalyst. 1997 , 108, 215-220	3
2227	An overview of semiconductor photocatalysis. 1997 , 108, 1-35	2895

2226	Sensitized photocatalytic oxidation of herbicides using natural sunlight. 1997 , 108, 89-93	35
2225	Removal of organic contaminants in paper pulp treatment effluents by TiO ₂ photocatalyzed oxidation. 1997 , 109, 281-286	28
2224	An investigation on ZnO photocatalysed oxidation of uracil. 1997 , 111, 215-221	24
2223	Homogeneous photo-oxidation of phenols: influence of metals. 1997 , 110, 167-175	31
2222	Photochemistry of ZnTPP induced by cadmium sulfide nanoparticles in 2-propanol. 1997 , 111, 187-198	3
2221	Photoreactions of ethanol and MTBE on metal oxide particles in the troposphere. 1997 , 33, 215-225	32
2220	Effect of TiO ₂ crystalline structure in photocatalytic degradation of phenolic contaminants. 1997 , 33, 227-237	151
2219	Photocatalytic bleaching of p-nitrosodimethylaniline in TiO ₂ aqueous suspensions: A kinetic treatment involving some primary events photoinduced on the particle surface. 1997 , 120, 235-245	33
2218	Photocatalytic degradation of mono-, di- and trinitrophenol in aqueous TiO ₂ suspension. 1997 , 122, 67-74	78
2217	Electronic spectra and photocatalytic activities of semiconductor nanoparticles incorporated in silica matrix. 1997 , 408-409, 563-567	7
2216	Direct measurement of picosecond interfacial electron transfer from photoexcited TiO ₂ powder to an adsorbed molecule in the opaque suspension. 1997 , 275, 234-238	48
2215	Photochemistry of copper complexes and their environmental aspects. 1997 , 159, 95-108	65
2214	Product selectivity control in photoelectrochemical reduction of ketones on a p-Si photocathode. 1997 , 42, 2081-2087	5
2213	Photocatalytic degradation of trichlorobenzene using immobilized TiO ₂ films containing poly(tetrafluoroethylene) and platinum metal catalyst. 1998 , 43, 2111-2116	29
2212	Photocatalytic Decomposition of Trichloro Ethylene and Nitrate Ion in Water on Hollandite-Type Catalysts. 1998 , 6, 329-333	13
2211	Chemistry of semiconductor nanoparticles. 1998 , 67, 109-122	84
2210	Oxygenation of aldimines and deoxygenation of nitrones on irradiated TiO ₂ . 1998 , 39, 3547-3550	9
2209	The Nature of Multilayered TiO ₂ -Based Photocatalytic Films Prepared By a Sol-Gel Process. 1998 , 33, 795-801	38

2208	The kinetics of photocatalytic degradation of trichloroethylene in gas phase over TiO ₂ supported on glass bead. 1998 , 17, 313-320	121
2207	Immobilisation of TiO ₂ powder for the treatment of polluted water. 1998 , 17, 25-36	349
2206	Gas-phase photo-assisted mineralization of volatile organic compounds by monolithic titania catalysts. 1998 , 17, 75-88	52
2205	Novel photocatalytic reactor for water purification. 1998 , 44, 477-483	102
2204	Kinetics of heterogeneous photocatalytic decomposition of 2,4-dichlorophenoxyacetic acid over titanium dioxide and zinc oxide in aqueous solution. 1998 , 54, 269-276	39
2203	Titanium dioxide photocatalysed alkylation of maleic acid derivatives. 1998 , 54, 2575-2582	34
2202	Improved visible-light photochromism in Au/MoO ₃ SnO ₂ thin films. 1998 , 105, 479-480	9
2201	TiO ₂ -assisted photodegradation of dyes: A study of two competitive primary processes in the degradation of RB in an aqueous TiO ₂ colloidal solution. 1998 , 129, 257-268	199
2200	Photocatalytic reduction of nitrate ions on TiO ₂ by oxalic acid. 1998 , 112, 255-259	96
2199	Photocatalytic reduction of CO ₂ using surface-modified CdS photocatalysts in organic solvents. 1998 , 113, 93-97	135
2198	Effect of light sources on the phenol degradation using Pt/TiO ₂ photocatalysts immobilized on glass fibres. 1998 , 113, 251-256	42
2197	Oxidation of aryl methyl sulfides and sulfoxides on irradiated TiO ₂ . 1998 , 115, 169-173	15
2196	Photodecomposition of 4-amino-1,2,4-triazin-3,5-diones and -thiones in oxygenated aqueous solutions. 1998 , 115, 191-197	10
2195	An investigation on photocatalytic activities of mixed TiO ₂ -rare earth oxides for the oxidation of acetone in air. 1998 , 116, 63-67	237
2194	Photodegradation of parathion in aqueous titanium dioxide and zero valent iron solutions in the presence of hydrogen peroxide. 1998 , 116, 221-228	56
2193	Photodegradation of Rhodamine B catalyzed by TiO ₂ thin films. 1998 , 116, 167-170	86
2192	Photosensitization of nanocrystalline TiO ₂ thin films by a polyimide bearing pendent substituted-Ru(bpy) ₃ +2groups. 1998 , 43, 232-238	7
2191	Mass spectrometry on-line monitoring and MS ₂ product characterization of TiO ₂ /UV photocatalytic degradation of chlorinated volatile organic compounds. 1998 , 9, 1321-1327	36

2190	A new photocatalytic reactor for destruction of toxic water pollutants by advanced oxidation process. 1998 , 44, 357-368	45
2189	Adsorption of CO on the TiO ₂ (110) Surface: A Theoretical Study. 1998 , 102, 4556-4565	82
2188	Electron-induced decomposition of methanol on the vacuum-annealed surface of TiO ₂ (110). 1998 , 412-413, 252-272	56
2187	Cysteine-mediated synthesis of CdS bionanocrystallites. 1998 , 37, 363-385	30
2186	Photoassisted Degradation of Dye Pollutants. V. Self-Photosensitized Oxidative Transformation of Rhodamine B under Visible Light Irradiation in Aqueous TiO ₂ Dispersions. 1998 , 102, 5845-5851	893
2185	Photocatalytic Reduction of Nitro Organics over Illuminated Titanium Dioxide: Role of the TiO ₂ Surface. 1998 , 14, 3551-3555	158
2184	Photodegradation kinetics of adipic acid in the presence of TiO ₂ . 1998 , 65, 123-133	1
2183	Chapter 6. Organized molecular assemblies on the surfaces of inorganic solids-photofunctional inorganic-organic supramolecular systems. 1998 , 94, 209	49
2182	Amorphous Microporous Titania Modified with Platinum(IV) Chloride A New Type of Hybrid Photocatalyst for Visible Light Detoxification. 1998 , 102, 10765-10771	153
2181	Kinetics and Mechanism of Photoelectrochemical Oxidation of Nitrite Ion by Using the Rutile Form of a TiO ₂ /Ti Photoelectrode with High Electric Field Enhancement. 1998 , 37, 4207-4214	25
2180	Enhancing Effect of SiO _x Monolayer Coverage of TiO ₂ on the Photoinduced Oxidation of Rhodamine 6G in Aqueous Media. 1998 , 102, 6360-6366	40
2179	Characterization of TitaniumSilicon Binary Oxide Catalysts Prepared by the Sol-Gel Method and Their Photocatalytic Reactivity for the Liquid-Phase Oxidation of 1-Octanol. 1998 , 102, 5870-5875	167
2178	Photooxidation of Ethanol on Fe ^{III} Oxide Particulates. 1998 , 14, 6146-6150	7
2177	Effect of the TiO ₂ Surface on the Reactivity of Photocatalytically Generated (SCN) ₂ and I ₂ . 1998 , 14, 1725-1727	6
2176	Photoelectrochemistry of a Substituted-Ru(bpy) ₃ ²⁺ -Labeled Polyimide and Nanocrystalline SnO ₂ Composite Formulated as a Thin-Film Electrode. 1998 , 102, 5333-5340	23
2175	Preparation of Titanium Oxide Photocatalysts Anchored on Porous Silica Glass by a Metal Ion-Implantation Method and Their Photocatalytic Reactivities for the Degradation of 2-Propanol Diluted in Water. 1998 , 102, 10707-10711	218
2174	Changing the Product State Distribution and Kinetics in Photocatalytic Surface Reactions Using Pulsed Laser Irradiation. 1998 , 120, 8265-8266	5
2173	Photooxidation of Trichloroethylene on Pt/TiO ₂ . 1998 , 102, 1418-1423	97

2172	In Situ Solid-State NMR Studies of Trichloroethylene Photocatalysis: Formation and Characterization of Surface-Bound Intermediates. 1998 , 120, 4388-4397	80
2171	Ultrafast Charge Carrier Dynamics of SnO ₂ Nanoclusters: A Refined Interpretation of the Electron Hole Kinetics in Metal Oxides. 1998 , 102, 1341-1346	17
2170	Iron(III) Phthalocyanine-Modified Titanium Dioxide: A Novel Photocatalyst for the Enhanced Photodegradation of Organic Pollutants. 1998 , 102, 9397-9403	90
2169	Enhancement of Photochromism and Electrochromism in MoO ₃ /Au and MoO ₃ /Pt Thin Films. 1998 , 102, 1856-1860	94
2168	Nature of Electrical Junction at the TiO ₂ /Substrate Interface for Particulate TiO ₂ Film Electrodes in Aqueous Electrolytes. 1998 , 102, 6049-6055	29
2167	Photostimulated Reactions at the Surface of Wide Band-Gap Metal Oxides (ZrO ₂ and TiO ₂): Interdependence of Rates of Reactions on Pressure Concentration and on Light Intensity. 1998 , 102, 10906-10916	55
2166	Nature of the power-dependent ultrafast relaxation process of photoexcited charge carriers in II-VI semiconductor quantum dots: Effects of particle size, surface, and electronic structure. 1998 , 108, 2143-2151	100
2165	Reactive sputtering as a tool for preparing photocatalysts. 1998 , 485-493	2
2164	Preparation of Ultra Fine TiO ₂ Particles Dispersible in Organic Solvents and Their Photocatalytic Properties.. 1998 , 31, 21-28	20
2163	Photocatalytic Reductions of Nitric Oxide in gas Phase and Nitrate ion in Water with Reducing Agents on Hollandite Catalyst. 1998 , 549, 125	2
2162	Visible-light Induced Allylation of Benzyl Halide Using CdS Nanocrystallites. 1998 , 27, 769-770	1
2161	High Photocurrent Quantum Yields in Short Wavelengths for Nanocrystalline Anatase-Type TiO ₂ Film Electrodes Compared with Those for Rutile-Type. 1998 , 71, 2119-2125	23
2160	NO _x Destruction Behavior of Select Materials When Combined with a Non-Thermal Plasma. 1999 ,	8
2159	Kinetic Modeling of Electron Transfer Processes in Colloidal Semiconductor Photocatalysis. 1999 , 281-368	3
2158	Preparation and enhanced photocatalytic oxidation activity of surface-modified CdS nanoparticles with high photostability. 1999 , 14, 2092-2095	4
2157	Photodegradation of fungicide triadimefon and pesticide pirimicarb in aqueous TiO ₂ suspension. 1999 , 68, 403-412	3
2156	The influence of TiO ₂ characteristics on the catalytic Cr(VI) photoreduction. 1999 , 69, 263-272	2
2155	Novel photocatalytic product from m-nitrocinnamic acid and alcohol mediated by TiO ₂ . 1999 , 40, 1145-1148	6

2154	Synthesis of titanium(IV) oxide of ultra-high photocatalytic activity: high-temperature hydrolysis of titanium alkoxides with water liberated homogeneously from solvent alcohols. 1999 , 144, 165-171	65
2153	Kinetic studies of oxidation of ethylene over a TiO ₂ photocatalyst. 1999 , 121, 55-61	121
2152	Enhanced photocatalytic activity of supported TiO ₂ : dispersing effect of SiO ₂ . 1999 , 122, 57-60	106
2151	The reactions of substituted acyclic 1,3-butadienes on photoexcited TiO ₂ in acetonitrile. 1999 , 122, 127-131	7
2150	Enhanced photodecomposition of 4-chlorophenol in aqueous solution by deposition of CdS on TiO ₂ . 1999 , 125, 119-125	70
2149	Effect of transition metals on photoinduced proton transfer from anthrone to 9-anthrol in glasses prepared by the sol-gel method. 1999 , 125, 85-91	4
2148	Anatase-phase titania: preparation by embedding silica and photocatalytic activity for the decomposition of trichloroethylene. 1999 , 127, 117-122	150
2147	Photocatalytic properties of ZrO ₂ and Fe/ZrO ₂ semiconductors prepared by a sol-gel technique. 1999 , 129, 89-99	121
2146	Degradation of organic pollutants in water by photochemical reactors. 1999 , 48, 315-321	27
2145	In situ solid-state NMR studies of ethanol photocatalysis: characterization of surface sites and their reactivities. 1999 , 49, 353-361	41
2144	Characterization of metal ion-implanted titanium oxide photocatalysts operating under visible light irradiation. 1999 , 6, 451-2	169
2143	The enhancement of redox reactions with mixed oxide catalysts by the sol-gel process. 1999 , 57, 217-227	3
2142	Photocatalytic Oxidation of Ethylene to CO ₂ and H ₂ O on Ultrafine Powdered TiO ₂ Photocatalysts in the Presence of O ₂ and H ₂ O. 1999 , 185, 114-119	187
2141	FTIR Study of Adsorption and Reactions of Methyl Formate on Powdered TiO ₂ . 1999 , 185, 423-434	93
2140	Gas-Phase Oxidation of 1-Butene Using Nanoscale TiO ₂ Photocatalysts. 1999 , 188, 48-57	88
2139	Effects of Particle Size of TiO ₂ on Photocatalytic Degradation of Methylene Blue in Aqueous Suspensions. 1999 , 38, 373-379	286
2138	Photocatalytic water purification: Destruction of resorcinol by irradiated titania. 1999 , 66, 289-295	11
2137	1,2-Diolates of titanium as suitable precursors for the preparation of photoactive high surface titania. 1999 , 21, 269-277	45

2136	Heterogeneous photocatalysis Transition metal ions in photocatalytic systems. 1999 , 23, 89-114	1115
2135	Reductive decomposition of nitrate ion to nitrogen in water on a unique hollandite photocatalyst. 1999 , 23, 283-289	42
2134	Major Challenges in the Design of a Large-Scale Photocatalytic Reactor for Water Treatment. 1999 , 22, 253-260	147
2133	Computer Simulation of a Novel Photocatalytic Reactor Using Distributive Computing Environment. 1999 , 22, 881-888	22
2132	Application of the Photocatalytic Chemistry of Titanium Dioxide to Disinfection and the Killing of Cancer Cells. 1999 , 28, 1-50	440
2131	Photoassisted Degradation of Dye Pollutants. 8. Irreversible Degradation of Alizarin Red under Visible Light Radiation in Air-Equilibrated Aqueous TiO ₂ Dispersions. 1999 , 33, 2081-2087	229
2130	Heterogeneous Photocatalytic Oxidation of 1-Butene on SnO ₂ and TiO ₂ Films. 1999 , 103, 2912-2917	74
2129	Adsorption and chemisorption of organic pollutants on solid aerosol surfaces. 1999 , 571-634	5
2128	Adsorption of O ₂ on TiO ₂ (110): A theoretical study. 1999 , 110, 10539-10544	24
2127	Preparation and characterization of nanosized TiO ₂ powders from aqueous TiCl ₄ solution. 1999 , 11, 1293-1300	80
2126	Studies of Surface Wettability Conversion on TiO ₂ Single-Crystal Surfaces. 1999 , 103, 2188-2194	586
2125	Titanium oxide films grown on Mo(110). 1999 , 437, 49-60	79
2124	Comparison of photodegradative rate of rhodamine B assisted by two kinds of TiO ₂ films. 1999 , 38, 2407-2414	43
2123	Photochemical degradation of carboxin and oxycarboxin in the presence of humic substances and soil. 1999 , 38, 3423-3429	41
2122	Photooxidation of Organic Chemicals Catalyzed by Nanoscale MoS ₂ . 1999 , 103, 11-17	228
2121	Interaction of Molecular Oxygen with the Vacuum-Annealed TiO ₂ (110) Surface: Molecular and Dissociative Channels. 1999 , 103, 5328-5337	433
2120	Crystallization of Anatase from Amorphous Titania Using the Hydrothermal Technique: Effects of Starting Material and Temperature. 1999 , 103, 7781-7787	433
2119	Charge Carrier Dynamics of Standard TiO ₂ Catalysts Revealed by Femtosecond Diffuse Reflectance Spectroscopy. 1999 , 103, 3120-3127	238

2118	TiO ₂ -Assisted Photodegradation of Dyes. 9. Photooxidation of a Squarylium Cyanine Dye in Aqueous Dispersions under Visible Light Irradiation. 1999 , 33, 1379-1387	216
2117	The Influence of Mineralization Products on the Coagulation of TiO ₂ Photocatalyst. 1999 , 15, 2071-2076	52
2116	Photoinduced Decomposition of Trichloroethylene on Soil Components. 1999 , 33, 74-80	23
2115	Applications of metal and semiconductor nanoclusters as thermal and photo-catalysts. 1999 , 12, 993-997	55
2114	Ethanol Photocatalysis on TiO ₂ -Coated Optical Microfiber, Supported Monolayer, and Powdered Catalysts: An in Situ NMR Study. 1999 , 103, 11152-11160	73
2113	Photochemistry of Methanol and Methoxy Groups Adsorbed on Powdered TiO ₂ . 1999 , 103, 2439-2444	58
2112	Spectral Dependencies of the Quantum Yield of Photochemical Processes on the Surface of Nano-/Microparticulates of Wide-Band-Gap Metal Oxides. 1. Theoretical Approach. 1999 , 103, 1316-1324	56
2111	Adsorption and Photooxidation of CH ₃ CN on TiO ₂ . 1999 , 103, 6957-6967	71
2110	Titanium Dioxide-Coated Silica Waveguides for the Photocatalytic Oxidation of Formic Acid in Water. 1999 , 33, 2070-2075	55
2109	Evidence for H ₂ O ₂ Generation during the TiO ₂ -Assisted Photodegradation of Dyes in Aqueous Dispersions under Visible Light Illumination. 1999 , 103, 4862-4867	210
2108	Efficiency of Hot Carrier Trapping by Outer-Sphere Redox Probes at Quantum Dot Interfaces. 1999 , 103, 6400-6402	23
2107	Photocatalytic Decolorization of Methylene Blue in Aqueous TiO ₂ Suspension. 1999 , 16, 165-175	50
2106	Effects of Mordenite Support on Photodegradation of Gaseous Organic Compounds over TiO ₂ Photocatalyst. 1999 , 72, 1615-1621	5
2105	Dihydroxylation of Naphthalene by Molecular Oxygen and Water Using TiO ₂ Photocatalysts. 1999 , 28, 963-964	18
2104	Crystallization of TiO ₂ in Sol-Gel Derived SiO ₂ -TiO ₂ System: Formation of TiO ₂ (B) Nanocrystallites. 1999 , 580, 213	2
2103	Techniques for Surface Treatment of Light Metals. Photocatalytic activity of anodized film of titanium prepared through 2-step anodizing.. 2000 , 50, 603-608	8
2102	Thermal treatment of titanium alkoxides in organic media: Novel synthesis methods for titanium(IV) oxide photocatalyst of ultra-high activity. 2000 , 130, 1937-1942	3
2101	Formation of ethylene oxide by photooxidation of ethylene over silica modified with copper. 2000 , 130, 1955-1960	4

2100	Ultrafast Energy Transfer Dynamics at Solid/Liquid Interfaces as Investigated by Photothermal Spectroscopy. 2000 , 73, 507-514	1
2099	Preparation of Visible-Light-Responsive Titanium Oxide Photocatalysts by Plasma Treatment. 2000 , 29, 1354-1355	78
2098	Investigation of environmental photocatalysis by solid-state NMR spectroscopy. 2000 , 130, 671-676	1
2097	SiO(x) Monolayer Overcoating Effect on the TiO(2) Photocatalytic Oxidation of Cetylpyridinium Bromide. 2000 , 221, 316-319	5
2096	Surface photochemistry of alkyl aryl ketones: energy transfer and the effect of a silica-gel surface on electronic states of excited molecules. 2000 , 13, 437-442	7
2095	Photo-oxidation of some benzylic alcohols sensitized by colloidal TiO ₂ in CH ₃ CN. A kinetic mechanistic study through quantum yield determinations. 2000 , 13, 745-751	16
2094	Effect of mass transfer and catalyst layer thickness on photocatalytic reaction. 2000 , 46, 1034-1045	118
2093	Fluorinated aromatics as sensitizers for photo-splitting of water. 2000 , 105, 305-311	20
2092	Photophysical properties of organic fluorescent probes on nanosized TiO ₂ /SiO ₂ systems prepared by the sol-gel method. 2000 , 553, 1-7	15
2091	Preparation of titanium dioxide and barium titanate nanothick film by Langmuir-Blodgett technique. 2000 , 379, 218-223	9
2090	Preparation of efficient titanium oxide photocatalysts by an ionized cluster beam (ICB) method and their photocatalytic reactivities for the purification of water. 2000 , 63, 63-69	78
2089	Detection of active oxidative species in TiO ₂ photocatalysis using the fluorescence technique. 2000 , 2, 207-210	941
2088	Titanium dioxide photocatalysis. 2000 , 1, 1-21	6242
2087	Role of oxygen vacancy in the plasma-treated TiO ₂ photocatalyst with visible light activity for NO removal. 2000 , 161, 205-212	963
2086	Effect of hydrolysis conditions on morphology and crystallization of nanosized TiO ₂ powder. 2000 , 20, 2153-2158	83
2085	Effect of detergents on the fluorescence from CdS-Q clusters prepared using variable excess Cd ²⁺ concentrations. 2000 , 133, 205-211	12
2084	Factors affecting the efficiency of a photocatalyzed process in aqueous metal-oxide dispersions. 2000 , 133, 89-97	147
2083	ESR spin-trapping detection of radical intermediates in the TiO ₂ -assisted photo-oxidation of sulforhodamine B under visible irradiation. 2000 , 133, 83-88	58

2082	Quantum yields and relative photonic efficiencies of substituted 1,3-dihydroxybenzenes. 2000 , 134, 59-70	7
2081	Photophysical and photocatalytic behaviours of Cd(OH) ₂ -coated Q-CdS in the presence of tryptophan. 2000 , 134, 199-207	13
2080	Quantum yields of active oxidative species formed on TiO ₂ photocatalyst. 2000 , 134, 139-142	631
2079	Photocatalytic degradation of lindane, p,p'-DDT and methoxychlor in an aqueous environment. 2000 , 135, 213-220	67
2078	Effect of chloride ions on 4-chlorophenol photodegradation in the absence and presence of titanium silicalite-2. 2000 , 136, 117-123	11
2077	(Photo)electrochemical behavior of selected organic compounds on TiO ₂ electrodes. Overall relevance to heterogeneous photocatalysis. 2000 , 130, 145-156	22
2076	Photocatalysed degradation of uracil in aqueous titanium dioxide suspensions: mechanisms, pH and cadmium chloride effects. 2000 , 130, 157-162	20
2075	Photo- and radiation chemical induced degradation of lignin model compounds. 2000 , 56, 85-108	129
2074	Photocatalytic decomposition of NO by TiO ₂ particles. 2000 , 134, 209-217	98
2073	Photocatalytic degradation of butanoic acid. 2000 , 135, 65-75	38
2072	Non-linear parameter estimation for a dynamic model in photocatalytic reaction engineering. 2000 , 55, 4885-4891	20
2071	Recent topics in photoelectrochemistry: achievements and future prospects. 2000 , 45, 2363-2376	540
2070	Scaling properties in photocatalysis. 2000 , 58, 115-123	66
2069	Reusable adsorbents for dilute solution separation. 4: Adsorption of 1,2 dichlorobenzene and phenanthrene on a surfactant-modified semiconductor (titania) surface. 2000 , 21, 9-16	7
2068	Effects of calcination on the photocatalytic properties of nanosized TiO ₂ powders prepared by TiCl ₄ hydrolysis. 2000 , 26, 207-215	498
2067	Photocatalytic degradation of phenol by TiO ₂ thin films prepared by sputtering. 2000 , 25, 83-92	127
2066	Morphological and Structural Characterization of a Titanium Dioxide System. 2000 , 44, 271-275	38
2065	Adsorption and Photocatalytic Oxidation of Acetone on TiO ₂ : An in Situ Transmission FT-IR Study. 2000 , 191, 138-146	160

2064	Size Effects in Gas-Phase Photo-oxidation of Trichloroethylene Using Nanometer-Sized TiO ₂ Catalysts. 2000 , 192, 185-196	296
2063	Study of Adsorption and Reactions of Methyl Iodide on TiO ₂ . 2000 , 194, 45-54	28
2062	Thermocatalytic Oxidation of Dimethyl Methylphosphonate on Supported Metal Oxides. 2000 , 194, 61-70	44
2061	Photocatalytic Oxidation of Toluene on Nanoscale TiO ₂ Catalysts: Studies of Deactivation and Regeneration. 2000 , 196, 253-261	280
2060	Energetics of electron processes in semiconductor photocatalytic systems. 2000 , 36, 63-81	25
2059	Design and development of two large-scale photocatalytic reactors for treatment of toxic organic chemicals in wastewater. 2000 , 155-171	
2058	Comparative Photodegradation Study of Atrazine and Desethylatrazine in Water Samples Containing Titanium Dioxide/Hydrogen Peroxide and Ferric Chloride/Hydrogen Peroxide. 2000 , 83, 53-60	13
2057	References. 2000 , 377-394	
2056	Identification of New Photodegradation Byproducts of the Antifouling Agent Irgarol in Seawater Samples. 2000 , 78, 25-40	16
2055	Rotating disk photocatalytic reactor: development, characterization, and evaluation for the destruction of organic pollutants in water. 2000 , 34, 2927-2940	109
2054	Photochemistry of hydrolytic iron (III) species and photoinduced degradation of organic compounds. A minireview. 2000 , 41, 1137-47	283
2053	A geometric approach to determine adsorption and desorption kinetic constants. 2000 , 41, 1741-7	25
2052	Photocatalytic degradation of AZO dyes by supported TiO ₂ + UV in aqueous solution. 2000 , 41, 303-9	153
2051	Photooxidation Pathway of Sulforhodamine-B. Dependence on the Adsorption Mode on TiO ₂ Exposed to Visible Light Radiation. 2000 , 34, 3982-3990	233
2050	Bonding Geometry and Reactivity of Methoxy and Ethoxy Groups Adsorbed on Powdered TiO ₂ . 2000 , 104, 8719-8724	155
2049	Effects of pH and Applied Potential on Photocurrent and Oxidation Rate of Saline Solutions of Formic Acid in a Photoelectrocatalytic Reactor. 2000 , 34, 3443-3451	117
2048	Oxidation and reduction of nitrite ion in the TiO ₂ photo-induced catalytic reaction. 2000 , 64, 1751-3	11
2047	Spectral Dependencies of the Quantum Yield of Photochemical Processes on the Surface of Wide Band Gap Solids. 3. Gas/Solid Systems 2000 , 104, 2989-2999	74

2046	Spectral Dependence and Wavelength Selectivity in Heterogeneous Photocatalysis. I. Experimental Evidence from the Photocatalyzed Transformation of Phenols. 2000 , 104, 11202-11210	63
2045	Kinetic Probes of the Mechanism of Polyoxometalate-Mediated Photocatalytic Oxidation of Chlorinated Organics. 2000 , 104, 9444-9448	49
2044	Diffusion-Controlled Charge Transfer from Excited Ru(bpy) ₃ ²⁺ into Nanosized TiO ₂ Colloids Stabilized with EDTA. 2000 , 104, 468-474	16
2043	Generation and Deactivation Processes of Superoxide Formed on TiO ₂ Film Illuminated by Very Weak UV Light in Air or Water. 2000 , 104, 4934-4938	152
2042	Catalytic and Photocatalytic Oxidation of Ethylene on Titania-Based Thin-Films. 2000 , 34, 5206-5210	68
2041	Correlation between Surface Morphology and Hydrophilic/Hydrophobic Conversion of MOCVD TiO ₂ Films. 2000 , 16, 7289-7293	81
2040	Adsorption of NO on the TiO ₂ (110) Surface: An Experimental and Theoretical Study. 2000 , 104, 4408-4417	108
2039	Preparation of Nanoscale Semiconductors through the Rapid Expansion of Supercritical Solution (RESS) into Liquid Solution. 2000 , 39, 4663-4669	52
2038	Influence of Thermal Treatment on the Adsorption of Oxygen and Photocatalytic Activity of TiO ₂ . 2000 , 16, 7304-7308	102
2037	Semiconductor-Based Composite Materials: Preparation, Properties, and Performance. 2001 , 13, 2765-2782	434
2036	Photophysical Properties of Ag(I)-exchanged Zeolite A and the Photoassisted Degradation of Malathion. 2001 , 105, 7508-7516	51
2035	Enhancement of the Photoinduced Hydrophilic Conversion Rate of TiO ₂ Film Electrode Surfaces by Anodic Polarization. 2001 , 105, 3023-3026	294
2034	Phthalocyanine-Sensitized Nanostructured TiO ₂ Electrodes Prepared by a Novel Anchoring Method. 2001 , 17, 2743-2747	117
2033	Water- and Oxygen-Induced Decay Kinetics of Photogenerated Electrons in TiO ₂ and Pt/TiO ₂ : A Time-Resolved Infrared Absorption Study. 2001 , 105, 7258-7262	269
2032	Photooxidation of Formic Acid vs Formate and Ethanol vs Ethoxy on TiO ₂ and Effect of Adsorbed Water on the Rates of Formate and Formic Acid Photooxidation. 2001 , 105, 7678-7685	114
2031	Investigation of the photocatalytic activity of TiO ₂ -polyoxometalate systems. 2001 , 35, 3242-6	155
2030	Visible-light photocatalysis in nitrogen-doped titanium oxides. 2001 , 293, 269-71	10570
2029	Synthesis and characterization of high dispersed TiO ₂ . 2001 , 3, 531-536	9

2028	Synthesis and characterization of titania films on Mo(1 1 0). 2001 , 487, 1-8	48
2027	The influence of pH and cadmium sulfide on the photocatalytic degradation of 2-chlorophenol in titanium dioxide suspensions. 2001 , 35, 2873-80	158
2026	Comparison of the degradation of p-hydroxybenzoic acid in aqueous solution by several oxidation processes. 2001 , 42, 351-9	67
2025	Photocatalytic activity of TiO ₂ films grown on different substrates. 2001 , 44, 1087-92	82
2024	Intermediate inhibition in the heterogeneous UV-catalysis using a TiO ₂ suspension system. 2001 , 45, 29-35	24
2023	Photocatalytic Oxidation of 2-Propanol on TiO ₂ Powder and TiO ₂ Monolayer Catalysts Studied by Solid-State NMR. 2001 , 105, 4343-4349	90
2022	Enhancement Effect of Gold Nanoparticles on the UV-Light Photochromism of Molybdenum Trioxide Thin Films. 2001 , 17, 8024-8027	59
2021	FTIR Study of Adsorption and Reactions of Methylamine on Powdered TiO ₂ . 2001 , 105, 5928-5934	25
2020	Characterization of TiO ₂ Photocatalysis in the Gas Phase as a Photoelectrochemical System: Behavior of Salt-Modified Systems. 2001 , 105, 10016-10021	34
2019	Photoreductive dehalogenation of halogenated benzene derivatives using ZnS or CdS nanocrystallites as photocatalysts. 2001 , 35, 227-31	167
2018	A Study of the Effects of Europium Doping and Calcination on the Luminescence of Titania Phosphor Materials. 2001 , 105, 7170-7177	41
2017	Photocatalytic oxidation and decomposition of acetic acid on titanium silicalite. 2001 , 35, 1252-8	18
2016	Light Intensity Dependent Behavior of Active Oxygen Species Formed at TiO ₂ Film and Water Interface. 2001 , 69, 160-164	12
2015	Highly concentrated phenolic wastewater treatment by heterogeneous and homogeneous photocatalysis: mechanism study by FTIR-ATR. 2001 , 44, 229-236	16
2014	Photocatalytic degradation of leather dye over ZnO catalyst supported on alumina and glass surfaces. 2001 , 44, 211-218	23
2013	Photochemical and photophysical properties of sunscreens. 2001 , 3, 495-519	16
2012	Characterization of surface and photooxidative properties of supported metal oxide photocatalysts using solid-state NMR. 2001 , 17, 125-30	17
2011	Enhanced Photocatalytic Dechlorination of 1,2,3,4-Tetrachlorobenzene Using Nanosized CdS/TiO ₂ Hybrid Photocatalyst under Visible Light Irradiation. 2001 , 30, 334-335	31


2010	Effects of pH, Temperature and Various Anions on Thiourea Disappearance in Aqueous Media with Titanium Dioxide Under UV-Irradiation. Photomineralization Kinetics. 2001 , 66, 676-684	1
2009	Physico-Chemical Properties of Nb/Ti Binary Oxides and their Photo-Catalytic Activities. 2001 , 48, 1009-1016	2
2008	Preparation, crystal structure, and photocatalytic activity of TiO ₂ films by chemical vapor deposition. 2001 , 18, 867-872	32
2007	Photocatalytic reactivity and diffusing OH radicals in the reaction medium containing TiO ₂ particles. 2001 , 18, 898-902	16
2006	Photocatalytic oxidation of ethylene to CO ₂ and H ₂ O on ultrafine powdered TiO ₂ photocatalysts: Effect of the presence of O ₂ and H ₂ O and the addition of Pt. 2001 , 18, 930-934	25
2005	Effect of humidity on the photocatalytic degradation of trichloroethylene in gas Phase over TiO ₂ thin films treated by different conditions. 2001 , 18, 935-940	9
2004	On the feasibility and reliability of nonlinear kinetic parameter estimation for a multi-component photocatalytic process. 2001 , 18, 652-661	5
2003	The growth of Ag films on a TiO ₂ (110)-(1 \times 1) surface. 2001 , 169-170, 366-370	15
2002	Oxidation of p-hydroxybenzoic acid by UV radiation and by TiO ₂ /UV radiation: comparison and modelling of reaction kinetic. 2001 , 83, 255-64	100
2001	Photophysics and photochemistry of colloidal CdS/TiO ₂ coupled semiconductors [photocatalytic oxidation of indole. 2001 , 165, 265-273	82
2000	Preparation of titania-based catalysts for formaldehyde photocatalytic oxidation from TiCl ₄ by the sol-gel method. 2001 , 68, 89-95	95
1999	Mechanism of photocatalytic oxidation of 3,4-dichlorophenol on TiO ₂ semiconductor surfaces. 2001 , 144, 205-213	33
1998	Ultrasonic effects on electroorganic processes--Part 20. Photocatalytic oxidation of aliphatic alcohols in aqueous suspension of TiO ₂ powder. 2001 , 8, 69-74	37
1997	Photocatalytic degradation of phthalic acid on TiO ₂ nanoparticles. 2001 , 208, 419-426	36
1996	The photo-oxidation of cyclohexane on titanium dioxide: an investigation of competitive adsorption and its effects on product formation and selectivity. 2001 , 214, 259-271	126
1995	Synthesis of titania-coated silica nanoparticles using ionic water-in-oil. 2001 , 178, 151-156	32
1994	Effect of beta-Cyclodextrin on the Photoinduced Charge Transfer in Sodium 1-Anilino-8-naphthalene Sulfate (ANS)/CdS Colloidal System. 2001 , 240, 425-431	3
1993	Elektronische Halbleiter-Träger-Wechselwirkung [ein neuer Effekt in der Halbleiterphotokatalyse. 2001 , 113, 3942-3945	14

1992	Electronic Semiconductor-Support Interaction-A Novel Effect in Semiconductor Photocatalysis. 2001 , 40, 3825-3827	48
1991	Photocatalytic Destruction of Phenol by TiO ₂ Powders. 2001 , 24, 645-649	75
1990	A mechanistic approach to modeling the effect of dissolved oxygen in photo-oxidation reactions on titanium dioxide in aqueous systems. 2001 , 56, 3421-3430	59
1989	Time-resolved infrared absorption spectroscopy of photogenerated electrons in platinized TiO ₂ particles. 2001 , 333, 271-277	169
1988	Different back electron transfer from titanium dioxide nanoparticles to tetra (4-sulfonatophenyl) porphyrin monomer and its J-aggregate. 2001 , 334, 257-264	29
1987	Direct observation of a picosecond charge separation process in photoexcited platinum-loaded TiO ₂ particles by femtosecond diffuse reflectance spectroscopy. 2001 , 336, 424-430	148
1986	Visible Light Driven V-Doped TiO ₂ Photocatalyst and Its Photooxidation of Ethanol. 2001 , 105, 2815-2819	495
1985	A new photochemical method for the radioiodination of aromatic compounds and proteins. 2001 , 44, S945-S947	
1984	Investigations of TiO ₂ Photocatalysts for the Decomposition of NO in the Flow System. 2001 , 198, 1-8	76
1983	Fourier Transform Infrared Study of the Performance of Nanostructured TiO ₂ Particles for the Photocatalytic Oxidation of Gaseous Toluene. 2001 , 202, 413-420	278
1982	In Situ Solid-State Nuclear Magnetic Resonance Studies of Acetone Photocatalytic Oxidation on Titanium Oxide Surfaces. 2001 , 204, 110-117	39
1981	Direct observation of interfacial hole transfer from a photoexcited TiO ₂ particle to an adsorbed molecule SCN ⁻ by femtosecond diffuse reflectance spectroscopy. 2001 , 27, 177-187	49
1980	The stabilization of active oxygen species by Pt supported on TiO ₂ . 2001 , 338, 303-307	49
1979	A semi-continuous process for the synthesis of nanosize TiO ₂ powders and their use as photocatalysts. 2001 , 36, 811-825	84
1978	Effects of amorphous contents and particle size on the photocatalytic properties of TiO ₂ nanoparticles. 2001 , 44, 1195-1198	158
1977	Gas-phase photo-oxidation of toluene using nanometer-size TiO ₂ catalysts. 2001 , 29, 327-336	191
1976	High concentrated phenol and 1,2-propylene glycol water solutions treatment by photocatalysis. 2001 , 30, 1-10	25
1975	Intrinsic photocatalytic oxidation of the dye adsorbed on TiO ₂ photocatalysts by diffuse reflectance infrared Fourier transform spectroscopy. 2001 , 30, 293-301	54

1974	Immobilization of highly active titanium(IV) oxide particles. 2001 , 30, 329-335	46
1973	Pyrylium salt-photosensitised degradation of phenolic contaminants present in olive oil wastewaters with solar light. 2001 , 30, 437-444	48
1972	Visible light photodegradation of 4-chlorophenol with a coke-containing titanium dioxide photocatalyst. 2001 , 32, 215-227	470
1971	Reusable adsorbents for dilute solution separation. 5. Photodegradation of organic compounds on surfactant-modified titania. 2001 , 24, 309-318	31
1970	SURFACE AND INTERFACIAL RECOMBINATION IN SEMICONDUCTORS. 2001 , 217-284	4
1969	Photoassisted Electrochemical Incineration of Selected Organic Compounds. 2001 , 148, E321	15
1968	Study on dark specific resistance of Au/TiO ₂ nanogranular films. 2001 , 19, 645	1
1967	Mechanism of Action of Titanium Dioxide Pigment in the Photodegradation of Poly(Vinyl Chloride) and Other Polymers. 2001 , 26, 337-374	16
1966	Periodic Hartree-Fock study of the adsorption of molecular oxygen on a reduced TiO ₂ (110) surface. 2001 , 115, 4798-4810	44
1965	Photocatalytic oxidation of volatile organic compounds using fluorescent visible light. 2002 , 52, 845-54	26
1964	Comparison of Liquid and Gas-Phase Photooxidation of MTBE: Synthetic and Field Samples. 2002 , 128, 782-790	9
1963	Development of a new sensor for total organic carbon (TOC) determination. 2002 , 22, 57-61	6
1962	Surface Modification and Optical Behavior of TiO ₂ Nanostructures.. 2002 , 738, 891	1
1961	Fundamentals of Photocatalysis. 2002 ,	
1960	Photochemical oxidation of polycyclic aromatic hydrocarbons (PAHs) and polychlorinated biphenyls (PCBs) in soils: a tool to assess their degradability?. 2002 , 165, 173	7
1959	Preparation of 2-Alkylquinolines by TiO ₂ -photocatalyzed Reaction of Arylamines in Alcohols. 2002 , 75, 319-323	
1958	A Novel One Step Photocatalytic Synthesis of 2-Methyl Quinoxaline fromo-Phenylenediamine and Propyleneglycol over TiO ₂ /zeolite Mediated System. 2002 , 31, 234-235	11
1957	A Novel One Step Synthesis oftrans-1,4,6,9-tetraazabicyclo[4.4.0]decane over TiO ₂ /Zeolite Composite Photocatalysts. 2002 , 31, 236-237	6

