

CITATION REPORT

List of articles citing

Phase-pure TiO(2) nanoparticles: anatase, brookite and rutile

DOI: 10.1088/0957-4484/19/14/145605
Nanotechnology, 2008, 19, 145605.

Source: <https://exaly.com/paper-pdf/43573040/citation-report.pdf>

Version: 2024-04-10

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
897	Sol-gel routes for microporous zirconia and titania membranes. 2008 , 48, 203-211		42
896	Optical to UV spectra and birefringence of SiO ₂ and TiO ₂ : First-principles calculations with excitonic effects. 2008 , 78,		49
895	Nonhydrolytic synthesis of high-quality anisotropically shaped brookite TiO ₂ nanocrystals. 2008 , 130, 11223-33		224
894	Preparation and characterization of TiO ₂ nanoparticles for dye-sensitized solar cells: Phase dependent study. 2009 ,		
893	Doping of TiO ₂ Polymorphs for Altered Optical and Photocatalytic Properties. 2009 , 2009, 1-22		52
892	The immobilization of titania nanoparticles on hyaluronan films and their photocatalytic properties. <i>Nanotechnology</i> , 2009 , 20, 015703	3.4	7
891	Sol-gel preparation of titanium dioxide nanoparticles in presence of a linear polysaccharide. 2009 , 4, 187-191		9
890	Aqueous Long-Term Solubility of Titania Nanoparticles and Titanium(IV) Hydrolysis in a Sodium Chloride System Studied by Adsorptive Stripping Voltammetry. 2009 , 38, 1267-1282		104
889	Phase determination of filtered vacuum arc deposited TiO ₂ thin films by optical modeling. 2009 , 518, 1060-1066		1
888	Phonon confinement in individual titanium dioxide nanowires. 2009 , 129, 1762-1766		2
887	Tungsten-Doped Titanium Dioxide in the Rutile Structure: Theoretical Considerations. 2009 , 21, 1627-1635		31
886	Sol-gel-derived titanium oxide-cerium oxide biocompatible nanocomposite film for urea sensor. 2009 , 24, 1667-1673		24
885	Hydrothermal synthesis of brookite type TiO ₂ photocatalysts using a water-soluble Ti-complex coordinated by ethylenediaminetetraacetic acid. 2009 , 117, 320-325		29
884	Growth of nanocrystalline TiO ₂ films by pulsed-laser-induced liquid-deposition method and preliminary applications for dye-sensitized solar cells. 2010 , 100, 1169-1176		9
883	Brookite Formation in TiO ₂ /Ag Nanocomposites and Visible-Light-Induced Templated Growth of Ag Nanostructures in TiO ₂ . <i>Advanced Functional Materials</i> , 2010 , 20, 377-385	15.6	58
882	Syntheses and Properties of Micro/Nanostructured Crystallites with High-Energy Surfaces. <i>Advanced Functional Materials</i> , 2010 , 20, 3634-3645	15.6	221
881	Plasma sprayed TiO ₂ : The influence of power of an electric supply on particle parameters in the flight and character of sprayed coating. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 3131-3136	6	19

880	Template-free sol-gel preparation and characterization of free-standing visible light responsive C,N-modified porous monolithic TiO ₂ . 2010 , 178, 560-5	24
879	TiO ₂ photocatalyst for indoor air remediation: Influence of crystallinity, crystal phase, and UV radiation intensity on trichloroethylene degradation. 2010 , 94, 211-218	130
878	Synthesis of CdS/TiO ₂ nanocomposites by using cadmium thiolate derivatives as unimolecular precursors. 2010 , 207, 1631-1635	12
877	Bandgap determination and charge separation in Ag@TiO ₂ core shell nanoparticle films. 2010 , 42, 835-841	72
876	Dye-sensitized solar cells: Effect of Ar/O ₂ gas-flow ratio on the structural and morphological properties of facing-target sputter-deposited TiO ₂ electrode. 2010 , 28, 1269-1274	1
875	A Photo-Electrochemical Investigation of Self-Organized TiO ₂ Nanotubes. 2010 , 157, G76	122
874	Stereospecific growth of densely populated rutile mesoporous TiO ₂ nanoplate films: a facile low temperature chemical synthesis approach. <i>Nanotechnology</i> , 2010 , 21, 105603	3-4 8
873	Morphology of rutile and brookite nanocrystallites obtained by X-ray diffraction and Rietveld refinements. 2010 , 495, 583-587	11
872	Simple preparation of sub-micron mesoporous TiO ₂ spheres consisting of anatase nanocrystals. 2010 , 508, 99-105	16
871	Photoinduced effects in TiO ₂ nanocrystalline films with different morphology. 2010 , 508, 599-605	31
870	Molybdenum-Doped Anatase and Its Extraordinary Photocatalytic Activity in the Degradation of Orange II in the UV and vis Regions. 2010 , 114, 19308-19317	122
869	Photocatalytic Properties of Porous Silicon Nanowires. 2010 , 20, 3590-3594	112
868	An alkali-metal ion extracted layered compound as a template for a metastable phase synthesis in a low-temperature solid-state reaction: preparation of brookite from K _{0.8} Ti _{1.73} Li _{0.27} O ₄ . 2010 , 49, 3044-50	14
867	Gas phase synthesis of titania with aerogel character and its application as a support in oxidation catalysis. 2010 , 20, 10032	5
866	Molecular Precursor Route to a Metastable Form of Zinc Oxide. 2010 , 22, 4263-4270	51
865	Design of self-cleaning TiO ₂ coating on clay roofing tiles. 2010 , 90, 2989-3002	23
864	Influence of the deposition conditions on the properties of TiO ₂ -Ge nanocomposite films synthesized by magnetron co-sputtering. 2010 ,	
863	Microstructure and performance of titanium oxide coatings sprayed by oxygen-acetylene flame. 2011 , 10, 403-7	3