1956	Time-Resolved Infrared Absorption Studies of Surface OH Groups on TiO ₂ Particles Irradiated by UV Pulses. 2002 , 75, 1019-1022	15
1955	Halbleiter-Photokatalyse. 2002 , 50, 1078-1082	4
1954	Photoinduced Processes in Heterogeneous Gas/Solid Systems. Temperature Dependence (100-300 K) and Modeling of a Surface Chemical Reaction on Zirconia that Triggers Photophysical Events in the Solid. 2002 , 106, 5956-5966	16
1953	Ensemble Effects in Nanostructured TiO ₂ Used in the Gas-Phase Photooxidation of Trichloroethylene. 2002 , 106, 4608-4616	69
1952	Photodegradation of Sulforhodamine-B Dye in Platinized Titania Dispersions under Visible Light Irradiation: Influence of Platinum as a Functional Co-catalyst. 2002 , 106, 5022-5028	282
1951	Photoelectrochemical Behavior in Low-Conductivity Media of Nanostructured TiO ₂ Films Deposited on Interdigitated Microelectrode Arrays. 2002 , 106, 7218-7224	29
1950	First Principles Calculations of the Adsorption Properties of CO and NO on the Defective TiO ₂ (110) Surface. 2002 , 106, 6184-6199	61
1949	Dual Photocatalytic Pathways of Trichloroacetate Degradation on TiO ₂ : Effects of Nanosized Platinum Deposits on Kinetics and Mechanism. 2002 , 106, 13311-13317	110
1948	Photocatalytic atrazine degradation by synthetic minerals, atmospheric aerosols, and soil particles. 2002 , 36, 5342-7	29
1947	Effect of oxygen in a thin-film rotating disk photocatalytic reactor. 2002 , 36, 3834-43	57
1946	Environmental remediation by an integrated microwave/UV illumination technique. 3. A microwave-powered plasma light source and photoreactor to degrade pollutants in aqueous dispersions of TiO ₂ illuminated by the emitted UV/visible radiation. 2002 , 36, 5229-37	50
1945	Correlation between Some Physical Properties of Titanium Dioxide Particles and Their Photocatalytic Activity for Some Probe Reactions in Aqueous Systems. 2002 , 106, 10501-10507	203
1944	Electron- and Hole-Capture Reactions on Pt/TiO ₂ Photocatalyst Exposed to Methanol Vapor Studied with Time-Resolved Infrared Absorption Spectroscopy. 2002 , 106, 9122-9125	194
1943	Solid Phase Photocatalytic Reaction on the Soot/TiO ₂ Interface: The Role of Migrating OH Radicals. 2002 , 106, 11818-11822	112
1942	TiO ₂ -based photocatalytic degradation of 2-chlorophenol adsorbed on hydrophobic clay. 2002 , 36, 3618-24	110
1941	Effect of Trap States on Interfacial Electron Transfer between Molecular Absorbates and Semiconductor Nanoparticles. 2002 , 106, 10191-10198	111
1940	Generation and reactions of organic radical cations in zeolites. <i>Chemical Reviews</i> , 2002 , 102, 3947-4007	68.1 261
1939	Kinetics and mechanisms of photocatalytic degradation of (CH ₃) _n NH _{4-n} ⁺ (0 ≤ n ≤ 4). 2002 , 36, 2019-25	240

1938	Discrimination of the active crystalline phases in anatase-rutile mixed titanium(IV) oxide photocatalysts through action spectrum analyses. 2002 , 4, 5910-5914	120
1937	Applications of TiO ₂ Photocatalysis. 2002 ,	
1936	Tuning the photocatalytic activity of titanium dioxide by encapsulation inside zeolites exemplified by the cases of thianthrene photooxygenation and horseradish peroxidase photodeactivation. 2002 , 26, 1448-1455	39
1935	Oxidation of 6- and 8-methylquinolines upon UV-illumination in the presence of a powder of TiO ₂ photocatalyst. 2002 , 1, 133-5	2
1934	Photocatalytic oxidation of heptane in the gas-phase over TiO ₂ . 2002 , 46, 93-9	57
1933	Degradation of azo dye Procion Red MX-5B by photocatalytic oxidation. 2002 , 46, 905-12	257
1932	Photocatalytic degradation of volatile organic compounds at the gas-solid interface of a TiO ₂ photocatalyst. 2002 , 48, 437-44	107
1931	Coalescence enhanced synthesis of nanoparticles to control size, morphology and crystalline phase at high concentrations. 2002 , 33, 1-16	55
1930	Photocatalytic degradation of nitrotoluene in aqueous TiO ₂ suspension. 2002 , 36, 59-64	46
1929	Semiconductor nanoparticles. 2002 , 129-182	1
1928	Preparation of helical transition-metal oxide tubes using organogelators as structure-directing agents. 2002 , 124, 6550-1	361
1927	Photocatalytic degradation of cyanide using titanium dioxide modified with copper oxide. 2002 , 6, 471-485	129
1926	Photocatalytic degradation of aqueous 4-chlorophenol by silica-immobilized polyoxometalates. 2002 , 36, 1325-9	101
1925	Photocatalysis with organized systems for the oxofunctionalization of hydrocarbons by O ₂ . <i>Chemical Reviews</i> , 2002 , 102, 3811-36	68.1 415
1924	TiO ₂ -Photosensitized Decomposition of Dye Pollutant Sulforhodamine B Under Visible Light Irradiation. 2002 , 5,	
1923	Reusable adsorbents for dilute solution separation. 6. Batch and continuous reactors for the adsorption and degradation of 1,2-dichlorobenzene from dilute wastewater streams using titania as a photocatalyst. 2002 , 28, 87-102	51
1922	Kinetic study for photocatalytic degradation of volatile organic compounds in air using thin film TiO ₂ photocatalyst. 2002 , 35, 305-315	288
1921	Removal of organic contaminants in paper pulp treatment effluents under Fenton and photo-Fenton conditions. 2002 , 36, 63-74	214

1920	Photodegradation of dye pollutants on TiO ₂ nanoparticles dispersed in silicate under UVVIS irradiation. 2002 , 37, 331-338	97
1919	Gas-phase photo-oxidation of organic compounds over nanosized TiO ₂ photocatalysts by various preparations. 2002 , 39, 135-147	101
1918	Reversible Photoinsertion of Ferrocene into a Hydrophobic Semiconductor Surface: A Chemionic Switch. 2002 , 114, 3805-3808	2
1917	Reversible photoinsertion of ferrocene into a hydrophobic semiconductor surface: a chemionic switch. 2002 , 41, 3653-6, 3519	8
1916	Photocatalytic degradation for environmental applications  review. 2002 , 77, 102-116	941
1915	A comparative and mechanistic study on regioselective photooxidative demethylation of N-heterocyclics using TiO ₂ and molecular oxygen. 2002 , 77, 568-575	8
1914	Decomposition of formic acid in a photocatalytic reactor with a parallel array of four light sources. 2002 , 77, 805-810	19
1913	Photochemical heterogeneous catalytic reaction at recirculated reactor system. 2002 , 19, 233-238	2
1912	Photocatalytic degradation of short-chain organic diacids. 2002 , 76, 221-233	89
1911	Photocatalytic decomposition of seawater-soluble crude-oil fractions using high surface area colloid nanoparticles of TiO ₂ . 2002 , 147, 205-212	65
1910	Decolourising textile wastewater with modified titania: the effects of inorganic anions on the photocatalysis. 2002 , 147, 77-81	121
1909	Photocatalytic degradation mechanism for heterocyclic derivatives of triazolidine and triazole. 2002 , 149, 155-168	50
1908	Photocatalytic oxidation of selected aryl alcohols in acetonitrile. 2002 , 148, 205-210	90
1907	Degradation of propanol diluted in water under visible light irradiation using metal ion-implanted titanium dioxide photocatalysts. 2002 , 148, 257-261	405
1906	Preparation and characterizations of Fe- or Ni-substituted titania nanosheets as photocatalysts. 2002 , 148, 273-276	65
1905	Quantum yields of hydroxyl radicals in illuminated TiO ₂ nanocrystallite layers. 2002 , 148, 387-391	76
1904	Spectral dependence of quantum yields in gas/solid heterogeneous photosystems: Influence of anatase/rutile content on the photostimulated adsorption of dioxygen and dihydrogen on titania. 2002 , 148, 97-102	36
1903	Photonic efficiency and quantum yield of formaldehyde formation from methanol in the presence of various TiO ₂ photocatalysts. 2002 , 148, 169-176	152

1902	Photocatalytic oxidation of selected fluorenols on TiO ₂ semiconductor. 2002 , 152, 229-232	6
1901	Photocatalytic synthesis of thio-organic compounds: case study of propan-1-thiol. 2002 , 152, 147-153	14
1900	Visible light induced photodegradation of organic pollutants on dye adsorbed TiO ₂ surface. 2002 , 153, 199-204	139
1899	Active oxygen species (1O ₂ , O ₂ ^{*-}) generation in the system of TiO ₂ colloid sensitized by hypocrellin B. 2002 , 67, 64-70	51
1898	Investigation of photoelectrochemical oxidation of Fe ²⁺ ions on porous nanocrystalline TiO ₂ electrodes using electrochemical quartz crystal microbalance. 2002 , 422, 205-210	15
1897	Sunlight/ZnO-mediated photocatalytic degradation of reactive red 22 using thin film flat bed flow photoreactor. 2002 , 73, 281-285	32
1896	Dark and photoreactions of acetates on TiO ₂ (0) single crystal surface. 2002 , 515, 413-420	34
1895	Studies of TiO ₂ thin films prepared by chemical vapour deposition for photocatalytic and photoelectrocatalytic degradation of 4-chlorophenol. 2002 , 538-539, 165-172	80
1894	Theoretical study of the interaction of molecular oxygen with a reduced TiO ₂ surface. 2002 , 354, 483-490	71
1893	Effects of F- Doping on the Photocatalytic Activity and Microstructures of Nanocrystalline TiO ₂ Powders. 2002 , 14, 3808-3816	1906
1892	Photocatalytic oxidation of bacteria, bacterial and fungal spores, and model biofilm components to carbon dioxide on titanium dioxide-coated surfaces. 2002 , 36, 3412-9	205
1891	Photo-catalytic preparation of silver-coated TiO ₂ particles for antibacterial applications. 2002 , 18, 133-139	95
1890	FTIR study of adsorption and photodegradation of L-Alanine on TiO ₂ powder. 2002 , 28, 359-371	19
1889	Photocatalytic oxidation of n-octanol in aerated supercritical CO ₂ on hydrophobic TiO ₂ . 2002 , 28, 711-718	6
1888	Modeling the photocatalytic degradation of formic acid in a reactor with immobilized catalyst. 2002 , 57, 4895-4907	95
1887	The origin of the decline in the photocatalytic activity of TiO ₂ in the decomposition of NO: TPD spectra of the adsorbed NO species. 2003 , 29, 125-135	6
1886	An EPR study of thermally and photochemically generated oxygen radicals on hydrated and dehydrated titania surfaces. 2003 , 29, 449-465	91
1885	Adsorption factor and photocatalytic degradation of dye-constituent aromatics on the surface of TiO ₂ in the presence of phosphate anions. 2003 , 29, 733-748	38

1884	Atomic level characterization by synchrotron radiation for the design of high performance catalysts. 2003 , 29, 773-782	2
1883	Photocatalytic activity, antibacterial effect, and photoinduced hydrophilicity of TiO ₂ films coated on a stainless steel substrate. 2003 , 37, 2296-301	332
1882	A comparative study of nanometer sized Fe(III)-doped TiO ₂ photocatalysts: synthesis, characterization and activity. 2003 , 13, 2322-2329	327
1881	A simple red-ox titrimetric method for the evaluation of photo-catalytic activity of titania based catalysts. 2003 , 26, 667-671	3
1880	Characterization of nanocrystalline anatase TiO ₂ thin films. 2003 , 375, 917-23	13
1879	Silver-modified titanium dioxide thin films for efficient photodegradation of methyl orange. 2003 , 42, 187-201	393
1878	Photocatalytic activity of semiconductor-modified cement Influence of semiconductor type and cement ageing. 2003 , 43, 205-216	124
1877	Photocatalytic degradation of various dyes by combustion synthesized nano anatase TiO ₂ . 2003 , 45, 23-38	317
1876	Anatase-phase titanium oxide by low temperature oxidation of metallic Ti thin film. 2003 , 48, 659-663	47
1875	The design and development of highly reactive titanium oxide photocatalysts operating under visible light irradiation. 2003 , 216, 505-516	1428
1874	Effects of acidic and basic hydrolysis catalysts on the photocatalytic activity and microstructures of bimodal mesoporous titania. 2003 , 217, 69-69	468
1873	Photocatalytic redox-combined synthesis of l-pipecolic acid from l-lysine by suspended titania particles: effect of noble metal loading on the selectivity and optical purity of the product. 2003 , 217, 152-152	36
1872	Fluorine-doping in titanium dioxide by ion implantation technique. 2003 , 206, 254-258	116
1871	Application of ion beams for preparation of TiO ₂ thin film photocatalysts operatable under visible light irradiation: Ion-assisted deposition and metal ion-implantation. 2003 , 206, 889-892	24
1870	Synthesis of nanosized rutile TiO ₂ powder at low temperature. 2003 , 77, 314-317	62
1869	Bandgap studies on anatase titanium dioxide nanoparticles. 2003 , 78, 239-245	641
1868	Preparation and characterization of a magnetically separated photocatalyst and its catalytic properties. 2003 , 80, 348-355	143
1867	Synthesis of ultrafine TiO ₂ by citrate gel method. 2003 , 38, 1623-1628	51

1866	The photocatalytic oxidation of low concentration MTBE on titanium dioxide from groundwater in a falling film reactor. 2003 , 22, 14-23	11
1865	Photocatalytic water treatment with different TiO ₂ nanoparticles and hydrophilic/hydrophobic layer silicate adsorbents. 2003 , 230, 89-97	48
1864	One-electron oxidation of aromatic sulfides adsorbed on the surface of TiO ₂ particles studied by time-resolved diffuse reflectance spectroscopy. 2003 , 382, 618-625	27
1863	Interaction of anatase and rutile TiO ₂ particles in aqueous photooxidation. 2003 , 88, 49-59	166
1862	Carbon coating of anatase-type TiO ₂ through their precipitation in PVA aqueous solution. 2003 , 41, 2619-2624	138
1861	Photo-catalytic degradation of air borne pollutants apparent quantum efficiencies in a novel photo-CREC-air reactor. 2003 , 58, 943-949	21
1860	Performance of a membrane-catalyst for photocatalytic oxidation of volatile organic compounds. 2003 , 58, 959-962	81
1859	Influence of subsurface, charged impurities on the adsorption of chlorine at TiO ₂ (1 1 0). 2003 , 367, 319-323	23
1858	Sillenites materials as novel photocatalysts for methyl orange decomposition. 2003 , 377, 501-506	43
1857	Preparation and performance of anatase-loaded porous carbons for water purification. 2003 , 159, 273-282	71
1856	Photoactivity and phase stability of ZrO ₂ -doped anatase-type TiO ₂ directly formed as nanometer-sized particles by hydrolysis under hydrothermal conditions. 2003 , 170, 39-47	160
1855	Titanium dioxide photocatalysis of adamantane. 2003 , 59, 6409-6414	37
1854	The surface science of titanium dioxide. 2003 , 48, 53-229	6317
1853	Photocatalytic degradation of phosphamidon on semiconductor oxides. 2003 , 102, 217-29	96
1852	Kinetics of photocatalytic degradation of diuron in aqueous colloidal solutions of Q-TiO ₂ particles. 2003 , 156, 273-282	66
1851	Photocatalytic oxidation of oxalic acid enhanced by silver deposition on a TiO ₂ surface. 2003 , 154, 195-201	136
1850	EPR study of photoinduced reduction of nitroso compounds in titanium dioxide suspensions. 2003 , 155, 179-198	65
1849	Photophysics and photocatalytic properties of Ag ⁺ -activated sandwich Q-CdS/TiO ₂ . 2003 , 156, 207-218	26

1848	Photocatalysis of sprayed nitrogen-containing Fe ₂ O ₃ /ZnO and WO ₃ /ZnO composite powders in gas-phase acetaldehyde decomposition. 2003 , 160, 203-212	137
1847	Controlled mass transport as a means for obtaining selective photocatalysis. 2003 , 160, 77-85	49
1846	Photocatalytic decolorization and mineralization of malachite green in an aqueous suspension of titanium(IV) oxide nano-particles under aerated conditions: correlation between some physical properties and their photocatalytic activity. 2003 , 160, 99-104	50
1845	Study on the gas-phase photolytic and photocatalytic oxidation of trichloroethylene. 2003 , 161, 51-56	24
1844	Photocatalytic degradation of organic compounds diluted in water using visible light-responsive metal ion-implanted TiO ₂ catalysts: Fe ion-implanted TiO ₂ . 2003 , 84, 191-196	353
1843	Analysis of the structure of titanium tetrachloride derived precipitates. 2003 , 343, 22-27	15
1842	Abiogenesis and photostimulated heterogeneous reactions in the interstellar medium and on primitive earth: Relevance to the genesis of life. 2003 , 3, 203-224	16
1841	Photocatalytic activities of the nano-sized TiO ₂ -supported Y-zeolites. 2003 , 4, 5-18	184
1840	Solid-state NMR studies of the adsorption and photooxidation of ethanol on mixed TiO ₂ -SnO ₂ photocatalysts. 2003 , 24, 236-53	32
1839	Photocatalytic property of bismuth titanate Bi ₁₂ TiO ₂₀ crystals. 2003 , 243, 185-190	142
1838	Solar photocatalytic degradation of azo dye: comparison of photocatalytic efficiency of ZnO and TiO ₂ . 2003 , 77, 65-82	1205
1837	Photodegradation of methyl tertiary butyl ether (MTBE) vapor with immobilized titanium dioxide. 2003 , 80, 73-84	13
1836	Involvement of adsorption effects in the TiO ₂ -sensitized photooxidation rate of benzylic derivatives in CH ₃ CN. 2003 , 16, 127-132	15
1835	Synthesizing and Comparing the Photocatalytic Properties of High Surface Area Rutile and Anatase Titania Nanoparticles. 2003 , 86, 1677-1682	124
1834	The preparation and characterization of nanoparticle TiO ₂ /Ti films and their photocatalytic activity. 2003 , 64, 615-623	191
1833	Solvothermal syntheses of semiconductor photocatalysts of ultra-high activities. 2003 , 84, 181-189	69
1832	Gas/Solid adsorption of selected volatile organic compounds on titanium dioxide Degussa P25. 2003 , 58, 2255-2267	42
1831	Photocatalysis, A Laboratory Experiment for an Integrated Physical Chemistry-Instrumental Analysis Course. 2003 , 80, 911	8

1830	In-Situ FTIR Study of Adsorption and Photoreactions of CH ₂ Cl ₂ on Powdered TiO ₂ . 2003 , 107, 3837-3843	32
1829	Explaining the Enhanced Photocatalytic Activity of Degussa P25 Mixed-Phase TiO ₂ Using EPR. 2003 , 107, 4545-4549	1660
1828	Identification of a Surface Alkylperoxy Radical in the Photocatalytic Oxidation of Acetone/O ₂ over TiO ₂ . 2003 , 107, 1779-1782	52
1827	Nanometer-Level Sol-Gel Transcription of Cholesterol Assemblies into Monodisperse Inner Helical Hollows of the Silica. 2003 , 15, 2141-2145	92
1826	Effects of Water Addition on the Methanol Oxidation on Pt/TiO ₂ Photocatalyst Studied by Time-Resolved Infrared Absorption Spectroscopy. 2003 , 107, 9820-9823	71
1825	Kinetic Studies for Photocatalytic Degradation of Eosin B on a Thin Film of Titanium Dioxide. 2003 , 42, 6020-6033	71
1824	Steady-State Fluorescence of Dye-Sensitized TiO ₂ Xerogels and Aerogels as a Probe for Local Chromophore Aggregation. 2003 , 107, 3300-3304	8
1823	Photocatalytic Properties of Porous Metal Oxide Networks Formed by Nanoparticle Infiltration in a Polymer Gel Template. 2003 , 107, 952-957	88
1822	Formation of Hydrogen Peroxide in Photocatalytic Reactions. 2003 , 107, 11072-11081	68
1821	Photoinduced chemical reactions on natural single crystals and synthesized crystallites of mercury(II) sulfide in aqueous solution containing naturally occurring amino acids. 2003 , 42, 1518-24	23
1820	Role of Platinum Deposited on TiO ₂ in Phenol Photocatalytic Oxidation. 2003 , 19, 3151-3156	271
1819	Photocatalytic decomposition of methylene blue using nanocrystalline anatase titania prepared by ultrasonic technique. 2003 , 4, 393-400	103
1818	Radiolysis of aqueous phenol solutions with nanoparticles. 1. Phenol degradation and TOC removal in solutions containing TiO ₂ induced by UV, gamma-ray and electron beams. 2003 , 50, 1007-13	69
1817	Photocatalytic degradation of humic acid in saline waters. Part 1. Artificial seawater: influence of TiO ₂ , temperature, pH, and air-flow. 2003 , 51, 925-33	54
1816	Effects of Fe ₂ O ₃ , organic matter and carbonate on photocatalytic degradation of lindane in the sediment from the Liao River, China. 2003 , 52, 1749-55	20
1815	The influence of silver additives on titania photoactivity in the photooxidation of phenol. 2003 , 37, 1489-96	67
1814	Surface modification of TiO ₂ by a ruthenium(II) polypyridyl complex via silyl-linkage for the sensitized photocatalytic degradation of carbon tetrachloride by visible irradiation. 2003 , 37, 1939-47	40
1813	Optical and Photochemical Properties of Sodium Dodecylbenzenesulfonate (DBS)-Capped TiO ₂ Nanoparticles Dispersed in Nonaqueous Solvents. 2003 , 19, 505-508	106

1812	Effect of Particle Size on the Reactivity of Quantum Size ZnO Nanoparticles and Charge-Transfer Dynamics with Adsorbed Catechols. 2003 , 19, 3006-3012	114
1811	Quantitative Evaluation of the Photoinduced Hydrophilic Conversion Properties of TiO ₂ Thin Film Surfaces by the Reciprocal of Contact Angle. 2003 , 107, 1028-1035	421
1810	Insights into Photoexcited Electron Scavenging Processes on TiO ₂ Obtained from Studies of the Reaction of O ₂ with OH Groups Adsorbed at Electronic Defects on TiO ₂ (110). 2003 , 107, 534-545	376
1809	Kinetic Studies of Photocatalytic Degradation in a TiO ₂ Slurry System: Distinguishing Working Regimes and Determining Rate Dependences. 2003 , 42, 2273-2281	93
1808	Effect of Irradiation Sources and Oxygen Concentration on the Photocatalytic Oxidation of 2-Propanol and Acetone Studied by in Situ FTIR. 2003 , 107, 4537-4544	74
1807	Photodynamics of NaTaO ₃ Catalysts for Efficient Water Splitting. 2003 , 107, 14383-14387	139
1806	Performance Enhancement of Photocatalytic Reactor Utilizing Flow Instability. 2003 , 1,	1
1805	Theoretical study of the UV-induced desorption of molecular oxygen from the reduced TiO ₂ (110) surface. 2003 , 118, 5098-5105	44
1804	Dechlorination of o-Dichlorobenzene with Various Hydrogen Donors. 2003 , 32, 370-371	0
1803	Gas-Phase Photocatalytic Oxidation of Styrene in a Simple Tubular TiO ₂ Reactor. 2003 , 6,	1
1802	Homogeneous (Fe(III)) and heterogeneous (TiO ₂) photocatalytic systems for pollutant removal from the aquatic compartment: comparison and complementarity. 2004 , 49, 165-170	5
1801	Photocatalytic Degradation of Organic Compounds on TiO ₂ Powders FT-IR Investigation of Surface Reactivity and Mechanistic Aspects 2004 , 47, 359-376	24
1800	On the zirconium oxide neutral cluster distribution in the gas phase: detection through 118 nm single photon, and 193 and 355 nm multiphoton, ionization. 2004 , 120, 4142-9	39
1799	Dynamics of oxygen species on reduced TiO ₂ (110) rutile. 2004 , 70,	57
1798	A Study on Anodic TiO ₂ Photocatalyst for Water Purification. 2004 , 449-452, 1249-1252	1
1797	Defect Formation in Surface Modified TiO ₂ Nanostructures.. 2004 , 818, 244	
1796	Chemical and Photochemical Reactivities of Nanoarchitectures. 2004 , 177-199	
1795	Effects of Calcination on the Microstructures and Photocatalytic Properties of Nanosized Titanium Dioxide Powders Prepared by Vapor Hydrolysis. 2004 , 82, 566-572	65

1794	Direct Formation of Zirconia-Doped Titania with Stable Anatase-Type Structure by Thermal Hydrolysis. 2004 , 85, 1333-1335	70
1793	Photoluminescence Probing of the Formation of Titanium Dioxide Sols from a Titanium Peroxide Solution. 2004 , 85, 1888-1890	10
1792	Direct Formation of Iron(III)-Doped Titanium Oxide (Anatase) by Thermal Hydrolysis and Its Structural Property. 2004 , 87, 35-41	72
1791	Growth and Phase Transformation of Nanometer-Sized Titanium Oxide Powders Produced by the Precipitation Method. 2004 , 87, 473-479	57
1790	Formation of TiO ₂ (B) Nanocrystallites in Sol-Gel-Derived SiO ₂ -TiO ₂ Film. 2004 , 82, 3248-3250	22
1789	Comparative studies of phenol and salicylic acid photocatalytic degradation: influence of adsorbed oxygen. 2004 , 86, 123-131	73
1788	A study on preparation and photocatalytic characterization of conjugated polymer/ZnS complex. 2004 , 39, 2203-2208	13
1787	TiO ₂ -assisted photocatalytic degradation of azo dyes in aqueous solution: kinetic and mechanistic investigations. 2004 , 49, 1-14	3113
1786	Inhibition effect of SO ₂ on NO _x and VOCs during the photodegradation of synchronous indoor air pollutants at parts per billion (ppb) level by TiO ₂ . 2004 , 49, 187-193	54
1785	Effect of crystallinity of anatase on photoactivity for methyleneblue decomposition in water. 2004 , 49, 227-232	125
1784	TiO ₂ /MgO composite photocatalyst: the role of MgO in photoinduced charge carrier separation. 2004 , 50, 83-88	88
1783	Effect of hydrogen peroxide on the destruction of organic contaminants-synergism and inhibition in a continuous-mode photocatalytic reactor. 2004 , 50, 259-269	123
1782	Photocatalytic degradation of sulphur-containing aromatic compounds in the presence of zeolite-bound 2,4,6-triphenylpyrylium and 2,4,6-triphenylthiapyrylium. 2004 , 51, 195-202	31
1781	Photocatalytic transformations of aminopyrimidines on TiO ₂ in aqueous solution. 2004 , 52, 267-274	18
1780	Enhanced photocatalytic decomposition of 4-nonylphenol by surface-organografted TiO ₂ : a combination of molecular selective adsorption and photocatalysis. 2004 , 52, 275-280	102
1779	Photodegradation of formaldehyde by photocatalyst TiO ₂ : effects on the presences of NO, SO ₂ and VOCs. 2004 , 54, 41-50	170
1778	A new kinetic model for titanium dioxide mediated heterogeneous photocatalytic degradation of trichloroethylene in gas-phase. 2004 , 54, 261-274	63
1777	Uranyl-anchored MCM-41 as a highly efficient photocatalyst for the complete oxidation of methanol under sunlight. 2004 , 54, 145-154	25

- 1776 Preparation and Photocatalytic Behavior of MoS₂ and WS₂ Nanocluster Sensitized TiO₂. **2004**, 20, 5865-5869 486
- 1775 Titanium-dioxide-mediated photocatalysis reaction of three selected pesticide derivatives. **2004**, 30, 663-672 12
- 1774 In situ Electron Microscopy Investigation of Fe(III)-doped TiO₂ Nanoparticles in an Aqueous Environment. **2004**, 6, 119-122 48
- 1773 Photocatalytic destruction of catechol on illuminated titania. **2004**, 82, 213-218 5
- 1772 Metal ion and N co-doped TiO₂ as a visible-light photocatalyst. **2004**, 19, 2100-2108 69
- 1771 Nanostructured materials for environmental remediation of organic contaminants in water. **2004**, 39, 2549-82 86
- 1770 Photocatalysis by titanium dioxide and polyoxometalate/TiO₂ cocatalysts. Intermediates and mechanistic study. **2004**, 38, 329-37 202
- 1769 Photocatalytic Oxidation Reactivity of Holes in the Sulfur- and Carbon-Doped TiO₂ Powders Studied by Time-Resolved Diffuse Reflectance Spectroscopy. **2004**, 108, 19299-19306 244
- 1768 Synthesis of nanocrystalline TiO₂ by tartarate gel method. **2004**, 27, 487-489 19
- 1767 Oxidation processes of aromatic sulfides by hydroxyl radicals in colloidal solution of TiO₂ during pulse radiolysis. **2004**, 384, 312-316 59
- 1766 Photocatalyst of nanometer TiO₂/conjugated polymer complex employed for depigmentation of methyl orange. **2004**, 261, 15-18 29
- 1765 Intrinsic kinetics of photocatalytic oxidation of formic and oxalic acid on immobilised TiO₂ films. **2004**, 262, 105-110 114
- 1764 Asymmetrically modified titanium(IV) oxide particles having both hydrophobic and hydrophilic parts of their surfaces for liquid-liquid dual-phase photocatalytic reactions. **2004**, 265, 69-74 26
- 1763 Preparation of surface modifications of mesoporous titania with monosubstituted Keggin units and their catalytic performance for organochlorine pesticide and dyes under UV irradiation. **2004**, 273, 201-210 71
- 1762 Photocatalytic oxidation of aniline using Ag⁺-loaded TiO₂ suspensions. **2004**, 275, 189-197 44
- 1761 Significant effect of lanthanide doping on the texture and properties of nanocrystalline mesoporous TiO₂. **2004**, 177, 3490-3498 141
- 1760 Synthesis and characterization of nanosized titanium particles by gas-phase combustion. **2004**, 375-377, 609-614 3
- 1759 Visible illustration of the direct, lateral and remote photocatalytic destruction of soot by titania. **2004**, 162, 203-206 45

1758	Photocatalytic degradation of azo dye acid red 14 in water on ZnO as an alternative catalyst to TiO ₂ . 2004 , 162, 317-322	974
1757	TiO ₂ -In ₂ O ₃ photocatalysts: preparation, characterisations and activity for 2-chlorophenol degradation in water. 2004 , 162, 423-430	116
1756	Photocatalytic degradation of a textile azo dye, Sirius Gelb GC on TiO ₂ or Ag-TiO ₂ particles in the absence and presence of UV irradiation: the effects of some inorganic anions on the photocatalysis. 2004 , 163, 29-35	69
1755	Comparison of Ag deposition effects on the photocatalytic activity of nanoparticulate TiO ₂ under visible and UV light irradiation. 2004 , 163, 37-44	385
1754	Photocatalytic activity of TiO ₂ nanoparticle fluid prepared by combined ASNSS. 2004 , 2, 171-173	4
1753	Intrinsic band gap shift in Ti silicalites modified by V ion implantation: Ab initio and density functional theory study. 2004 , 96, 349-354	4
1752	Sono- and Photochemical Routes for the Formation of Highly Dispersed Gold Nanoclusters in Mesoporous Titania Films. 2004 , 14, 1178-1183	77
1751	Sonophotocatalytic reactors for wastewater treatment: A critical review. 2004 , 50, 1051-1079	137
1750	Modifying irregular titania powders in a low power microwave plasma torch. 2004 , 50, 2090-2100	4
1749	Synthesis and Characterization of Ti Complexes Using 4-tert-Butyl-2,6-bis(hydroxymethyl)phenol: X-ray Structures of a Confacial Biocubane with Terminal Nucleophilic Phenylmethoxide Ligands, and a Ti ₄ O ₁₆ Core Protected by Two Hydrophobic Binding Pockets. 2004 , 2004, 2683-2689	9
1748	Diastereoselective Radical Tandem Addition-Cyclization Reactions of Aromatic Tertiary Amines by Semiconductor-Sensitized Photochemical Electron Transfer. 2004 , 2004, 3102-3107	64
1747	Novel thin-film reactor for photocatalytic degradation of pesticides in an aqueous solution. 2004 , 79, 1279-1285	48
1746	Evaluation of the efficiency of the photocatalytic one-electron oxidation reaction of aromatic compounds adsorbed on a TiO ₂ surface. 2004 , 10, 5345-53	30
1745	Enhanced photocatalytic decomposition of nonylphenol polyethoxylate by alkyl-grafted TiO ₂ -MCM-41 organic/inorganic nanostructure. 2004 , 76, 123-130	42
1744	Phenol destruction by photocatalysis on TiO ₂ : an attempt to solve the reaction mechanism. 2004 , 213, 225-230	220
1743	Photocatalytic degradation of pesticide pyridaben in suspension of TiO ₂ : identification of intermediates and degradation pathways. 2004 , 214, 293-300	27
1742	Laser induced photocatalytic generation of hydrogen and oxygen over NiO and TiO ₂ . 2004 , 219, 109-119	42
1741	Doping metal ions only onto the catalyst surface. 2004 , 219, 351-355	58

1740	Hydrogen generation by laser transformation of methanol using n-type WO ₃ semiconductor catalyst. 2004 , 222, 259-264	30
1739	Formation of dimer radical cation of 1,1-dianisylethylene through two-step hole transfer processes during TiO ₂ photocatalytic reactions. 2004 , 45, 3753-3756	9
1738	Preparation of pure rutile and anatase TiO ₂ nanopowders using RF thermal plasma. 2004 , 457, 186-191	87
1737	Photocatalytic water treatment: solar energy applications. 2004 , 77, 445-459	728
1736	Effect of impurities in TiO ₂ thin films on trichloroethylene conversion. 2004 , 83, 39-53	35
1735	Shape-controlled synthesis of nanocrystalline titania at low temperature. 2004 , 130, 789-792	61
1734	Deposition of anatase on the surface of activated carbon. 2004 , 187, 284-292	97
1733	DFT study of Cl/MgO(1 0 0), influence of the stoichiometry. 2004 , 566-568, 693-697	15
1732	Nanocrystallization of anatase in amorphous TiO ₂ . 2004 , 414, 137-143	25
1731	The photocatalytic process as a tool to identify metabolic products formed from dopant substances: the case of buspirone. 2004 , 35, 9-19	37
1730	Viscosity effects on 9,10-dicyanoanthracene-sensitized photooxidation of N,N-dibenzylhydroxylamine and its derivatives in protic polar solvents. 2004 , 163, 135-140	1
1729	Photodegradation of dye pollutants on silica gel supported TiO ₂ particles under visible light irradiation. 2004 , 163, 281-287	149
1728	The effect of calcination on photocatalytic activity of TiO ₂ particles: femtosecond study. 2004 , 163, 395-401	22
1727	Early stages in the TiO ₂ -photocatalyzed degradation of simple phenolic and non-phenolic lignin model compounds. 2004 , 163, 453-462	31
1726	True quantum yields and adsorption constants as tools for a mechanistic study of the TiO ₂ -sensitized photooxidation of benzylic derivatives. 2004 , 163, 481-487	13
1725	Photo-oxidation of 4-nitrophenol in aqueous suspensions, catalysed by titania intercalated zirconium phosphate (ZrP) and titanium phosphate (TiP). 2004 , 163, 561-567	36
1724	UV or visible light induced photodegradation of AO7 on TiO ₂ particles: the influence of inorganic anions. 2004 , 165, 201-207	87
1723	Photooxidation of nickel(II) azamacrocyclic complexes to trivalent nickel complexes on excitation in the charge-transfer-to-solvent band. 2004 , 168, 81-90	8

1722	Different effects of humic substances on photodegradation of p,p'-DDT on soil surfaces in the presence of TiO ₂ under UV and visible light. 2004 , 167, 177-183	39
1721	Photocatalytic degradation of organic wastes by electrochemically assisted TiO ₂ photocatalytic system. 2004 , 70, 43-7	42
1720	Flame synthesis of titania particles from titanium tetraisopropoxide in premixed flames. 2004 , 145, 1-9	32
1719	Study on reduction of inorganic membrane fouling by ultraviolet irradiation. 2004 , 244, 179-182	5
1718	Photocatalytic degradation of trichloroethylene in dry and humid atmospheres: role of gas-phase reactions. 2004 , 217, 109-115	35
1717	Preparation of a highly active nanocrystalline TiO ₂ photocatalyst from titanium oxo cluster precursor. 2004 , 177, 2584-2590	45
1716	Brookite -rutile phase transformation of TiO ₂ studied with monodispersed particles. 2004 , 52, 5143-5150	99
1715	Deactivation and regeneration of ZnO and TiO ₂ nanoparticles in the gas phase photocatalytic oxidation of n-C ₇ H ₁₆ or SO ₂ . 2004 , 275, 49-54	61
1714	Laser induced photo-catalytic oxidation/splitting of water over Fe ₂ O ₃ , WO ₃ , TiO ₂ and NiO catalysts: activity comparison. 2004 , 385, 111-115	91
1713	Photocatalytic transformation of methane into methanol under UV laser irradiation over WO ₃ , TiO ₂ and NiO catalysts. 2004 , 392, 372-377	100
1712	Synthesis of nanosized nitrogen-containing MO _x -nO (M = W, V, Fe) composite powders by spray pyrolysis and their visible-light-driven photocatalysis in gas-phase acetaldehyde decomposition. 2004 , 93-95, 895-901	75
1711	Sol-gel preparation and photocatalysis of titanium dioxide. 2004 , 96, 119-126	374
1710	Effect of chemisorbed surface species on the photocatalytic activity of TiO ₂ nanoparticulate films. 2004 , 236, 223-230	30
1709	Molecular Diffusion and Photooxidation Chemistry on TiO ₂ Surfaces under Perfluoroalkane Layers. 2004 , 108, 2998-3004	5
1708	Thermal Stability of Flame-Synthesized Anatase TiO ₂ Nanoparticles. 2004 , 108, 17398-17402	46
1707	Influences of Adsorption on TiO ₂ Photocatalytic One-Electron Oxidation of Aromatic Sulfides Studied by Time-Resolved Diffuse Reflectance Spectroscopy. 2004 , 108, 5859-5866	41
1706	Influence of Metal Ions on the Charge Recombination Processes during TiO ₂ Photocatalytic One-Electron Oxidation Reactions. 2004 , 108, 11054-11061	29
1705	Environmental remediation by an integrated microwave/UV illumination technique. 8. Fate of carboxylic acids, aldehydes, alkoxycarbonyl and phenolic substrates in a microwave radiation field in the presence of TiO ₂ particles under UV irradiation. 2004 , 38, 2198-208	97

1704	Formation of the dimer radical cation of aromatic sulfide on the TiO ₂ surface during photocatalytic reactions. 2004 , 20, 4327-9	16
1703	Effect of surface modification on back electron transfer dynamics of dibromo fluorescein sensitized TiO ₂ nanoparticles. 2004 , 20, 1430-5	46
1702	Textural and Catalytic Properties of Combinational Micro-Mesoporous Octatitanate Fibers Prepared by Solvothermal Soft Chemical Process. 2004 , 108, 16739-16745	16
1701	TiO ₂ Photocatalytic Degradation of Dichloromethane: An FTIR and Solid-State NMR Study. 2004 , 108, 5640-5646	33
1700	Adsorption and Thermal Decomposition of 2-Chloroethyl Ethyl Sulfide on TiO ₂ Surfaces. 2004 , 108, 16825-16838	38
1699	Adsorption and Surface Reactions of N(C ₂ H ₅) ₃ on Powdered TiO ₂ . 2004 , 108, 18261-18268	5
1698	A review of imperative technologies for wastewater treatment I: oxidation technologies at ambient conditions. 2004 , 8, 501-551	1323
1697	Photochemical deposition of platinum on TiO ₂ by using poly(vinyl alcohol) as an electron donor and a protecting polymer. 2004 , 5, 63-67	9
1696	Photooxidation of iodide ion on some semiconductor and non-semiconductor surfaces. 2004 , 5, 283-290	34
1695	Photocatalytic degradation of Nile red using TiO ₂ - β -cyclodextrin colloids. 2004 , 5, 271-275	18
1694	Phase control and photocatalytic properties of nano-sized titania particles by gas-phase pyrolysis of TiCl ₄ . 2004 , 5, 491-497	40
1693	Hydrogen production by photocatalytic decomposition of methanol gas on Pt/TiO ₂ nano-film. 2004 , 5, 533-536	48
1692	Investigation of nitrogen doped TiO ₂ photocatalytic films prepared by reactive magnetron sputtering. 2004 , 5, 677-680	75
1691	Effect of transition metal doping on photocatalytic activity of WO ₃ for water splitting under laser illumination: role of 3d-orbitals. 2004 , 5, 715-719	131
1690	Carrier Dynamics in TiO ₂ and Pt/TiO ₂ Powders Observed by Femtosecond Time-Resolved Near-Infrared Spectroscopy at a Spectral Region of 0.9-1.5 μ m with the Direct Absorption Method. 2004 , 108, 20233-20239	91
1689	Synthesis and structure of nanocrystalline TiO ₂ with lower band gap showing high photocatalytic activity. 2004 , 20, 2900-7	473
1688	Oxidative Power of Nitrogen-Doped TiO ₂ Photocatalysts under Visible Illumination. 2004 , 108, 17269-17273	520
1687	Mesoporous spherical aggregates of anatase nanocrystals with wormhole-like framework structures: their chemical fabrication, characterization, and photocatalytic performance. 2004 , 20, 11738-47	50

1686	Narrow-band irradiation of a homologous series of chlorophenols on TiO ₂ : charge-transfer complex formation and reactivity. 2004 , 20, 5911-7	77
1685	Comparative Study of Homogeneous and Heterogeneous Photocatalytic Redox Reactions: PW(12)O(40)(3-) vs TiO(2). 2004 , 108, 6402-11	106
1684	Photocatalytic one-electron oxidation of biphenyl derivatives strongly coupled with the TiO ₂ surface. 2004 , 20, 2753-9	52
1683	Identification of Reactive Species in Photoexcited Nanocrystalline TiO ₂ Films by Wide-Wavelength-Range (400-500 nm) Transient Absorption Spectroscopy. 2004 , 108, 3817-3823	405
1682	Effect of Temperature and Pressure in the Photocatalytic Oxidation of n-Octanol on Partially Desilicized Hydrophobic TiO ₂ Suspended in Aerated Supercritical CO ₂ . 2004 , 108, 10213-10218	22
1681	Development of Super-Hydrophilicity on Nitrogen-Doped TiO ₂ Thin Film Surface by Photoelectrochemical Method under Visible Light. 2004 , 16, 3980-3981	106
1680	Highly efficient liquid-phase photooxidation of an azo dye methyl orange over novel nanostructured porous titanate-based fiber of self-supported radially aligned H ₂ Ti ₈ O ₁₇ x 1.5H ₂ O nanorods. 2004 , 38, 2729-36	67
1679	Cathode-Separated TiO ₂ Photocatalysts Applicable to a Photochromic Device Responsive to Backside Illumination. 2004 , 16, 1165-1167	51
1678	Photocatalytic degradation of organic compounds over combustion-synthesized nano-TiO ₂ . 2004 , 38, 1600-4	253
1677	Effect of platinum deposits on TiO ₂ on the anoxic photocatalytic degradation pathways of alkylamines in water: dealkylation and N-alkylation. 2004 , 38, 4026-33	89
1676	Direct Formation of Anatase (TiO ₂)/Silica (SiO ₂) Composite Nanoparticles with High Phase Stability of 1300 °C from Acidic Solution by Hydrolysis under Hydrothermal Condition. 2004 , 16, 3725-3732	101
1675	Photodegradation of haloacetic acids in water. 2004 , 55, 467-76	54
1674	Photocatalytic degradation of formaldehyde containing wastewater from veterinarian laboratories. 2004 , 55, 893-904	55
1673	Synthesis of mesoporous rutile TiO ₂ . 2004 , 58, 2514-2516	12
1672	Quantum Yield of Formaldehyde Formation in the Presence of Colloidal TiO ₂ -Based Photocatalysts: Effect of Intermittent Illumination, Platinization, and Deoxygenation. 2004 , 108, 14082-14092 ¹¹⁸	118
1671	In-Situ X-ray Diffraction Study of the Crystallization Kinetics of Mesoporous Titania Films. 2004 , 108, 12698-12706	93
1670	6 Electron spin resonance (some applications for the biological and environmental sciences). 2004 , 100, 149-193	8
1669	Hydroxyl Radical's Role in the Remediation of a Common Herbicide, 2,4-Dichlorophenoxyacetic Acid (2,4-D). 2004 , 108, 10925-10933	84

1668	Preparation of TiO ₂ Photocatalysts by Multi-gelation and Their Photocatalytic Reactivity for the Degradation of 2-Propanol. 2004 , 33, 268-269	9
1667	Preparation, Characterization, and Reactivities of Highly Functional Titanium Oxide-Based Photocatalysts Able to Operate under UV-Visible Light Irradiation: Approaches in Realizing High Efficiency in the Use of Visible Light. 2004 , 77, 1427-1442	236
1666	Hydrothermal Synthesis of TiO ₂ /SiO ₂ Composite Nanoparticles and Their Photocatalytic Performances. 2004 , 112, 143-148	20
1665	Photodecomposition and Surface Adsorption of Methylene Blue on TiO ₂ Nanofluid Prepared by ASNSS. 2004 , 45, 3334-3337	34
1664	Vapor-phase photocatalytic oxidation of volatile organic compounds over novel uranyl-anchored MCM-41 heterogeneous catalyst. 2005 , 787-794	
1663	Reactive Radicals on Reactive Surfaces: Heterogeneous Processes in Catalysis and Environmental Pollution Control. 2005 , 30, 145-213	32
1662	Decomposition of Gas-Phase Benzene Using Plasma Driven Catalyst Reactor: Complete Oxidation of Adsorbed Benzene Using Oxygen Plasma. 2005 , 8,	2
1661	Identification of Degradation Products by Adopting GC or HPLC/MS Techniques. 2005 , 1, 267-287	16
1660	Characteristics of Water Adsorbed on TiO ₂ Photocatalytic Surfaces as Studied by ¹ H NMR Spectroscopy. 2005 , 78, 1595-1607	36
1659	Photocatalysed reaction of few selected organic systems in presence of titanium dioxide. 2005 , 289, 224-230	28
1658	Characterization of mesoporous nanocrystalline TiO ₂ photocatalysts synthesized via a sol-solvothermal process at a low temperature. 2005 , 178, 321-328	86
1657	Hydrothermal preparation and visible-light photocatalytic activity of Bi ₂ WO ₆ powders. 2005 , 178, 1968-1972	266
1656	Evidence for the hydration effect at the semiconductor phospholipid-bilayer interface by TiO ₂ photocatalysis. 2005 , 78, 253-8	12
1655	Photodegradation of a textile dye catalyzed by sol-gel derived nanocrystalline TiO ₂ via ultrasonic irradiation. 2005 , 170, 225-232	73
1654	Evidence for superoxide-radical anion, singlet oxygen and OH-radical intervention during the degradation of the lignin model compound (3-methoxy-4-hydroxyphenylmethylcarbinol). 2005 , 169, 271-278	89
1653	Photocatalyzed oxidation and mineralization of branched and oxidized C ₄ and C ₅ aliphatic acids in UV-irradiated aqueous titania dispersions. 2005 , 170, 51-60	7
1652	Photoactivity of carbon-coated anatase for decomposition of iminocadine triacetate in water. 2005 , 171, 167-171	20
1651	Role of primary active species and TiO ₂ surface characteristic in UV-illuminated photodegradation of Acid Orange 7. 2005 , 172, 47-54	372

1650	TiO ₂ photocatalyzed oxidation of aniline. 2005 , 172, 207-213	37
1649	Effect of supporting electrolytes in electrochemically-assisted photodegradation of an azo dye. 2005 , 172, 316-321	26
1648	Nanoparticle mediated photodefluorination monitored by ¹⁹ F NMR. 2005 , 173, 156-160	10
1647	Photocatalytic degradation of some organic sulfides as environmental pollutants using titanium dioxide suspension. 2005 , 174, 45-52	84
1646	Enhanced photodegradation of diisopropyl methyl phosphonate by the Adsorb & Shuttle approach. 2005 , 174, 253-260	28
1645	Femtosecond to nanosecond spectroscopy of transition metal-doped TiO ₂ particles. 2005 , 175, 8-14	24
1644	Hydrogen evolution by photocatalysis of methanol vapor over Ti-beta. 2005 , 175, 89-93	10
1643	Electrochemical-assisted photodegradation of dye on TiO ₂ thin films: investigation on the effect of operational parameters. 2005 , 118, 197-203	33
1642	Effect of calcination and reduction treatment on the photocatalytic activity of CO oxidation on Pt/TiO ₂ . 2005 , 225, 59-63	30
1641	Preparation of an active SO ₄ ²⁻ /TiO ₂ photocatalyst for phenol degradation under supercritical conditions. 2005 , 226, 93-100	75
1640	Photocatalysis with ZrO ₂ : oxidation of aniline. 2005 , 233, 1-8	85
1639	Heterogeneous photocatalytic decomposition of Crystal Violet in UV-illuminated sol-gel derived nanocrystalline TiO ₂ suspensions. 2005 , 288, 184-9	67
1638	Ultrasonic preparation of mesoporous titanium dioxide nanocrystalline photocatalysts and evaluation of photocatalytic activity. 2005 , 227, 75-80	124
1637	Photocatalytic degradation of pesticide pyridaben on TiO ₂ particles. 2005 , 229, 95-105	96
1636	Ammonium complex of niobium as a precursor for the hydrothermal preparation of cellulose acetate/Nb ₂ O ₅ photocatalyst. 2005 , 237, 115-119	44
1635	Photodegradation of Congo Red catalyzed by nanosized TiO ₂ . 2005 , 242, 48-56	137
1634	Three-point bending of electrospun TiO ₂ nanofibers. 2005 , 398, 77-81	97
1633	Synthesis and characterization of nanoparticles with magnetic core and photocatalytic shell: Anatase TiO ₂ /NiFe ₂ O ₄ system. 2005 , 119, 144-151	195

1632	Electrochemical study of ferrocene intercalated vanadium pentoxide xerogel/polyvinyl alcohol composite films: Application in the development of amperometric biosensors. 2005 , 7, 781-788	27
1631	Complete mineralization of propylamide in aqueous solution containing TiO ₂ particles and H ₂ O ₂ by the simultaneous irradiation of light and ultrasonic waves. 2005 , 12, 197-203	32
1630	Photocatalytic oxidation of primary and secondary benzylic alcohols to carbonyl compounds catalyzed by H ₃ PW ₁₂ O ₄₀ /SiO ₂ under an O ₂ atmosphere. 2005 , 46, 8483-8486	46
1629	Nanocrystalline anatase TiO ₂ thin films: preparation and crystallite size-dependent properties. 2005 , 472, 114-124	71
1628	Preparation of nitrogen-doped titanium oxide thin film using a PLD method as parameters of target material and nitrogen concentration ratio in nitrogen/oxygen gas mixture. 2005 , 475, 337-341	65
1627	Metal oxide photoelectrodes for hydrogen generation using solar radiation-driven water splitting. 2005 , 78, 581-592	261
1626	Photocatalytic degradation of pesticide contaminants in water. 2005 , 86, 309-348	210
1625	Microstructural characterization of biomedical titanium oxide film fabricated by electrochemical method. 2005 , 198, 247-252	89
1624	Role of the support on the activity of silica-supported TiO ₂ photocatalysts: Structure of the TiO ₂ /SBA-15 photocatalysts. 2005 , 101, 307-314	104
1623	Nucleation and growth of 1B metal clusters on rutile TiO ₂ (1 1 0): Atomic level understanding from first principles studies. 2005 , 105, 78-84	22
1622	Anti-microbial active composite nanoparticles with magnetic core and photocatalytic shell: TiO ₂ -NiFe ₂ O ₄ biomaterial system. 2005 , 1, 691-703	201
1621	Metal compounds and small molecules activation β -case studies. 2005 , 249, 2437-2457	40
1620	Experimental investigation and particle dynamic simulation for synthesizing titania nanoparticles using diffusion flame. 2005 , 108, 203-212	17
1619	Decomposition of gaseous formaldehyde in a photocatalytic reactor with a parallel array of light sources. 2005 , 114, 153-159	42
1618	Effects of reaction medium on the synthesis of TiO ₂ nanocrystals by thermal decomposition of titanium (IV) n-butoxide. 2005 , 31, 391-397	38
1617	Preparation and photoactivity of nanostructured TiO ₂ particles obtained by hydrolysis of TiCl ₄ . 2005 , 265, 23-31	50
1616	Effect of plasma treatment on surface properties of TiO ₂ nanoparticulate films. 2005 , 262, 181-186	21
1615	The impact of ultraviolet light on bacterial adhesion to glass and metal oxide-coated surface. 2005 , 41, 153-61	39

1614	Photocatalytic oxidation of methyl orange in presence of titanium dioxide in aqueous suspension. Part II: kinetics study. 2005 , 185, 439-448	124
1613	Scandium-Doped Anatase (TiO ₂) Nanoparticles Directly Formed by Hydrothermal Crystallization. 2005 , 88, 2604-2607	19
1612	Anatase-Type TiO ₂ and ZrO ₂ -Doped TiO ₂ Directly Formed from Titanium(III) Sulfate Solution by Thermal Hydrolysis: Effect of the Presence of Ammonium Peroxodisulfate on their Formation and Properties. 2005 , 88, 3303-3310	11
1611	Decomposition of gas-phase benzene using plasma-driven catalyst (PDC) reactor packed with Ag/TiO ₂ catalyst. 2005 , 56, 213-220	139
1610	Photocatalytic degradation of 2-chlorophenol by Co-doped TiO ₂ nanoparticles. 2005 , 57, 23-30	269
1609	Iron phthalocyanine supported on silica or encapsulated inside zeolite Y as solid photocatalysts for the degradation of phenols and sulfur heterocycles. 2005 , 57, 37-42	99
1608	Mechanistic approach of the combined (iron(III)TiO ₂) photocatalytic system for the degradation of pollutants in aqueous solution: an attempt of rationalisation. 2005 , 57, 257-265	44
1607	Photocatalytic degradation kinetics of di- and tri-substituted phenolic compounds in aqueous solution by TiO ₂ /UV. 2005 , 58, 211-216	117
1606	UV-induced photocatalytic degradation of azo dyes by organic-capped ZnO nanocrystals immobilized onto substrates. 2005 , 60, 1-11	238
1605	Titanium dioxide mediated heterogeneous photocatalytic degradation of gaseous dimethyl sulfide: Parameter study and reaction pathways. 2005 , 60, 93-106	62
1604	Preparation, structural characterization and photocatalytic activity of mesoporous Ti-silicates. 2005 , 61, 47-57	24
1603	Reduced formation of undesirable by-products from photocatalytic degradation of trichloroethylene. 2005 , 61, 346-351	19
1602	An aqueous sol-gel route to synthesize nanosized lanthana-doped titania having an increased anatase phase stability for photocatalytic application. 2005 , 90, 123-127	80
1601	Preparation and photocatalytic activity of Fe-doped mesoporous titanium dioxide nanocrystalline photocatalysts. 2005 , 93, 159-163	185
1600	Preparation of TiO ₂ photocatalyst by hydrothermal method from aqueous peroxotitanium acid gel. 2005 , 59, 412-415	31
1599	Charge trapping and photoadsorption of O ₂ on dehydroxylated TiO ₂ nanocrystals--an electron paramagnetic resonance study. 2005 , 6, 2104-12	122
1598	Characterization of a TiO ₂ Photocatalyst Film Deposited by CVD and Its Photocatalytic Activity. 2005 , 11, 137-141	59
1597	1:1 and 2:1 charge-transfer complexes between aromatic hydrocarbons and dry titanium dioxide. 2005 , 44, 910-3	49

1596	1:1 and 2:1 Charge-Transfer Complexes between Aromatic Hydrocarbons and Dry Titanium Dioxide. 2005 , 117, 932-935	8
1595	Defect-Related Optical Behavior in Surface Modified TiO ₂ Nanostructures. 2005 , 15, 161-167	196
1594	From ZnO Colloids to Nanocrystalline Colored Zn _x Ti _y O _w N _z Spinel Films. 2005 , 17, 294-297	36
1593	Controlled switchable surface. 2005 , 11, 2622-31	161
1592	Efficient degradation of dye pollutants on nanoporous polyoxotungstate/nanase composite under visible-light irradiation. 2005 , 225, 203-212	180
1591	Significance of pH measurements in photocatalytic splitting of water using 355 nm UV laser. 2005 , 227, 241-246	19
1590	Production of hydrogen-rich syngas using p-type NiO catalyst: a laser-based photocatalytic approach. 2005 , 233, 35-41	47
1589	Photoinduced electron transfer reaction of few selected organic systems in presence of titanium dioxide. 2005 , 234, 151-157	19
1588	Degradation of metsulfuron methyl by heterogeneous photocatalysis on TiO ₂ in aqueous suspensions: Kinetic and analytical studies. 2005 , 237, 50-59	29
1587	Photo-electro-chemical properties of TiO ₂ mediated by the enzyme glucose oxidase. 2005 , 101, 397-405	21
1586	Photocatalytic degradation of phenol on TiO ₂ and TiO ₂ /Pt sensitized with metallophthalocyanines. 2005 , 107-108, 589-594	35
1585	Photocatalytic degradation of methylene blue on nanocrystalline TiO ₂ : Surface mass spectrometry of reaction intermediates. 2005 , 245, 61-67	102
1584	Structural studies of iron-doped TiO ₂ nano-composites by Mössbauer spectroscopy, X-ray diffraction and transmission microscopy. 2005 , 364, 199-205	26
1583	Activity of nanosized titania synthesized from thermal decomposition of titanium (IV) n-butoxide for the photocatalytic degradation of diuron. 2005 , 6, 290-295	23
1582	Synthesis, structure and photocatalytic activity of nano TiO ₂ and nano Ti _{1-x} M _x O ₂ (M = Cu, Fe, Pt, Pd, V, W, Ce, Zr). 2005 , 65, 641-645	25
1581	The anti-microbial activity of titania-nickel ferrite composite nanoparticles. 2005 , 57, 65-69	11
1580	TiO ₂ -based Photocatalysis: Surface Defects, Oxygen and Charge Transfer. 2005 , 35, 197-210	323
1579	High activity TiO ₂ Photocatalysts Prepared by a Modified Sol-gel Method: Characterization and their Photocatalytic Activity for the Degradation of XRG and X-GL. 2005 , 35, 261-268	41

1578	The fate of organic nitrogen in photocatalysis: an overview. 2005 , 35, 665-673	88
1577	Synthesis of Iron(III)-Doped Titania Nanoparticles and its Application for Photodegradation of Sulforhodamine-B Pollutant. 2005 , 7, 489-498	44
1576	Preparation of Unique TiO ₂ Nano-particle Photocatalysts by a Multi-gelation Method for Control of the Physicochemical Parameters and Reactivity. 2005 , 105, 111-117	32
1575	Regularities of decomposition of organic vapors using a photocatalytic air cleaner. 2005 , 54, 1866-1873	2
1574	Preparation of Nanostructured Photocatalytic TiO ₂ Films and Membranes Using Sol-Gel Methods Modified with Surfactant Micelles for Wastewater Treatment and Reuse in Space. 2005 ,	1
1573	Process development and photocatalytic property of nanofluid prepared by combined ASNSS. 2005 , 21, 671-677	8
1572	Synthesis of a Novel Nanostructure of Rutile Titania by Sonochemical Method. 2005 , 23, 235-238	4
1571	Preparation of Nano-Sized TiO ₂ Photocatalysts by a Multi-Gelation Method and Their Application to the Degradation of 2-Propanol Diluted in Water. 2005 , 486-487, 93-96	
1570	Characteristics of Photocatalytic Titania Fabricated by Anodization. 2005 , 475-479, 4153-4156	3
1569	Semiconductor-Mediated Photocatalysed Degradation of Various Pesticide Derivatives and Other Priority Organic Pollutants in Aqueous Suspensions. 2005 , 486-487, 61-64	
1568	Photocatalytic Degradation of Air Borne Pollutants. 2005 , 149-168	0
1567	On the convergence of isolated neutral oxygen vacancy and divacancy properties in metal oxides using supercell models. 2005 , 122, 224705	23
1566	Mechanochemical Synthesis, Structural Characterization and Visible Light Photocatalysis of TiO ₂ /ZnFe ₂ O ₄ Nanocomposites. 2005 , 900, 1	1
1565	The Applications of Photocatalytic Waste Minimisation in Nuclear Fuel Processing. 2005 , 451-481	3
1564	Visible light photocatalysis via nano-composite CdS/TiO ₂ materials. 2005 , 876, 1	1
1563	Metal ions incorporated titania nanotubes for hydrocarbon oxidation. 2005 , 876, 1	
1562	Visible light Cr(VI) reduction and organic chemical oxidation by TiO ₂ photocatalysis. 2005 , 39, 6251-9	191
1561	MICROWAVE HYDROTHERMAL SYNTHESIS OF RUTILE TiO ₂ NANORODS. 2005 , 19, 2763-2768	21

1560	Advances and Perspectives for Photocatalysis. 2005 , 169-183	1
1559	Photocatalytic Reaction Engineering. 2005 ,	108
1558	Novel Photocatalytic Reactors for Water and Air Treatment. 2005 , 17-47	7
1557	An intelligence ink for photocatalytic films. 2005 , 2721-3	67
1556	Annealing Temperature Effects on Synthesis of n-TiO ₂ /dye/p-CuI Solid-State Solar Cells. 2005 , 44, 2560-2567	3
1555	Chemical synthesis of transition metal oxide nanotubes in water using an iced lipid nanotube as a template. 2005 , 4411-3	32
1554	Destruction of o-Chloroaniline in UV/TiO ₂ Reaction with Photosensitizing Additives. 2005 , 44, 8184-8189	26
1553	Photon flux and wavelength effects on the selectivity and product yields of the photocatalytic air oxidation of neat cyclohexane on TiO ₂ (2) particles. 2005 , 109, 1914-8	40
1552	Thermal and photochemistry of tert-butyl iodide on rutile TiO ₂ (110). 2005 , 109, 14990-5000	13
1551	Formation of refractory ring-expanded triazine intermediates during the photocatalyzed mineralization of the endocrine disruptor amitrole and related triazole derivatives at UV-irradiated TiO ₂ /H ₂ O interfaces. 2005 , 39, 2320-6	54
1550	Acetone and water on TiO ₂ (110): H/D exchange. 2005 , 21, 3451-8	19
1549	Monitoring hole trapping in photoexcited TiO ₂ (110) using a surface photoreaction. 2005 , 109, 18230-6	132
1548	Highly Hydrophilic TiO ₂ Surface Induced by Anodic Potentials. 2005 , 17, 944-946	6
1547	Effect of surface photoreactions on the photocoloration of a wide band gap metal oxide: probing whether surface reactions are photocatalytic. 2005 , 109, 5175-85	44
1546	Mechanistic studies of the formation of different states of oxygen on irradiated ZrO ₂ and the photocatalytic nature of photoprocesses from determination of turnover numbers. 2005 , 109, 2785-92	34
1545	Visible light photocatalysis with platinized rutile TiO ₂ for aqueous organic oxidation. 2005 , 21, 11397-403	60
1544	Controlled growth and photocatalytic properties of CdS nanocrystals implanted in layered metal hydroxide matrixes. 2005 , 109, 21602-7	52
1543	Enhancement and limits of the photoelectrochemical response from anodic TiO ₂ nanotubes. 2005 , 87, 243114	272

1542	Molecular dynamics simulation of titanium dioxide nanoparticle sintering. 2005 , 109, 24280-7	122
1541	Photocatalytic activity of titania nanocrystals prepared by surfactant-assisted templating methodEffect of calcination conditions. 2005 , 59, 2965-2968	34
1540	Synthesis of rutile from ATO and stearic acid. 2005 , 59, 2673-2675	2
1539	Macro kinetic studies for photocatalytic degradation of benzoic acid in immobilized systems. 2005 , 60, 1427-36	74
1538	Adsorption and nonadiabatic processes in the photodesorption of molecular oxygen from the reduced TiO ₂ (110) surface. 2005 , 45, 59-76	25
1537	Dogmas and misconceptions in heterogeneous photocatalysis. Some enlightened reflections. 2005 , 109, 18515-21	176
1536	Adsorptive and photocatalytic properties of Ag-loaded BiVO ₄ on the degradation of 4-n-alkylphenols under visible light irradiation. 2005 , 6, 185-189	179
1535	Laser Induced Photocatalytic Splitting of Water Over WO ₃ Catalyst. 2005 , 27, 1151-1165	29
1534	The effect of electrolyte composition on the fabrication of self-organized titanium oxide nanotube arrays by anodic oxidation. 2005 , 20, 230-236	499
1533	Electrochemical mass spectroscopic and surface photovoltage studies of catalytic water photooxidation by undoped and carbon-doped titania. 2005 , 109, 16579-86	149
1532	Recombination pathways in the Degussa P25 formulation of TiO ₂ : surface versus lattice mechanisms. 2005 , 109, 977-80	340
1531	Synthesis of TiO ₂ photocatalysts in supercritical CO ₂ via a non-hydrolytic route. 2005 , 109, 18781-5	24
1530	Direct nanocomposite of crystalline TiO ₂ particles and mesoporous silica as a molecular selective and highly active photocatalyst. 2005 , 2131-3	99
1529	Preparation and Properties of Nanostructure Anatase TiO ₂ Monoliths Using 1-Butyl-3-methylimidazolium Tetrafluoroborate Room-Temperature Ionic Liquids as Template Solvents. 2005 , 5, 1643-1649	105
1528	Titanosilicate molecular sieve for size-screening photocatalytic conversion. 2005 , 127, 8304-6	69
1527	TiO ₂ Photocatalysis: A Historical Overview and Future Prospects. 2005 , 44, 8269-8285	2513
1526	Photooxidation of acetone on TiO ₂ (110): conversion to acetate via methyl radical ejection. 2005 , 109, 12062-70	100
1525	Photocatalytic activity of a hierarchically macro/mesoporous titania. 2005 , 21, 2552-9	414

1524	Visible-Light-Driven NiO-Doped TiO ₂ Photocatalysts. 2. Optical Characterization, Photocatalysis, and Potential Application to Air Purification. 2005 , 17, 2596-2602		442
1523	Photoreaction dynamics of molecular adsorbates on semiconductor and oxide surfaces. <i>Chemical Reviews</i> , 2006 , 106, 4379-401	68.1	50
1522	Photodegradation of Benzoic Acid over Metal-Doped TiO ₂ . 2006 , 45, 3503-3511		161
1521	Effects of Boron Doping on Photocatalytic Activity and Microstructure of Titanium Dioxide Nanoparticles. 2006 , 45, 4110-4116		383
1520	Ultrafast interfacial proton-coupled electron transfer. 2006 , 311, 1436-40		185
1519	Photoinduced hydrophilic conversion properties of titania nanosheets. 2006 , 110, 6198-203		58
1518	Solvated electrons on metal oxide surfaces. <i>Chemical Reviews</i> , 2006 , 106, 4402-27	68.1	116
1517	Kinetic Study on Photocatalytic Degradation of 4BS Azo Dye Over TiO ₂ in Slurry. 2006 , 23, 1000-1008		19
1516	Low temperature kinetics and energetics of the electron and hole traps in irradiated TiO ₂ nanoparticles as revealed by EPR spectroscopy. 2006 , 110, 11628-34		67
1515	Synthesis of a coumarin compound from phenanthrene by a TiO ₂ -photocatalyzed reaction. 2006 , 2804-6		36
1514	Relative brookite and anatase content in sol-gel-synthesized titanium dioxide nanoparticles. 2006 , 110, 15134-9		71
1513	Preparation of Metal Oxide Nanotubes Using Gelators as Structure-Directing Agents. 2006 , 235, 52-56		18
1512	Urea coordinated titanium trichloride Ti(III)[OC(NH) ₂] ₆ Cl ₃ : a single molecular precursor yielding highly visible light responsive TiO ₂ nanocrystallites. 2006 , 110, 14611-8		24
1511	Aerosol flame synthesis of catalysts. 2006 , 17, 457-480		217
1510	Photocatalysis by Composite Particles Containing Inert Domains. 2006 , 46, 33-43		12
1509	Core-shell microspherical Ti(1-x)Zr(x)O ₂ solid solution photocatalysts directly from ultrasonic spray pyrolysis. 2006 , 110, 19323-8		72
1508	Photocatalytic decomposition of an alkylammonium cation in a Langmuir-Blodgett film of a titania nanosheet. 2006 , 22, 3870-7		54
1507	Is the band gap of pristine TiO(2) narrowed by anion- and cation-doping of titanium dioxide in second-generation photocatalysts?. 2006 , 110, 24287-93		875

1506	Facile preparation of Na-free anatase TiO ₂ film with highly photocatalytic activity on soda-lime glass. 2006 , 7, 1000-1004	24
1505	Prediction of tetraoxygen formation on rutile TiO ₂ (110). 2006 , 128, 14000-1	44
1504	Photocatalytic degradation of gaseous organic species on photonic band-gap titania. 2006 , 40, 7029-33	87
1503	Architectural control syntheses of CdS and CdSe nanoflowers, branched nanowires, and nanotrees via a solvothermal approach in a mixed solution and their photocatalytic property. 2006 , 110, 11704-10	220
1502	Control of a surface photochemical process by fractal electron transport across the surface: O(2) photodesorption from TiO(2)(110). 2006 , 110, 7431-5	56
1501	Photocatalysis and Luminescence of Nanometer-sized CdS. 2006 ,	
1500	Effects of electron transfer between TiO ₂ films and conducting substrates on the photocatalytic oxidation of organic pollutants. 2006 , 110, 13470-6	76
1499	Photocatalytic Degradation of Aqueous Nitrobenzene by Nanocrystalline TiO ₂ . 2006 , 45, 922-927	144
1498	Photocatalytic reduction of an azide-terminated self-assembled monolayer using CdS quantum dots. 2006 , 22, 5018-24	27
1497	Fine route for an efficient removal of 2,4-dichlorophenoxyacetic acid (2,4-D) by zeolite-supported TiO ₂ . 2006 , 63, 1014-21	125
1496	Photodegradation of toluene over TiO(2-x)N(x) under visible light irradiation. 2006 , 8, 1116-21	108
1495	The photocatalytic activity of 2.5wt% Cu-doped TiO ₂ nano powders synthesized by mechanical alloying. 2006 , 415, 51-55	67
1494	Synergistic effects of sulfation and co-doping on the visible light photocatalysis of TiO ₂ . 2006 , 424, 322-326	75
1493	Investigation on photocatalytic degradation of ethyl violet dyestuff using visible light in the presence of ordinary rutile TiO ₂ catalyst doped with upconversion luminescence agent. 2006 , 40, 2143-50	49
1492	Thermally modified titania photocatalysts for phenol removal from water. 2006 , 2006, 1-7	2
1491	Visible Light Photocatalysis via CdS/TiO ₂ Nanocomposite Materials. 2006 , 2006, 1-7	16
1490	Photocatalytic Oxidation of a Volatile Organic Component of Acetaldehyde Using Titanium Oxide Nanotubes. 2006 , 2006, 1-8	19
1489	The Adsorption, Thermal Desorption and Photochemistry of Methyl Iodide on an Ag-Covered TiO ₂ (110) Surface. 2006 , 53, 803-813	2

1488	Adsorption and Reactions of CHCl ₃ on Powdered TiO ₂ . 2006 , 53, 567-574	3
1487	One-Pot Synthesis and Photocatalysis of Encapsulated TiO ₂ in Mesoporous SiO ₂ . 2006 , 53, 1355-1361	8
1486	S�ntese e caracteriza� de nanopart�culas de TiO ₂ . 2006 , 52, 255-259	24
1485	Synthesis of Nano-particles of TiO ₂ by Simple Aqueous Route. 2006 , 55, 263-266	53
1484	TiO ₂ -sensitised photo-oxidation mechanism of indane and some of its hetero-analogues in deaerated CH ₃ CN. 2006 , 19, 359-364	8
1483	Photo-oxidative dealkylation of alkylbenzyl methyl ethers induced by titanium dioxide in acetonitrile. 2006 , 19, 18-24	10
1482	Photoactive and Adsorptive Niobium-Doped Anatase (TiO ₂) Nanoparticles: Influence of Hydrothermal Conditions on their Morphology, Structure, and Properties. 2006 , 89, 110-117	41
1481	Preferential photodegradation �why and how?. 2006 , 9, 774-787	69
1480	Trapping dynamics of electrons and holes in a nanocrystalline TiO ₂ film revealed by femtosecond visible/near-infrared transient absorption spectroscopy. 2006 , 9, 268-274	64
1479	Sol-gel derived silver doped nanocrystalline titania catalysed photodegradation of methylene blue from aqueous solution. 2006 , 69, 22-30	74
1478	Photoanodic reactions occurring at nanostructured titanium dioxide films. 2006 , 51, 2230-2236	25
1477	Probing reaction mechanisms in mixed phase TiO ₂ by EPR. 2006 , 150, 155-163	216
1476	Shift of initial mechanism in TiO ₂ -assisted photocatalytic process. 2006 , 301, 152-157	46
1475	Enhancement of the photocatalytic activity of TiO ₂ nanoparticles by surface-capping DBS groups. 2006 , 252, 2817-2825	51
1474	Surface state of TiO ₂ treated with low ion energy plasma. 2006 , 252, 3871-3877	52
1473	The promoting effect of MgO layer in sensitized photodegradation of colorants on TiO ₂ /MgO composite oxide. 2006 , 276, 197-202	60
1472	Photocatalytical visbreaking of wastewater produced from polymer flooding in oilfields. 2006 , 287, 170-174	32
1471	Antifouling properties of TiO ₂ : Photocatalytic decomposition and adhesion of fatty and rosin acids, sterols and lipophilic wood extractives. 2006 , 291, 162-176	31

1470	Photoexcited hole dynamics in TiO ₂ nanocrystalline films characterized using a lens-free heterodyne detection transient grating technique. 2006 , 419, 464-468	50
1469	Photoinduced electron transfer from anatase to rutile in partially reduced TiO ₂ (P-25) nanoparticles: An ESR study. 2006 , 428, 338-342	85
1468	Fe ₂ O ₃ -photocatalysis with sunlight and UV light: Oxidation of aniline. 2006 , 8, 95-101	82
1467	Development and study of anodic Ti/TiO ₂ electrodes and their potential use as impedimetric immunosensors. 2006 , 51, 3537-3542	53
1466	The stability of polymeric membranes in a TiO ₂ photocatalysis process. 2006 , 275, 202-211	169
1465	Titania aerogel prepared by low temperature supercritical drying. 2006 , 91, 1-6	43
1464	Preparation, characterization and photocatalytic activity of in situ N,S-codoped TiO ₂ powders. 2006 , 246, 176-184	201
1463	Sonochemical synthesis and visible light photocatalytic behavior of CdSe and CdSe/TiO ₂ nanoparticles. 2006 , 247, 268-274	135
1462	Enhanced photocatalytic activity of TiO ₂ powder (P25) by hydrothermal treatment. 2006 , 253, 112-118	227
1461	Improved quantum yield for photocatalytic hydrogen generation under visible light irradiation over eosin sensitized TiO ₂ investigation of different noble metal loading. 2006 , 259, 275-280	106
1460	Sonochemical synthesis of nanocrystallite Bi ₂ O ₃ as a visible-light-driven photocatalyst. 2006 , 308, 105-110	318
1459	Deactivation of TiO ₂ photocatalytic films loaded on aluminium: XPS and AFM analyses. 2006 , 252, 7532-7538	46
1458	Transition metal-doped titanium(IV) dioxide: Characterisation and influence on photodegradation of poly(vinyl chloride). 2006 , 91, 165-194	79
1457	Synthesis and characterization of a POM-based nanocomposite as a novel magnetic photocatalyst. 2006 , 67, 2409-2418	21
1456	Comparison of photocatalytic degradation kinetic characteristics of different organic compounds at anatase TiO ₂ nanoporous film electrodes. 2006 , 177, 253-260	38
1455	Transient IR absorption study of charge carriers photogenerated in sulfur-doped TiO ₂ . 2006 , 177, 269-275	72
1454	Probing of photocatalytic surface sites on SO ₄ ²⁻ /TiO ₂ solid acids by in situ FT-IR spectroscopy and pyridine adsorption. 2006 , 179, 339-347	162
1453	Photocatalytic degradation of formic and benzoic acids and hydrogen peroxide evolution in TiO ₂ and ZnO water suspensions. 2006 , 180, 15-22	100

1452	Investigation on degradation of dyestuff wastewater using visible light in the presence of a novel nano TiO ₂ catalyst doped with upconversion luminescence agent. 2006 , 180, 189-195	41
1451	Photovoltaic properties of ordered mesoporous silica thin film electrodes encapsulating titanium dioxide particles. 2006 , 181, 166-173	8
1450	Preparation of photoactive chitosan/niobium (V) oxide composites for dye degradation. 2006 , 182, 202-206	72
1449	Synthesis, characterization, and photocatalytic properties of InVO ₄ nanoparticles. 2006 , 179, 804-811	77
1448	Photocatalytic degradation of aniline at the interface of TiO ₂ suspensions containing carbonate ions. 2006 , 300, 244-52	79
1447	Study on photocatalytic degradation of several volatile organic compounds. 2006 , 128, 158-63	100
1446	Aqueous Cr(VI) photo-reduction catalyzed by TiO ₂ and sulfated TiO ₂ . 2006 , 134, 94-103	98
1445	Biological treatment of wastewaters from a dye manufacturing company using a trickling filter. 2006 , 136, 95-102	205
1444	Enhanced photo-catalytic activity of TiO ₂ films with doped La prepared by micro-plasma oxidation method. 2006 , 137, 192-7	48
1443	Photooxidative N-de-ethylation of anionic triarylmethane dye (sulfan blue) in titanium dioxide dispersions under UV irradiation. 2006 , 137, 1600-7	33
1442	Characterization and photocatalytic mechanism of nanosized CdS coupled TiO ₂ nanocrystals under visible light irradiation. 2006 , 244, 25-32	376
1441	Effects of calcination temperature on the microstructures and photocatalytic activity of titanate nanotubes. 2006 , 249, 135-142	322
1440	Electrostatic spray deposition (ESD) of self organizing TiO ₂ -epoxy powder paints: Experimental analysis and numerical modeling. 2006 , 201, 3212-3228	12
1439	Redox-photosensitized reaction of indene using photosensitive surfactant in emulsion: dependence on oil droplet size and surfactant charge. 2006 , 47, 3257-3260	8
1438	Preparation, characterization and photocatalytic activity of in situ Fe-doped TiO ₂ thin films. 2006 , 496, 273-280	134
1437	Characterization and photocatalytic activity of nanostructured indium tin oxide thin-film electrode for azo-dye degradation. 2006 , 515, 1461-1469	28
1436	A general approach to porous crystalline TiO ₂ , SrTiO ₃ , and BaTiO ₃ spheres. 2006 , 110, 13835-40	121
1435	Visible-light photocatalytic regeneration of NADH using P-doped TiO ₂ nanoparticles. 2006 , 43, 44-48	141

1434	Photocatalytic Process for CO ₂ Emission Reduction from Industrial Flue Gas Streams. 2006 , 45, 2558-2568	276
1433	Effect of Cu ²⁺ doping on photocatalytic performance of liquid flame sprayed TiO ₂ coatings. 2006 , 15, 582-586	8
1432	Photocatalytic activity of gallium nitride for producing hydrogen from water under light irradiation. 2006 , 41, 3527-3534	49
1431	Properties and Photoelectrocatalytic Behaviour of Sol-Gel Derived TiO ₂ Thin Films. 2006 , 37, 19-25	17
1430	Photocatalytic degradation of 2,4-dichlorophenoxyacetic acid and 2,4,6-trichlorophenol with ZrO ₂ and Mn/ZrO ₂ sol-gel materials. 2006 , 37, 207-211	21
1429	Thermal evolution of mesoporous titania prepared by CO ₂ supercritical extraction. 2006 , 38, 5-12	12
1428	SolHydrothermal preparation and photocatalysis of titanium dioxide. 2006 , 498, 259-265	73
1427	Application of spray techniques for new photocatalytic gradient coatings on plastics. 2006 , 502, 132-137	38
1426	Antimicrobial function of Nd ³⁺ -doped anatase titania-coated nickel ferrite composite nanoparticles: a biomaterial system. 2006 , 2, 421-32	197
1425	The effect of acetic acid on the photocatalytic degradation of catechol and resorcinol. 2006 , 299, 274-284	25
1424	Low-temperature hydrothermal synthesis of S-doped TiO ₂ with visible light photocatalytic activity. 2006 , 179, 1171-1176	224
1423	Effect of calcination temperature on the photocatalytic activity and adhesion of TiO ₂ films prepared by the P-25 powder-modified solgel method. 2006 , 244, 73-82	110
1422	Characterization, adsorption and photocatalytic activity of vanadium-doped TiO ₂ and sulfated TiO ₂ (rutile) catalysts: Degradation of methylene blue dye. 2006 , 255, 53-61	89
1421	Photocatalytic activity of epoxide solgel derived titania transformed into nanocrystalline aerogel powders by supercritical drying. 2006 , 255, 260-268	34
1420	Electrochemically assisted photocatalytic degradation of Orange II: Influence of initial pH values. 2006 , 259, 238-244	89
1419	Physico-chemical characterization and photocatalytic activity of zinc oxide prepared by various methods. 2006 , 298, 787-93	132
1418	Preparation of Pt/K ₂ La ₂ Ti ₃ O ₁₀ and its photo-catalytic activity for hydrogen evolution from methanol water solution. 2006 , 49, 162-168	13
1417	Photocatalytic degradation kinetics in Rhodamine B dye degradation with poriferous TiO ₂ photocatalyst. 2006 , 5, 60-64	1

1416	Photonic efficiency for methanol photooxidation and hydroxyl radical generation on silica-supported TiO ₂ photocatalysts. 2006 , 62, 201-207	74
1415	Photocatalytic decomposition and reduction reactions of nitric oxide over Degussa P25. 2006 , 62, 208-216	91
1414	A fine route to tune the photocatalytic activity of TiO ₂ . 2006 , 63, 31-40	109
1413	Effects of Sn dopant on the photoinduced charge property and photocatalytic activity of TiO ₂ nanoparticles. 2006 , 62, 282-291	220
1412	Photo-induced transformation of methylguanidine derivatives on titanium dioxide. 2006 , 63, 124-130	9
1411	Photocatalytic oxidation of low molecular weight alkanes: Observations with ZrO ₂ /TiO ₂ supported thin films. 2006 , 64, 153-160	43
1410	Photocatalytic properties of nanosized Bi ₂ WO ₆ catalysts synthesized via a hydrothermal process. 2006 , 66, 100-110	308
1409	Phototransformation of triclosan in the presence of TiO ₂ in aqueous suspension: Mechanistic approach. 2006 , 66, 119-125	66
1408	Photocatalytic decomposition of acetaldehyde and Escherichia coli using NiO/SrBi ₂ O ₄ under visible light irradiation. 2006 , 69, 17-23	50
1407	Size dependency of nanocrystalline TiO ₂ on its optical property and photocatalytic reactivity exemplified by 2-chlorophenol. 2006 , 68, 1-11	662
1406	Formation of Ni ^{II} -layered double hydroxides using homogeneous precipitation method. 2006 , 8, 634-639	40
1405	Effects of microstructure of anodic titania on the formation of bioactive compounds. 2006 , 98, 39-43	50
1404	Hydrothermal synthesis of rutile TiO ₂ nanoparticles using hydroxyl and carboxyl group-containing organics as modifiers. 2006 , 98, 231-235	26
1403	Low-temperature preparation of nanocrystalline TiO ₂ photocatalyst with a very large specific surface area. 2006 , 99, 131-134	63
1402	High-surface area inorganic compounds prepared by nanocasting techniques. 2006 , 41, 2187-2197	103
1401	Photocatalytic performance of pure anatase nanocrystallite TiO ₂ synthesized under low temperature hydrothermal conditions. 2006 , 41, 2276-2285	36
1400	Isopropanol-assisted hydrothermal synthesis of bismuth titanate nanophotocatalysts. 2006 , 60, 284-286	16
1399	Synthesis of brookite TiO ₂ nanoparticles by ambient condition sol process. 2006 , 60, 1179-1183	69