862	Chlorate ion mediated rutile to anatase reverse phase transformation in the TiO ₂ nanosystem. 2011 , 40, 11374-7	8
861	THE SYNTHESIS OF TiO ₂ NANOPARTICLES BY WET-CHEMICAL METHOD AND THEIR PHOTOLUMINESCENCE, THERMAL AND VIBRATIONAL CHARACTERIZATIONS: EFFECT OF GROWTH CONDITION. 2011 , 10, 1249-1256	9
860	Photocurrent Switching Effects in TiO ₂ Modified with Ruthenium Polypyridine Complexes. 2011 , 115, 12187-12195	20
859	Template engineering through epitope recognition: a modular, biomimetic strategy for inorganic nanomaterial synthesis. 2011 , 133, 18202-7	43
858	The design, fabrication, and photocatalytic utility of nanostructured semiconductors: focus on TiO ₂ -based nanostructures. 2011 , 4, 35-65	164
857	Photodeposition of Ag or Pt onto TiO ₂ nanoparticles decorated on step edges of HOPG. 2011 , 5, 6325-33	64
856	TiO ₂ /Graphene Nanocomposite as High Performace Photocatalysts. 2011 , 115, 25209-25218	197
855	Surface-Enhanced Raman Scattering on Semiconducting Oxide Nanoparticles: Oxide Nature, Size, Solvent, and pH Effects. 2011 , 115, 8994-9004	73
854	Characterization of titanium-vanadium oxides deposited on silicon substrates using in photovoltaic applications. 2011 ,	
853	Role of Fe doping in tuning the band gap of TiO ₂ for the photo-oxidation-induced cytotoxicity paradigm. 2011 , 133, 11270-8	290
852	Growth of hierarchical TiO ₂ nanostructures on anatase nanofibers and their application in photocatalytic activity. 2011 , 13, 3021	45
851	Controlling the particle size of nanobrookite TiO ₂ thin films. 2011 , 509, 8262-8267	15
850	Structural, Optical and Thermal Investigations of TiO ₂ and S-Doped TiO ₂ Nanoparticles. 2011 ,	
849	Influence of heat treatment on the particle size of nanobrookite TiO ₂ thin films produced by sol-gel method. 2011 , 206, 37-42	28
848	Phase content controlled TiO ₂ nanoparticles using the MicroJetReactor technology. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 2475-2480	6 7
847	Influence of calcination parameters on the TiO ₂ photocatalytic properties. 2011 , 125, 20-25	70
846	Photoactivity of brookite-rutile TiO ₂ nanocrystalline mixtures obtained by heat treatment of hydrothermally prepared brookite. 2011 , 129, 794-801	40
845	Controlled synthesis and characteristics of antireflection coatings of TiO ₂ produced from a organometallic colloid. 2011 , 130, 1061-1065	9