1398	Light-induced transformation of alkylurea derivatives in aqueous TiO ₂ dispersion. 2006 , 12, 727-36	6
1397	One-electron redox processes during polyoxometalate-mediated photocatalytic reactions of TiO ₂ studied by two-color two-laser flash photolysis. 2006 , 12, 3124-31	55
1396	Amplified Photochemistry with Slow Photons. 2006 , 18, 1915-1919	292
1395	Optical and physicochemical properties of silica-supported TiO ₂ photocatalysts. 2006 , 52, 2832-2843	34
1394	Photochemistry of Monolayer CH ₃ I on Ag-Covered TiO ₂ (110) Surface. 2006 , 45, 7845-7853	1
1393	Surface characteristics and electronic structure of photocatalytic reactions on TiO ₂ and doped TiO ₂ nanoparticles. 2006 ,	3
1392	Amplified Photochemistry with Slow Photons. 2006 , 988, 1	1
1391	Light-induced transformations of fungicides on titanium dioxide: pathways and by-products evaluation using the LC-MS technique. 2006 , 86, 265-275	11
1390	Visible light induced paramagnetic sites in nitrogen-doped TiO ₂ prepared by a mechanochemical method. 2006 , 104, 1733-1737	26
1389	Effects of the Structure of TiO ₂ Nanotube Array on Ti Substrate on Its Photocatalytic Activity. 2006 , 153, D123	186
1388	Anti-microbial activity of doped anatase titania coated nickel ferrite composite nanoparticles. 2007 , 23, 97-102	154
1387	Silver Modified Degussa P25 for the Photocatalytic Removal of Nitric Oxide. 2007 , 2007, 1-8	30
1386	Photooxidation of Some Organic Sulfides under UV Light Irradiation Using Titanium Dioxide Photocatalyst. 2007 , 2007, 1-7	6
1385	Structure and applications of titanate and related nanostructures. 2007 , 4, 44	84
1384	Photocatalytic Degradation of Acetaldehyde on Mesoporous TiO ₂ : Effects of Surface Area and Crystallinity on the Photocatalytic Activity. 2007 , 20, 733-738	24
1383	Photocatalytic Properties of TiO ₂ /Si-NPA Nano Composite Systems. 2007 , 24, 256-258	6
1382	Heterogeneous Photocatalysis as an Advanced Oxidation Process for the Abatement of Chlorinated, Monocyclic Aromatic and Sulfurous Volatile Organic Compounds in Air: State of the Art. 2007 , 37, 489-538	168
1381	Enhanced photocatalytic activity of Ag microgrid connected TiO ₂ nanocrystalline films. 2007 , 90, 122114	18

- 1380 Reoxidation of TiO₂(110) via Ti interstitials and line defects. **2007**, 75, 61
- 1379 Influence of Electrolytic Mediums on Microstructure of Anodic Titania Film. **2007**, 124-126, 1773-1776
- 1378 Pore architecture affects photocatalytic activity of periodic mesoporous nanocrystalline anatase thin films. **2007**, 17, 82-89 99
- 1377 Preparation and evaluation of photocatalytic activity of poly(dimethylsiloxane)Titanium dioxide composites. **2007**, 36, 360-364 8
- 1376 Reactivity of ideal and defected rutile TiO₂ (110) surface with oxygen. **2007**, 106, 95-100 10
- 1375 A Green Chemical Synthesis of 2-Alkylbenzimidazoles from 1,2-Phenylenediamine and Propylene Glycol, or Alcohols Mediated by Ag^{III}TiO₂/Clay Composite Photocatalyst. **2007**, 36, 1060-1061 26
- 1374 Characteristics of Amorphous TiO₂ Particles Prepared in Various Reaction Systems. **2007**, 36, 876-877 2
- 1373 Solar Photocatalysis for Hydrogen Production and CO₂ Conversion. **2007**, 351-385 3
- 1372 Ultrafast structural dynamics of photoactive metal complexes in solar hydrogen generation. **2007**,
- 1371 Synthesis of titania and titanate nanomaterials and their application in environmental analytical chemistry. **2007**, 72, 1687-92 55
- 1370 Dynamics of efficient electron-hole separation in TiO₂ nanoparticles revealed by femtosecond transient absorption spectroscopy under the weak-excitation condition. **2007**, 9, 1453-60 234
- 1369 Influence of TiCl₄ treatment on surface defect photoluminescence in pure and mixed-phase nanocrystalline TiO₂. **2007**, 23, 8686-90 115
- 1368 Molecular Dynamics Study of Water Adsorption on TiO₂ Nanoparticles. **2007**, 111, 6920-6926 78
- 1367 Enhanced photoelectrocatalytic performance of Zn-doped WO₃ photocatalysts for nitrite ions degradation under visible light. **2007**, 68, 1976-84 114
- 1366 Probing Methylene Blue Photocatalytic Degradation by Adsorbed Ethanol with In Situ IR. **2007**, 111, 13813-13820 20
- 1365 Hydrothermal synthesis and photocatalytic property of KNb₃O₈ with nanometer leaf-like network. **2007**, 427, 82-86 42
- 1364 ZnWO₄ photocatalyst with high activity for degradation of organic contaminants. **2007**, 432, 269-276 116
- 1363 Photodecomposition of NO by sol-gel TiO₂ catalysts under atmospheric conditions: Effect of the method on the textural and morphologic properties. **2007**, 434-435, 788-791 9

1362	Simple Procedure of Making Room Temperature Mesoporous TiO ₂ Films with High Purity and Enhanced Photocatalytic Activity. 2007 , 24, 13-20	12
1361	Enhancement of photocatalytic activity of TiO ₂ film electrode by in situ photoelectro-generating active chlorine. 2007 , 17, 1087-1092	4
1360	Anatase, Brookite, and Rutile Nanocrystals via Redox Reactions under Mild Hydrothermal Conditions: Phase-Selective Synthesis and Physicochemical Properties. 2007 , 111, 4969-4976	331
1359	Involvement of triplet excited states in the electron transfer photodegradation of cinnamic acids using pyrylium and thiapyrylium salts as photocatalysts. 2007 , 6, 848-52	17
1358	Photocatalytic Degradation of Rhodamine Dyes with Nano-TiO ₂ . 2007 , 46, 7-14	196
1357	¹⁵ N Solid State NMR and EPR Characterization of N-Doped TiO ₂ Photocatalysts. 2007 , 111, 2738-2748	97
1356	Characteristics of CuO-MoO ₃ -P ₂ O ₅ catalyst and its catalytic wet oxidation (CWO) of dye wastewater under extremely mild conditions. 2007 , 41, 7491-6	63
1355	Encapsulation of titanium(IV) oxide particles in hollow silica for size-selective photocatalytic reactions. 2007 , 3753-5	64
1354	Synthesis of molecular imprinted polymer coated photocatalysts with high selectivity. 2007 , 1163-5	109
1353	Photocatalytic reduction of hexavalent chromium and degradation of di-n-butyl phthalate in aqueous TiO ₂ suspensions under ultraviolet light irradiation. 2007 , 28, 1055-61	16
1352	Phase transformation and nanograting structure on TiO ₂ rutile single crystal induced by infrared femtosecond laser. 2007 , 16, 3328-3331	2
1351	Photocatalytic Degradation of Phenol-4-sulfonic Acid Using an Artificial UV/TiO ₂ System in a Slurry Bubble Column Reactor. 2007 , 46, 4257-4264	40
1350	Studies on In(OH) _y Sz Solid Solutions: Syntheses, Characterizations, Electronic Structure, and Visible-Light-Driven Photocatalytic Activities. 2007 , 111, 4727-4733	70
1349	Oxygen Vacancy Formation on Rutile TiO ₂ (110) and Its Interaction with Molecular Oxygen: A Theoretical Density Functional Theory Study. 2007 , 111, 16941-16945	22
1348	PbSe Nanocrystal/TiO _x Heterostructured Films: A Simple Route to Nanoscale Heterointerfaces and Photocatalysis. 2007 , 111, 11734-11741	45
1347	Chlorinated Nanocrystalline TiO ₂ Powders via One-Step Ar/O ₂ Radio Frequency Thermal Plasma Oxidizing Mists of TiCl ₃ Solution: Phase Structure and Photocatalytic Performance. 2007 , 111, 18018-18024	22
1346	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
1345	Photochemistry of the indoor air pollutant acetone on Degussa P25 TiO ₂ studied by chemical ionization mass spectrometry. 2007 , 111, 13023-31	38

1344	Photocatalytic Treatment of Wastewater Contaminated with Organic Waste and Copper Ions from the Semiconductor Industry. 2007 , 46, 6566-6571	23
1343	Photoactivity of nanostructured TiO ₂ catalysts in aqueous system and their surface acid-base, bulk and textural properties. 2007 , 33, 465-479	10
1342	Alkaline earth metal doped nanoporous TiO ₂ for enhanced photocatalytic mineralisation of bisphenol-A. 2007 , 8, 1088-1093	35
1341	N-doping TiO ₂ thin film prepared by heat treatment in electric field. 2007 , 8, 1187-1190	15
1340	Selection of supported cobalt substrates in the presence of oxone for the oxidation of monuron. 2007 , 55, 5708-13	21
1339	Preparation and Characterization of ZnO Hollow Spheres and ZnO/Carbon Composite Materials Using Colloidal Carbon Spheres as Templates. 2007 , 111, 6706-6712	151
1338	Preparation of sensitized ZnS and its photocatalytic activity under visible light irradiation. 2007 , 40, 6846-6849	39
1337	Flame aerosol synthesis of smart nanostructured materials. 2007 , 17, 4743	428
1336	Evidence for O ₂ - Radical Stabilization at Surface Oxygen Vacancies on Polycrystalline TiO ₂ . 2007 , 111, 10630-10638	173
1335	H ₂ S modified atomic layer deposition process for photocatalytic TiO ₂ thin films. 2007 , 17, 1361-1371	57
1334	Native and Surface Modified Semiconductor Nanoclusters. 2007 , 273-343	19
1333	. 2007 ,	77
1332	Time-resolved chemiluminescence study of the TiO ₂ photocatalytic reaction and its induced active oxygen species. 2007 , 22, 105-12	17
1331	Atrazine toxicity reduction following H ₂ O ₂ /TiO ₂ - photocatalyzed reaction and comparison with H ₂ O ₂ - photolytic reaction. 2007 , 97, 123-34	7
1330	Free-radical pathways in the decomposition of ketones over polycrystalline TiO(2): the role of organoperoxy radicals. 2007 , 8, 113-23	29
1329	Characterization of TiO ₂ coatings prepared by a modified electric arc-physical vapour deposition system. 2007 , 202, 13-22	40
1328	Sonocatalytic degradation of methylene blue with TiO ₂ pellets in water. 2007 , 14, 184-90	266
1327	Investigation on transition crystal of ordinary rutile TiO ₂ powder and its sonocatalytic activity. 2007 , 14, 246-52	37

1326	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
1325	Adsorption of chlorine and oxygen atoms on clean and defective rutile TiO ₂ (1 1 0) and MgO (1 0 0) surfaces. 2007 , 808, 71-79	29
1324	Bilirubin adsorption on nanocrystalline titania films. 2007 , 515, 3344-3351	36
1323	The effect of MgO coating on photocatalytic activity of SnO ₂ for the degradation of chlorophenol and textile colorants; the correlation between the photocatalytic activity and the negative shift of flatband potential of SnO ₂ . 2007 , 319, 58-63	25
1322	Activity comparison of Fe ₂ O ₃ , NiO, WO ₃ , TiO ₂ semiconductor catalysts in phenol degradation by laser enhanced photo-catalytic process. 2007 , 445, 325-330	55
1321	Enhancement of decolorization rate and COD removal from dyes containing wastewater by the addition of hydrogen peroxide under solar photocatalytic oxidation. 2007 , 217, 74-84	56
1320	Photocatalytic degradation of an azo dye X6G in water: A comparative study using nanostructured indium tin oxide and titanium oxide thin films. 2007 , 73, 186-194	56
1319	Preparation, characterization and photocatalytic activity of a novel nanostructure composite film derived from nanopowder TiO ₂ and sol-gel process using organic dispersant. 2007 , 75, 714-722	30
1318	Current and possible future methods of assessing the activities of photocatalyst films. 2007 , 129, 22-28	75
1317	Selection of TiO ₂ -support: UV-transparent alternatives and long-term use limitations for H ₂ S removal. 2007 , 129, 223-230	62
1316	Photocatalytic degradation of 4-chlorophenol with combustion synthesized TiO ₂ under visible light irradiation. 2007 , 128, 127-133	102
1315	Study on photolytic and photocatalytic decontamination of air polluted by chemical warfare agents (CWAs). 2007 , 128, 135-140	29
1314	Simple solvothermal routes to synthesize nanocrystalline Bi ₂ MoO ₆ photocatalysts with different morphologies. 2007 , 55, 4699-4705	192
1313	Raschig rings-Fe ₂ O ₃ composite photocatalyst activate in the degradation of 4-chlorophenol and Orange II under daylight irradiation. 2007 , 76, 73-81	114
1312	Antimicrobial activity of composite nanoparticles consisting of titania photocatalytic shell and nickel ferrite magnetic core. 2007 , 27, 540-545	193
1311	Heterogeneous photocatalysis: From water photolysis to applications in environmental cleanup. 2007 , 32, 2664-2672	426
1310	Fabrication and catalytic properties of Pt and Ru decorated TiO ₂ CNTs catalyst for methanol electrooxidation. 2007 , 9, 2467-2472	64
1309	Photochemical reactions of a few selected pesticide derivatives and other priority organic pollutants in aqueous suspensions of titanium dioxide. 2007 , 265, 231-236	25

1308	Enhanced photocatalytic degradation of 4-chlorophenol by Zr ⁴⁺ doped nano TiO ₂ . 2007 , 266, 158-165	173
1307	Au/MxOy/TiO ₂ catalysts for CO oxidation: Promotional effect of main-group, transition, and rare-earth metal oxide additives. 2007 , 273, 186-197	96
1306	Direct synthesis of dimethyl carbonate from carbon dioxide and methanol using supported copper (Ni, V, O) catalyst with photo-assistance. 2007 , 278, 92-96	60
1305	Hierarchical mesoporous grape-like titania with superior recyclability and photoactivity. 2007 , 106, 278-283	23
1304	Photocatalytic selective aerobic oxidation of alcohols to aldehydes and ketones by HPW/MCM-41 in ionic liquids. 2007 , 276, 73-79	25
1303	Effect of tantalum addition on anatase phase stability and photoactivity of aqueous sol-gel derived mesoporous titania. 2007 , 276, 41-46	45
1302	Low-temperature preparation and visible-light-induced catalytic activity of anatase Fe ³⁺ -codoped TiO ₂ . 2007 , 277, 119-126	95
1301	Fabrication of bulk anatase TiO ₂ by the spark plasma sintering method. 2007 , 452-453, 721-726	19
1300	Quantifying influence of operational parameters on photocatalytic H ₂ evolution over Pt-loaded nanocrystalline mesoporous TiO ₂ prepared by single-step sol-gel process with surfactant template. 2007 , 165, 861-869	59
1299	Vapor-thermal preparation of highly crystallized TiO ₂ powder and its photocatalytic activity. 2007 , 180, 2080-2087	34
1298	TiO ₂ as a photocatalyst for control of the aquatic invasive alga, Cladophora, under natural and artificial light. 2007 , 186, 212-217	66
1297	Photoassisted removal of sarin vapor in air under UV light irradiation. 2007 , 188, 143-148	8
1296	Thioureas methyl-derivatives photo-induced transformation on titanium dioxide. 2007 , 189, 380-386	5
1295	Multi-functional self-cleaning thermochromic films by atmospheric pressure chemical vapour deposition. 2007 , 189, 387-397	26
1294	Titanium dioxide photosensitized oxidation of α -hydroxybenzyl derivatives in CH ₃ CN. 2007 , 190, 34-40	10
1293	Photoinduced surface roughness variation in polycrystalline TiO ₂ thin films under different atmospheres. 2007 , 190, 53-57	12
1292	Remediation of olfactory pollution by photocatalytic degradation process: Study of methyl ethyl ketone (MEK). 2007 , 191, 42-50	39
1291	Influence of L-type activated carbons on photocatalytic activity of TiO ₂ in 4-chlorophenol photodegradation. 2007 , 191, 122-131	51

1290	Synergistic effects of cupric and fluoride ions on photocatalytic degradation of phenol. 2007 , 191, 193-200	41
1289	Photochemical degradation of diethyl phthalate with UV/H ₂ O ₂ . 2007 , 139, 132-9	120
1288	Synthesis and photocatalytic property of SnO ₂ /TiO ₂ nanotubes composites. 2007 , 139, 310-5	148
1287	Photocatalytic degradation of textile dye X-3B using polyoxometalate-TiO ₂ hybrid materials. 2007 , 141, 123-7	51
1286	Photocatalytic degradation of carbofuran using semiconductor oxides. 2007 , 143, 240-5	113
1285	Electrochemical-assisted photodegradation of mixed dye and textile effluents using TiO ₂ thin films. 2007 , 146, 73-80	51
1284	Effect of deposition of Ag on TiO ₂ nanoparticles on the photodegradation of Reactive Yellow-17. 2007 , 147, 906-13	170
1283	Photocatalytic degradation of phenol in aqueous solutions by Pr-doped TiO ₂ nanoparticles. 2007 , 149, 1-7	136
1282	Study of the conditions affecting dye adsorption on titania films and of their effect on dye photodegradation rates. 2007 , 146, 514-9	13
1281	Photoluminescence properties of samarium-doped TiO ₂ semiconductor nanocrystalline powders. 2007 , 127, 371-376	76
1280	A review and recent developments in photocatalytic water-splitting using TiO ₂ for hydrogen production. 2007 , 11, 401-425	3189
1279	Oxidized activated carbon as support for titanium dioxide in UV-assisted degradation of 3-chlorophenol. 2007 , 54, 117-123	32
1278	Photochemical degradation of the hazardous dye Safranin-T using TiO ₂ catalyst. 2007 , 309, 464-9	360
1277	Effects of sodium content and calcination temperature on the morphology, structure and photocatalytic activity of nanotubular titanates. 2007 , 316, 562-9	130
1276	Polymer supported porous TiO ₂ : application to photo-catalysis. 2007 , 4, 2029-2033	6
1275	Anodised TiO ₂ nano-tubes: voltage ramp influence on the nano-structured oxide and investigation of phase changes promoted by thermal treatments. 2007 , 204, 1814-1819	25
1274	Effect of water and hydrolysis catalyst on the crystal structure of nanocrystalline TiO ₂ powders prepared by sol-gel method. 2007 , 204, 1751-1756	12
1273	The Effect of Temperature on the Removal of DCM using Non-Thermal, Atmospheric-Pressure Plasma-Assisted Catalysis. 2007 , 4, 463-470	17

1272	Large-Scale Hydrothermal Synthesis of Twinned Rutile Titania. 2007 , 90, 319-321	9
1271	Photocatalytic degradation of Chromotrope 2R using nanocrystalline TiO ₂ /activated-carbon composite catalysts. 2007 , 70, 470-478	136
1270	Pure versus metal-ion-doped nanocrystalline titania for photocatalysis. 2007 , 73, 51-59	180
1269	Low temperature preparation and visible light photocatalytic activity of mesoporous carbon-doped crystalline TiO ₂ . 2007 , 69, 138-144	802
1268	Photocatalytic activity and photo-induced hydrophilicity of mesoporous TiO ₂ thin films coated on aluminum substrate. 2007 , 73, 135-143	36
1267	Single-crystalline TiO ₂ nanorods: Highly active and easily recycled photocatalysts. 2007 , 73, 166-171	132
1266	Influence of Zr as TiO ₂ doping ion on photocatalytic degradation of 4-chlorophenol. 2007 , 74, 83-91	127
1265	Photocatalytic degradation of two volatile fatty acids in monocomponent and multicomponent systems: Comparison between batch and annular photoreactors. 2007 , 74, 187-196	9
1264	Photocatalytic degradation of sulfamethoxazole in aqueous suspension of TiO ₂ . 2007 , 74, 233-241	204
1263	Sol-gel preparation and characterization of nanosize TiO ₂ : Its photocatalytic performance. 2007 , 104, 454-459	176
1262	Photoinduced charge property of nanosized perovskite-type LaFeO ₃ and its relationships with photocatalytic activity under visible irradiation. 2007 , 42, 203-212	140
1261	Synthesis, characterization and photocatalytic properties of nanosized Bi ₂ WO ₆ , PbWO ₄ and ZnWO ₄ catalysts. 2007 , 42, 696-706	128
1260	Enhanced photoactivity and anatase thermal stability of silica/alumina mixed oxide additives on sol-gel nanocrystalline titania. 2007 , 61, 1751-1755	25
1259	Synthesis of nano-particles of anatase-TiO ₂ and preparation of its optically transparent film in PVA. 2007 , 61, 4725-4730	96
1258	Photocatalytic pretreatment of acrylonitrile-butadiene-styrene polymer for electroless plating. 2007 , 56, 349-351	20
1257	Dye-effect in TiO ₂ catalyzed contaminant photo-degradation: Sensitization vs. charge-transfer formalism. 2007 , 9, 9-15	58
1256	Preparations of TiO ₂ film coated on foam nickel substrate by sol-gel processes and its photocatalytic activity for degradation of acetaldehyde. 2007 , 19, 80-5	55
1255	Enhanced photocatalytic activity of TiO ₂ by surface fluorination in degradation of organic cationic compound. 2007 , 19, 86-9	38

1254	Photocatalytic degradation of the dye sulforhodamine-B: a comparative study of different light sources. 2007 , 19, 97-102	25
1253	Role of the reduction site in the fluorinated or sulfated TiO ₂ photocatalytic process. 2007 , 19, 1239-44	11
1252	Effect of Preparation Conditions on Visible Photocatalytic Activity of Titania Synthesized by Solution Combustion Method. 2007 , 15, 178-183	12
1251	The heterogenic photocatalysis in water treatment processes. 2007 , 29, 72-89	21
1250	Femtosecond visible-to-IR spectroscopy of TiO ₂ nanocrystalline films: dynamics of UV-generated charge carrier relaxation at different excitation wavelengths. 2007 ,	4
1249	Titanium dioxide nanomaterials: synthesis, properties, modifications, and applications. <i>Chemical Reviews</i> , 2007 , 107, 2891-959	68.1 8515
1248	A green approach to the amidation of heterocyclic bases: the use of sunlight and air. 2007 , 33, 311-317	15
1247	Study on photocatalytic degradation of gaseous dichloromethane using pure and iron ion-doped TiO ₂ prepared by the sol-gel method. 2007 , 66, 2142-51	136
1246	Sol-gel synthesis, characterization and photocatalytic activity of mixed oxide ZnO-Fe ₂ O ₃ . 2007 , 42, 71-78	119
1245	Photoinduced oxidation of benzhydrol over lanthana modified sol-gel titania. 2007 , 42, 101-105	3
1244	Enhanced photoactivity of neodymium doped mesoporous titania synthesized through aqueous sol-gel method. 2007 , 43, 283-290	16
1243	Effect of surfactant in a modified sol on the physicochemical properties and photocatalytic activity of crystalline TiO ₂ nanoparticles. 2007 , 44, 513-521	36
1242	Comparative Actions of NiO and TiO ₂ Catalysts on the Destruction of Phenol and its Derivatives in a Dielectric Barrier Discharge. 2007 , 27, 177-187	25
1241	Oxidation of phenol and hexanol in their binary mixtures on illuminated titania: Kinetic studies. 2007 , 90, 293-300	6
1240	Preparation, characterization and photocatalytic activity of TiO ₂ / Methylcellulose nanocomposite films derived from nanopowder TiO ₂ and modified sol-gel titania. 2007 , 42, 6027-6035	33
1239	Characteristics of nanostructure and electrical properties of Ti thin films as a function of substrate temperature and film thickness. 2007 , 42, 2603-2611	8
1238	Macro, micro and nanostructure of TiO ₂ anodised films prepared in a fluorine-containing electrolyte. 2007 , 42, 6729-6734	71
1237	Influence of Silver Doping on Photocatalytic Activity of Liquid-Flame-Sprayed-Nanostructured TiO ₂ Coating. 2007 , 16, 881-885	12

1236	Formaldehyde decomposition of air purification functional interior wall paint. 2007 , 11, 527-530	2
1235	Control of Ti ³⁺ surface defect on TiO ₂ nanocrystal using various calcination atmospheres as the first step for surface defect creation and its application in photocatalysis. 2007 , 253, 3849-3855	125
1234	Raman study of phase transformation of TiO ₂ rutile single crystal irradiated by infrared femtosecond laser. 2007 , 253, 7497-7500	220
1233	The Direct-Indirect Model: An alternative kinetic approach in heterogeneous photocatalysis based on the degree of interaction of dissolved pollutant species with the semiconductor surface. 2007 , 129, 247-255	121
1232	Quasi-equilibrium and non-equilibrium adsorption in heterogeneous photocatalysis. 2007 , 62, 5160-5166	14
1231	The solid-solid interface: Explaining the high and unique photocatalytic reactivity of TiO ₂ -based nanocomposite materials. 2007 , 339, 173-187	254
1230	Nitrogen complex species and its chemical nature in TiO ₂ for visible-light sensitized photocatalysis. 2007 , 339, 57-63	194
1229	Photocatalytic degradation of the insecticide diazinon in the presence of prepared nanocrystalline ZnO powders under irradiation of UV-C light. 2007 , 58, 91-98	289
1228	Characterization of nitrogen and fluorine co-doped titania photocatalyst: Effect of temperature on microstructure and surface activity properties. 2007 , 68, 770-774	17
1227	Degradation pathways of ethyl violet by photocatalytic reaction with ZnO dispersions. 2007 , 264, 82-92	112
1226	Sol-gel preparation and characterization of alkaline earth metal doped nano TiO ₂ : Efficient photocatalytic degradation of 4-chlorophenol. 2007 , 273, 177-185	177
1225	Femtosecond laser irradiation-induced phase transformation on titanium dioxide crystal surface. 2007 , 264, 61-65	8
1224	Effects of hydronium intercalation and cation substitution on the photocatalytic performance of layered titanium oxide. 2008 , 69, 1444-1446	20
1223	Hydrothermal preparation and photocatalytic properties of sheet-like nanometer niobate K ₄ Nb ₆ O ₁₇ . 2008 , 69, 1471-1474	22
1222	Photoactive materials prepared by homogeneous hydrolysis with thioacetamide: Part 2 TiO ₂ /ZnO nanocomposites. 2008 , 69, 1623-1631	26
1221	Stiffening of nanoscale anatase Ti _{0.9} Zr _{0.1} O ₂ upon multiple compression cycles. 2008 , 69, 2230-2233	5
1220	S180 cell growth on low ion energy plasma treated TiO ₂ thin films. 2008 , 254, 3331-3338	12
1219	Synthesis and characterization of TiO ₂ and Fe/TiO ₂ nanoparticles and their performance for photocatalytic degradation of 1,2-dichloroethane. 2008 , 255, 2205-2213	105

1218	Computational investigation of the adsorption and photocleavage of chlorobenzene on anatase TiO ₂ surfaces. 2008 , 353, 93-103	20
1217	Photocatalytic effects of titania supported nanoporous MCM-41 on degradation of methyl orange in the presence of electron acceptors. 2008 , 76, 535-541	35
1216	Porogen Template Assisted TiO ₂ Rutile Coupled Nanomaterials for Improved Visible and Solar Light Photocatalytic Applications. 2008 , 123, 65-71	21
1215	Ce Dispersed Al-MCM-41: A Photocombinate for Phenol Degradation Activity. 2008 , 123, 301-306	11
1214	Solar Light Induced Photocatalytic Degradation of Pollutants over Titania Pillared Zirconium Phosphate and Titanium Phosphate. 2008 , 12, 203-213	11
1213	High photocatalytic activity and stability for decomposition of gaseous acetaldehyde on TiO ₂ /Al ₂ O ₃ composite films coated on foam nickel substrates by sol-gel processes. 2008 , 45, 1-8	23
1212	Sintering of titanium dioxide nanoparticles: a comparison between molecular dynamics and phenomenological modeling. 2008 , 10, 1169-1182	43
1211	Direct Solvothermal Formation of Nanocrystalline TiO ₂ on Porous SiO ₂ Adsorbent and Photocatalytic Removal of Nitrogen Oxides in Air over TiO ₂ /BiO ₂ Composites. 2008 , 47, 155-161	11
1210	Influence of pH on the degradation 4-chlorophenol by gamma radiocatalysis using SiO ₂ , Al ₂ O ₃ and TiO ₂ . 2008 , 275, 257-260	7
1209	Photocatalytic TiO ₂ Assisted decomposition of Triton X-100: inhibition of p-nitrophenol degradation. 2008 , 21, 1072-1078	12
1208	Photocatalytic degradation of 2,2-bis(4-hydroxy-3-methylphenyl) propane (BPP) based on molecular recognition interaction. 2008 , 83, 601-608	12
1207	Ordered mesoporous thin films of rutile TiO ₂ nanocrystals mixed with amorphous Ta ₂ O ₅ . 2008 , 9, 748-57	26
1206	Synthesis and photocatalytic activity of Zn ₂ GeO ₄ nanorods for the degradation of organic pollutants in water. 2008 , 1, 1011-9	94
1205	Self-sterilization using silicone catheters coated with Ag and TiO ₂ nanocomposite thin film. 2008 , 85, 453-60	83
1204	Importance of the relationship between surface phases and photocatalytic activity of TiO ₂ . 2008 , 47, 1766-9	1003
1203	Recent Developments in Photocatalysis. 2008 , 6, 55-84	35
1202	Heterogeneous Photocatalysis in Environmental Remediation. 2008 , 8, 505-550	61
1201	Bifunctional Heterogeneous Catalysts for Selective Epoxidation and Visible Light Driven Photolysis: Nickel Oxide-Containing Porous Nanocomposite. 2008 , 20, 539-542	102

1200	Palladium Oxide Nanoparticles on Nitrogen-Doped Titanium Oxide: Accelerated Photocatalytic Disinfection and Post-Illumination Catalytic Memory 2008 , 20, 3717-3723	148
1199	Importance of the Relationship between Surface Phases and Photocatalytic Activity of TiO ₂ . 2008 , 120, 1790-1793	152
1198	Comparative examination of titania nanocrystals synthesized by peroxy titanate approach from different precursors. 2008 , 322, 497-504	31
1197	Bacterial attachment on reactive ceramic ultrafiltration membranes. 2008 , 320, 101-107	66
1196	The synthesis of Ag-doped mesoporous TiO ₂ . 2008 , 111, 639-642	24
1195	Excellent antimicrobial properties of mesoporous anatase TiO ₂ and Ag/TiO ₂ composite films. 2008 , 114, 431-439	281
1194	Synthesis and photoactivity of Pd substituted nano-TiO ₂ . 2008 , 291, 5-11	29
1193	Photocatalytic activity of Nb ₂ O ₅ /SrNb ₂ O ₆ heterojunction on the degradation of methyl orange. 2008 , 69, 23-28	27
1192	Preparation of Ag-doped mesoporous titania and its enhanced photocatalytic activity under UV light irradiation. 2008 , 69, 2660-2664	37
1191	Maintaining particle size in the transformation of anatase to rutile titania nanostructures. 2008 , 69, 2898-2906	13
1190	InVO ₄ -sensitized TiO ₂ photocatalysts for efficient air purification with visible light. 2008 , 193, 213-221	110
1189	Direct growth of F-doped TiO ₂ particulate thin films with high photocatalytic activity for environmental applications. 2008 , 195, 47-53	51
1188	Photoassisted dehalogenation and mineralization of chloro/fluoro-benzoic acid derivatives in aqueous media. 2008 , 197, 115-123	6
1187	Photo-induced self-cleaning and biocidal behaviour of titania and copper oxide multilayers. 2008 , 197, 197-205	71
1186	The photocatalytic activity of TiO ₂ foam and surface modified binary oxide titania nanoparticles. 2008 , 197, 321-328	20
1185	Light induced transformations of selected organophosphorus pesticides on titanium dioxide: Pathways and by-products evaluation using LCMS technique. 2008 , 199, 42-49	19
1184	Effects of sintering of TiO ₂ particles on the mechanisms of photocatalytic degradation of organic molecules in water. 2008 , 200, 216-224	22
1183	Photocatalytic degradation of ammonia and butyric acid in plug-flow reactor: Degradation kinetic modeling with contribution of mass transfer. 2008 , 200, 254-261	46

1182	Photo-induced transformation of hexaconazole and dimethomorph over TiO ₂ suspension. 2008 , 200, 356-363	23
1181	Efficient photochemical electron transfer sensitization of homogeneous organic reactions. 2008 , 9, 43-60	86
1180	Selective organic transformations on titanium oxide-based photocatalysts. 2008 , 9, 157-170	290
1179	Photocatalytic activity for exposed building materials. 2008 , 28, 2645-2652	39
1178	Preparation and enhanced daylight-induced photocatalytic activity of C,N,S-tridoped titanium dioxide powders. 2008 , 152, 1229-36	117
1177	Photocatalytic degradation of C.I. Direct Red 23 in aqueous solutions under UV irradiation using SrTiO ₃ /CeO ₂ composite as the catalyst. 2008 , 152, 1301-8	123
1176	Studies on TiO ₂ /ZnO photocatalysed degradation of lignin. 2008 , 153, 412-7	195
1175	Photocatalytic degradation of Orange G on nitrogen-doped TiO ₂ catalysts under visible light and sunlight irradiation. 2008 , 155, 312-9	216
1174	Heterogeneous photocatalytic degradation of monochlorobenzene in water. 2008 , 156, 186-93	32
1173	Enhanced activity of bismuth-compounded TiO ₂ nanoparticles for photocatalytically degrading rhodamine B solution. 2008 , 160, 208-12	51
1172	Magnetically separable composite photocatalyst with enhanced photocatalytic activity. 2008 , 160, 295-300	39
1171	Photocatalytic water splitting for O ₂ production under visible-light irradiation on BiVO ₄ nanoparticles in different sacrificial reagent solutions. 2008 , 350, 111-117	133
1170	Gas phase photocatalysis and liquid phase photocatalysis: Interdependence and influence of substrate concentration and photon flow on degradation reaction kinetics. 2008 , 78, 232-241	93
1169	Flame-made WO ₃ /TiO ₂ nanoparticles: Relation between surface acidity, structure and photocatalytic activity. 2008 , 79, 53-62	251
1168	The photocatalytic activity and kinetics of the degradation of an anionic azo-dye in a UV irradiated porous titania foam. 2008 , 84, 351-355	48
1167	Photodecolorization of methyl orange by yttrium incorporated TiO ₂ supported ZSM-5. 2008 , 85, 92-102	72
1166	Excimer laser processing as a tool for photocatalytic design of sol-gel TiO ₂ thin films. 2008 , 254, 4044-4051	12
1165	Synthesis and characterization of brookite/anatase complex thin film. 2008 , 254, 6619-6622	15

1164	Photooxidation of different organic dyes (RB, MO, TB, and BG) using Fe(III)-doped TiO ₂ nanophotocatalyst prepared by novel chemical method. 2008 , 254, 7498-7504	63
1163	Synthesis of Bi ₂ O ₃ /TiO ₂ composite film with high-photocatalytic activity under sunlight irradiation. 2008 , 255, 2365-2369	90
1162	Effluent quality at kraft/soda agro-based paper mills and its treatment using a heterogeneous photocatalytic system. 2008 , 228, 183-190	43
1161	Photocatalytic degradation of C.I. Basic Violet 10 using TiO ₂ catalysts supported by Y zeolite: An investigation of the effects of operational parameters. 2008 , 76, 817-824	186
1160	The photocatalytic degradation of amino and nitro substituted stilbenesulfonic acids by TiO ₂ /UV and Fe ²⁺ /H ₂ O ₂ /UV under aqueous conditions. 2008 , 77, 590-597	18
1159	Synthesis of bimodal porous structured TiO ₂ microsphere with high photocatalytic activity for water treatment. 2008 , 324, 202-207	21
1158	Enhanced antibactericidal function of W ⁴⁺ -doped titania-coated nickel ferrite composite nanoparticles: a biomaterial system. 2008 , 4, 273-83	166
1157	Use of TiO ₂ /Cr-MCM-41 molecular sieve irradiated with visible light for the degradation of thiophene in the gas phase. 2008 , 133-135, 594-599	26
1156	Oxygen atom transfer photocatalyzed by molybdenum(VI) dioxodibromo-(4,4'-dicarboxylate-2,2'-bipyridine) anchored on TiO ₂ . 2008 , 133-135, 619-624	16
1155	Promotion effect of Al ₂ O ₃ /BiO ₂ interlayer and Pt loading on TiO ₂ /nickel-foam photocatalyst for degrading gaseous acetaldehyde. 2008 , 139, 140-145	26
1154	Kinetic study and model of the photocatalytic degradation of rhodamine B (RhB) by a TiO ₂ -coated activated carbon catalyst: Effects of initial RhB content, light intensity and TiO ₂ content in the catalyst. 2008 , 142, 147-155	149
1153	Photodegradation of methyl green using visible irradiation in ZnO suspensions: determination of the reaction pathway and identification of intermediates by a high-performance liquid chromatography-photodiode array-electrospray ionization-mass spectrometry method. 2008 , 1189, 355-65	85
1152	Effect of loaded silver nanoparticles on TiO ₂ for photocatalytic degradation of Acid Red 88. 2008 , 92, 929-937	133
1151	TiO ₂ /MnO _m -based materials. 2008 , 44, 496-505	
1150	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
1149	TiO ₂ photocatalysis and related surface phenomena. 2008 , 63, 515-582	5084
1148	Ethyl radical ejection during photodecomposition of butanone on TiO ₂ (1 1 0). 2008 , 602, 3188-3193	29
1147	Role of Ni doping in surface carbon removal and photo catalytic activity of nano-structured TiO ₂ film. 2008 , 602, 1149-1154	22

1146	Ultrasonic-assisted sol-gel method of preparation of TiO ₂ nano-particles: characterization, properties and 4-chlorophenol removal application. 2008 , 15, 649-658	123
1145	PVD-Grown photocatalytic TiO ₂ thin films on PVDF substrates for sensors and actuators applications. 2008 , 517, 1161-1166	41
1144	Preparation of carbon-coated W18O49 and its photoactivity under visible light. 2008 , 78, 202-209	42
1143	Zn-doped TiO ₂ nanoparticles with high photocatalytic activity synthesized by hydrogen-oxygen diffusion flame. 2008 , 79, 208-215	187
1142	Applicability of coumarin for detecting and measuring hydroxyl radicals generated by photoexcitation of TiO ₂ nanoparticles. 2008 , 81, 295-302	123
1141	Functionalisation versus mineralisation of some N-heterocyclic compounds upon UV-illumination in the presence of un-doped and iron-doped TiO ₂ photocatalysts. 2008 , 82, 225-232	5
1140	Visible-light-induced photocatalytic oxidation of carboxylic acids and aldehydes over N-doped TiO ₂ loaded with Fe, Cu or Pt. 2008 , 83, 56-62	104
1139	The effect of Pt on the photocatalytic degradation pathway of methylene blue over TiO ₂ under ambient conditions. 2008 , 83, 277-285	73
1138	Influence of annealing temperature on the nanostructure and corrosivity of Ti/stainless steel substrates. 2008 , 254, 2528-2533	13
1137	The effects of synthesis temperature on the structure and visible-light-induced catalytic activity of F-doped and S-doped titania. 2008 , 285, 142-149	29
1136	Electron spin resonance. 2008 , 104, 81	3
1135	Photochemical reactions as key steps in organic synthesis. <i>Chemical Reviews</i> , 2008 , 108, 1052-103	68.1 969
1134	Visible-light-induced oxidative removal of nitrogen oxides in air by metal chloride-modified titanium (IV) oxide nanoparticles. 2008 , 34, 587-601	17
1133	Photocatalytic Applications of Micro- and Nano-TiO ₂ in Environmental Engineering. 2008 , 38, 197-226	165
1132	Photocatalytic reduction of CO ₂ over TiO ₂ based catalysts. 2008 , 62, 1-9	141
1131	Low-Temperature Growth of Rutile Nanorod Thin Films and their Photon-Induced Property. 2008 , 91, 3961-3970	32
1130	A TiO ₂ /CNT coaxial structure and standing CNT array laminated photocatalyst to enhance the photolysis efficiency of TiO ₂ . 2008 , 84, 1493-9	19
1129	The effect of postnitridation annealing on the surface property and photocatalytic performance of N-doped TiO ₂ under visible light irradiation. 2008 , 255, 59-67	172

1128	Synthesis of visible-light-active TiO ₂ -based photocatalysts by carbon and nitrogen doping. 2008 , 260, 128-133	200
1127	Surface characteristics of porous anodic TiO ₂ layer for biomedical applications. 2008 , 109, 10-14	48
1126	Mixed amorphous and nanocrystalline TiO ₂ powders prepared by sol-gel method: Characterization and photocatalytic study. 2008 , 110, 166-175	115
1125	Comparative study of the photocatalytic performance of boron-iron Co-doped and boron-doped TiO ₂ nanoparticles. 2008 , 112, 167-172	97
1124	Direct formation of new, phase-stable, and photoactive anatase-type Ti _{1-x} Nb _x ScO ₂ solid solution nanoparticles by hydrothermal method. 2008 , 43, 2196-2206	22
1123	The enhanced photoactivity of nanosized Bi ₂ WO ₆ catalyst for the degradation of 4-chlorophenol. 2008 , 43, 2617-2625	22
1122	Characterization of LiF-doped TiO ₂ and its photocatalytic activity for decomposition of trichloromethane. 2008 , 43, 3037-3046	15
1121	Bi ₂ WO ₆ Nanocrystals with High Photocatalytic Activities under Visible Light. 2008 , 112, 10407-10411	201
1120	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
1119	Titanium Dioxide Nanoparticles: Effect of Sol-Gel pH on Phase Composition, Particle Size, and Particle Growth Mechanism. 2008 , 112, 4469-4474	56
1118	Enhancement of TiO ₂ photocatalytic activity by structuring the photocatalyst film as photonic sponge. 2008 , 7, 931-5	26
1117	A New Photocatalyst CdWO ₄ Prepared with a Hydrothermal Method. 2008 , 112, 17351-17356	79
1116	One-Pot Synthesis of Ag/ZnO Self-Assembled 3D Hollow Microspheres with Enhanced Photocatalytic Performance. 2008 , 112, 16792-16800	306
1115	Bi ₅ FeTi ₃ O ₁₅ Hierarchical Microflowers: Hydrothermal Synthesis, Growth Mechanism, and Associated Visible-Light-Driven Photocatalysis. 2008 , 112, 17835-17843	77
1114	Photocatalytic activity of MCM-organized TiO ₂ materials in the oxygenation of cyclohexane with molecular oxygen. 2008 , 7, 819-25	19
1113	Selective photocatalytic transformations on microporous titanasilicate ETS-10 driven by size and polarity of molecules. 2008 , 24, 12658-63	36
1112	The characterization of Sr-doped nanocrystal grain microspheres and photodegradation of KN-R dye. 2008 , 9, 557-562	5
1111	Preparation and its photocatalysis of Cd _{1-x} Zn _x S nano-sized solid solution with PAMAM as a template. 2008 , 9, 65-69	42

1110	Effects of reaction medium and crystallite size on Ti ³⁺ surface defects in titanium dioxide nanoparticles prepared by solvothermal method. 2008 , 9, 1810-1814	39
1109	Enhancement of the photocatalytic activity of TiO ₂ through spatial structuring and particle size control: from subnanometric to submillimetric length scale. 2008 , 10, 769-83	201
1108	Photocatalysis using GaN nanowires. 2008 , 2, 637-42	169
1107	Photocatalytic hydroxylation of aromatic ring by using water as an oxidant. 2008 , 4634-6	57
1106	FUNDAMENTALS IN METAL-OXIDE HETEROGENEOUS PHOTOCATALYSIS. 2008 , 275-392	4
1105	Visible Light Photocatalytic Oxidation of Toluene Using a Cerium-Doped Titania Catalyst. 2008 , 47, 3346-3357	26
1104	Application of Atmospheric-Pressure Plasma for Enhancing Photoelectrochemical Properties of TiO ₂ Electrodes. 2008 ,	1
1103	Sol-gel S-doped TiO ₂ materials for environmental protection. 2008 , 354, 705-711	50
1102	Insights for phase control in TiO ₂ nanoparticles from polymeric precursors method. 2008 , 466, 435-438	23
1101	Formation of brominated products in irradiated titanium dioxide suspensions containing bromide and dissolved organic carbon. 2008 , 42, 1778-84	25
1100	Loading effects of silver oxides upon generation of reactive oxygen species in semiconductor photocatalysis. 2008 , 10, 2986-92	61
1099	Photocatalytic degradation of lignin using Pt/TiO ₂ as the catalyst. 2008 , 71, 998-1004	69
1098	Preparation of nano-Ag/TiO ₂ thin-film. 2008 , 18, 986-994	6
1097	Photocatalytic Oxidation of Nitrogen Dioxide with TiO ₂ Thin Films under Continuous UV-Light Illumination. 2008 , 112, 10502-10508	82
1096	Synergic effect of simultaneous fluorination and platinization of TiO ₂ surface on anoxic photocatalytic degradation of organic compounds. 2008 , 756-8	70
1095	Atomic layer deposition of photocatalytic TiO ₂ thin films from TiF ₄ and H ₂ O. 2008 , 6467-74	31
1094	Selective Production of Superoxide Ions and Hydrogen Peroxide over Nitrogen- and Sulfur-Doped TiO ₂ Photocatalysts with Visible Light in Aqueous Suspension Systems. 2008 , 112, 15818-15823	104
1093	Uranyl-Anchored MCM-41 as a Highly Efficient Photocatalyst in the Oxidative Destruction of Short Chain Linear Alkanes: An in situ FTIR Study. 2008 , 112, 15832-15843	12

1092	Catalysis in Water Remediation. 2008 , 2477	1
1091	Photocatalytic Degradation of 3,3'-Dimethylbiphenyl-4,4'-diamine (o-Tolidine) over Nanocrystalline TiO ₂ Synthesized by Sol-Gel, Solution Combustion, and Hydrothermal Methods. 2008 , 47, 5847-5855	26
1090	Synergy of slow photon and chemically amplified photochemistry in platinum nanocluster-loaded inverse titania opals. 2008 , 130, 5420-1	129
1089	Energy Transfer Dynamics in a Series of Conjugated Polyelectrolytes with Varying Chain Length. 2008 , 112, 16140-16147	17
1088	Self-cleaning anatase nanorods: photocatalytic removal of structure directing agents and subsequent surface modification. 2008 , 18, 3448	14
1087	Doped Solid Solution: (Zn _{0.95} Cu _{0.05}) _{1-x} Cd _x S Nanocrystals with High Activity for H ₂ Evolution from Aqueous Solutions under Visible Light. 2008 , 112, 17635-17642	145
1086	Visible-light induced water detoxification catalyzed by PtII dye sensitized titania. 2008 , 130, 12566-7	115
1085	Hydrothermal Splitting of Titanate Fibers to Single-Crystalline TiO ₂ Nanostructures with Controllable Crystalline Phase, Morphology, Microstructure, and Photocatalytic Activity. 2008 , 112, 8809-8818	89
1084	Particle-Size-Dependent Hydrophilicity of TiO ₂ Nanoparticles Characterized by Marcus Reorganization Energy of Interfacial Charge Recombination. 2008 , 112, 8995-9000	24
1083	Photocatalytic activity and characterization of sol-gel-derived Cr(III)-doped TiO ₂ -coated active carbon composites. 2008 , 88, 767-779	9
1082	Photoelectrolysis of water using heterostructural composite of TiO ₂ nanotubes and nanoparticles. 2008 , 41, 245103	25
1081	Tetraoxygen on reduced TiO ₂ (110): oxygen adsorption and reactions with bridging oxygen vacancies. 2008 , 100, 196102	109
1080	Effect of Temperature, Pressure and Volume of Reacting Phase on Photocatalytic CO ₂ Reduction on Suspended Nanocrystalline TiO ₂ . 2008 , 73, 1192-1204	38
1079	Zinc(II) tetraarylporphyrins anchored to TiO ₂ , ZnO, and ZrO ₂ nanoparticle films through rigid-rod linkers. 2008 , 24, 5366-74	123
1078	Trap-State Distributions and Carrier Transport in Pure and Mixed-Phase TiO ₂ : Influence of Contacting Solvent and Interphasial Electron Transfer. 2008 , 112, 12786-12794	185
1077	Nucleation and early growth of anodized TiO ₂ film. 2008 , 23, 2116-2124	19
1076	TiO ₂ /SiO ₂ Composite Films Immobilized on Foam Nickel Substrate for the Photocatalytic Degradation of Gaseous Acetaldehyde. 2008 , 2008, 1-8	4
1075	Comparative study of antimicrobial and photocatalytic activity in titania encapsulated composite nanoparticles with different dopants. 2008 , 24, 589-595	153

1074	Effect of M ²⁺ (M = Zn and Cu) Dopants on the Electronic Structure and Photocatalytic Activity of In(OH) _y Sz Solid Solution. 2008 , 112, 16046-16051	34
1073	Thermal atomic displacements in nanocrystalline titanium dioxide studied by synchrotron x-ray diffraction. 2008 , 41, 085409	2
1072	TiO ₂ Nanoparticles in Microemulsion. 2008 ,	
1071	Preparation of a Visible Light-responding Photocatalyst via Nitrogen Doping to Titanium(IV) Oxide Modified with a Silane Coupling Reagent. 2008 , 76, 118-120	1
1070	Photocatalytic Activity of W-Doped TiO ₂ Nanopowders. 2008 , 11,	6
1069	Chemo- and Regio-Selectivity in the TiO ₂ -Mediated Photooxidation of 1,n-diols. 2008 , 11,	1
1068	Photochemistry Aspects of the Laser Pyrolysis Addressing the Preparation of Oxide Semiconductor Photocatalysts. 2008 , 2008, 1-11	4
1067	. 2009 ,	17
1066	Enhancement in the photocatalytic nature of nitrogen-doped PVD-grown titanium dioxide thin films. 2009 , 106, 113535	33
1065	Synthesis of Ag-ZnO nanoparticles for enhanced photocatalytic degradation of acid red 88 in aqueous environment. 2009 , 59, 1423-30	17
1064	A high-throughput reaction system to measure the gas-phase photocatalytic oxidation activity of TiO ₂ nanotubes. 2009 , 80, 075106	5
1063	Nitrogen stabilized reactive sputtering of optimized TiO ₂ photocatalysts with visible light reactivity. 2009 , 27, 712-715	8
1062	Nanotechnostructured Catalysts TiO ₂ Nanoparticles for Water Purification. 2009 , 43-92	3
1061	Appropriate Technologies for Environmental Protection in the Developing World. 2009 ,	6
1060	Optimization of Process Parameters for the Photocatalytic Degradation of 2,4-Dichlorophenol in Aqueous Solutions. 2009 , 7,	0
1059	Photocatalytic Activity of TiO ₂ -C Composites under the Visible Light. 2009 , 610-613, 310-315	
1058	Enhancement of TiO ₂ Photocatalytic Activity by N- Doping Using the Gas Phase Impregnation Method. 2009 , 1217, 1	1
1057	Photocatalytic Activity inCH ₃ CN Related to the Surface Properties ofTiO ₂ Powders Prepared by Sol-Gel Method. 2009 , 2009, 1-6	4

1056	Nanostructured Photocatalysts and Their Applications in the Photocatalytic Transformation of Lignocellulosic Biomass: An Overview. 2009 , 2, 2228-2258	141
1055	A Single-Step APCVD Route to Novel Dual Functionality: Self-Cleaning Biocidal Titania-Copper Films. 2009 , 25, 1007-1014	2
1054	Inverse Opal Titania on Optical Fiber for the Photoreduction of CO ₂ to CH ₃ OH. 2009 , 7,	5
1053	Effect of Cationic or Anionic Dopants on Optical and Photocatalytic Properties of TiO ₂ Nanopowders made by Flame Spray Synthesis (FSS). 2009 , 1171, 23	
1052	Ultrasonic spray pyrolysis synthesis and visible light activity of carbon-doped Ti _{0.91} Zr _{0.09} O ₂ solid solution photocatalysts. 2009 , 114, 235-241	11
1051	Titanium dioxide nanoparticles: Impact of increasing ionic strength during synthesis, reflux, and hydrothermal aging. 2009 , 44, 119-125	10
1050	Electronic structure and photocatalytic water splitting of lanthanum-doped Bi ₂ AlNbO ₇ . 2009 , 44, 741-746	28
1049	Synthesis of highly-active single-crystalline TiO ₂ nanorods and its application in environmental photocatalysis. 2009 , 63, 1471-1474	52
1048	New compound ScTiNbO ₆ synthesized via phase transformation from anatase to srilankite-like structure. 2009 , 63, 1508-1510	2
1047	Effect of substrate polarity on photocatalytic activity of titanium dioxide particles embedded in mesoporous silica. 2009 , 264, 175-182	26
1046	Exhaustive breakdown of aqueous monochlorophenols by contact glow discharge electrolysis. 2009 , 21 Suppl 1, S142-5	14
1045	Synthesis of Porous Bi ₂ WO ₆ Thin Films as Efficient Visible-Light-Active Photocatalysts. 2009 , 21, 1286-1290	304
1044	Highly Reactive Multilayer-Assembled TiO ₂ Coating on Electrospun Polymer Nanofibers. 2009 , 21, 1252-1256	137
1043	Oxygen Atom Transfer in the Photocatalytic Oxidation of Alcohols by TiO ₂ : Oxygen Isotope Studies. 2009 , 121, 6197-6200	61
1042	Facile Synthesis of Anatase/Brookite Mixed-Phase N-Doped TiO ₂ Nanoparticles with High Visible-Light Photocatalytic Activity. 2009 , 2009, 3727-3733	26
1041	Oxygen atom transfer in the photocatalytic oxidation of alcohols by TiO ₂ : oxygen isotope studies. 2009 , 48, 6081-4	253
1040	A computational study on the adsorption and ring cleavage of para-chlorophenol on anatase TiO ₂ surface. 2009 , 603, 664-669	26
1039	Synthesis and photocatalytic oxidation of different organic dyes by using Mn ₂ O ₃ /TiO ₂ solid solution and visible light. 2009 , 255, 9026-9031	24

1038	Redox system for perfluoroalkylation of arenes and β -methylstyrene derivatives using titanium oxide as photocatalyst. 2009 , 130, 926-932	27
1037	Sonochemical fabrication of fluorinated mesoporous titanium dioxide microspheres. 2009 , 182, 1061-1069	98
1036	Preparation of nanosized Bi ₂ WO ₆ using different content of starting materials and their photoactivities. 2009 , 76, 227-233	4
1035	Rutile thin film responsive to visible light and with high UV light sensitivity. 2009 , 44, 861-868	13
1034	Alcohol washing as a way to stabilize the anatase phase of nanostructured titania through controlling particle packing. 2009 , 44, 5944-5948	7
1033	Phase transformation and precipitation behavior of niobium component out of niobium-doped anatase-type TiO ₂ nanoparticles synthesized via hydrothermal crystallization. 2009 , 44, 6135-6143	23
1032	Photocatalytic properties of porous C-doped TiO ₂ and Ag/C-doped TiO ₂ nanomaterials by eggshell membrane templating. 2009 , 11, 375-384	34
1031	Energy transduction inside of amphiphilic vesicles: encapsulation of photochemically active semiconducting particles. 2009 , 39, 127-40	24
1030	Studies on the photocatalytic degradation of 2,3-dichlorophenol using different oxidants in aqueous solutions. 2009 , 98, 177-186	26
1029	Bactericidal activity and UV-filtering property of TiO ₂ -based photocatalysts coated on curtain fabrics. 2009 , 35, 271-280	9
1028	Effect of Thermal Treatment on the Photocatalytic Activity in Visible Light of TiO ₂ -W Flame Spray Synthesised Nanopowders. 2009 , 52, 1051-1059	15
1027	Selective Oxidation Catalysis: Opportunities and Challenges. 2009 , 52, 1162-1174	109
1026	Photochemical degradation of typical halogenated herbicide 2,4-D in drinking water with UV/H ₂ O ₂ /micro-aeration. 2009 , 52, 2351-2357	12
1025	Photocatalytic Degradation of Isopropanol Over PbSnO ₃ Nanostructures Under Visible Light Irradiation. 2009 , 4, 274-280	23
1024	Photocatalytic degradation of two commercial reactive dyes in aqueous phase using nanophotocatalysts. 2009 , 4, 709-16	147
1023	Controlled growth of platinum nanoparticles on strontium titanate nanocubes by atomic layer deposition. 2009 , 5, 750-7	145
1022	Hydrogen bond interactions at the TiO ₂ surface: Their contribution to the pH dependent photo-catalytic degradation of p-nitrophenol. 2009 , 300, 65-71	38
1021	Degradation efficiencies and mechanisms of the ZnO-mediated photocatalytic degradation of Basic Blue 11 under visible light irradiation. 2009 , 310, 159-165	71

1020	Surface engineered active photocatalysts without noble metals: CuS _n Cd _{1-x} S nanospheres by one-step synthesis. 2009 , 34, 8495-8503	94
1019	Synthesis of TiO ₂ sol in a neutral solution using TiCl ₄ as a precursor and H ₂ O ₂ as an oxidizing agent. 2009 , 518, 43-48	47
1018	Photocatalytic degradation of organic dyes with Er ³⁺ :YAlO ₃ /ZnO composite under solar light. 2009 , 93, 355-361	81
1017	Surface study of composite photocatalyst based on plasma modified activated carbon fibers with TiO ₂ . 2009 , 203, 1154-1160	67
1016	Surface properties of doped and undoped TiO ₂ thin films deposited by magnetron sputtering. 2009 , 83, 1303-1306	19
1015	Photocatalytic activity of oxide coatings on fired clay substrates. 2009 , 29, 565-570	19
1014	Photocatalytic degradation of aqueous propoxur solution using TiO ₂ and Hbeta zeolite-supported TiO ₂ . 2009 , 161, 336-43	114
1013	Photocatalytic degradation of rhodamine B by Bi(2)WO(6) with electron accepting agent under microwave irradiation: mechanism and pathway. 2009 , 162, 1477-86	305
1012	Role of oxygen active species in the photocatalytic degradation of phenol using polymer sensitized TiO ₂ under visible light irradiation. 2009 , 163, 843-7	109
1011	Preparation and application of visible-light-responsive Ni-doped and SnO ₂ -coupled TiO ₂ nanocomposite photocatalysts. 2009 , 163, 1179-84	70
1010	Degradation of n-butyl benzyl phthalate using TiO ₂ /UV. 2009 , 164, 527-32	45
1009	Visible light absorption ability and photocatalytic oxidation activity of various interstitial N-doped TiO ₂ prepared from different nitrogen dopants. 2009 , 168, 253-61	320
1008	Template-free fabrication of hierarchically flower-like tungsten trioxide assemblies with enhanced visible-light-driven photocatalytic activity. 2009 , 169, 221-7	128
1007	Photo-degradation of acid red 44 using Al and Fe modified silicates. 2009 , 169, 498-508	9
1006	Enhancement of olive mill wastewater biodegradation by homogeneous and heterogeneous photocatalytic oxidation. 2009 , 169, 673-9	58
1005	Enhanced photocatalytic activity for degrading Rhodamine B solution of commercial Degussa P25 TiO ₂ and its mechanisms. 2009 , 172, 1168-74	104
1004	Photocatalytic decomposition of 2-propanol in air by mechanical mixtures of TiO ₂ crystalline particles and silicalite adsorbent: The complete conversion of organic molecules strongly adsorbed within zeolitic channels. 2009 , 117, 350-355	24
1003	Synthesis of C,N,S-tridoped mesoporous titania with enhanced visible light-induced photocatalytic activity. 2009 , 122, 1-6	32

1002	Kinetic studies on the photocatalytic degradation of Direct Yellow 12 in the presence of ZnO catalyst. 2009 , 306, 77-81	88
1001	Structural and adsorption characteristics and catalytic activity of titania and titania-containing nanomaterials. 2009 , 330, 125-37	21
1000	Photocatalytic activity of a surface-modified anatase and rutile titania nanoparticle mixture. 2009 , 338, 304-7	30
999	Photoluminescence properties of Co-doped ZnO nanorods array fabricated by the solution method. 2009 , 41, 413-417	48
998	TiO ₂ nanotubes as recyclable catalyst for efficient photocatalytic degradation of indigo carmine dye. 2009 , 201, 45-49	76
997	The photocatalysis of N,N-diethyl-m-toluamide (DEET) using dispersions of Degussa P-25 TiO ₂ particles. 2009 , 202, 28-32	26
996	Effect of thickness of ALD grown TiO ₂ films on photoelectrocatalysis. 2009 , 204, 200-208	58
995	Doped titanium dioxide nanocrystalline powders with high photocatalytic activity. 2009 , 182, 1838-1845	67
994	The synthetic parameters for the preparation of nanotubular titanate with highly photocatalytic activity. 2009 , 40, 463-470	25
993	Ce (III) species supported zeolites as novel photocatalysts for hydrogen production from water. 2009 , 141, 89-93	28
992	Photocatalytic decomposition of acetone over dc-magnetron sputtering supported vanadia/TiO ₂ catalysts. 2009 , 142, 165-169	23
991	Evaluation of bias potential enhanced photocatalytic degradation of 4-chlorophenol with TiO ₂ nanotube fabricated by anodic oxidation method. 2009 , 146, 30-35	114
990	Zeta potential of shape-controlled TiO ₂ nanoparticles with surfactants. 2009 , 348, 270-275	157
989	Characteristics of lanthanum loaded TiO ₂ -ZSM-5 photocatalysts: Decolorization and degradation processes of methyl orange. 2009 , 354, 132-142	58
988	Polyoxometalate/zirconia (POM/ZrO ₂) nanocomposite prepared by sol-gel process: A green and recyclable photocatalyst for efficient and selective aerobic oxidation of alcohols into aldehydes and ketones. 2009 , 354, 119-126	89
987	The influence of the preparation method on the structural, acidic and redox properties of V ₂ O ₅ -TiO ₂ /SO ₄ ²⁻ catalysts. 2009 , 356, 121-128	66
986	Photocatalytic TiO ₂ /adsorbent nanocomposites prepared via wet chemical impregnation for wastewater treatment: A review. 2009 , 371, 1-9	103
985	Study of adsorption and degradation of acid orange 7 on the surface of CeO ₂ under visible light irradiation. 2009 , 85, 148-154	322

984	Photocatalytic nitrate reduction over metal modified TiO ₂ . 2009 , 85, 192-200	154
983	Synthesis and photocatalytic properties of dense and porous TiO ₂ -anatase thin films prepared by sol-gel. 2009 , 86, 1-7	158
982	Preparation of carbon-coated Magneli phases Ti _n O _{2n-1} and their photocatalytic activity under visible light. 2009 , 88, 160-164	83
981	Effect of TiO ₂ particle size on the photocatalytic reduction of CO ₂ . 2009 , 89, 494-502	400
980	Visible light-induced photocatalytic activity of delafossite AgMO ₂ (M = Al, Ga, In) prepared via a hydrothermal method. 2009 , 89, 551-556	88
979	Construction of Z-scheme type CdS/Au/TiO ₂ hollow nanorod arrays with enhanced photocatalytic activity. 2009 , 90, 463-469	172
978	Influence of sulfur on the structural, surface properties and photocatalytic activity of sulfated TiO ₂ . 2009 , 90, 633-641	47
977	W-doped titania nanoparticles for UV and visible-light photocatalytic reactions. 2009 , 91, 39-46	72
976	Is sulfur-doped TiO ₂ an effective visible light photocatalyst for remediation?. 2009 , 91, 554-562	118
975	Synthesis, characterization and photocatalytic activity of NiO/Bi ₂ O ₃ nanocomposites. 2009 , 472, 212-216	88
974	Interaction of molecular oxygen with oxygen vacancies on reduced TiO ₂ : Site specific blocking by probe molecules. 2009 , 477, 340-344	37
973	Synthesis of titania/carbon nanotube heterojunction arrays for photoinactivation of E. coli in visible light irradiation. 2009 , 47, 3280-3287	215
972	γ-MnO ₂ octahedral molecular sieve: Preparation, characterization, and catalytic activity in the atmospheric oxidation of toluene. 2009 , 355, 169-175	28
971	Efficient gas phase photodecomposition of acetone by Ru-doped Titania. 2009 , 89, 613-619	43
970	Deposition of TiO ₂ and Ag:TiO ₂ thin films by the polymeric precursor method and their application in the photodegradation of textile dyes. 2009 , 90, 205-212	94
969	One step activation of WO _x /TiO ₂ nanocomposites with enhanced photocatalytic activity. 2009 , 91, 397-405	197
968	Preparation of F-doped titania nanoparticles with a highly thermally stable anatase phase by alcoholysis of TiCl ₄ . 2009 , 255, 9548-9552	34
967	Photocatalytic efficiency of nanocrystalline zeolite TS-1 for the degradation of methyl orange. 2009 , 98, 265-272	4

966	Orthorhombic Bi ₂ GeO ₅ Nanobelts: Synthesis, Characterization, and Photocatalytic Properties. 2009 , 9, 1775-1779	62
965	Photocatalytic properties of Ru-doped titania prepared by homogeneous hydrolysis. 2009 , 7, 259-266	7
964	Application of TiO ₂ /Er ³⁺ :Y ₃ Al ₅ O ₁₂ composite to photo-degrade acid red B dye under sun light irradiation. 2009 , 83, 2350-2356	3
963	A perspective on organic chemistry: physical organic chemistry. 2009 , 74, 8497-509	0
962	Niobate Nanosheets as Catalysts for Photochemical Water Splitting into Hydrogen and Hydrogen Peroxide. 2009 , 113, 479-485	118
961	Solid-State ¹³ C NMR Characterization of Carbon-Modified TiO ₂ . 2009 , 21, 1187-1197	39
960	Visible light assisted photocatalytic degradation of acid red 88 using Au-ZnO nanophotocatalysts. 2009 , 60, 1589-96	10
959	Nearly monodisperse CuInS ₂ hierarchical microarchitectures for photocatalytic H ₂ evolution under visible light. 2009 , 48, 4003-9	142
958	Final State Distributions of O ₂ Photodesorbed from TiO ₂ (110). 2009 , 113, 13180-13191	60
957	Stereochemistry of the C-S bond cleavage in cis-2-methylcyclopentyl phenyl sulfoxide radical cation. 2009 , 74, 1805-8	10
956	A novel, fast-responding, indicator ink for thin film photocatalytic surfaces. 2009 , 1, 1163-5	12
955	Probing single-molecule interfacial geminate electron-cation recombination dynamics. 2009 , 131, 9020-5	29
954	Photocatalytic degradation of organophosphate and phosphonoglycine pesticides using TiO ₂ immobilized on silica gel. 2009 , 76, 595-600	144
953	A comparison of several nanoscale photocatalysts in the degradation of a common pollutant using LEDs and conventional UV light. 2009 , 43, 4499-506	49
952	CeO ₂ Bi ₂ O ₃ nanocomposite: Two step synthesis, microstructure and photocatalytic activity. 2009 , 355, 776-779	77
951	Low temperature synthesis of anatase and rutile titania nanopowders by hydrolysis of TiCl ₄ using ammonia gas. 2009 , 481, 605-609	25
950	Growth of radial arranged TiO ₂ nanorods by direct oxidation of Al-coated In-738 superalloy. 2009 , 485, 328-332	3
949	Preparation, characterization of P-doped TiO ₂ nanoparticles and their excellent photocatalytic properties under the solar light irradiation. 2009 , 488, 314-319	125

948	Degradation of phenol by TiO ₂ -based heterogeneous photocatalysts in presence of sunlight. 2009 , 3, 45-50	22
947	Enhancement of Photocatalytic Activity of Mesoporous TiO ₂ Powders by Hydrothermal Surface Fluorination Treatment. 2009 , 113, 6743-6750	530
946	Efficient Photocatalytic Degradation of Organic Compounds by Ilmenite AgSbO ₃ under Visible and UV Light Irradiation. 2009 , 113, 12483-12488	72
945	Novel Metastable Hexagonal MoO ₃ Nanobelts: Synthesis, Photochromic, and Electrochromic Properties. 2009 , 21, 5681-5690	298
944	Magnetically Separable Fe ₃ O ₄ /TiO ₂ Hollow Spheres: Fabrication and Photocatalytic Activity. 2009 , 113, 553-558	263
943	Efficient Photocatalytic Removal of Contaminant by Bi ₃ Nb _x Ta _{1-x} O ₇ Nanoparticles under Visible Light Irradiation. 2009 , 113, 20029-20035	47
942	Study of the oxidation state and the structural aspects of the V-doped TiO ₂ . 2009 , 106, 093503	2
941	Mesoporous SiO ₂ -Modified Nanocrystalline TiO ₂ with High Anatase Thermal Stability and Large Surface Area as Efficient Photocatalyst. 2009 , 113, 1006-1013	105
940	Polyol-Mediated Synthesis of Ultrafine TiO ₂ Nanocrystals and Tailored Physiochemical Properties by Ni Doping. 2009 , 113, 9210-9217	43
939	Carbon Doping of the TiO ₂ (110) Rutile Surface. A Theoretical Study Based on DFT. 2009 , 21, 1431-1438	36
938	Template-Free Hydrothermal Synthesis of Novel Three-Dimensional Dendritic CdS Nanoarchitectures. 2009 , 113, 5984-5990	71
937	Mesostructuring of Metal Oxides Through EISA: Fundamentals and Applications. 2009 , 413-439	2
936	Analysis of Surface OH Groups on TiO ₂ Single Crystal with Polarization Modulation Infrared External Reflection Spectroscopy. 2009 , 113, 20322-20327	28
935	On the origin of life in the zinc world: 1. Photosynthesizing, porous edifices built of hydrothermally precipitated zinc sulfide as cradles of life on Earth. 2009 , 4, 26	73
934	BiFeO ₃ /TiO ₂ core-shell structured nanocomposites as visible-active photocatalysts and their optical response mechanism. 2009 , 105, 054310	117
933	Photocatalytic Treatment of Air: From Basic Aspects to Reactors. 2009 , 36, 289-336	21
932	Photocatalytic Reactor Configurations for Water Purification. 2009 , 36, 145-184	14
931	Partial oxidation of allylic and primary alcohols with O(2) by photoexcited TiO(2). 2009 , 8, 613-9	46

930	New approach toward nanosized ferrous ferric oxide and Fe(3)O(4)-doped titanium dioxide photocatalysts. 2009 , 1, 2453-61	54
929	Femtosecond Visible-to-IR Spectroscopy of TiO ₂ Nanocrystalline Films: Elucidation of the Electron Mobility before Deep Trapping□ 2009 , 113, 11741-11746	158
928	The kinetics of photocatalytic degradation of aliphatic carboxylic acids in an UV/TiO ₂ suspension system. 2009 , 30, 1103-9	15
927	TiO ₂ -Protected Photoelectrochemical Tandem Cu(In,Ga)Se ₂ Thin Film Membrane for Light-Induced Water Splitting and Hydrogen Evolution. 2009 , 113, 20980-20989	32
926	Aerosol-spraying synthesis of SiO ₂ /TiO ₂ nanocomposites and conversion to porous TiO ₂ and single-crystalline TiOF ₂ . 2009 , 5394-6	56
925	CdS/Regenerated Cellulose Nanocomposite Films for Highly Efficient Photocatalytic H ₂ Production under Visible Light Irradiation. 2009 , 113, 16021-16026	128
924	Probing single-molecule interfacial electron transfer dynamics of porphyrin on TiO ₂ nanoparticles. 2009 , 131, 1479-87	75
923	Visible light-induced efficient contaminant removal by Bi ₅ O ₇ I. 2009 , 43, 2005-10	212
922	Clay nanoparticle-supported single-molecule fluorescence spectroelectrochemistry. 2009 , 9, 655-8	49
921	Photoinduced electron transfer in ruthenium(II) trisbipyridine complexes connected to a naphthalenebisimide via an oligo(phenyleneethynylene) spacer. 2009 , 33, 408-416	16
920	Photoinduced hardness change on TiO(2) single crystal surfaces. 2009 , 3735-7	13
919	Green molecular transformation by a B(12)-TiO(2) hybrid catalyst as an alternative to tributyltin hydride. 2009 , 6427-9	41
918	Self-assembly hydrothermal assisted synthesis of mesoporous anatase in the presence of ethylene glycol. 2009 , 10, 2036-2040	17
917	A simple one pot nano titania mediated green synthesis of 2-alkylbenzimidazoles and indazole from aromatic azides under UV and solar light. 2009 , 11, 280-284	28
916	Efficient photocatalytic removal of NO in indoor air with hierarchical bismuth oxybromide nanoplate microspheres under visible light. 2009 , 43, 4143-50	396
915	Photocorrosion Inhibition and Photoactivity Enhancement for Zinc Oxide via Hybridization with Monolayer Polyaniline. 2009 , 113, 4605-4611	361
914	Room temperature synthesized rutile TiO(2) nanoparticles induced by laser ablation in liquid and their photocatalytic activity. 2009 , 20, 285707	92
913	Polymer semiconductors for artificial photosynthesis: hydrogen evolution by mesoporous graphitic carbon nitride with visible light. 2009 , 131, 1680-1	1418

912	Low-Cost Adsorbents: Growing Approach to Wastewater Treatment – Review. 2009 , 39, 783-842	728
911	. 2009 , 45, 1524-1529	2
910	Fabrication and characteristics of rutile TiO ₂ nanoparticles induced by laser ablation. 2009 , 19, s743-s747	36
909	Use of human senses as sensors. 2009 , 9, 3184-204	5
908	Self-organized nitrogen and fluorine co-doped titanium oxide nanotube arrays with enhanced visible light photocatalytic performance. 2009 , 43, 8923-9	79
907	Hydrogen Production from Methanol/Water Photocatalytic Decomposition Using Pt/TiO ₂ -N _x Catalyst. 2009 , 23, 2192-2196	134
906	Photocatalytic Remediation. 2009 , 629-646	1
905	Photocatalysis in Environmental Protection. 359-376	
904	Photocatalytic Degradation of Ethyl tert-Butyl Ether in Aqueous Solution Mediated by TiO ₂ Suspensions: Parameter and Reaction Pathway Investigations. 2009 , 56, 1118-1127	3
903	Photocatalytic Reduction of Nitrobenzene to Aniline in an Aqueous Suspension of Titanium(IV) Oxide Particles in the Presence of Oxalic Acid as a Hole Scavenger and Promotive Effect of Dioxide in the System. 2009 , 38, 410-411	48
902	B ₁₂ /TiO ₂ Hybrid Catalyst for Dehalogenation of Organic Halides. 2009 , 38, 468-469	35
901	Structure of Adsorbents, Ion Exchangers, Ion Conductors, Catalysts, and Permeable Materials. 2009 , 63-102	
900	ChemInform Abstract: Heterogeneous Photocatalysis.. 2010 , 24, no-no	
899	UV-A and Simulated Sunlight Photo-activity of TiO ₂ Nanoparticles Formed from Titanate Nanotubes. 2010 , 63, 293	2
898	Titania solid solution nanoparticles co-doped with niobium and gallium. 2010 , 118, 1170-1175	7
897	Site-specific photocatalytic splitting of methanol on TiO ₂ (110). 2010 , 1, 575	143
896	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
895	Preparation of Bismuth Oxide Quantum Dots and their Photocatalytic Activity in a Homogeneous System. 2010 , 2, 1115-1121	29

894	Long-Lived Charge Separation in Gold Nanoparticles Encapsulated inside Cucurbit[7]uril and Its Relevance for Photocatalysis. 2010 , 114, 18847-18852	14
893	Removal of Alizarin Yellow dye from water using zinc doped WO ₃ catalyst. 2010 , 84, 564-7	42
892	Theoretical study on the electronic and optical properties of Ce ³⁺ -doped TiO ₂ photocatalysts. 2010 , 494, 117-122	39
891	Synthesis, characterization and effect of calcination temperature on phase transformation and photocatalytic activity of Cu,S-codoped TiO ₂ nanoparticles. 2010 , 256, 1837-1844	132
890	Optical properties of nanometric TiO ₂ clusters deposited on thin films by high pressure sputtering. 2010 , 204, 1893-1897	8
889	Preparation, characterization, photocatalytic properties of titania hollow sphere doped with cerium. 2010 , 178, 517-21	78
888	Application of advanced oxidation processes for TNT removal: A review. 2010 , 178, 10-28	225
887	Study of surface-bulk mass transport and phase transformation in nano-TiO ₂ using hyperfine interaction technique. 2010 , 71, 983-987	6
886	Photocatalytic degradation of organic dyes by Er ³⁺ :YAlO ₃ /TiO ₂ composite under solar light. 2010 , 8, 87-93	24
885	Adsorption and Photocatalytic Decomposition of Toluene on TiO ₂ Surfaces. 2010 , 138, 76-81	15
884	Photocatalytic reduction of methylene blue by TiO ₂ nanotube arrays: effects of TiO ₂ crystalline phase. 2010 , 45, 2696-2702	67
883	Stable hydrosols for TiO ₂ coatings. 2010 , 56, 250-263	45
882	Triblock copolymer-templated synthesis of porous TiO ₂ and its photocatalytic activity. 2010 , 12, 2895-2906	25
881	Phase transition of BiVO ₄ nanoparticles in molten salt and the enhancement of visible-light photocatalytic activity. 2010 , 12, 3069-3075	16
880	Effect of Surface Treatment on the Selective Photocatalytic Oxidation of Benzyl Alcohol into Benzaldehyde by O ₂ on TiO ₂ Under Visible Light. 2010 , 53, 578-583	62
879	Visible Light Induced Photocatalytic Degradation of Methyl Orange by Polythiophene/TiO ₂ Composite Particles. 2010 , 213, 151-159	49
878	Photocatalytic H ₂ evolution from water in the presence of carbon dioxide over NiO/Ca ₂ Fe ₂ O ₅ . 2010 , 99, 485	9
877	Fabrication and characterization of visible-light-induced photocatalyst Gd ₂ O ₃ /Ag ₃ VO ₄ . 2010 , 99, 471	10

876	Recent advances in visible light-responsive titanium oxide-based photocatalysts. 2010 , 36, 327-347	78
875	Organic and inorganic binder-coating properties for immobilization of photocatalytic ZnO nanopowders. 2010 , 36, 819-825	4
874	Sonochemical preparation of TiO ₂ nanoparticles in the ionic liquid 1-(3-hydroxypropyl)-3-methylimidazolium-bis(trifluoromethylsulfonyl)amide. 2010 , 120, 109-113	36
873	Bi ₂ WO ₆ with significantly enhanced photocatalytic activities by nitrogen doping. 2010 , 120, 155-159	76
872	Preparation and visible-light photocatalytic activity of In ₂ S ₃ /TiO ₂ composite. 2010 , 122, 183-187	55
871	Rietveld X-ray diffraction analysis of nanostructured rutile films of titania prepared by pulsed laser deposition. 2010 , 45, 6-9	16
870	Fabrication, structure, and enhanced photocatalytic properties of hierarchical CeO ₂ nanostructures/TiO ₂ nanofibers heterostructures. 2010 , 45, 1406-1412	59
869	Titanium Dioxide/Reduced Graphene Oxide Hybrid Photocatalysts for Efficient and Selective Partial Oxidation of Cyclohexane. 2017 , 7, 293-300	64
868	Ag-AgBr/TiO ₂ /RGO nanocomposite: Synthesis, characterization, photocatalytic activity and aggregation evaluation. 2017 , 56, 202-213	17
867	Surface-Sensitive and Surface-Specific Ultrafast Two-Dimensional Vibrational Spectroscopy. <i>Chemical Reviews</i> , 2017 , 117, 10623-10664	68.1 95
866	Fabrication of PdO _x loaded highly mesoporous WO ₃ /TiO ₂ hybrid nanofibers by stepwise pore-generation for enhanced photocatalytic performance. 2017 , 438, 173-183	5
865	Nanohybrid Materials in the Development of Solar Energy Applications. 2017 , 147-197	
864	Investigation on the Hydrocarbon and Oxygen-Containing Hydrocarbon Intermediates Leading to Crotonaldehyde Formation on TiO ₂ . 2017 , 121, 11290-11299	
863	One-pot synthesis of lightly doped Zn Cu O and Au-Zn Cu O with solar light photocatalytic activity in liquid phase. 2017 , 24, 15622-15633	12
862	Visible-Light-Irradiated Graphitic Carbon Nitride Photocatalyzed Diels-Alder Reactions with Dioxygen as Sustainable Mediator for Photoinduced Electrons. 2017 , 56, 9336-9340	74
861	Zirconium doped TiO ₂ nano-powder via halide free non-aqueous solvent controlled sol-gel route. 2017 , 5, 2955-2963	19
860	Chemical sensing dependence on metal oxide thickness for high temperature plasmonics-based sensors. 2017 , 251, 1104-1111	6
859	Ultrafast Vibrational Energy Transfer in Catalytic Monolayers at Solid-Liquid Interfaces. 2017 , 8, 2489-2495	29