844	Synthesis and characterisation of biologically compatible TiO ₂ nanoparticles. 2011 , 6, 423		32
843	Ecotoxicity of nanosized TiO ₂ . Review of in vivo data. 2011 , 159, 677-84		320
842	Solution processing of transparent conductors: from flask to film. 2011 , 40, 5406-41		276
841	Nontypical photoinduced optical nonlinearity of dielectric nanostructures. 2011 , 5, 053528		6
840	Alkaline hydrothermal kinetics in titanate nanostructure formation. 2011 , 46, 548-557		23
839	Se and Te-modified titania for photocatalytic applications. 2011 , 46, 3523-3536		18
838	Functional nanoscale additives for ultra-durable powder-coating polymers. 2011 , 142, 855-860		6
837	Prototype of a scalable core-shell Cu ₂ O/TiO ₂ solar cell. 2011 , 501, 446-450		62
836	Structure and properties of plasma sprayed BaTiO ₃ coatings: Spray parameters versus structure and photocatalytic activity. <i>Ceramics International</i> , 2011 , 37, 2561-2567	5.1	22
835	Growth inhibition of aquatic plant caused by silver and titanium oxide nanoparticles. 2011 , 3, 1-6		62
834	Quantum confinement effects on the surface enhanced Raman spectra of hybrid systems molecule-TiO ₂ nanoparticles. 2011 , 111, 1659-1670		27
833	Oxidische Nanomaterialien: Von der Synthese über den Mechanismus zur technologischen Innovation. 2011 , 123, 852-889		25
832	Oxide nanomaterials: synthetic developments, mechanistic studies, and technological innovations. 2011 , 50, 826-59		301
831	Dopant-free, polymorphic design of TiO ₂ nanocrystals by flame aerosol synthesis. 2011 , 66, 2409-2416		31
830	Fabrication of mesoporous titania membrane of dual-pore system and its photocatalytic activity and dye-sensitized solar cell performance. <i>Nanotechnology</i> , 2011 , 22, 275309	3-4	6
829	Aqueous Solution Synthesis of Crystalline Anatase Nanocolloids for the Fabrication of DSC Photoanodes. 2011 , 158, H224		19
828	Effect of Thickness on GLAD TiO ₂ Thin Films with Incline Spinning Substrate on Rotating Holder (ISSRH) Technique. 2011 , 236-238, 3024-3027		
827	TiO ₂ /ZnS/CdS Nanocomposite for Hydrogen Evolution and Orange II Dye Degradation. 2011 , 2011, 1-14		8

826	Equilibrium State of Anatase to Rutile Transformation for Titanium Dioxide Film Prepared by Ultrasonic Spray Pyrolysis Technique. 2011 , 02, 700-705		4
825	The Simplest Way to Iodine-Doped Anatase for Photocatalysts Activated by Visible Light. 2011 , 2011, 1-13		21
824	Impact of Ge ⁴⁺ Ion as Structural Dopant of Ti ⁴⁺ in Anatase: Crystallographic Translation, Photocatalytic Behavior, and Efficiency under UV and VIS Irradiation. 2012 , 2012, 1-11		5
823	The Photoelectric Properties of Oxygen-deficient Mixed-phase TiO ₂ Nanotube Arrays. 2012 , 1442, 25		
822	Effect of Acetic Acid in TiCl ₄ Post-Treatment on Nanoporous TiO ₂ Electrode in Dye-Sensitized Solar Cell. 2012 , 51, 09MA05		1
821	Carbon-Doped TiO ₂ and Carbon, Tungsten-Codoped TiO ₂ through Sol-Gel Processes in the Presence of Melamine Borate: Reflections through Photocatalysis. 2012 , 116, 16511-16521		93
820	Influence of reactive gas admixture on transition metal cluster nucleation in a gas aggregation cluster source. <i>Journal of Applied Physics</i> , 2012 , 112, 114321	2.5	39
819	Anatase TiO ₂ nanoparticles synthesis via simple hydrothermal route: Degradation of Orange II, Methyl Orange and Rhodamine B. 2012 , 363-364, 223-229		57
818	Enhancement of photoelectric and photocatalytic activities: Mo doped TiO ₂ thin films deposited by sputtering. 2012 , 522, 361-365		31
817	Production of TiO ₂ crystalline nanoparticles by laser ablation in ethanol. <i>Applied Surface Science</i> , 2012 , 258, 9484-9486	6.7	12
816	Peptization technique in the synthesis of titania-silica composites and their photocatalytic properties. 2012 , 198-199, 122-129		15
815	Low colloidal associations of aluminium and titanium in surface waters of the tropical Atlantic. 2012 , 96, 304-318		21
814	Facile solvothermal synthesis of anatase TiO ₂ microspheres with adjustable mesoporosity for the reversible storage of lithium ions. 2012 , 22, 24380		66
813	Nanomaterial-Based Antibacterial Paper. 2012 , 427-464		
812	Reactivity of CO ₂ and H ₂ O on TiO ₂ catalysts studied by gas phase FT-IR method and deactivation mechanism. 2012 , 379, 012036		4
811	Fingerprints of order and disorder in the electronic and optical properties of crystalline and amorphous TiO ₂ . 2012 , 86,		56
810	In vitro influences of TiO ₂ nanoparticles on barley (<i>Hordeum vulgare</i> L.) tissue culture. 2012 , 150, 376-80		46
809	Rapid Hydrothermal Preparation of Rutile TiO ₂ Nanoparticles by Simultaneous Transformation of Primary Brookite and Anatase: An in Situ Synchrotron PXRD Study. 2012 , 12, 6092-6097		40