858	Spectroscopic Methods in Catalysis and Their Application in Well-Defined Nanocatalysts. 2017 , 221-284	2
857	Preparation of pompon-like ZnO-PANI heterostructure and its applications for the treatment of typical water pollutants under visible light. 2017 , 338, 276-286	48
856	Surface-engineering strategies for g-C ₃ N ₄ as efficient visible-light photocatalyst. 2017 , 6, 57-62	12
855	Dual Functionality of TiO ₂ /Biochar Hybrid Materials: Photocatalytic Phenol Degradation in the Liquid Phase and Selective Oxidation of Methanol in the Gas Phase. 2017 , 5, 6274-6287	89
854	Photocatalytic performance of different exposed crystal facets of BiOCl. 2017 , 6, 48-56	27
853	Atomistic Approach toward Selective Photocatalytic Oxidation of a Mustard-Gas Simulant: A Case Study with Heavy-Chalcogen-Containing PCN-57 Analogues. 2017 , 9, 19535-19540	44
852	Visible-Light-Mediated [4+2] Annulation of N-Cyclobutylanilines with Alkynes Catalyzed by Self-Doped Ti@TiO ₂ . 2017 , 23, 15396-15403	6
851	Superior-performance spherical-like Eu-doped Bi ₅ O ₇ I photocatalysts for the removal of organic pollutants under visible-light irradiation. 2017 , 28, 11034-11045	18
850	Molecule-specific interactions of diatomic adsorbates at metal-liquid interfaces. 2017 , 4, 044009	10
849	Characterization of Sputtered HfO ₂ /TiO ₂ Nanocolumn Arrays and Their Application in Photocatalysis. 2017 , 46, 4532-4538	2
848	Plasmon-Enhanced Resonant Excitation and Demethylation of Methylene Blue. 2017 , 121, 7421-7428	35
847	A kinetic model of water adsorption, clustering and dissociation on the FeS{001} surface. 2017 , 19, 12045-12055	4
846	Template-Free Synthesis of Zn _{1-x} Cd _x S Nanocrystals with Tunable Band Structure for Efficient Water Splitting and Reduction of Nitroaromatics in Water. 2017 , 5, 4293-4303	37
845	Facile Solvothermal Synthesis of Reduced Graphene Oxide-BiPO ₄ Nanocomposite with Enhanced Photocatalytic Activity. 2017 , 45, 357-362	9
844	Missing Linkers: An Alternative Pathway to UiO-66 Electronic Structure Engineering. 2017 , 29, 3006-3019	120
843	The role of electron interfacial transfer in mesoporous nano-TiO ₂ photocatalysis: a combined study of in situ photoconductivity and numerical kinetic simulation. 2017 , 19, 8866-8873	18
842	High hiding power and weather durability of film-coated titanium dioxide particles with a yolk-shell structure. 2017 , 520, 736-742	5
841	Visible light-induced heterogeneous Meerwein-Ponndorf-Verley-type reduction of an aldehyde group over an organically modified titanium dioxide photocatalyst. 2017 , 53, 4215-4218	25

840	Visible light responsive TiO ₂ nanoparticles modified using Ce and La for photocatalytic reduction of CO ₂ : Effect of Ce dopant content. 2017 , 537, 111-120	50
839	The Effects of Electron Beam Irradiation on Structural and Optical Properties of TiO ₂ Particles. 2017 , 888, 297-303	2
838	Influence of TiO ₂ -Layer Thickness of Spray-Coated Glass Beads on Their Photocatalytic Performance. 2017 , 40, 1084-1091	5
837	Hydrothermal growth of highly monodispersed TiO ₂ nanoparticles: Functional properties and dye-sensitized solar cell performance. 2017 , 418, 186-193	5
836	Efficient photocatalytic oxygen production over Ca-modified LaTiO ₂ N. 2017 , 346, 10-20	41
835	Photocatalytic CO ₂ Reduction Under Continuous Flow High-Purity Conditions: Quantitative Evaluation of CH ₄ Formation in the Steady-State. 2017 , 9, 696-704	43
834	One dimensional CdS based materials for artificial photoredox reactions. 2017 , 5, 2387-2410	142
833	The effects of hydrolysis level on structural properties of titania aerogels. 2017 , 457, 175-179	8
832	Mixed-phase TiO ₂ photocatalysis: correlation between phase composition and photodecomposition of water pollutants. 2017 , 37, 11-28	10
831	Composition, structure, and photocatalytic properties of Fe-containing oxide layers on titanium. 2017 , 53, 879-888	4
830	The preparation of CuS/TiO ₂ nanotube arrays with high-active under visible light by ultrasonic-assisted hydrothermal method. 2017 , 123, 1	3
829	Synthesis and Photocatalysis of Zn _{0.97-x} Cu _{0.03} Ce _x O Powders. 2017 , 52, 1700096	1
828	Photocatalytic Active Mesoporous Carbon/ZnO Hybrid Materials from Block Copolymer Tethered ZnO Nanocrystals. 2017 , 33, 12276-12284	17
827	Recent Progress in Semiconductor-Based Nanocomposite Photocatalysts for Solar-to-Chemical Energy Conversion. 2017 , 7, 1700529	139
826	Recent advances in nanomaterials for water protection and monitoring. 2017 , 46, 6946-7020	332
825	Upgrading Asphaltenes by Oil Droplets Striking a Charged TiO ₂ -Immobilized Paper Surface. 2017 , 31, 12685-12690	4
824	The impact of sintering temperature on structural, morphological and thermoelectric properties of zinc titanate nanocrystals. 2017 , 4, 075036	2
823	Complex damage distribution behaviour in cobalt implanted rutile TiO ₂ (1 1 0) lattice. 2017 , 410, 114-121	3

822	Interplay of Corrosion and Photocatalysis During Nonaqueous Benzylamine Oxidation on Cadmium Sulfide. 2017 , 29, 7579-7586	26
821	Construction of full-spectrum-driven Ag ₂ S-C ₃ N ₄ /W ₁₈ O ₄₉ heterojunction catalyst with outstanding N ₂ photofixation ability. 2017 , 7, 42997-43004	11
820	Excellent performance of ordered Ag-g-C ₃ N ₄ /SBA-15 for photocatalytic ozonation of oxalic acid under simulated solar light irradiation. 2017 , 349, 108-114	19
819	Basic Principles, Mechanism, and Challenges of Photocatalysis. 2017 , 19-40	62
818	Density Functional Studies on Layered Perovskite Oxyhalide Bi ₄ MO ₈ X Photocatalysts (M = Nb and Ta, X = Cl, Br, and I). 2017 , 121, 20662-20672	19
817	Nano- and micromotors for cleaning polluted waters: focused review on pollutant removal mechanisms. 2017 , 9, 13850-13863	56
816	Versatile H ₂ O ₂ -driven mixed aerogel synthesis from CdTe and bimetallic noble metal nanoparticles. 2017 , 5, 10251-10259	4
815	Efficient photo-catalytic oxidative degradation of organic dyes using CuInSe ₂ /TiO ₂ hybrid hetero-nanostructures. 2017 , 349, 73-90	16
814	Photocatalytic hydrogenation of furan to tetrahydrofuran in alcoholic suspensions of metal-loaded titanium(IV) oxide without addition of hydrogen gas. 2017 , 19, 20206-20212	15
813	Fabrication mechanism of compact TiO ₂ nanotubes and their photo-electrochemical ability. 2017 , 4, 075908	8
812	MgO nanolayering of Cu ₂ O semiconductors enhances photoreactivity: Superoxide radicals boost. 2017 , 5, 2648-2657	9
811	Synthesis of graphene quantum dots from corn powder and their application in reduce charge recombination and increase free charge carriers. 2017 , 242, 447-455	81
810	Photocatalytic pathway toward degradation of environmental pharmaceutical pollutants: structure, kinetics and mechanism approach. 2017 , 7, 4548-4569	168
809	Preparation of the W ₁₈ O ₄₉ /g-C ₃ N ₄ heterojunction catalyst with full-spectrum-driven photocatalytic N ₂ photofixation ability from the UV to near infrared region. 2017 , 41, 8920-8926	64
808	Study of Graphene Oxide Structural Features for Catalytic, Antibacterial, Gas Sensing, and Metals Decontamination Environmental Applications. 2017 , 9, 43393-43414	55
807	Enhanced Photocatalytic Activity of an Acid-modified TiO ₂ Surface for Degradation of the Azo Dye Remazol Red. 2017 , 2, 10371-10374	1
806	A One-Step Approach to the Synthesis of High Aspect Ratio Titania Nanoflakes. 2017 , 1, 1700060	3
805	Synthesis and characterization of efficient TiO ₂ mesoporous photocatalysts. 2017 , 4, 11526-11533	4

804	Synthesis of cobalt doped titania nano material assisted by gemini surfactant: Characterization and application in degradation of Acid Red under visible light irradiation. 2017 , 24, 183-195	16
803	Performance of the GW Method in Predicting the Electronic Gap of TiO Nanoparticles. 2017 , 13, 3746-3753	16
802	Visible-Light-Irradiated Graphitic Carbon Nitride Photocatalyzed DielsAlder Reactions with Dioxygen as Sustainable Mediator for Photoinduced Electrons. 2017 , 129, 9464-9468	23
801	Understanding the mechanism of enhanced charge separation and visible light photocatalytic activity of modified wurtzite ZnO with nanoclusters of ZnS and graphene oxide: from a hybrid density functional study. 2017 , 41, 8140-8155	49
800	Photocatalytic treatment of valproic acid sodium salt with TiO 2 in different experimental devices: An economic and energetic comparison. 2017 , 327, 656-665	9
799	Visible light photocatalysis over solid acid: Enhanced by gold plasmonic effect. 2017 , 218, 480-487	17
798	Photochemical oxidation of styrene in acetonitrile solution in presence of H 2 O 2, TiO 2 /H 2 O 2 and ZnO/H 2 O 2. 2017 , 346, 462-469	15
797	Structure Tuning of Bi2MoO6 and Their Enhanced Visible Light Photocatalytic Performances. 2017 , 42, 347-372	33
796	Immobilized Sandwich-Type Polyoxometalates [Mn4(XW9O34)2]nLn Tb-Doped TiO2 Nanoparticles as Efficient and Selective Catalysts in the Oxidation of Sulfides and Alcohols. 2017 , 147, 71-81	8
795	Photodegradation of methyl orange dye by ZnO loaded onto carbon xerogels composites. 2017 , 12, 4-12	12
794	Growth of anatase and rutile phase TiO2 nanoparticles using pulsed laser ablation in liquid: Influence of surfactant addition and ablation time variation. 2017 , 396, 303-309	30
793	ZnO supported on zeolites: Photocatalyst design, microporosity and properties. 2017 , 513, 20-27	33
792	One-step synthesis of highly efficient TiO2-CdS-Ag nanocomposite for remove organic pollution. 2017 , 174, 145-149	6
791	Photocatalytic Water Splitting and Carbon Dioxide Reduction. 2017 , 2709-2756	8
790	A novel Ag 3 PO 4 /CuO nanocomposite with enhanced photocatalytic performance. 2017 , 188, 300-303	8
789	Hybrid Equation-of-Motion Coupled-Cluster/Effective Fragment Potential Method: A Route toward Understanding Photoprocesses in the Condensed Phase. 2017 , 121, 741-752	22
788	A Hybrid Catalyst for Light-Driven Green Molecular Transformations. 2017 , 82, 18-29	22
787	Microfluidic synthesis of Ag@CuO core-shell nanoparticles with enhanced photocatalytic activity. 2017 , 486, 16-26	52

786	Building of CoFe ₂ /CoFe ₂ O ₄ /MgO architectures: Structure, magnetism and surface functionalized by TiO ₂ . 2017 , 392, 1078-1087	19
785	One-dimensional Z-scheme TiO ₂ /WO ₃ /Pt heterostructures for enhanced hydrogen generation. 2017 , 391, 211-217	86
784	Enhanced photoelectrochemical photocatalytic activities in hydrothermal synthesized SrTiO ₃ /TiO ₂ heterostructure thin films. 2017 , 696, 682-687	5
783	Effect of gadollunium doping on visible light photocatalytic performance of Ag ₃ PO ₄ : Evaluation of activity in degradation of an anthraquinone dye and mechanism study. 2017 , 426, 257-270	27
782	A novel heterogeneous system for sulfate radical generation through sulfite activation on a CoFeO nanocatalyst surface. 2017 , 324, 583-592	121
781	Enhanced photocatalytic dehalogenation of aryl halides by combined poly-p-phenylene (PPP) and TiO ₂ photocatalysts. 2017 , 335, 149-154	16
780	The effect of solution flow rate and substrate temperature on structural and optical properties of TiO ₂ films deposited by spray pyrolysis technique. 2017 , 621, 98-101	18
779	Efficient degradation of lindane by visible and simulated solar light-assisted S-TiO ₂ /peroxymonosulfate process: Kinetics and mechanistic investigations. 2017 , 428, 9-16	22
778	Oxidation of diazinon in cns-ZnO/LED photocatalytic process: Catalyst preparation, photocatalytic examination, and toxicity bioassay of oxidation by-products. 2017 , 174, 320-330	35
777	Rational design and synthesis of molecular-sieving, photocatalytic, hollow fiber membranes for advanced water treatment applications. 2017 , 524, 163-173	32
776	Impact of the annealing temperature on Pt/g-C ₃ N ₄ structure, activity and selectivity between photodegradation and water splitting. 2017 , 287, 182-188	50
775	Direct evidence of multichannel-improved charge-carrier mechanism for enhanced photocatalytic H evolution. 2017 , 7, 16116	20
774	Recent progress in Ag ₃ PO ₄ -based all-solid-state Z-scheme photocatalytic systems. 2017 , 38, 1794-1803	24
773	Synthesis of heterostructure Cu ₂ O/TiO ₂ nanotube arrays by AC electrochemical deposition. 2017 , 521, 94-100	2
772	Low-temperature synthesis and visible light-driven photocatalytic activity of Bi ₆ Ti ₃ WO ₁₈ nanosheet photocatalyst. 2017 , 718, 471-477	3
771	Preparation of nanostructured ruthenium doped titania for the photocatalytic degradation of 2-chlorophenol under visible light. 2017 , 10, 194-205	27
770	Enhanced Photocatalytic Activity of NaBH ₄ -Reduced BiFeO ₃ Nanoparticles for Rhodamine B Decolorization. 2017 , 10,	71
769	Mixed Zinc/Manganese on Highly Reduced Graphene Oxide: A Highly Active Nanocomposite Catalyst for Aerial Oxidation of Benzylic Alcohols. 2017 , 7, 391	17

768	Metal Oxide/TiO ₂ Hybrid Nanotubes Fabricated through the Organogel Route. 2017 , 3,	3
767	Quantum Chemistry Applied to Photocatalysis with TiO ₂ . 2017 ,	1
766	Emerging Technologies for Wastewater Treatment. 2017 , 93-179	0
765	Copper Nanoparticles in Polyvinyl Alcohol/Acrylic Acid Matrix: An Efficient Heterogeneous Catalyst for the Regioselective Synthesis of 1,4-Disubstituted 1,2,3-Triazoles via Click Reaction. 2018 , 28, 1457-1467	14
764	Superlyophobic anti-corrosive and self-cleaning titania robust mesh membrane with enhanced oil/water separation. 2018 , 201, 193-204	143
763	Preparation of Iron Sulfide Nanomaterials from Iron(II) Thiosemicarbazone Complexes and Their Application in Photodegradation of Methylene Blue. 2018 , 28, 603-611	6
762	Size and Shape Effects on Charge Recombination Dynamics of TiO ₂ Nanoclusters. 2018 , 122, 5201-5208	24
761	Density Functional Theory Simulations of Water Adsorption and Activation on the (-201) Ga ₂ O ₃ Surface. 2018 , 24, 7445-7455	6
760	Photocatalytic reduction of CO ₂ over facet engineered TiO ₂ nanocrystals supported by carbon nanofibers under simulated sunlight irradiation. 2018 , 108, 27-32	12
759	Room temperature synthesis of urea based imidazole functionalised ZnO nanorods and their photocatalytic application. 2018 , 102, 311-318	8
758	AgBr/MgBi ₂ O ₆ heterostructured composites with highly efficient visible-light-driven photocatalytic activity. 2018 , 117, 94-100	29
757	Tunable Electronic and Optical Properties of Monolayer and Multilayer Janus MoS ₂ as a Photocatalyst for Solar Water Splitting: A First-Principles Study. 2018 , 122, 6209-6216	161
756	Roles of the Active Species Generated during Photocatalysis. 2018 , 485-498	1
755	Aerosol processing: a wind of innovation in the field of advanced heterogeneous catalysts. 2018 , 47, 4112-4155	85
754	Influence of bacterial, environmental and physical factors in design of photocatalytic reactors for water disinfection. 2018 , 366, 136-141	4
753	Study of the Bulk Charge Carrier Dynamics in Anatase and Rutile TiO ₂ Single Crystals by Femtosecond Time-Resolved Spectroscopy. 2018 , 122, 8925-8932	41
752	A dendritic TiO ₂ /Co(II) nanocomposite based on the melamine catalyzed one-pot aerobic photocatalytic synthesis of benzimidazoles. 2018 , 42, 6449-6456	15
751	Visible photocatalytic degradation of methylene blue on magnetic semiconducting La _{0.2} Sr _{0.7} Fe ₁₂ O ₁₉ . 2018 , 29, 9854-9860	3

750	Elucidating ultrafast electron dynamics at surfaces using extreme ultraviolet (XUV) reflection-absorption spectroscopy. 2018 , 54, 4216-4230	18
749	Exploration of the evolution of nanotechnology from a patent co-classification perspective. 2018 , 7, 233-245	4
748	One-step construction of heterostructured metal-organics@BiO with improved photoinduced charge transfer and enhanced activity in photocatalytic degradation of sulfamethoxazole under solar light irradiation. 2018 , 205, 396-403	9
747	Applying an activated carbon/silver catalyst to the decomposition of the aqueous solutions of tetramethyl ammonium hydroxide. 2018 , 88, 130-136	5
746	Solvent-Controlled Morphology of Catalytic Monolayers at Solid-Liquid Interfaces. 2018 , 122, 2259-2267	6
745	Preparation of high-activity AgBr/Ag ₃ PO ₄ photocatalyst based on hexadecyltrimethylammonium bromide and mechanism of photocatalytic enhancement. 2018 , 32, e4209	5
744	Biotemplated Morpho Butterfly Wings for Tunable Structurally Colored Photocatalysts. 2018 , 10, 4614-4621	38
743	Photocatalytic degradation of methylene blue by nanostructured Fe/FeS powder under visible light. 2018 , 25, 244-252	24
742	A one-pot consecutive photocatalytic reduction and oxidation system for complete debromination of tetrabromodiphenyl ether. 2018 , 345, 586-593	16
741	Synthesis, characterization and photocatalytic degradation efficiency of CdS quantum dots embedded in sodium borosilicate glasses. 2018 , 449, 221-227	27
740	VISIBLE-LIGHT-DRIVEN PHOTOCATALYSIS. 2018 , 109-173	
739	Membrane technology for water purification. 2018 , 16, 343-365	38
738	Erection of duct-like graphitic carbon nitride with enhanced photocatalytic activity for ACB photodegradation. 2018 , 51, 065501	12
737	Developing a Langmuir-type excitation equilibrium equation to describe the effect of light intensity on the kinetics of the photocatalytic oxidation. 2018 , 337, 220-227	26
736	Process intensified removal of methyl violet 2B using modified cavity-bubbles oxidation reactor. 2018 , 6, 574-582	5
735	Microwave-assisted one-step rapid synthesis of ternary Ag/Ag ₂ S/g-C ₃ N ₄ heterojunction photocatalysts for improved visible-light induced photodegradation of organic pollutant. 2018 , 353, 557-563	19
734	Properties of Single Oxygen Vacancies on a Realistic (TiO ₂) ₈₄ Nanoparticle: A Challenge for Density Functionals. 2018 , 122, 2413-2421	18
733	Promoting Charge Separation in Semiconductor Nanocrystal Superstructures for Enhanced Photocatalytic Activity. 2018 , 5, 1701694	25

732	Solar pyrolysis of waste rubber tires using photoactive catalysts. 2018 , 77, 10-21	16
731	Sea-Buckthorn-Like MnO ₂ Decorated Titanate Nanotubes with Oxidation Property and Photocatalytic Activity for Enhanced Degradation of 17 β -Estradiol under Solar Light. 2018 , 1, 2123-2133	25
730	Novel diatom-FeOx composite as highly active catalyst in photodegradation of Rhodamine-6G. 2018 , 7, 247-255	9
729	Effect of calcination temperature on the microstructure and electronic properties of TiO ₂ /ZnO nanocomposites and implications on photocatalytic activity. 2018 , 8, 915-930	8
728	Superior photocatalytic NO _x removal of cementitious materials prepared with white cement over ordinary Portland cement and the underlying mechanisms. 2018 , 90, 42-49	16
727	Structural and electronic properties of nitrogen-doped TiO ₂ nanocrystals and their effects on the adsorption of CH ₂ O and SO ₂ molecules investigated by DFT. 2018 , 15, 1431-1448	2
726	Biomimetic photonic structures with tunable structural colours: From natural to biomimetic to applications. 2018 , 15, 1-33	11
725	MOFs as Photocatalysts. 2018 , 477-501	1
724	Fe-containing nanoparticles used as effective catalysts of lignin reforming to syngas and hydrogen assisted by microwave irradiation. 2018 , 20, 1	18
723	Selective endoperoxide formation by heterogeneous TiO ₂ photocatalysis with dioxygen. 2018 , 74, 2421-2427	12
722	BiOX (X = Cl, Br, I) photocatalytic nanomaterials: Applications for fuels and environmental management. 2018 , 254, 76-93	288
721	O ₂ adsorbed on Pt _n clusters: Structure and optical absorption. 2018 , 8, 035307	3
720	One-step growth of nanosheet-assembled BiOCl/BiOBr microspheres for highly efficient visible photocatalytic performance. 2018 , 430, 639-646	97
719	Recent advances based on the synergetic effect of adsorption for removal of dyes from waste water using photocatalytic process. 2018 , 65, 201-222	332
718	Novel synthesis approaches for WO ₃ -TiO ₂ /MWCNT composite photocatalysts- problematic issues of photoactivity enhancement factors. 2018 , 300, 28-38	17
717	Heteroatom-Doped Carbonaceous Photocatalysts for Solar Fuel Production and Environmental Remediation. 2018 , 10, 62-123	32
716	Copper and platinum doped titania for photocatalytic reduction of carbon dioxide. 2018 , 430, 475-487	44
715	Prospects of banana waste utilization in wastewater treatment: A review. 2018 , 206, 330-348	115

714	Preparation and characterization of photocatalytic TiO ₂ films on functionalized stainless steel. 2018 , 53, 3341-3363	11
713	Development and assessment of photo-catalytic membranes for water purification using solar radiation. 2018 , 433, 101-107	20
712	Photocatalysis of bisphenol A by an easy-settling titania/titanate composite: Effects of water chemistry factors, degradation pathway and theoretical calculation. 2018 , 232, 580-590	69
711	DFT study on the interaction of TiO ₂ (001) surface with HCHO molecules. 2018 , 428, 954-963	18
710	Design, characterization and model validation of a LED-based photocatalytic reactor for gas phase applications. 2018 , 333, 456-466	18
709	DFT and TD-DFT insights, photolysis and photocatalysis investigation of three dyes with similar structure under UV irradiation with and without TiO as a catalyst: Effect of adsorption, pH and light intensity. 2018 , 190, 494-505	15
708	Controllable mullite bismuth ferrite micro/nanostructures with multifarious catalytic activities for switchable/hybrid catalytic degradation processes. 2018 , 509, 502-514	13
707	Nanostructured bismuth vanadate (BiVO ₄) thin films for efficient visible light photocatalysis. 2018 , 205, 325-333	38
706	Surface-Plasmon-Driven Hot Electron Photochemistry. <i>Chemical Reviews</i> , 2018 , 118, 2927-2954	68.1 661
705	Photocatalytic Selective Hydrogenation of Furfural to Furfuryl Alcohol over Titanium(IV) Oxide. 2018 , 47, 254-256	11
704	Bimetallic-graphene sandwiched core-satellite colloidal nanodendrites as an efficient visible-NIR-sun light active photo-system for carbon dioxide reduction. 2018 , 54, 1571-1574	5
703	Morphology and photocatalytic activity of porous (In, Mg) co-doped ZnO nanoparticles. 2018 , 156, 949-960	13
702	Associating low crystallinity with peroxo groups for enhanced visible light active photocatalysts. 2018 , 313, 231-238	4
701	Regulations of silver halide nanostructure and composites on photocatalysis. 2018 , 1, 269-299	17
700	Influence of crystallization conditions and of gaseous ammonia treatment on mesoporous TiO ₂ properties. 2018 , 262, 1-12	4
699	A Unique Disintegration/Reassembly Route to Mesoporous Titania Nanocrystalline Hollow Spheres with Enhanced Photocatalytic Activity. 2018 , 28, 1704208	32
698	Photocatalytic ceramic tiles: Challenges and technological solutions. 2018 , 38, 1002-1017	29
697	Basic Concepts of the Photochemistry of Semiconductor Nanoparticles. 2018 , 1-37	

696	Ni-Nanocluster Modified Black TiO with Dual Active Sites for Selective Photocatalytic CO Reduction. 2018 , 14, 1702928	80
695	Ring hydrogenation of aromatic compounds in aqueous suspensions of an Rh-loaded TiO ₂ photocatalyst without use of H ₂ gas. 2018 , 8, 139-146	15
694	. 2018 ,	6
693	One-step in situ synthesis of BiOCl/(BiO) ₂ CO ₃ composite photocatalysts with exposed high-energy {001} facets. 2018 , 20, 7838-7850	13
692	Enhanced visible light absorption performance of SnS and SnSe surface charge transfer doping.. 2018 , 8, 40464-40470	5
691	Rational design of a novel quaternary ZnO@ZnS/Ag@Ag ₂ S nanojunction system for enhanced photocatalytic H ₂ production. 2018 , 5, 3074-3081	16
690	Innovation of Coagulation-Flocculation Processes Using Biopolyelectrolytes and Zeta Potential for Water Reuse. 2018 ,	
689	Chemical Functionalization and Photo-Induced Charge Transport. 2018 , 573-581	
688	Novel Two-Dimensional Nanomaterial: High Aspect Ratio Titania Nanoflakes. 2018 ,	
687	The photocatalytic performance of Hydroxylapatite and TiO ₂ -nanobelt composites. 2018 , 186, 012032	
686	Optical and Morphological Characteristics of Nanostructured Titanium Dioxide Thin Films Prepared by DC Reactive Magnetron Sputtering Technique. 2018 , 454, 012032	
685	. 2018 ,	32
684	Photocatalytic efficiencies of Zn _{1-x} M _x O compounds synthesized with a broad panel of M elements: Responses in the UV, visible and solar range. 2018 , 6, 7273-7283	4
683	Does Polaronic Self-Trapping Occur at Anatase TiO ₂ Surfaces?. 2018 , 122, 27540-27553	23
682	A comparative assessment of the UV-photocatalytic activities of ZnO synthesized by different routes. 2018 , 6, 7161-7171	17
681	Hybrid DFT study of MWCNT/Zr-doped SrTiO ₃ heterostructure: Hydrogen production, electronic properties and charge Carrier mediator role of Zr ⁴⁺ ion. 2018 , 43, 22253-22264	8
680	Visible light driven mesoporous Mn and S co-doped TiO ₂ nano material: Characterization and applications in photocatalytic degradation of indigocarmine dye and antibacterial activity. 2018 , 10, 494-504	7
679	Janus nanostructures for heterogeneous photocatalysis. 2018 , 5, 041111	29

678	The mechanical and photocatalytic properties of modified gypsum materials. 2018 , 236-237, 1-9	9
677	The Science of Molecular Precursor Method. 2018 , 1-27	1
676	Photon and Electron Induced Macromolecular Synthesis on Insulating Surfaces. 2018 , 361-369	1
675	Construction of Z-Scheme g-C ₃ N ₄ /CNT/BiFeO ₃ Composites with Improved Simulated-Sunlight Photocatalytic Activity for the Dye Degradation. 2018 , 9,	59
674	Deposition, Ligand Removal, and Applications of Atomically Precise, Chemically Synthesized Clusters on Metal Oxide Surfaces. 2018 , 672-679	
673	Enhanced photocatalytic performance of zinc oxide nanostructures via photoirradiation hybridisation with graphene oxide for the degradation of triclosan under visible light: Synthesis, characterisation and mechanistic study. 2018 , 6, 6554-6567	11
672	Graphitic Carbon Nitride-Gallium Oxide (GCN-Ga ₂ O ₃) Nanohybrid Photocatalyst for Dinitrogen Fixation and Pollutant Decomposition. 2018 , 1, 5581-5588	21
671	Synthesis of Full-Spectrum-Response Cu ₂ (OH)PO ₄ /g-C ₃ N ₄ Photocatalyst with Outstanding Photocatalytic H ₂ O ₂ Production Performance via a Two Channel Route 2018 , 6, 14542-14553	35
670	On the effect of TiO ₂ nanocrystallites over the plasmonic photodegradation by Au nanoparticles. 2018 , 49, 1953-1960	7
669	Synthesis and Characterization of Ag/TiO ₂ Thin Film via Sol-Gel Method. 2018 , 273, 140-145	9
668	A Brief Overview of TiO ₂ Photocatalyst for Organic Dye Remediation: Case Study of Reaction Mechanisms Involved in Ce-TiO ₂ Photocatalysts System. 2018 , 2018, 1-13	61
667	WO ₃ /TiO ₂ nanocomposites for paracetamol degradation under visible light. 2018 , 8, 2021-2030	14
666	Titanium Dioxide/Graphene and Titanium Dioxide/Graphene Oxide Nanocomposites: Synthesis, Characterization and Photocatalytic Applications for Water Decontamination. 2018 , 8, 491	50
665	Hydrothermal Synthesis of Hybrid Nanoparticles for Future Directions of Renewal Energy Applications. 2018 , 319-339	
664	Heterogeneous Photocatalysis for Selective Formation of High-Value-Added Molecules: Some Chemical and Engineering Aspects. 2018 , 8, 11191-11225	119
663	The decolourisation of Methyl Orange and textile effluent under UV using commercial and synthesized nano-TiO ₂ . 2018 , 984, 012009	0
662	Synthesis and investigation on synergetic effect of rGO-ZnO decorated MoS ₂ microflowers with enhanced photocatalytic and antibacterial activity. 2018 , 559, 43-53	36
661	Carbon nitrides and metal nanoparticles: from controlled synthesis to design principles for improved photocatalysis. 2018 , 47, 7783-7817	167

660	Visible-light photoexcitation of pyridine surface complex, leading to selective dehydrogenative cross-coupling with cyclohexane. 2018 , 20, 28375-28381	6
659	Fe-ZrO ₂ imbedded graphene like carbon nitride for acarbose (ACB) photo-degradation intermediate study. 2018 , 29, 3233-3240	6
658	Visible-Light-Induced Photocatalytic Degradation of Textile Dyes over Plasmonic Silver-Modified TiO ₂ . 2018 , 389-418	7
657	TiO ₂ Assisted Photodegradation for Low Substrate Concentrations and Transition Metal Electron Scavengers. 2018 , 2, 33	1
656	Improved photocatalytic performance in Bi ₂ S ₃ -ZnSe nanocomposites for hydrogen production. 2018 , 44, 22198-22204	11
655	N/Fe-TiO ₂ doped nanoparticles loaded on bentonite for increased photocatalytic activity for the degradation of organic pollutants. 2018 ,	1
654	Efficient combined sorption/photobleaching of dyes promoted by cellulose/titania-based nanocomposite films. 2018 , 194, 167-173	29
653	Robust Multimetallic Plasmonic Core-Satellite Nanodendrites: Highly Effective Visible-Light-Induced Colloidal CO ₂ Photoconversion System. 2018 , 6, 8604-8614	13
652	A review on recent advances in photodegradation of dyes using doped and heterojunction based semiconductor metal sulfide nanostructures for environmental protection. 2018 , 9, 83-113	142
651	Solar light harvesting with multinary metal chalcogenide nanocrystals. 2018 , 47, 5354-5422	122
650	Photodegradation of the herbicide imazapyr over mesoporous In ₂ O ₃ -TiO ₂ nanocomposites with enhanced photonic efficiency. 2018 , 205, 66-73	30
649	Characterization and photocatalytic properties of lutetium ion-doped titanium dioxide photocatalyst. 2018 , 44, 4577-4594	10
648	A TiO ₂ nanocomposite hydrogel for Hydroponic plants in efficient water improvement. 2018 , 215, 242-250	9
647	A Review of Pharmaceutical Wastewater Treatment with Nanostructured Titanium Dioxide. 2018 , 133-151	
646	Influence of cation doping (Li ⁺ , Na ⁺ , K ⁺) on photocatalytic activity of MIL-53(Fe). 2018 , 53, 11694-11714	10
645	Photocatalytic chemoselective cleavage of C-O bonds under hydrogen gas- and acid-free conditions. 2018 , 54, 7298-7301	3
644	Novel one-step synthesis of nitrogen-doped TiO ₂ by flame aerosol technique for visible-light photocatalysis: Effect of synthesis parameters and secondary nitrogen (N) source. 2018 , 350, 324-334	51
643	Chitosan-Ag-TiO ₂ films: An effective photocatalyst under visible light. 2018 , 199, 31-40	44

642	Heterogeneous Photocatalysis. 2018 , 1-43	7
641	Engineering the Slow Photon Effect in Photoactive Nanoporous Anodic Alumina Gradient-Index Filters for Photocatalysis. 2018 , 10, 24124-24136	21
640	BiO - To Be or Not To Be? Comparison of the Sillenite BiO and Isomorphous Sillenite-Type BiSiO. 2018 , 57, 8540-8549	19
639	How Far Are We From Large-Scale PMR Applications?. 2018 , 233-295	2
638	Nano-TiO ₂ -P25-SO ₃ H as a new and robust photo-catalyst: The acceleration effect of selective oxidation of aromatic alcohols to aldehydes under blue LED irradiation. 2018 , 364, 516-523	15
637	Synthesis of ZnO nanostructure using activated carbon for photocatalytic degradation of methyl orange from aqueous solutions. 2018 , 8, 1	49
636	Compositional control of the photocatalytic activity of Ga ₂ O ₃ nanocrystals enabled by defect-induced carrier trapping. 2018 , 706, 509-514	9
635	Near-infrared light-induced photocatalysis of NaYF ₄ :Yb, Tm@Cu ₂ O core-shell nanocomposites. 2018 , 84, 89-93	15
634	Up-Conversion Fluorescence of Phosphorous and Nitrogen Co-Doped Carbon Quantum Dots (CDs) Coupled with Weak LED Light Source for Full-Spectrum Driven Photocatalytic Degradation via ZnO-CDs Nanocomposites. 2018 , 148, 2746-2755	27
633	Oxide Nanomaterials for Photoelectrochemical Hydrogen Energy Sources. 2018 , 145-183	5
632	Highly Active TiO ₂ Microspheres Formation in the Presence of Ethylammonium Nitrate Ionic Liquid. 2018 , 8, 279	8
631	Temperature dependent photocatalysis of g-CN, TiO and ZnO: Differences in photoactive mechanism. 2018 , 532, 321-330	40
630	CQD-Based Composites as Visible-Light Active Photocatalysts for Purification of Water. 2018 ,	1
629	Visible-light photocatalysis of PDI nanowires enhanced by plasmonic effect of the gold nanoparticles. 2018 , 239, 61-67	62
628	Synthesis and activity characteristics of visible light responsive polymer photocatalyst system with a styrene block copolymer containing TiO gel. 2018 , 532, 210-217	10
627	MOF-Derived Porous ZnO Nanocages/rGO/Carbon Sponge-Based Photocatalytic Microreactor for Efficient Degradation of Water Pollutants and Hydrogen Evolution. 2018 , 6, 11989-11998	67
626	Selective photodegradation of paracetamol by molecularly imprinted ZnO nanonuts. 2018 , 238, 509-517	60
625	Surface Engineering of Nanostructured Energy Materials. 2018 , 30, e1802091	35

624	Visible photocatalytic degradation of methylene blue on magnetic SrFe ₂ O ₉ . 2018 , 123, 157-161	37
623	Synthesis and Photocatalytic Activity of Anatase/Rutile TiO ₂ Nanoparticles by Wire Explosion Process. 2018 , 3, 189-196	5
622	Pre-Treatment of Lignocellulose for the Production of Biofuels. 2018 , 307-350	2
621	Ag ₃ PO ₄ -TiO ₂ -Graphene Oxide Ternary Composites with Efficient Photodegradation, Hydrogen Evolution, and Antibacterial Properties. 2018 , 8, 57	27
620	A Comparative Study of Gold Impregnation Methods for Obtaining Metal/Semiconductor Nanophotocatalysts: Direct Turkevich, Inverse Turkevich, and Progressive Heating Methods. 2018 , 8, 161	2
619	A stable novel nanostructure of ZnFe ₂ O ₄ based nanocomposite for improved photoelectrocatalytic and photocatalytic activities. 2018 , 823, 517-526	10
618	Titania morphologies modified gold nanoparticles for highly catalytic photoelectrochemical water splitting. 2018 , 364, 740-749	17
617	Novel Precursor-Derived Meso-/Macroporous TiO ₂ /SiO ₂ Nanocomposites with Highly Stable Anatase Nanophase Providing Visible Light Photocatalytic Activity and Superior Adsorption of Organic Dyes. 2018 , 11,	13
616	Photonic Band Gap and Bactericide Performance of Amorphous Sol-Gel Titania: An Alternative to Crystalline TiO ₂ . 2018 , 23,	16
615	Nitrogen-doped graphene and graphene quantum dots: A review on synthesis and applications in energy, sensors and environment. 2018 , 259, 44-64	196
614	Review on fabrication of graphitic carbon nitride based efficient nanocomposites for photodegradation of aqueous phase organic pollutants. 2018 , 67, 28-51	204
613	Expanding the Color Space in the Two-Color Heterogeneous Photocatalysis of Ullmann C-C Coupling Reactions. 2018 , 8, 7593-7597	23
612	Alkyd resin based hydrophilic self-cleaning surface with self-refreshing behaviour as single step durable coating. 2018 , 531, 628-641	14
611	Microstructural analysis of undoped and moderately Sc-doped TiO ₂ anatase nanoparticles using Scherrer equation and Debye function analysis. 2018 , 144, 287-296	37
610	Photocatalytic Degradation of 4-Nitrophenol by C, N-TiO ₂ : Degradation Efficiency vs. Embryonic Toxicity of the Resulting Compounds. 2018 , 6, 192	36
609	Catalytic Properties of Cadmium Sulfide Nanoparticles Obtained via Precipitation from Solutions. 2018 , 92, 1457-1462	0
608	Photocatalytic and semiconducting performance of La modified M-type lead hexaferrite. 2018 , 29, 17287-17295	
607	Core-shell structured titanium dioxide nanomaterials for solar energy utilization. 2018 , 47, 8203-8237	180

606	Defective Bi ₄ MoO ₉ /Bi metal core/shell heterostructure: Enhanced visible light photocatalysis and reaction mechanism. 2018 , 239, 619-627	97
605	The effects of nanoporous Fe ₂ O ₃ synthesized via mechano-thermal process on electrical and optical properties of zinc oxide. 2018 , 547, 120-126	6
604	Modeling, Optimization and Kinetic Study for Photocatalytic Treatment of Ornidazole Using Slurry and Fixed-Bed Approach. 2018 , 43, 6191-6202	7
603	Fundamentals of metal oxide-based photocatalysis. 2018 , 3-50	3
602	First-Principles Modeling of Polaron Formation in TiO Polymorphs. 2018 , 14, 3740-3751	50
601	Photodegradation of spent wash, a sugar industry waste, using vanadium-doped TiO nanoparticles.. 2018 , 8, 20394-20405	12
600	Structural studies on copper and nitrogen doped nanosized anatase. 2018 , 233, 867-876	7
599	Water Scarcity and Ways to Reduce the Impact. 2019 ,	4
598	Functional Nanoporous Titanium Dioxide for Separation Applications: Synthesis Routes and Properties to Performance Analysis. 2019 , 151-186	1
597	Magnetic, monodisperse titania microspheres with bimodal pore size distribution by a new sol-gel templating method and their photocatalytic activity. 2019 , 26, 419-432	
596	Screening Doping Strategies To Mitigate Electron Trapping at Anatase TiO Surfaces. 2019 , 123, 22358-22367	20
595	Photocatalytic Degradation of Azo Dye Reactive Violet 5 on Fe-Doped Titania Catalysts under Visible Light Irradiation. 2019 , 9, 645	35
594	Characteristics and photocatalytic behavior of Fe and Cu doped TiO ₂ prepared by combined sol-gel and mechanical alloying. 2019 , 96, 105975	36
593	Facile Preparation of CNT/AgS Nanocomposites with Improved Visible and NIR Light Photocatalytic Degradation Activity and Their Catalytic Mechanism. 2019 , 10,	37
592	Plasma catalytic ammonia synthesis: state of the art and future directions. 2019 , 52, 483001	47
591	A novel visible-light-driven ternary Ag@Ag ₂ O/BiOCl Z-scheme photocatalyst with enhanced removal efficiency of RhB. 2019 , 43, 13929-13937	19
590	Fundamentals of TiO Photocatalysis: Concepts, Mechanisms, and Challenges. 2019 , 31, e1901997	403
589	Application of metal oxide semiconductors in light-driven organic transformations. 2019 , 9, 5186-5232	81

588	Facile synthesis, structural and optical properties of Au-TiO ₂ plasmonic nanohybrids for photocatalytic applications. 2019 , 135, 109100	26
587	Nanocatalytic Medicine. 2019 , 31, e1901778	227
586	Oxygen vacancy regulation in Nb-doped BiWO ₄ for enhanced visible light photocatalytic activity.. 2019 , 9, 22559-22566	11
585	Ultra-fine size-controlled Pt (111) nanoparticles supported on mesoporous titania as an efficient photoelectrocatalyst for hydrogen evolution. 2019 , 495, 143525	6
584	Photo-catalytic hydrogen production over Au/g-CN: effect of gold particle dispersion and morphology. 2019 , 21, 15974-15987	13
583	Firmness and bandgap engineered anatase TiO ₂ nanoparticles for enhanced visible light photocatalytic activity. 2019 , 6, 095049	10
582	Tuning the photocatalytic activity of carbohydrate-derived humins via ball milling: Insights by experimental and chemometrics approach. 2019 , 355, 83-92	5
581	Atomic layer deposited photocatalysts: comprehensive review on viable fabrication routes and reactor design approaches for photo-mediated redox reactions. 2019 , 7, 17703-17734	19
580	Synthesis and Photocatalytic Study of Ferrocenium Ion Incorporated Lacunary Keggin Hybrid Material. 2019 , 4, 10884-10894	4
579	Photocatalysis and Energy Cost Analysis of Vanadia Titania Thin Films Synthesis. 2019 ,	0
578	Perylene-Grafted Silicas: Mechanistic Study and Applications in Heterogeneous Photoredox Catalysis. 2019 , 25, 14928-14934	6
577	Computational Studies of Photocatalysis with MetalOrganic Frameworks. 2019 , 2, 251-263	37
576	A facile band alignment with sharp edge morphology accelerating the charge transportation for visible light photocatalytic degradation: A multiplex synergy. 2019 , 32, 100985	9
575	TiO ₂ Nanofilms on Polymeric Substrates for the Photocatalytic Degradation of Methylene Blue. 2019 , 2, 7237-7244	21
574	Confirming the Formation of Hydroxyl Radicals in the Catalytic Decomposition of H ₂ O ₂ on Metal Oxides Using Coumarin as a Probe. 2019 , 11, 5435-5438	16
573	A Novel Photo-Driven Hydrogenation Reaction of an NAD-Type Complex Toward Artificial Photosynthesis. 2019 , 7, 580	1
572	Preparation of concentrated multilayer graphene dispersions and TiO ₂ -graphene composites for enhanced hydrogen production. 2019 , 98, 107516	0
571	Recent advancements in photocatalyst-based platforms for the destruction of gaseous benzene: Performance evaluation of different modes of photocatalytic operations and against adsorption techniques. 2019 , 41, 100316	52

570	Titanium dioxide-modified polyetherimide nanofiber membrane for water treatment. 2019 , 32, 100970	14
569	Green synthesis of TiO ₂ nanoparticles using orange peel extract for antibacterial, cytotoxicity and humidity sensor applications. 2019 , 8, 323-331	43
568	Reduced graphene oxide (RGO) on TiO ₂ for an improved photoelectrochemical (PEC) and photocatalytic activity. 2019 , 190, 185-194	61
567	Visible-light-induced degradation of rhodamine B by nanosized AgS-ZnS loaded on cellulose. 2019 , 18, 148-154	37
566	Near-infrared light-driven photocatalytic NaYF ₃ :Yb,Tm@ZnO core/shell nanomaterials and their performance.. 2019 , 9, 3688-3692	20
565	Photocatalytic degradation of acetaminophen over Ag, Au and Pt loaded TiO ₂ using solar light. 2019 , 374, 185-193	53
564	Enhancement of photocatalytic activity and regeneration of Fe-doped TiO ₂ (Ti _{1-x} Fe _x O ₂) nanocrystalline particles synthesized using inexpensive TiO ₂ precursor. 2019 , 45, 1883-1906	3
563	Ion exchange synthesis of Ag ⁺ incorporated LiAlO ₂ and its application in photodegradation of organic dyes. 2019 , 1, 1	1
562	Recent Advances in the Use of Black TiO for Production of Hydrogen and Other Solar Fuels. 2019 , 20, 1272-1281	25
561	Computational Approaches to Photoelectrode Design through Molecular Functionalization for Enhanced Photoelectrochemical Water Splitting. 2019 , 12, 1858-1871	6
560	Optimization of Photocatalytic Degradation of Acid Blue 113 and Acid Red 88 Textile Dyes in a UV-C/TiO ₂ Suspension System: Application of Response Surface Methodology (RSM). 2019 , 9, 360	50
559	Photocatalysis and Photodegradation of Pollutants. 2019 , 449-488	2
558	Exploring a broadened operating pH range for norfloxacin removal via simulated solar-light-mediated Bi ₂ WO ₆ process. 2019 , 40, 673-680	12
557	Electrospun TiO ₂ -based nanofiber composites and their bio-related and environmental applications. 2019 , 307-321	3
556	Hyperbranched Conjugated Polymer Dots: The Enhanced Photocatalytic Activity for Visible Light-Driven Hydrogen Production. 2019 , 52, 4376-4384	34
555	Selective photocatalytic CO reduction on copper-titanium dioxide: a study of the relationship between CO production and H suppression. 2019 , 55, 8068-8071	30
554	Adsorption Features of Formaldehyde on TiO(110) Surface Probed by High-Resolution Scanning Tunnelling Microscopy. 2019 , 10, 3352-3358	8
553	Photocatalytic activity of TiO ₂ nanoparticles: a theoretical aspect. 2019 , 7, 13833-13859	84

552	Neuartige Quencher für photokatalytische Reaktionen. 2019 ,	
551	Caloric Effects in Perovskite Oxides. 2019 , 6, 1900291	28
550	Koopmans Meets Bethe-Salpeter: Excitonic Optical Spectra without GW. 2019 , 15, 3710-3720	9
549	Hydrogen Photosynthesis through Schottky Junction of RGO-NiPO and the Perspective of the Mechanism. 2019 , 7, 10052-10063	11
548	Photocatalytic Selective Ring Hydrogenation of Phenol to Cyclohexanone over a Palladium-Loaded Titanium(IV) Oxide under Hydrogen-Free Conditions. 2019 , 3, 559-567	4
547	Sub-10-nm Mixed Titanium/Tantalum Oxide Nanoporous Films with Visible-Light Photocatalytic Activity for Water Treatment. 2019 , 2, 1951-1963	8
546	Exploitation of Nanoparticles as Photocatalysts for Clean and Environmental Applications. 2019 , 279-319	1
545	Enhanced Heterogeneous Nanocatalysis on a Nanoporous Gold Disk Array with High-Density Hot Spots. 2019 , 11, 13499-13506	21
544	Titanium-Dioxide-Based Visible-Light-Sensitive Photocatalysis: Mechanistic Insight and Applications. 2019 , 9, 201	47
543	Modeling of volatile organic compounds degradation by photocatalytic oxidation reactor in indoor air: A review. 2019 , 154, 309-323	40
542	Recent advances in round-the-clock photocatalytic system: Mechanisms, characterization techniques and applications. 2019 , 39, 58-75	19
541	Radical Cation Diels-Alder Reactions by TiO Photocatalysis. 2019 , 21, 2246-2250	21
540	Synthesis of silver-loaded ZnO nanorods and their enhanced photocatalytic activity and photoconductivity study. 2019 , 18, 1503-1511	33
539	Ag ₂ S Quantum Dots as an Infrared Excited Photocatalyst for Hydrogen Production. 2019 , 2, 2751-2759	30
538	Preparation of Visible Light Photocatalytic Graphene Embedded Rutile Titanium(IV) Oxide Composite Nanowires and Enhanced NO _x Removal. 2019 , 9, 170	27
537	High-Energy Electron-Beam-Induced Evolution of Secondary Phase and Enhanced Photocatalytic Activity in Monoclinic BiEuWO ₆ Nanoparticles. 2019 , 123, 10881-10892	3
536	In-situ creating elastic lattice O-O bonds over semicrystalline yellow TiO nanoparticles for significantly enhanced photocatalytic H ₂ production. 2019 , 374, 287-295	6
535	Unpacking the toolbox of two-dimensional nanostructures derived from nanosphere templates. 2019 , 6, 1380-1408	12

- 534 The use of response surface methodology to determine governing factors driving a nanodiamond-based wastewater treatment method. **2019**, 38, 246-253
- 533 Impact of remnant surface polarization on photocatalytic and antibacterial performance of BaTiO₃. **2019**, 39, 2915-2922 35
- 532 Easy and convenient synthesis of CNT/TiO₂ nanohybrid by in-surface oxidation of Ti³⁺ ions and application in the photocatalytic degradation of organic contaminants in water. **2019**, 251, 1-14 28
- 531 Structure and Optical Properties of TiO₂ Thin Films Prepared by a Sol-Gel Processing. **2019**, 74, 635-642 1
- 530 Hydrogen-free ring hydrogenation of phenol to cyclohexanol over a rhodium-loaded titanium(IV) oxide photocatalyst. **2019**, 578, 83-88 10
- 529 Bleached Wood Supports for Floatable, Recyclable, and Efficient Three Dimensional Photocatalyst. **2019**, 9, 115 6
- 528 Preparation of Catalysts and Photocatalysts Used for Similar Processes. **2019**, 25-56 6
- 527 S-, N- and C-doped ZnO as semiconductor photocatalysts: A review. **2019**, 13, 1-22 65
- 526 Kinetic Aspects of Heterogeneous Catalytic Versus Photocatalytic Reactions. **2019**, 215-233
- 525 Studies on structural, optical and thermal properties of Fe₃O₄ (NR)/ZrO₂ CSNCs synthesized via green approach for photodegradation of dyes. **2019**, 45, 2657-2671 10
- 524 Rapid nanofabrication via UV-assisted selective etching on GaAs without templates. **2019**, 717, 152-157 9
- 523 Cooperative desorption of H₂O and CO from photo-excited cobalt oxide clusters: The evidence of photo-catalytic coupling. **2019**, 719, 72-77 1
- 522 Zr doped mesoporous LaTaON₂ for efficient photocatalytic water splitting. **2019**, 7, 5702-5711 35
- 521 Coumarin as a Quantitative Probe for Hydroxyl Radical Formation in Heterogeneous Photocatalysis. **2019**, 123, 6667-6674 28
- 520 Nanostructured Fe,Co-Codoped MoO₃ Thin Films. **2019**, 10, 8
- 519 Designed synthesis of a p-Ag₂S/n-PDI self-assembled supramolecular heterojunction for enhanced full-spectrum photocatalytic activity. **2019**, 7, 6482-6490 67
- 518 Functional titania/silica/chlorophyllin hybrids: design, fabrication, comprehensive physicochemical characteristic and photocatalytic test. **2019**, 25, 485-499 5
- 517 Enhanced photocatalytic properties of TiO₂ nanosheets@2D layered black phosphorus composite with high stability under hydro-oxygen environment. **2019**, 11, 5674-5683 29

516	Enhancement of Photocatalytic Activity of Sodium Bismuth Titanate by Doping with Copper, Silver, and Tin Ions. 2019 , 645, 529-536	12
515	Kinetic Study on Photocatalytic Degradation of Phenol Using Green Electrosynthesized TiO ₂ Nanoparticles. 2019 , 19, 1261-1266	30
514	Light-confining semiconductor nanoporous anodic alumina optical microcavities for photocatalysis. 2019 , 7, 22514-22529	13
513	Photo-induced Charge Separation and Photoredox Catalysis in Cerium-Based Metal-Organic Frameworks. 2019 , 309-326	3
512	Effective ways to enhance the photocatalytic activity of ZnO nanopowders: high crystalline degree, more oxygen vacancies, and preferential growth. 2019 , 43, 19223-19231	10
511	Electrochemical Engineering of Nanoporous Materials for Photocatalysis: Fundamentals, Advances, and Perspectives. 2019 , 9, 988	9
510	Modification in ZnO film properties by 250 keV cobalt implantation. 2019 , 6, 126428	2
509	Photoinduced electron transfer in semiconductor/clay binary nanosheet colloids controlled by clay particles as a turnout switch. 2019 , 241, 499-505	9
508	Kinetic study of Z-scheme C ₃ N ₄ /CuWO ₄ photocatalyst towards solar light inactivation of mixed populated bacteria. 2019 , 372, 108-121	35
507	Sn-doped and porogen-modified TiO ₂ photocatalyst for solar light elimination of sulfure diethyle as a model for chemical warfare agent. 2019 , 245, 279-289	31
506	Switching on efficient photocatalytic water oxidation reactions over CaNbO ₂ N by Mg modifications under visible light illumination. 2019 , 245, 10-19	13
505	Effect of Substituents on TiO ₂ Photocatalytic Oxidation of trans-Stilbenes. 2019 , 92, 55-60	2
504	Visible Light-Driven, One-pot Amide Synthesis Catalyzed by the B Model Complex under Aerobic Conditions. 2019 , 84, 237-240	8
503	Smart photoactive soft materials for environmental cleaning and energy production through incorporation of nanophotocatalyst on polymers and textiles. 2019 , 30, 235-253	13
502	Controllable fabrication of homogeneous ZnO p-n junction with enhanced charge separation for efficient photocatalysis. 2019 , 335, 151-159	41
501	Hierarchical rutile/anatase TiO ₂ nanorod/nanoflower thin film: Synthesis and characterizations. 2019 , 93, 252-259	15
500	Recent Progress on Engineering Highly Efficient Porous Semiconductor Photocatalysts Derived from Metal-Organic Frameworks. 2019 , 11, 1	188
499	Fabrication of high efficiency visible light Z-scheme heterostructure photocatalyst g-C ₃ N ₄ /FeO(1%)/TiO ₂ and degradation of rhodamine B and antibiotics. 2019 , 96, 463-472	24

498	Rational Management of Photons for Enhanced Photocatalysis in Structurally-Colored Nanoporous Anodic Alumina Photonic Crystals. 2019 , 2, 1169-1184	15
497	Black TiO ₂ nanotube arrays decorated with Ag nanoparticles for enhanced visible-light photocatalytic oxidation of salicylic acid. 2019 , 776, 883-896	45
496	Facile synthesis of zinc oxide crystal and insight into its morphological effect on organic dye photodegradation in water. 2019 , 9, 93-103	9
495	Influence of Surface-Related Phenomena on Mechanism, Selectivity, and Conversion of TiO ₂ -Induced Photocatalytic Reactions. 2019 , 12, 589-602	21
494	Photocatalytic degradation of amoxicillin via TiO ₂ nanoparticle coupling with a novel submerged porous ceramic membrane reactor. 2019 , 209, 755-761	62
493	A Sustainable Approach for the Synthesis of Catalytically Active Peroxidase-Mimic ZnS Catalysts. 2019 , 7, 1300-1307	14
492	Synergistic Effect of the Electronic Structure and Defect Formation Enhances Photocatalytic Efficiency of Gallium Tin Oxide Nanocrystals. 2019 , 123, 433-442	7
491	Performance Enhancement of Graphene Photodetectors via In Situ Preparation of TiO ₂ on Graphene Channels. 2019 , 4, 1800548	8
490	Heterogeneous photocatalysis: guidelines on experimental setup, catalyst characterization, interpretation, and assessment of reactivity. 2019 , 61, 163-213	33
489	Heterogeneous Photocatalyzed C ₆₀ Cross-coupling Reactions Under Visible-light and Near-infrared Light Irradiation. 2019 , 11, 669-683	29
488	Reduced graphene oxide supported MnO ₂ nanorods as recyclable and efficient adsorptive photocatalysts for pollutants removal. 2019 , 160, 333-346	61
487	Mesoporous pyrophyllite/TiO ₂ nanocomposites: synthesis and activity in phenol photocatalytic degradation. 2019 , 45, 333-353	14
486	Drastic improvement in catalytic, optical and visible-light photocatalytic behavior of cobalt and nickel doped TiO ₂ nanopowder. 2019 , 6, 015003	11
485	Uniform Mesoporous Anatase Hollow Spheres: An Unexpectedly Efficient Fabrication Process and Enhanced Performance in Photocatalytic Hydrogen Evolution. 2019 , 25, 10965-10970	12
484	Nanocasting synthesis of chromium doped mesoporous CeO with enhanced visible-light photocatalytic CO reduction performance. 2019 , 372, 69-76	45
483	Influence of the preparation method and ZnO/(ZnO + TiO ₂) weight ratio on the physicochemical and photocatalytic properties of ZnO-TiO ₂ nanomaterials. 2019 , 321-322, 41-51	37
482	2D inorganic nanosheet-based hybrid photocatalysts: Design, applications, and perspectives. 2019 , 40, 150-190	57
481	The photocatalytic activity of rutile and anatase TiO ₂ electrodes modified with plasmonic metal nanoparticles followed by photoelectrochemical measurements. 2019 , 321-322, 52-58	17

480	Can the photocatalyst TiO ₂ be incorporated into a wastewater treatment method? Background and prospects. 2020 , 340, 334-346	62
479	TiO ₂ -Based Photocatalysis at the Interface with Biology and Biomedicine. 2020 , 21, 294-309	13
478	Nanocarbons-Supported and Polymers-Supported Titanium Dioxide Nanostructures as Efficient Photocatalysts for Remediation of Contaminated Wastewater and Hydrogen Production. 2020 , 139-169	25
477	Nanophotocatalysis and Environmental Applications. 2020 ,	5
476	Synthesized and Photocatalytic Mechanism of the NiO Supported YMnO ₃ Nanoparticles for Photocatalytic Degradation of the Methyl Orange Dye. 2020 , 234, 153-170	9
475	Use of Novel Nanostructured Photocatalysts for the Environmental Sustainability of Wastewater Treatments. 2020 , 949-964	15
474	Titanium-di-oxide (TiO ₂) concentration-dependent optical and morphological properties of PAni-TiO ₂ nanocomposite. 2020 , 105, 104745	6
473	Enhanced photocatalytic performance of Cu ₂ O nano-photocatalyst powder modified by ball milling and ZnO. 2020 , 31, 40-50	27
472	ZnAl ₂ O ₄ /Bi ₂ MoO ₆ heterostructures with enhanced photocatalytic activity for the treatment of organic pollutants and eucalyptus chemimechanical pulp wastewater. 2020 , 241, 122299	8
471	Principles and Mechanisms of Green Photocatalysis. 2020 , 1-24	4
470	Photocatalytic and photothermocatalytic applications of cerium oxide-based materials. 2020 , 109-167	8
469	Two-dimensional ultrathin BiOCl nanosheet/graphene heterojunction with enhanced photocatalytic activity. 2019 , 31, 085706	7
468	Hydroxypropyl methylcellulose-TiO ₂ and gelatin-TiO ₂ nanocomposite films: Physicochemical and structural properties. 2020 , 151, 944-956	18
467	Applications of Plasmon-Enhanced Nanocatalysis to Organic Transformations. <i>Chemical Reviews</i> , 2020 , 120, 986-1041	68.1 169
466	Wide-bandgap HfO ₂ -V ₂ O ₅ nanowires heterostructure for visible light-driven photocatalytic degradation. 2020 , 103, 2252-2261	8
465	Addressing the Reproducibility of Photocatalytic Carbon Dioxide Reduction. 2020 , 12, 1603-1608	6
464	A review of the influence of humidity on photocatalytic decomposition of gaseous pollutants on TiO ₂ -based catalysts. 2020 , 98, 263-273	14
463	Gas-Liquid-Solid interface enhanced photocatalytic reaction in a microfluidic reactor for water treatment. 2020 , 591, 117410	9

462	Conversion of Carbon Dioxide into Hydrocarbons Vol. 1 Catalysis. 2020 ,	2
461	Metal-organic frameworks and their derivatives with graphene composites: preparation and applications in electrocatalysis and photocatalysis. 2020 , 8, 2934-2961	93
460	Synergistic interaction in metal oxide/silicon bulk heterostructures for efficient photo-carrier generation and photodegradation of toxic dye contaminants. 2020 , 8, 103672	1
459	Nanoscale boron carbonitride semiconductors for photoredox catalysis. 2020 , 12, 3593-3604	16
458	Insight into Design of MIL-125(Ti)-Based Composite with Boosting Photocatalytic Activity: The Embedded Multiple Fe Oxide Count. 2020 , 7, 1901449	6
457	Pompon Dahlia-like Cu ₂ O/rGO Nanostructures for Visible Light Photocatalytic H ₂ Production and 4-Chlorophenol Degradation. 2020 , 12, 1699-1709	16
456	Metal Clusters on Semiconductor Surfaces and Application in Catalysis with a Focus on Au and Ru. 2020 , 32, e1904122	11
455	Titania-loaded cellulose-based functional hybrid nanomaterial for photocatalytic degradation of toxic aromatic dye in water. 2020 , 33, 101062	19
454	A Comparative Evaluation of Physicochemical Properties and Photocatalytic Efficiencies of Cerium Oxide and Copper Oxide Nanofluids. 2020 , 10, 34	8
453	Aggregation-induced photocatalytic activity and efficient photocatalytic hydrogen evolution of amphiphilic rhodamines in water. 2020 , 11, 11843-11848	5
452	Advances in dynamically controlled catalytic reaction engineering. 2020 , 5, 2185-2203	4
451	Photochromic Behavior of ZnO/MoO Interfaces. 2020 , 12, 46972-46980	7
450	A critical review of metal-doped TiO ₂ and its structure-physical properties-photocatalytic activity relationship in hydrogen production. 2020 , 45, 28553-28565	22
449	Adsorption and photocatalytic characteristics of cobalt ferrite-reduced graphene oxide and cobalt ferrite-carbon nanotube nanocomposites. 2020 , 403, 112867	15
448	Fabrication of graphene nanosheets decorated by nitrogen-doped ZnO nanoparticles with enhanced visible photocatalytic activity for the degradation of Methylene Blue dye. 2020 , 317, 114112	26
447	Small Polarons and Surface Defects in Metal Oxide Photocatalysts Studied Using XUV Reflection-Absorption Spectroscopy. 2020 , 124, 22853-22870	8
446	Architecting epitaxial-lattice-mismatch-free (LMF) zinc oxide/bismuth oxyiodide nano-heterostructures for efficient photocatalysis. 2020 , 8, 11263-11273	9
445	Fe-doped TiO ₂ nanomaterials for water depollution. 2020 , 265-313	1

444	Unraveling the quantum dynamics origin of high photocatalytic activity in nitrogen-doped anatase TiO ₂ : time-domain ab initio analysis. 2020 , 8, 25235-25244	6
443	LiClO ₄ /TiO ₂ nanotubes ceramic films with highly efficient visible light - Driven photocatalytic active for bisphenol A degradation and efficient regeneration process. 2020 , 46, 26492-26501	5
442	Enabling future nanomanufacturing through block copolymer self-assembly: A review. 2020 , 35, 100936	52
441	Preparation and characterization of noble metal modified titanium dioxide hollow spheres [New insights concerning the light trapping efficiency. 2020 , 534, 147327	7
440	Enhanced antibacterial activity and photocatalytic degradation of organic dyes under visible light using cesium lead iodide perovskite nanostructures prepared by hydrothermal method. 2020 , 253, 117526	39
439	Facile mechano-chemical synthesis and enhanced photocatalytic performance of Cu ₂ ZnSnS ₄ nanopowder. 2020 , 46, 26715-26723	5
438	Visible light driven photooxidation of imazapyr herbicide over highly efficient mesoporous Ag/Ag ₂ O/TiO ₂ p-n heterojunction photocatalysts. 2020 , 46, 25822-25832	15
437	Fine Control of the Chemistry of Nitrogen Doping in TiO ₂ : A Joint Experimental and Theoretical Study. 2020 , 124, 17401-17412	7
436	Visible light-driven ZnO/g-C ₃ N ₄ /carbon xerogel ternary photocatalyst with enhanced activity for 4-chlorophenol degradation. 2020 , 256, 123651	13
435	Visible-Light-Activated C-C Bond Cleavage and Aerobic Oxidation of Benzyl Alcohols Employing BiMXO (M=Mg, Cd, Ni, Co, Pb, Ca and X=V, P). 2020 , 15, 3104-3115	5
434	Dynamic Control of Elementary Step Energetics via Pulsed Illumination Enhances Photocatalysis on Metal Nanoparticles. 2020 , 5, 3518-3525	18
433	Visible-light-driven photocatalytic selective organic oxidation reactions. 2020 , 8, 20897-20924	28
432	Improved Production of Phenol from Benzene by Photocatalytic Reaction Using TiO ₂ Powder Treated with HF and a Reaction System Having a Benzene/Water Interface. 2020 , 49, 1298-1301	1
431	Development of phthalocyanine functionalised TiO ₂ and ZnO nanofibers for photodegradation of methyl orange. 2020 , 44, 16340-16350	8
430	Aluminum-Doped Cobalt Ferrite as an Efficient Photocatalyst for the Abatement of Methylene Blue. 2020 , 12, 2285	10
429	Enhanced photocathodic antifouling/antibacterial properties of polyaniline/Ag-doped TiO ₂ coatings. 2020 , 55, 16255-16272	3
428	Engineering of Broadband Nanoporous Semiconductor Photonic Crystals for Visible-Light-Driven Photocatalysis. 2020 , 12, 57079-57092	5
427	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

426	Peroxymonosulfate Activation on a Hybrid Material of Conjugated PVC and TiO ₂ Nanotubes for Enhancing Degradation of Rhodamine B under Visible Light. 2020 , 2020, 1-9	2
425	Copper phosphate compounds with visible-to-near-infrared-active photo-fenton-like photocatalytic properties. 2020 , 103, 5120-5128	9
424	Facile template free approach for the large-scale solid phase synthesis of nanocrystalline XIn ₂ S ₄ (X = Cd/Zn) and its photocatalytic performance for H ₂ evolution. 2020 , 44, 9634-9646	2
423	Bioremediation and Biotechnology, Vol 2. 2020 ,	0
422	Electrospinning Combined with Atomic Layer Deposition to Generate Applied Nanomaterials: A Review. 2020 , 3, 6186-6209	7
421	Improved Photocatalyzed Degradation of Phenol, as a Model Pollutant, over Metal-Impregnated Nanosized TiO. 2020 , 10,	10
420	The use of nanocatalysts (and nanoparticles) for water and wastewater treatment by means of advanced oxidation processes. 2020 , 241-264	2
419	Anionic and cationic pollutants degradation via TiO ₂ nanoleafed nanorods. 2020 , 105, 106263	2
418	Recent Advancement in Visible-Light-Responsive Photocatalysts in Heterogeneous Photocatalytic Water Treatment Technology. 2020 , 167-196	12
417	Strategies and insights towards the high performance visible light photocatalytic activity of MnO ₂ /PPy hybrid catalysts: challenges and perspectives. 2020 , 31, 11955-11966	2
416	Solution-Based Comproportionation Reaction for Facile Synthesis of Black TiO ₂ Nanotubes and Nanoparticles. 2020 , 3, 6087-6092	5
415	Highly efficient oxidation of Panzhihua titanium slag for manufacturing welding grade rutile titanium dioxide. 2020 , 9, 7079-7086	9
414	Advances in thermocatalytic and photocatalytic techniques for the room/low temperature oxidative removal of formaldehyde in air. 2020 , 399, 125759	23
413	Deoxygenation of Pyridine N-Oxides in Water at Room Temperature Using TiO ₂ Photocatalyst and Oxalic Acid as a Clean Hydrogen Source. 2020 , 59, 11412-11418	3
412	Photocatalytic visible-light-driven removal of the herbicide imazapyer using nanocomposites based on mesoporous TiO ₂ modified with Gd ₂ O ₃ . 2020 , 10, 3773-3786	2
411	Luminescent Properties of Al ₂ O ₃ :xEu obtained by Rapid Combustion Synthesis. 2020 , 842, 012011	
410	Nanostructured materials for photocatalytic energy conversion. 2020 , 325-343	0
409	Comparison of Ga ₂ O ₃ and TiO ₂ Nanostructures for Photocatalytic Degradation of Volatile Organic Compounds. 2020 , 10, 545	6

408	Preparation and Photocatalytic Properties of N-Doped Graphene/TiO ₂ Composites. 2020 , 2020, 1-10	5
407	An overview of synthesis techniques for preparing doped photocatalysts. 2020 , 1-13	
406	Tailor-engineered plasmonic single-lattices: harnessing localized surface plasmon resonances for visible-NIR light-enhanced photocatalysis. 2020 , 10, 3195-3211	3
405	Excitonic Effects in Polymeric Photocatalysts. 2020 , 59, 22828-22839	28
404	Recent advances in homojunction-based photocatalysis for sustainable environmental remediation and clean energy generation. 2020 , 20, 100741	10
403	Photocatalytic Evaluation of Bi-doped TiO/TiO ₂ under Solar Irradiation. 2020 , 842, 012014	
402	Challenges and prospects for the photocatalytic liquefaction of methane into oxygenated hydrocarbons. 2020 , 131, 110024	12
401	Boosted Activity for Toluene Selective Photooxidation over Fe-Doped Bi ₂ WO ₆ . 2020 , 59, 13528-13538	13
400	Excitonic Effects in Polymeric Photocatalysts. 2020 , 132, 23024-23035	9
399	Sterilization of by Photothermal Synergy of WO ₃ /C Nanosheet under Infrared Light Irradiation. 2020 , 54, 3691-3701	36
398	Enhanced visible-light photocatalytic activity of anatase-rutile mixed-phase nano-size powder given by high-temperature heat treatment. 2020 , 7, 191539	10
397	The critical role of furfural alcohol in photocatalytic H ₂ O ₂ production on TiO ₂ . 2020 , 269, 118770	40
396	Strategic harmonization of silica shell stabilization with Pt embedding on AuNPs for efficient artificial photosynthesis. 2020 , 8, 5734-5743	6
395	Preparation of a Ti _{0.7} W _{0.3} O ₂ /TiO ₂ nanocomposite interfacial photocatalyst and its photocatalytic degradation of phenol pollutants in wastewater. 2020 , 2, 425-437	1
394	Recent Advances in Selective Photo-Epoxidation of Propylene: A Review. 2020 , 10, 87	7
393	COD removal from industrial spent caustic wastewater: A review. 2020 , 8, 103678	22
392	Effect of silver doping on the photocatalytic activity of TiO ₂ nanopowders synthesized by the sol-gel route. 2020 , 8, 103718	30
391	Review of the development of copper oxides with titanium dioxide thin-film solar cells. 2020 , 10, 010701	25

390	ZnAl ₂ O ₄ /BiPO ₄ composites as a heterogeneous catalyst for photo-Fenton treatment of textile and pulping wastewater. 2020 , 239, 116574	16
389	UVC irradiation based water treatment. 2020 , 95-128	0
388	Process intensification technologies for CO ₂ capture and conversion: A review. 2020 , 2,	29
387	Influence of parameters and radical scavengers on the visible-light-induced degradation of ciprofloxacin in ZnO/SnS nanocomposite suspension: Identification of transformation products. 2020 , 253, 126689	22
386	How thermal stability of ionic liquids leads to more efficient TiO ₂ -based nanophotocatalysts: Theoretical and experimental studies. 2020 , 572, 396-407	10
385	Photocatalytic Reductive Defluorination of Fluorinated Compounds in Aqueous Alcohol Suspensions of a Metal-loaded Titanium(IV) Oxide. 2020 , 12, 3298-3305	3
384	Clarifying the roles of hydrothermal treatment and silica addition to synthesize TiO ₂ -based nanocomposites with high photocatalytic performance. 2020 , 95, 119-135	5
383	Charge carrier transfer in photocatalysis. 2020 , 103-159	1
382	Carbon-supported semiconductor nanoparticles as effective photocatalysts for water and wastewater treatment. 2020 , 245-278	2
381	One-step fabrication of TiO ₂ /Ti foil annular photoreactor for photocatalytic degradation of formaldehyde. 2020 , 394, 124917	20
380	Nanocrystalline transition metal oxides and their composites with reduced graphene oxide and carbon nanotubes for photocatalytic applications. 2020 , 46, 16480-16492	12
379	High photocatalytic activity of magnetically separable ZnO and Ag/ZnO supported on Mg-ferrite nanoparticles. 2020 , 394, 112489	1
378	Solution-combustion synthesis of anion (iodine) doped TiO ₂ nanoparticles for photocatalytic degradation of Direct Blue 199 dye and regeneration of used photocatalyst. 2020 , 396, 112532	12
377	In situ synthesis of nanosized TiO ₂ in polypropylene solution for the production of films with antibacterial activity. 2020 , 246, 122824	5
376	Elongation of ZnWO ₄ nanocrystals for enhanced photocatalysis and the effects of Ag decoration. 2020 , 515, 146011	10
375	Light-responsive nanozymes for biosensing. 2020 , 145, 4388-4397	25
374	Engineered Superparamagnetic Core-Shell Metal-Organic Frame-Work (Fe ₃ O ₄ @NiCo-BTC NPs) with Enhanced Photocatalytic Activity for Selective Aerobic Oxidation of Alcohols Under Solar Light Irradiation. 2021 , 151, 107-123	4
373	Preparation, characterization, and photocatalytic activity under UV and visible light of Co, Mn, and Ni mono-doped and (P,Mo) and (P,W) co-doped TiO ₂ nanoparticles: a comparative study. 2021 , 28, 25130-25145 ¹²	12

372	A review on multicomponent reactions catalysed by zero-dimensional/one-dimensional titanium dioxide (TiO) nanomaterials: Promising green methodologies in organic chemistry. 2021 , 279, 111603	11
371	Photocatalytic decomposition of A549-lung cancer cells by TiO ₂ nanoparticles. 2021 , 37, 1071-1074	2
370	Photocatalytic-membrane technology: a critical review for membrane fouling mitigation. 2021 , 93, 101-116	43
369	Fundamentals and recent applications of catalyst synthesis using flame aerosol technology. 2021 , 405, 126958	6
368	Recent advances in photocatalytic removal of organic and inorganic pollutants in air. 2021 , 278, 123895	37
367	The state of the field: from inception to commercialization of metal-organic frameworks. 2021 , 225, 9-69	22
366	Synergistic effect of TiO ₂ /chitosan/glycerol photocatalyst on color and COD removal from a dyeing and textile secondary effluent. 2021 , 21, 101255	8
365	Influence of polyaniline on the photocatalytic properties of metal nanocomposites: A review. 2021 , 40, 100339	14
364	Semiconductor based photocatalysts for detoxification of emerging pharmaceutical pollutants from aquatic systems: A critical review. 2021 , 3, 25-46	24
363	The application of Zeolitic imidazolate frameworks (ZIFs) and their derivatives based materials for photocatalytic hydrogen evolution and pollutants treatment. 2021 , 417, 127914	30
362	Simultaneous introduction of 0D Bi nanodots and oxygen vacancies onto 1D Bi ₆ Mo ₂ O ₁₅ sub-microwires for synergistically enhanced photocatalysis. 2021 , 409, 128098	16
361	Synthesis, characterization and photocatalytic performance of W impregnated g-CN for the removal of chlorophenol derivatives in natural sunlight exposure. 2021 , 265, 129135	4
360	Development of a rapid method for assessing the efficacy of antibacterial photocatalytic coatings. 2021 , 225, 122009	1
359	Enhanced photocatalytic activities of NiS decorated reduced graphene oxide for hydrogen production and toxic dye degradation under visible light irradiation. 2021 , 46, 6532-6546	9
358	Mn _{1-x} Cu _x O ₂ / reduced graphene oxide nanocomposites: Synthesis, characterization, and evaluation of visible light mediated catalytic studies. 2021 , 47, 5044-5053	40
357	Near-Infrared-Driven Photocatalysts: Design, Construction, and Applications. 2021 , 17, e1904107	37
356	Nanotitanium photocatalytic technology in wastewater treatment. 2021 , 739-758	
355	Inverse-designed semiconductor nanocatalysts for targeted CO reduction in water. 2021 , 13, 10024-10034	2

354	Orienting Z scheme charge transfer in graphitic carbon nitride-based systems for photocatalytic energy and environmental applications. 2021 , 9, 10039-10080	25
353	Effect of operating parameters on photocatalytic degradation of dyes by using graphitic carbon nitride. 2021 , 23-43	1
352	Artificial Z-scheme-based photocatalysts: design strategies and approaches. 2021 , 165-186	
351	Semiconductor @ sensitizer composites for enhanced photoinduced processes. 2021 , 183-209	0
350	Cation disorder and octahedral distortion control of internal electric field, band bending and carrier lifetime in Aurivillius perovskite solid solutions for enhanced photocatalytic activity.	4
349	Growth of macroporous TiO ₂ on B-doped g-C ₃ N ₄ nanosheets: a Z-scheme photocatalyst for H ₂ O ₂ production and phenol oxidation under visible light. 2021 , 8, 1489-1499	13
348	Applications of MAX phases and MXenes as catalysts. 2021 , 9, 19589-19612	10
347	Theoretical study on the anisotropic photo-induced carrier mobilities in layered double hydroxide-based photocatalysts. 2021 , 9, 20466-20482	1
346	Halide perovskite composites for photocatalysis: A mini review. 2021 , 3, e12079	23
345	Introduction of water remediation processes. 2021 , 741-777	
344	CoAl ₂ O ₄ ∥TiO ₂ nanocomposite photocatalyst for effective destruction of herbicide imazapyr under visible light. 2021 , 11, 1009-1019	0
343	Photocatalysis by metal-organic frameworks. 2021 , 543-559	1
342	Iron oxide-based magnetic photocatalysts: Recent developments, challenges, and environmental applications. 2021 , 235-253	0
341	Effective materials in the photocatalytic treatment of dyestuffs and stained wastewater. 2021 , 91-111	2
340	Photocatalytic hydrogen generation using Z-scheme heterostructures through water reduction. 2021 , 109-130	1
339	An overview on degradation kinetics of organic dyes by photocatalysis using nanostructured electrocatalyst. 2021 , 195-213	2
338	Facet Dependence of Photocatalytic Activity in Anatase TiO ₂ : Combined Experimental and DFT Study. 2021 , 94, 106-111	5
337	Nanosized CdS as a Reusable Photocatalyst: The Study of Different Reaction Pathways between Tertiary Amines and Aryl Sulfonyl Chlorides through Visible-Light-Induced N-Dealkylation and C-H Activation Processes. 2021 , 86, 2117-2134	5

- 336 Confined water radiolysis in aluminosilicate nanotubes: the importance of charge separation effects. **2021**, 13, 3092-3105 4
- 335 UV-light photocatalytic degradation of non-ionic surfactants using ZnO nanoparticles. 1 4
- 334 Adsorption and reactions of C6 compounds with C?C, C?OH, and/or C?O groups on TiO2. **2021**, 68, 1138
- 333 TiO2 Photocatalysis for the Transformation of Aromatic Water Pollutants into Fuels. **2021**, 11, 317 14
- 332 Thermal stability and phase transformation of semi-crystalline mesostructured TiO2 in the presence of heteroelements. **2021**, 315, 110896 6
- 331 Synthesis of g-C3N4/W-SBA-15 Composites for Photocatalytic Degradation of Tetracycline Hydrochloride. **2021**, 31, 2140-2149 2
- 330 Application of ZnO Nanocrystals as a Surface-Enhancer FTIR for Glyphosate Detection. **2021**, 11, 2 2
- 329 Degradation of Imazapyr herbicide using visible light-active CdO/TiO2 heterojunction photocatalyst. **2021**, 9, 104732 6
- 328 Effect of electron irradiation to the photocatalytic activity of the titanium dioxide fibers. **2021**, 1106, 012016
- 327 Improvements in effluent treatment technologies in Common Effluent Treatment Plants (CETPs): Review and recent advances. **2021**, 147, 1018-1051 10
- 326 Visible light driven oxidation of harmful 2-Chloroethyl ethyl sulfide using SiO2-TiO2 composite particles and air. **2021**, 41, 100362 3
- 325 Boosting the Catalytic Performance by Confining Rich Carbon Atoms over Graphite Carbon Nitride Structure. **2021**, 151, 3721
- 324 Photocatalytic degradation of hydrocarbons and methylene blue using floatable titanium dioxide catalysts in contaminated water. 2
- 323 Advances in nanomaterials for heterogeneous photocatalysis. **2021**, 2, 012005 9
- 322 Applications of Amorphous Nanomaterials in Photocatalysis. **2021**, 347-373
- 321 Facile preparation of hierarchical heterostructured TiO2/Bi/Bi2MoO6 photocatalyst for photocatalytic degradation of toluene gas. **2021**, 96, 1732-1741 3
- 320 Synthetic Semiconductor Photoelectrochemistry. **2021**, 21, 2223-2238 0
- 319 Photocatalytic properties of ZnO powder sensitized by ZnTPP. **2021**, 1885, 032072

318	Review on Recent Advances of Synthesis, Magnetic Properties, and Water Treatment Applications of Cobalt Ferrite Nanoparticles and Nanocomposites. 2021 , 34, 995-1018	10
317	Control of Chemical Reaction Pathways by Light-Matter Coupling. 2021 , 72, 423-443	13
316	Fabrication of magnetically recoverable BiVO ₄ /NiFe ₂ O ₄ composites for the photocatalytic degradation of methylene blue. 2021 , 47, 11526-11535	7
315	Recent development and future prospects of TiO ₂ photocatalysis. 2021 , 68, 738-769	17
314	Hydrothermal synthesis of MoO ₃ /ZnO heterostructure with highly enhanced photocatalysis and their environmental interest. 2021 , 9, 105040	13
313	Anions-Exchange-Induced Efficient Carrier Transport at CsPbBr _x Cl _{3-x} /TiO ₂ Interface for Photocatalytic Activation of C(sp ³)-C bond in Toluene Oxidation. 2021 , 13, 2592-2598	5
312	Synthesis and Applications of ZnO/Polymer Nanohybrids. 2021 , 3, 599-621	16
311	Step-scheme heterojunction photocatalysts for solar energy, water splitting, CO ₂ conversion, and bacterial inactivation: a review. 2021 , 19, 2941-2966	48
310	Synergistic Redox Reaction for Value-Added Organic Transformation via Dual-Functional Photocatalytic Systems. 2021 , 11, 4613-4632	24
309	Single step synthesis of WO ₃ nanoparticles by wire explosion process and its photocatalytic behaviour. 2021 , 2, 020014	1
308	Heat treatment as a key factor for enhancing the photodegradation performance of hydrothermally-treated sol-gel TiO ₂ /BiO ₂ nanocomposites. 2021 , 99, 188	0
307	Factors Determining the Removal Efficiency of Procion MX in Waters Using Titanate Nanotubes Catalyzed by UV Irradiation. 2021 , 2021, 1-10	2
306	Intense Visible-Light Absorption in SrRuO/CN Heterostructures for the Highly Efficient Reduction of Hg(II). 2021 , 6, 14713-14725	8
305	Visible light photocatalytic properties of one-step SnO-templated grown SnO/SnS heterostructure and SnS nanoflakes. 2021 , 32,	3
304	LAYERED BISMUTH TUNGSTATE [HETEROGENEOUS PHOTOCATALYSIS FOR ENVIRONMENTAL REMEDIATION. 2021 , 3-11	
303	Photocatalytic degradation of dyes using semiconductor photocatalysts to clean industrial water pollution. 2021 , 97, 111-128	78
302	Photocatalytic activity of MnTiO perovskite nanodiscs for the removal of organic pollutants. 2021 , 7, e07297	1
301	Kinetic and Thermodynamic Considerations for Photocatalyst Design. 2021 , 1-27	