808	Effects of crystallization and dopant concentration on the emission behavior of TiO ₂ :Eu nanophosphors. 2012 , 7, 1	1268
807	Electrochemistry of titanium dioxide: some aspects and highlights. 2012 , 12, 131-42	115
806	Band-Gap Engineering of Zinc Oxide Colloids via Lattice Substitution with Sulfur Leading to Materials with Advanced Properties for Optical Applications Like Full Inorganic UV Protection. 2012 , 24, 1771-1778	42
805	The electronic structure and optical response of rutile, anatase and brookite TiO ₂ . 2012 , 24, 195503	357
804	Photocatalytic CO ₂ Reduction with H ₂ O on TiO ₂ Nanocrystals: Comparison of Anatase, Rutile, and Brookite Polymorphs and Exploration of Surface Chemistry. 2012 , 2, 1817-1828	618
803	Room Temperature Synthesis and Thermal Evolution of Porous Nanocrystalline TiO ₂ Anatase. 2012 , 24, 245-254	43
802	Low-temperature route to crystalline titania network structures in thin films. 2012 , 13, 2412-7	20
801	Enhancement of cyclability of urchin-like rutile TiO ₂ submicron spheres by nanopainting with carbon. 2012 , 22, 15981	55
800	Structural and polarization properties of polyimide/TiO ₂ nanocomposites. 2012 , 18, 565-572	11
799	Band gap coupling in photocatalytic activity in ZnO/TiO ₂ thin films. 2012 , 108, 291-297	39
798	In ³⁺ -doped TiO ₂ and TiO ₂ /In ₂ S ₃ nanocomposite for photocatalytic and stoichiometric degradations. 2012 , 88, 265-76	31
797	Titanium Oxide Nanoparticles Precipitated from Low-Temperature Aqueous Solutions: III. Thin Film Properties. 2012 , 95, 676-683	10
796	A new method for preparation of rutile phase titania photoactive under visible light. 2012 , 24, 5-10	23
795	Photo-catalyzed degradation of hazardous dye methyl orange by use of a composite catalyst consisting of multi-walled carbon nanotubes and titanium dioxide. 2012 , 371, 101-6	851
794	Effect of synthesis temperature on structure, optical and photovoltaic properties of TiO ₂ nanorod thin films. 2012 , 65, 44-49	23
793	Fabrication and characterization of titania inverse opals using supercritical carbon dioxide. 2012 , 67, 71-75	3
792	Sorption and optical properties of sol-gel thin films measured by X-Ray Reflectometry and Ellipsometric Porosimetry. 2012 , 520, 4853-4862	12
791	Two step synthesis of a mesoporous titania-silica composite from titanium oxychloride and sodium silicate. 2012 , 217, 489-496	39

790	The potential health risk of titania nanoparticles. 2012 , 211-212, 404-13	22
789	Luminescence characteristics of cobalt doped TiO ₂ nanoparticles. 2012 , 132, 178-184	103
788	Highly photoactive, low bandgap TiO ₂ nanoparticles wrapped by graphene. 2012 , 24, 1084-8	783
787	X-ray diffraction study of iPP/cand iPP/TiO ₂ composites relating to micromechanical properties. 2012 , 124, 3147-3153	6
786	Preparation and nonlinear optical properties of Au nanoparticles doped TiO ₂ thin films. 2013 , 67, 527-533	9
785	Huge increase in gas phase nanoparticle generation by pulsed direct current sputtering in a reactive gas admixture. 2013 , 103, 033118	32
784	Doping of TiO ₂ -GO and TiO ₂ -rGO with noble metals: synthesis, characterization and photocatalytic performance for azo dye discoloration. 2013 , 89, 1038-46	26
783	Synthesis of magnetic rattle-type nanostructures for use in water treatment. 2013 , 5, 2540-8	46
782	Emerging polymorphism in nanostructured TiO ₂ : Quantum chemical comparison of anatase, rutile, and brookite clusters. 2013 , 113, 2611-2620	26
781	Effect of processing methods on physicochemical properties of titania nanoparticles produced from natural rutile sand. 2013 , 24, 972-979	25
780	Anatase colloidal solutions suitable for inkjet printing: Enhancing lifetime of hybrid organic solar cells. 2013 , 116, 27-33	24
779	Hydrolysis of TiOCl ₂ leached and purified from low-grade ilmenite mineral. 2013 , 139, 88-94	11
778	Preparation of mesoporous TiO ₂ /CNT nanocomposites by synthesis of mesoporous titania via EISA and their photocatalytic degradation under visible light irradiation. 2013 , 26, 45-52	30
777	Direct Formation of Crystalline Phase Pure Rutile TiO ₂ Nanostructures by a Facile Hydrothermal Method. 2013 , 13, 4730-4734	33
776	Structural and optical characteristics of filtered vacuum arc deposited N:TiO _x thin films. 2013 , 537, 28-35	5
775	DFT model cluster studies of O ₂ adsorption on hydrogenated titania sub-nanoparticles. 2013 , 19, 5063-73	14
774	The role of CuO in promoting photocatalytic hydrogen production over TiO ₂ . 2013 , 38, 15036-15048	111
773	Rheological and volumetric properties of TiO ₂ -ethylene glycol nanofluids. 2013 , 8, 286	101