300	Visible light assisted production of methanol from CO using CdS@CeO heterojunction. 2021 , 219, 112205	6
299	Theory of Plasmonic Excitations. 2021 , 1-35	
298	Platinized titanium dioxide (Pt/TiO ₂) as a multi-functional catalyst for thermocatalysis, photocatalysis, and photothermal catalysis for removing air pollutants. 2021 , 23, 100993	11
297	Hydrothermal synthesis of GaD/TiO ₂ nanocomposites with highly enhanced solar photocatalysis and their biological interest. 2021 , 6, 100020	3
296	Mechanical agitation accelerated ultrasonication for wastewater treatment: Sustainable production of hydroxyl radicals. 2021 , 198, 117124	9
295	CdxZn1-xS/Sb2Se3 thin film photocathode for efficient solar water splitting. 2021 , 286, 119872	10
294	Cuo as efficient photo catalyst for photocatalytic decoloration of wastewater containing Azo dyes.	3
293	Real Space-Real Time Evolution of Excitonic States Based on the Bethe-Salpeter Equation Method. 2021 , 12, 7261-7269	2
292	New insights in light-assisted microbial fuel cells for wastewater treatment and power generation: A win-win cooperation. 2021 , 501, 230000	9
291	Cu-doped TiO ₂ hollow nanostructures for the enhanced photocatalysis under visible light conditions. 2021 , 99, 352-363	11
290	An innovative, highly stable Ag/ZIF-67@GO nanocomposite with exceptional peroxymonosulfate (PMS) activation efficacy, for the destruction of chemical and microbiological contaminants under visible light. 2021 , 413, 125308	32
289	MoS ₂ based ternary composites: review on heterogeneous materials as catalyst for photocatalytic degradation. 1-74	4
288	Disclosing the hidden presence of Ti ³⁺ ions in different TiO ₂ crystal structures synthesized at low temperature and photocatalytic evaluation by methylene blue photobleaching. 2021 , 36, 3353	1
287	A New Mechanism of the Selective Photodegradation of Antibiotics in the Catalytic System Containing TiO and the Inorganic Cations. 2021 , 22,	0
286	Recent Advances in Plasmonic Photocatalysis Based on TiO and Noble Metal Nanoparticles for Energy Conversion, Environmental Remediation, and Organic Synthesis. 2021 , e2101638	39
285	Photocatalytic degradation of drugs in water mediated by acetylated riboflavin and visible light: A mechanistic study. 2021 , 221, 112250	4
284	Integrated process approach for degradation of p-cresol pollutant under photocatalytic reactor using activated carbon/TiO nanocomposite: application in wastewater treatment. 2021 , 1	0
283	Progress of functionalized TiO ₂ -based nanomaterials in the construction industry: A comprehensive review. 2021 , 430, 132062	5

282	Photocatalytic Nanofiber Membranes for the Degradation of Micropollutants and Their Antimicrobial Activity: Recent Advances and Future Prospects. 2021 , 11,	6
281	On the Roles of Electron Transfer in Catalysis by Nanoclusters and Nanoparticles. 2021 , 27, 16291-16308	2
280	Sol-gel fluorinated TiO ₂ /clay nanocomposite: study of fluor-titanium interaction on the photodegradation of phenol. 1	3
279	Modification of polyacrylonitrile-based activated carbon fibers and their p-nitrophenol adsorption and degradation properties. 2021 , 9, 105390	8
278	Photocatalytic reduction of nitroaromatics into anilines using CeO ₂ -TiO ₂ nanocomposite. 2021 , 513, 111775	1
277	The paleohydrological implications of aragonite precipitation under contrasting climates in the endorheic Dead Sea and its precursors revealed by experimental investigations. 2021 , 576, 120261	3
276	Efficient Sol-gel Nanocomposite TiO ₂ -clay in Photodegradation of Phenol: Comparison to Lab-made and Commercial Photocatalysts. 1	3
275	Heterogeneous photocatalytic materials for sustainable formation of high-value chemicals in green solvents. 2021 , 13, 100071	3
274	Polymer Nanocomposite Films Based on Two-Dimensional Materials for Photocatalytic Applications. 2022 , 111-143	1
273	INTERACTIONS AMONG TiO ₂ AND Palygorskite Revealed: Boost for Stability of Well-Known Photocatalyst. 2021 , 343, 117678	0
272	The Effect of Different Thickness on The Optical and Electrical Properties of TiO ₂ Thin Films. 2021 , 1999, 012128	
271	Synthesis of Zn/Cu metal ion modified natural palygorskite clay/TiO ₂ nanocomposites for the photocatalytic outdoor and indoor air purification. 2021 , 423, 113568	4
270	Electrochemical Dechlorination of 3-chlorophenol with Palladium-Loaded Carbon Felt Electrode. 2021 , 11, 1188	
269	Comparison Study of Cytotoxicity of Bare and Functionalized Zinc Oxide Nanoparticles. 2021 , 22,	1
268	CNTs-copper oxide nanocomposite photocatalyst with high visible light degradation efficiency. 2021 , 32, 3760-3769	1
267	Manganese spinel ferrite-reduced graphene oxides nanocomposites for enhanced solar irradiated catalytic studies. 2021 , 47, 28367-28376	1
266	Degradation of carbamazepine by UVA/WO/hypochlorite process: Kinetic modelling, water matrix effects, and density functional theory calculations. 2021 , 201, 111569	1
265	Photocatalytic activity enhancement by composition control of mechano-thermally synthesized BiVO ₄ -Cu ₂ O nanocomposite. 2021 , 47, 29795-29806	1

264	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
263	Structural and compositional tuning in g-C ₃ N ₄ based systems for photocatalytic antibiotic degradation. 2021 , 8, 100148	7
262	Photo-/thermal synergies in heterogeneous catalysis: Towards low-temperature (solar-driven) processing for sustainable energy and chemicals. 2021 , 296, 120320	14
261	Aqueous selective photocatalytic oxidation of salicyl alcohol by TiO ₂ catalysts: Influence of some physico-chemical features. 2021 , 380, 16-24	0
260	Highly facile Ag/NiO nanocomposite synthesized by sol-gel method for mineralization of rhodamine B. 2021 , 159, 110287	0
259	Nanochitosan/carboxymethyl cellulose/TiO ₂ biocomposite for visible-light-induced photocatalytic degradation of crystal violet dye. 2021 , 204, 112047	11
258	Polymer-graphene composite in hydrogen production. 2022 , 639-682	
257	TiO ₂ nanotube arrays sensitized by copper (II) porphyrins with efficient interfacial charge transfer for the photocatalytic degradation of 4-nitrophenol. 2022 , 422, 126869	5
256	Phosphorous-Based Titania Nanoparticles for the Photocatalytic Abatement of VOCs. 2021 , 189-208	
255	Degradation of organic dyes using novel photocatalytic techniques. 2021 , 745-763	
254	Application of doped semiconductors in the degradation of dyes. 2021 , 631-646	
253	Photodegradation processes. 2021 , 55-124	5
252	Selective Photoelectrocatalytic Removal for Group-Targets of Phthalic Esters. 2021 , 55, 2618-2627	9
251	Unprecedented Catalytic Behavior of Uranyl(VI) Compounds in Chemical Reactions. 2021 , 2021, 95-111	3
250	The Energy Efficiency Factors in Photocatalytic Processes. 2005 , 119-131	1
249	Environmental Applications of Photocatalysis. 2013 , 35-66	11
248	Alternative Metal Oxide Photocatalysts. 2013 , 103-122	1
247	Sol-Gel Processed Oxide Photocatalysts. 2012 , 217-237	2

246	Photocatalytic Water Splitting and Carbon Dioxide Reduction. 2015 , 1-39	2
245	Photocatalytic Conversion of Carbon Dioxide into Hydrocarbons. 2020 , 133-163	3
244	Nanostructured Materials for the Photocatalytic Degradation of Organic Pollutants in Water. 2019 , 65-90	5
243	Artificial Photosynthesis: From Molecular to Hybrid Nanoconstructs. 2015 , 71-98	3
242	Photocatalytic Detoxification of Polluted Waters. 1999 , 285-351	50
241	Photocatalytic Properties: Effect of Size, Shape and Surface Structures of Fine Particles. 2004 , 183-200	1
240	Evolutionary origins of membrane proteins. 2010 , 1-28	6
239	Electronic Structure of TiO ₂ Studied by Far-Ultraviolet and Deep-Ultraviolet Spectroscopy. 2015 , 99-121	1
238	HETEROGENEOUS PHOTOCATALYSIS: A CONVENIENT METHOD FOR WATER TREATMENT. 1998 , 175-188	1
237	A method to produce robust magnetic particles coated with TiO ₂ nano particulates. 2020 , 273, 118935	4
236	Efficient photodecomposition of herbicide imazapyr over mesoporous GaO-TiO nanocomposites. 2018 , 342, 519-526	37
235	Biphasic TiO ₂ nanoleafed nanorod electrode for dye-sensitized solar cell. 2020 , 123, 114206	4
234	Titanium Dioxide Nanomaterials: Synthesis, Properties, Modifications, and Applications. <i>Chemical Reviews</i> , 2007 , 107, 2891-2959	68.1 4
233	In situ high-temperature X-ray diffraction study of Sc-doped titanium oxide nanocrystallites. 2020 , 53, 1452-1461	0
232	Mechanistic Studies on TiO ₂ Photoelectrochemical Radical Cation [2 + 2] Cycloadditions. 2020 , 167, 155529	3
231	Preparation and Processing of Nanoscale Materials by Supercritical Fluid Technology. 2002 ,	1
230	Chapter 2 Photocatalysis. 2016 , 9-16	2
229	The Organic Chemistry of TiO ₂ Photocatalysis of Aromatic Hydrocarbons. 2005 , 307-346	3

228	Photo Catalytic Removal of Sodium Dodecyl Sulfate From Aquatic Solutions With Prepared ZnO Nanocrystals and UV Irradiation. 2014 , 1,	2
227	Titania/mesoporous silica nanotubes with efficient photocatalytic properties. 2018 , 20, 103-108	5
226	Effects of TiO ₂ Photocatalytic Sterilizing System on the Suppression of Tomato Root Rot Disease in the Nutrient Solution. 2003 , 2, 215-219	7
225	Laser applications in nanotechnology: nanofabrication using laser ablation and laser nanolithography. 2013 , 183, 673-718	12
224	Preparation of Porous SiO ₂ -TiO ₂ Nanocomposites and Their Photocatalytic Activity. 2009 , 24, 229-233	1
223	Titania based nanocomposites as a photocatalyst: A review. 2016 , 3, 1236-1254	20
222	Green Synthesis of Silver Nanoparticles by Pulsed Laser Irradiation: Effect of Hydrophilicity of Dispersing Agents on Size of Particles. 2015 , 04, 61-69	2
221	Formation and Growth of Silver Nanocubes upon Nanosecond Pulsed Laser Irradiation: Effects of Laser Intensity and Irradiation Time. 2017 , 06, 148-157	7
220	Reduced Graphene Oxide-TiO ₂ Nanocomposite Facilitated Visible Light Photodegradation of Gaseous Toluene. 2017 , 08, 591-602	9
219	TiO ₂ PC500 Coated on Non Woven Paper with SiO ₂ as a Binder-Assisted Photocatalytic Degradation of Reactive Black 5 in Aqueous Solution. 2013 , 05, 1227-1234	5
218	Effective Photocatalytic Reduction of Cr(VI) by Carbon Modified (CM)-n-TiO ₂ Nanoparticles under Solar Irradiation. 2013 , 03, 154-160	14
217	Photochemical Reductions of Benzil and Benzoin in the Presence of Triethylamine and TiO ₂ Photocatalyst. 2002 , 23, 1229-1258	10
216	Photoinduced Superhydrophilicity in TiO ₂ Thin Films Modified with WO ₃ . 2005 , 26, 1515-1519	14
215	Visible Light Photoelectrocatalytic Properties of Novel Yttrium Treated Carbon Nanotube/Titania Composite Electrodes. 2010 , 31, 133-139	22
214	Effect of Microwave Irradiation on Morphology and Size of Anatase Nano Powder: Efficient Photodegradation of 4-Nitrophenol by W-doped Titania. 2012 , 33, 3981-3986	8
213	TiO ₂ Branched Nanostructure Anode Material Prepared by Seeding Method for High-performance Lithium Ion Batteries. 2013 , 16, 81-84	1
212	Photocatalytic Decolorization of Dye usingUV/TiO ₂ and Fluidized Bed Reactor. 2004 , 13, 921-928	3
211	Photodegradation of Surfactants in UV- illuminated aqueous TiO ₂ dispersions. 2001 , 1, 55-73,123	3

210	The UV/Ozone Stability of PET and Nylon 6 Nanocomposite Films Containing TiO ₂ Photocatalysts. 2014 , 26, 88-98	5
209	Crystal Structure Dependence for Reactivities of B12-TiO ₂ Hybrid Catalysts with Anatase and Rutile Forms. 2015 , 4, 9-11	2
208	First-principles investigation of iodine doped rutile TiO ₂ (110) surface. 2014 , 63, 207302	1
207	Selective Oxidation of Benzyl Alcohol in the Aqueous Phase by TiO ₂ -Based Photocatalysts: A Review.	4
206	Optoelectronics properties of Janus SnSSe monolayer for solar cells applications. 2021 , 413487	3
205	Advances in the Application of Nanocatalysts in Photocatalytic Processes for the Treatment of Food Dyes: A Review. 2021 , 13, 11676	5
204	Designing of Fe ₂ O ₃ /GO heterostructure with enhanced photocatalytic activity and biological applications. 2021 , 6, 1	
203	Novel Dyadic Amorphous-Crystalline Nano-Titania Hybrids for Sacrifiers-Stored Photocatalysis. 2021 , 608, 1638-1651	1
202	Advances and Promises of 2D MXenes as Cocatalysts for Artificial Photosynthesis. 2021 , 5, 2100603	4
201	Photons at Play: Photocatalysis in Sustainable Chemistry. A Joint Virtual Special Issue by ACS Catalysis and ACS Sustainable Chemistry & Engineering. 2021 , 9, 13125-13127	
200	Nitrogen Doped Titanium Dioxide (N-TiO ₂): Synopsis of Synthesis Methodologies, Doping Mechanisms, Property Evaluation and Visible Light Photocatalytic Applications. 2021 , 1, 371-410	2
199	Unveiling Semiconductor Nanostructured Based Holmium-Doped ZnO: Structural, Luminescent and Room Temperature Ferromagnetic Properties. 2021 , 11,	0
198	Harnessing Slow Light in Optoelectronically Engineered Nanoporous Photonic Crystals for Visible Light-Enhanced Photocatalysis. 12947-12962	3
197	All-solid-state Z-scheme plasmonic Si@Au nanoparticles on CuBi ₂ O ₄ /BiVO ₄ for efficient photocatalytic activity. 2021 , 32, 4330-4342	2
196	The effect of dissolved oxygen and initial complexation of Cu(II) and EDTA on photooxidation of Cu(II)-EDTA by TiO ₂ . 2002 , 11, 85-91	
195	Phase Transformation Properties of Cu/TiO ₂ Photocatalyst Powders Fabricated by Mechanical Alloying. 2002 , 9, 110-115	
194	Preparation and Photocatalytic Application of Different TiO ₂ and Zn(OH) ₂ /ZnO Nanoparticles and Hydrophilic/Hydrophobic Layered Silicates. 2003 , 425-443	
193	Semiconductor Nanoparticles. 2003 , 813-848	1

- 192 Evaluation and Control of Photocatalytic Activities of Suspended Semiconductor Photocatalysts through Action Spectrum Analyses.. **2003**, 24, 39-45
- 191 Titanium Dioxide-Photocatalyzed Reactions of Organophosphorus Compounds in Aqueous Media. **2003**,
- 190 Photocatalytic Properties of TiO₂Thin Films Prepared by RF Sputtering. **2003**, 13, 185-190
- 189 UV/Titanium Dioxide. **2003**,
- 188 Heterogeneous Catalytic Ozonation. **2003**,
- 187 Photocatalytic Decolorization of Rhodamine B using Immobilized TiO₂onto GF/C and Fluidized Bed Reactor. **2003**, 12, 1277-1284
- 186 Photocatalysts, Radiation Sources and Auxiliary Equipment for Photocatalysis. **2005**, 49-62
- 185 Effect of Humidity on Decomposition of Ethylene by a Spiral-Wound Wire-Net Photocatalyst. **2005**, 31, 417-420
- 184 Degradation of Dye Wastewater by Advanced Oxidation Process: A Comparative Study. **2006**, 15, 67-75
- 183 Heterogeneous Photocatalysis. **2006**, 427-462
- 182 Photocatalytic Decolorization of Dye Using Packed-bed Reactor and Immobilized TiO₂/UV System. **2007**, 16, 255-260
- 181 Color Removal of Rhodamine B by Photoelectrocatalytic Process Using Immobilized TiO₂. **2008**, 34, 226-232 ○
- 180 Photoelectrocatalytic Removal of Color from Water Using TiO₂ and TiO₂/Cu₂O Thin Film Electrodes Under Low Light Intensity. **2009**, 181-196
- 179 Pollution Treatment, Remediation and Sensing. 125
- 178 Photocatalytic Properties of Titania/Silica Composite Nanoparticles and Gels. 99-104
- 177 Selective Oxido-Reductive Processes by Nucleophilic Radical Addition under Mild Conditions. 337-351
- 176 Applications to Catalysis and Environmental Science. **2011**, 273-320
- 175 Spectral Studies of Solar Radiation Induced Dye Decoloration in Aqueous Solution. **2012**, 419-431

- 174 The characteristics of Mn-TiO₂ catalyst for visible-light photocatalyst. **2011**, 24, 493-502 2
- 173 Random Lasing of Rhodamine 6G Solution Containing TiO₂:Silica Core:Shell Nanoparticles. **2012**,
- 172 Facile Synthesis of Porous TiO₂ Nanoparticle and Nanorice toward Visible-Light Photocatalysts. **2012**, 1, 13-15
- 171 Relevance of Nanotechnology to Africa: Synthesis, Applications, and Safety. **2013**, 123-158 0
- 170 Modification and Photocatalytic Activity of TiO₂ Inverse Opal Membranes. **2013**, 28, 283-286
- 169 Sensory Evaluation Spectrum Method as a Descriptive Sensory Analysis. **2014**, 05, 1591-1560 2
- 168 Radical Reactivity Modified by Adsorption onto Surfaces and by Complexation with Metals. **1997**, 437-448
- 167 Molecular Systems and Their Applications to Energy Conversion. **1999**, 159-234
- 166 ??????????????????. **1999**, 67, 866-870 1
- 165 Titanium Dioxide Based Materials for Photocatalytic Conversion of Water Pollutants. **2014**, 261-285
- 164 Sonophotocatalytic Mineralization of Environmental Contaminants Present in Aqueous Solutions. **2015**, 1-38
- 163 High Performance in Random Laser Using a Colloidal Suspension of TiO₂@Silica Nanoparticles. **2016**, 39-49
- 162 Green Processes for Lignin Conversion. **2016**, 263-300
- 161 Semiconductor coupled solar photo-Fenton's treatment of dyes and textile effluent. **2016**, 5, 61-77 1
- 160 TiO₂ ve AgS Katkıyla TiO₂ Nanotıp Fotokatalizörlerinin Sentezlenmesi ve Karakterizasyonu. **2016**, 31, 181-186
- 159 Introduction. **2017**, 1-16
- 158 Chapter 1 Introduction. **2016**, 1-8
- 157 Study on the Photocatalytic Oxidation of Gaseous Isopropanol by Ag/TiO₂. **2018**, 6, 11-14

- 156 ~~Surface modification of nanoporous anodic alumina photonic crystals for photocatalytic applications. 2018, 1217-1222~~
- 155 Surface modification of nanoporous anodic alumina photonic crystals for photocatalytic applications. **2018**,
- 154 Developments and Trends of the Photocatalyst ~Green Chemistry. **2018**, 138, 606-609
- 153 Photocatalytic Bacterial Disinfection using Ago/Ag+1 Immobilized on CNT Modified TiO₂ Nanomaterials. **2019**, 13, 767-778 1
- 152 Photocatalysts and Photoelectrocatalysts in Fuel Cells and Photofuel Cells. **2020**, 19-55 1
- 151 Green Photocatalyst for Diverge Applications. **2020**, 1-18 1
- 150 Preparation and Dielectric Property of TiO₂ Doping with Silver Dispersed in Polyvinyl Alcohol and Polyurethane (TiO₂@Ag/PVA-PU) Nanocomposite Materials. **2020**, 13, 244-252
- 149 Rapid photodegradation mechanism enabled by broad-spectrum absorbing black anatase and reduced graphene oxide nanocomposites. **2021**, 575, 151718 5
- 148 Preparation, magnetic and photocatalytic properties of nano-structured SrFe₁₂O₁₉ obtained via an optimized mechano-thermal route using celestite ore. **2022**, 275, 125312 2
- 147 Photo Catalysis: An Effective Tool for Treatment of Dyes Contaminated Wastewater. **2020**, 175-187
- 146 Biogenic Nanoparticles for Degradation of Noxious Dyes. **2020**, 323-350
- 145 Dyes Depollution of Water Using Porous TiO₂-Based Photocatalysts. **2020**, 35-92
- 144 Photocatalysis as a Clean Technology for the Degradation of Petrochemical Pollutants. **2020**, 171-191 1
- 143 A short review on photocatalytic toward dye degradation. **2020**, 31, A42-A47 5
- 142 Photocatalytic degradation of water pollutants using II-VI semiconducting catalysts: A comprehensive review. **2021**, 106734 0
- 141 Novel kinetic modeling of thiabendazole removal by adsorption and photocatalysis on porous organic polymers: effect of pH and visible light intensity. **2021**, 431, 133349 1
- 140 Photocatalytic Activity of Nanocoatings Based on Mixed Oxide V-TiO₂ Nanoparticles with Controlled Composition and Size. **2021**, 11, 1457 1
- 139 Research Progress on CO₂ Photocatalytic Reduction with Full Solar Spectral Responses. 6

138	Graphene Family Nanomaterials (GFN)-TiO for the Photocatalytic Removal of Water and Air Pollutants: Synthesis, Characterization, and Applications.. 2021 , 11,	1
137	Enhanced photoelectrochemical activity of magnetically modified TiO ₂ prepared by a simple ex-situ route. 2022 , 26, 245	
136	Cleaning up oil pollution in the ocean with photocatalytic concrete marine structures. 2021 , 329, 129636	2
135	Interfacial electron transfer from nonstoichiometric cadmium sulfide nanoparticles to free and complexed copper(II) ions in 2-propanol. 1998 , 110, 277-295	
134	Reductive Transformation of Aqueous Pollutants Using Heterogeneous Photocatalysis: A Review. 1	1
133	CQD/TiO ₂ nanocomposite photocatalyst for efficient visible light-driven purification of wastewater containing methyl orange dye. 2022 , 278, 125583	0
132	Strain effect on the electronic and photocatalytic properties of GaN-MSSe (M=Mo, W). 2022 , 306, 122798	0
131	Synthesis, modifications and applications of MILs Metal-organic frameworks for environmental remediation: The cutting-edge review.. 2021 , 810, 152279	4
130	Recent progress in red phosphorus-based photocatalysts for photocatalytic water remediation and hydrogen production. 2022 , 26, 101345	1
129	Advancing of Zinc Oxide Nanoparticles for Cosmetic Applications. 2021 , 1-16	0
128	Polymorphism and Visible-Light-Driven Photocatalysis of Doped BiO:M (M = S, Se, and Re).. 2022 ,	0
127	Challenges and prospects in the selective photoreduction of CO to C ₁ and C ₂ products with nanostructured materials: a review.. 2021 ,	8
126	Morphology-dependent visible light photocatalysis. 2022 , 375-412	0
125	Combination of photocatalytic degradation and adsorption in dye removal by TiO ₂ -chitosan-glycerol beads under natural sunlight. 2022 , 964, 012028	1
124	Study of Influence Factors in the Evaluation of the Performance of a Photocatalytic Fibre Reactor (TiO ₂ /SiO ₂) for the Removal of Organic Pollutants from Water. 2022 , 12, 122	1
123	Flash-thermochemical engineering of phase and surface activity on metal oxides. 2022 ,	2
122	Doped ceramics for visible light photocatalysis. 2022 , 277-293	1
121	Fabrication of spherical porous pAgO-nWO/Ag/GNS heterostructure with enhanced photocatalytic activity through plasmonic S-scheme mechanism and its complementing biological interest.. 2022 , 133715	

120	Simulation of the Physicochemical Properties of Anatase TiO ₂ with Oxygen Vacancies and Doping of Different Elements for Photocatalysis Processes. 2022 , 238-249	
119	Surface- and Structural-Dependent Reactivity of Titanium Oxide Nanostructures with 2-Chloroethyl Ethyl Sulfide under Ambient Conditions.. 2022 ,	1
118	General heterostructure strategy of photothermal materials for scalable solar-heating hydrogen production without the consumption of artificial energy.. 2022 , 13, 776	8
117	Radiation shielding parameters of Cu _x P ₂ O _{5+x} copper phosphate compounds: a comparative study using Phys-X/PSD and Py-MLBUF software. 1	
116	Synthesis, characterization and photocatalytic activity of potassium Titanate nanocatalyst. 1	0
115	A review on the capability of zinc oxide and iron oxides nanomaterials, as a water decontaminating agent: adsorption and photocatalysis. 2022 , 12, 1	1
114	Synthesis of different TiO ₂ nanostructures using central composite design optimization method and application of TiO ₂ -nanobelt for water microorganism's purification. 2022 , 527-536	
113	Combinatorial ALD for the growth of ZnO/TiO ₂ nanolaminates and mixed ZnO/TiO ₂ nanostructured films. 2022 , 3, 2896-2907	0
112	Nano-tailored TiO ₂ -based photocatalytic cementitious systems for NO _x reduction and air cleaning. 2022 , 161-208	
111	Research Progress in Semiconductor Materials with Application in the Photocatalytic Reduction of CO ₂ . 2022 , 12, 372	1
110	Calculation of Core-Excited and Core-Ionized States Using Variational Quantum Deflation Method and Applications to Photocatalyst Modeling.. 2022 , 7, 10840-10853	0
109	Photocatalytic degradation efficiency of Cu/Cu ₂ O core-shell structured nanoparticles for endosulfan mineralization. 2022 , 24, 1	0
108	Copper sulfide and their hybrids with carbon nanotubes for photocatalysis and antibacterial studies. 2022 , 48, 10136-10143	1
107	Synthesis of magnetic nano-NiFe ₂ O ₄ with the assistance of ultrasound and its application for photocatalytic degradation of Titan Yellow: Kinetic and isotherm studies. 2022 , 48, 100610	0
106	A review on the antimicrobial and antibiofilm activity of doped hydroxyapatite and its composites for biomedical applications. 2022 , 31, 103311	2
105	Layered bismuth-based photocatalysts. 2022 , 463, 214515	4
104	Strengthened photocatalytic removal of bisphenol A under visible light by magnetic ternary heterojunctions Bi ₄ O ₅ Br ₂ /Bi ₄ O ₅ I ₂ /Fe ₃ O ₄ . 2022 , 908, 164644	0
103	Nano-Ag: Environmental applications and perspectives.. 2022 , 829, 154644	2

102	Quantitative evaluation of structure-activity relationships in heterogeneous photocatalytic oxidation towards organic contaminants. 2022 , 309, 121238	1
101	Sensor-Assisted Performance Test of Nitrogen-Doped Nano-Titanium Dioxide Photocatalytic Composite Material. 2021 ,	
100	Photocatalytic Activity of TiO-Doped Fe, Ag, and Ni with N under Visible Light Irradiation.. 2021 , 8,	0
99	Challenges of modeling nanostructured materials for photocatalytic water splitting.. 2022 ,	5
98	One-Step Hydrothermal Synthesis of Nanostructured MgBiO/TiO Composites for Enhanced Hydrogen Production.. 2022 , 12,	0
97	CHAPTER 8. Photocatalysis: Past Achievements and Future Trends. 227-269	
96	Data_Sheet_1.docx. 2018 ,	
95	Data_Sheet_1.PDF. 2019 ,	
94	Nanomaterials and photocatalysis for environment: Applications and characterization. 2022 ,	
93	Solar Photocatalytic Treatment of Dye Removal. 2022 , 53-74	
92	Advancing of Zinc Oxide Nanoparticles for Cosmetic Applications. 2022 , 1057-1072	0
91	Aerosol-Assisted Deposition for TiO ₂ Immobilization on Photocatalytic Fibrous Filters for VOC Degradation. 2022 , 10,	
90	Synthesis of Sn and Zr-Doped BiVO ₄ Nanocatalyst with Enhanced Photocatalytic and Photoelectrochemical Activity. 2022 , 7,	0
89	Direct Perfluoroalkylation of C-H Bonds in (Hetero)arenes.. 2022 ,	2
88	Photocatalytic activity of the visible-light-driven spherical Ag ₂ S modifying the CdS synthesized by the facile chemical methods for the degradation of methylene blue and rhodamine B. 2022 , 285, 126174	1
87	Bi ₂ WO ₆ -based Z-scheme photocatalysts: Principles, mechanisms and photocatalytic applications. 2022 , 10, 107838	0
86	Tuning the HOMO and LUMO energy levels of dye sensitizers with electron-accepting capability and electron-drawing capability of substituents to optimize the efficiency of dye-sensitized solar cells: Approach of theoretical. 2022 , 141, 109522	
85	Recent Advances in Photocatalytic Removal of Organic and Inorganic Pollutants in Air.	

- 84 Influence of Zinc Oxide Nanostructure Morphology on its Photocatalytic Properties. **2022**, 18,
- 83 Efficacy of Perovskite Photocatalysis: Challenges to Overcome. 1994-2011 8
- 82 Ni/g-C₃N₄ Photocatalysis: Aerobic Oxidative Coupling Reaction Leading to Amidation of Aldehydes with Amines and C-N, C-O, and C-C Cross-Coupling Reaction.
- 81 Recent Trends in Synthesis and Applicability of GO-Based Nanomaterials in Environmental Remediation. **2022**, 151-170
- 80 Effect of Doping on Rutile TiO₂ Surface Stability and Crystal Shapes. **2022**, 11, 0
- 79 A Review: TiO₂ Based Photoelectrocatalytic Chemical Oxygen Demand Sensors and Their Usage in Industrial Applications. **2022**, 116466 1
- 78 Understanding Aging Mechanisms in the Context of UV Irradiation of a Low Fouling and Self-Cleaning PVDF-PVP-TiO₂ Hollow-Fiber Membrane. **2022**, 12, 538
- 77 Photocatalytic Reforming of Biomass: What Role Will the Technology Play in Future Energy Systems. **2022**, 380, 2
- 76 High-Performance Room-Temperature Conductometric Gas Sensors: Materials and Strategies. **2022**, 10, 227 2
- 75 Green and efficient synthesis of carbon quantum dots from cordia myxa L. and their application in photocatalytic degradation of organic dyes. **2022**, 1266, 133456 1
- 74 Iodine Uptake by Zr-/Hf-Based UiO-66 Materials: The Influence of Metal Substitution on Iodine Evolution. **2022**, 14, 29916-29933 3
- 73 Enhanced photocatalytic activity of two dimensional SrTiO₃ nano structures for dye degradation. **2022**, 54,
- 72 Nanoporous Anodic Alumina Photonic Crystals for Sunlight Harvesting Applications: A Perspective. 2200480
- 71 Porosity and functionality: A study on interdependence.
- 70 On analysis of entropy measures for titanium dioxide via rational curve fitting methods.
- 69 2D hybrid photocatalysts for solar energy harvesting. **2022**, 33, e00469 3
- 68 Influence of a shape/consolidation factor on unary, undoped oxide ceramics: Experimental evidence and associated benefits. **2022**, 25, 101527
- 67 Visible-light-driven photodegradation of organic pollutants by simply exfoliated kaolinite nanolayers with enhanced activity and recyclability. **2022**, 214, 113960 0

- 66 Graphene/Inorganic Nanocomposites: Evolving Photocatalysts for Solar Energy Conversion for Environmental Remediation. **2022**, 101544 2
- 65 Treatment of oily wastewater using photocatalytic membrane reactors: A critical review. **2022**, 10, 108539 1
- 64 Application of quantum dots in photocatalysis. **2023**, 169-203 0
- 63 Effective Materials in the Photocatalytic Treatment of Dyes and Stained Wastewater. **2022**, 173-200 0
- 62 Enhancement of the Photocatalytic Degradation Efficiency of Anionic Dyes by Addition of Cationic Surfactants in Aqueous TiO₂ Dispersions. 0
- 61 Recent Developments in Photocatalytic Techniques of Dye Degradation in Effluents. **2022**, 65-100 0
- 60 Antimicrobial nanoparticles: Synthesis, mechanism of actions. **2023**, 155-202 0
- 59 Celebrating 50 Years of Photocatalytic Hydrogen Generation. **2022**, 7, 3149-3150 1
- 58 Silver-photodeposited TiO₂-clay nanocomposite: sol-gel synthesis, characterization and CCD-optimized photocatalytic activity. 1
- 57 Outstanding cooperation of all-inorganic CsPbI₃ perovskite with TiO₂ forming composites and heterostructures for photodegradation. **2022**, 57, 17363-17379 0
- 56 Visible-Light-Driven Photocatalysts for Self-Cleaning Transparent Surfaces. **2022**, 38, 11641-11649 1
- 55 Cr^{III} Mixed Oxide Molecular Cages: Synthesis, Structure, Photoresponse, and Photocatalytic Properties. **2022**, 61, 14887-14898 0
- 54 Janus MoSO and MoS₂ Monolayers: A Promising Material for Solar Cells and Photocatalytic Applications. 2200267 0
- 53 Property-governed performance of platinum-modified titania photocatalysts. 10, 0
- 52 Optoelectronic and photocatalytic properties of Mo-based Janus monolayers for solar cell applications. **2022**, 170071 0
- 51 Effect of annealing temperature on the optical and electrical properties of Mg doped TiO₂ thin films. 69-79 0
- 50 Enhancing STEM Education by Integrating Research and Teaching in Photochemistry: An Undergraduate Chemistry Laboratory in Spectroscopy and Photochemistry. **2022**, 12, 729 0
- 49 Preparation and Photocatalytic Activities of TiO₂-Based Composite Catalysts. **2022**, 12, 1263 1

- 48 Engineering Heterogeneous Catalysis with Strong Metal Support Interactions: Characterization, Theory and Manipulation. 3
- 47 Engineering Heterogeneous Catalysis with Strong Metal Support Interactions: Characterization, Theory and Manipulation. 0
- 46 Simultaneous Sensing and Photocatalytic Degradation to Free Water from Toxic Dye Pollutants for Possible Agricultural and Household Applications: Role of Generated Holes and Hydroxyl Radicals. **2022**, 108919 0
- 45 Correlation between Photocatalytic Properties of ZnO and Generation of Hydrogen Peroxide Impact of Composite ZnO/TiO₂ Rutile and Anatase. **2022**, 12, 1445 0
- 44 Investigation of Photocatalyst Composites for Pollutant Degradation in a Microslit Reactor Utilizing High Throughput Screening Techniques. **2022**, 11, 0
- 43 Surface functionalization of ZnO nanoparticles by Schiff base oriented tetrapodal ligands at room temperature and their photocatalytic applications: A comparative account on effect of structure directing agent on photocatalysis. **2022**, 146, 110130 0
- 42 Degradation of Safranin O in Water by UV/TiO₂/IO₄⁻ Process: Effect of Operating Conditions and Mineralization. **2022**, 12, 1460 0
- 41 Titanium dioxide incorporated in cellulose nanofibers with enhanced UV blocking performance by eliminating ROS generation. **2022**, 12, 33653-33665 0
- 40 Structural and Optical Properties of Ni-Cu Doped TiO₂ Synthesized by Sol-Gel Method. **2022**, 34, 3145-3150 0
- 39 Laser flash photolysis of titanium dioxide suspensions for the evaluation of solvent-mediated radical reactions. 0
- 38 Ion beam irradiation: Novel approach for preparation of Ag coated N doped nanocrystalline anatase TiO₂ films. **2023**, 288, 116212 0
- 37 Mg modified LaTiO₂N with ameliorated photocarrier separation for solar water splitting. **2023**, 324, 122258 0
- 36 Density functional theory investigation of Pr adsorption on the anatase TiO₂(101) surface for photovoltaic applications. **2023**, 613, 156042 0
- 35 TiO₂ - Catalyzed photo decolorization of chlorazol black BH dye under UV-A light. **2022**, 0
- 34 Photocatalysis Heterogeneous. 0
- 33 More than One Century of History for Photocatalysis, from Past, Present and Future Perspectives. **2022**, 12, 1572 0
- 32 ZnO Nanostructures Doped with Various Chloride Ion Concentrations for Efficient Photocatalytic Degradation of Methylene Blue in Alkaline and Acidic Media. **2022**, 27, 8726 0
- 31 Transformation of flower-like sphere BiOBr to Bi₂O₂CO₃ by doping with urea and enhanced photocatalytic degradation of bisphenol A. 0

- 30 Predictive Removal of Interfacial Defect-Induced Trap States between Titanium Dioxide Nanoparticles via Sub-Monolayer Zirconium Coating. ○
- 29 Role of linker molecules on morphology of tripodal ligands based functionalized ZnO nanoparticles and its effect on photocatalysis. **2022**, 110333 ○
- 28 High-efficient mineralization performance of photocatalysis activity towards organic pollutants over ruthenium nanoparticles stabilized by metal organic framework. **2022**, 109235 ○
- 27 Nanotechnology in Water and Wastewater Treatment. **2023**, 127-143 ○
- 26 Structural, photocatalytic, electromagnetic properties of rare-earth metal Gd-doped Mg nanoferrites synthesized by citrate gel auto-combustion method. ○
- 25 Mg/Li Co-doped g-C₃N₄: An excellent photocatalyst for wastewater remediation and hydrogen production applications towards sustainable development. **2023**, ○
- 24 Interaction of Catalyst Nanoparticles and Pollutant Molecules in Photocatalytic Wastewater Treatment: Novel Characterization via Dynamic Surface Properties. **2023**, 118459 ○
- 23 N-Formylation of Amines via Trapping of Degradation Intermediate of Ethers. **2023**, 114555 ○
- 22 Decolourization of Methylene Blue in Aqueous Solution by Photocatalytic Oxidation, Fenton Oxidation and Biosorption. **2022**, 43, 638-644 ○
- 21 Photocatalytic recycled aggregate concrete for air-purifying purpose. **2023**, 209-226 ○
- 20 Lanthanide-doped aluminosilicate materials and their applications. **2023**, 179-200 ○
- 19 Monolayer BP: A Promising Photocatalyst for Water Splitting with High Carrier Mobility. ○
- 18 Aluminium doped ZnO nanostructures for efficient photodegradation of indigo carmine and azo carmine G in solar irradiation. ○
- 17 Heterostructure charge transfer dynamics on self-assembled ZnO on electronically different single-walled carbon nanotubes. **2023**, 323, 138239 ○
- 16 Photoelectrocatalytic selective removal of group-targeting thiol-containing heterocyclic pollutants. **2023**, 452, 131307 ○
- 15 Visible-light-driven benzyl alcohol oxidation over Pt/Mn-Bi₄Ti₃O₁₂ nanosheets: Structure-function relationship of multicomponent photocatalysts. **2023**, 418, 141-150 ○
- 14 Magnetite immobilized metal nanoparticles in the treatment and removal of pollutants from wastewater: a review. **2023**, 58, 2951-2970 ○
- 13 Frontier nanoarchitectonics of graphitic carbon nitride based plasmonic photocatalysts and photoelectrocatalysts for energy, environment and organic reactions. **2023**, 7, 1197-1247 ○

- 12 A Z-scheme photocatalysis for phenol eradication from water using peroxymonosulfate activation Ag/AgBr/SCN nanocomposite. **2023**, 144, 104722 ○
- 11 Photo-Oxidation of Organic Dye by Fe₂O₃ Nanoparticles: Catalyst, Electron Acceptor, and Polyurethane Membrane (PU-Fe₂O₃) Effects. **2023**, 2023, 1-12 ○
- 10 Photocatalytic Efficiency of TiO₂/Fe₂O₃ and TiO₂/WO₃ Nanocomposites. **2023**, 13, 372 ○
- 9 Integrated chemical and biological processes for the degradation of synthetic dyes. **2023**, 567-600 ○
- 8 Biodiesel Production by Heterogeneous Catalysis and Eco-friendly Routes. **2023**, 10, 86-111 ○
- 7 TiO₂ @ cobalt ZIF: A nano composite for enhancing photocatalytic water splitting. **2023**, ○
- 6 Understanding the fundamentals of TiO₂ surfaces Part II. Reactivity and surface chemistry of TiO₂ single crystals. **2022**, 38, 846-906 ○
- 5 Optoelectronic materials utilizing hot excitons or hot carriers: from mechanism to applications. ○
- 4 Graphitic carbon nitride (g-C₃N₄) based heterogeneous single atom catalysts: synthesis, characterisation and catalytic applications. ○
- 3 Morphological changes of ZnO nanoparticles, directed by urea/thiourea-based tripodal organic ligands and their photocatalytic properties. **2023**, 46, ○
- 2 Improving the Degradation Kinetics of Industrial Dyes with Chitosan/TiO₂/Glycerol Films for the Sustainable Recovery of Chitosan from Waste Streams. **2023**, 15, 6979 ○
- 1 Homogeneous/Heterogeneous Hybrid Artificial Photosynthesis Induced by Organic Semiconductors with Controlled Surface Architectures. ○