772	Monitoring of potential cytotoxic and inhibitory effects of titanium dioxide using on-line and non-invasive cell-based impedance spectroscopy. 2013 , 777, 78-85	10
771	Analyzing UV/Vis/NIR and Photo-Acoustic Spectra: A Note to the Band Gap of $\text{Ti}_{1-x}\text{Si}_x\text{O}_2$. 2013 , 26, 156-161	2
770	Preparation and visible light induced photocatalytic activity of C-NaTaO ₃ and C-NaTaO ₃ -Cl-TiO ₂ composite. 2013 , 15, 20633-40	42
769	Physical properties of nanoscale TiO ₂ with mild rare earth ion doping. 2013 ,	1
768	Incorporation of titanium dioxide nanoparticles in mortars Influence of microstructure in the hardened state properties and photocatalytic activity. 2013 , 43, 112-120	121
767	Porous TiO ₂ microspheres with tunable properties for photocatalytic air purification. 2013 , 20, 445-51	42
766	Selective Crystal Structure Synthesis and Sensing Dependencies. 2013 , 167-188	5
765	Synthesis of ceramic nanoparticles by laser pyrolysis: From research to applications. 2013 , 104, 461-469	49
764	Phase growth control in low temperature PLD Co: TiO ₂ films by pressure. 2013 , 13, 670-676	15
763	Morphology, photocleaning and water wetting properties of cotton fabrics, modified with titanium dioxide coatings synthesized with plasma enhanced chemical vapor deposition technique. 2013 , 217, 51-57	33
762	Liver alterations in two freshwater fish species (<i>Carassius auratus</i> and <i>Danio rerio</i>) following exposure to different TiO ₂ nanoparticle concentrations. 2013 , 19, 1131-40	30
761	Brookite, the Least Known TiO ₂ Photocatalyst. <i>Catalysts</i> , 2013 , 3, 36-73	4 392
760	A theoretical study of the optical properties of nanostructured TiO ₂ . 2013 , 25, 115304	24
759	Transparent, photocatalytic, titania thin films formed at low temperature. 2013 , 13, 142-147	13
758	The impact of ZnO load, stability and morphology on the kinetics of the photocatalytic degradation of caffeine and resazurin. 2013 , 136-137, 202-209	22
757	Low temperature chemically synthesized rutile TiO ₂ photoanodes with high electron lifetime for organic dye-sensitized solar cells. 2013 , 49, 2921-3	35
756	TiO ₂ /SnO ₂ nanomaterials for gas sensing and photocatalysis. <i>Journal of the European Ceramic Society</i> , 2013 , 33, 2285-2290	6 64
755	Cyclodextrin-functionalized Fe ₃ O ₄ @TiO ₂ : reusable, magnetic nanoparticles for photocatalytic degradation of endocrine-disrupting chemicals in water supplies. 2013 , 7, 4093-104	236

754	Functionalization of textile materials with TiO ₂ nanoparticles. 2013 , 16, 62-76		153
753	N-doped rutile TiO ₂ nano-rods show tunable photocatalytic selectivity. 2013 , 575, 40-47		51
752	Preparation and characterization of chemically bonded aramid-titania hybrids using isocyanatopropyltrimethoxysilane. 2013 , 65, 243-254		3
751	Reactive sputter deposition of Al doped TiO _x thin films using titanium targets with aluminium inserts. 2013 , 578, 44-49		4
750	Synthesis and characterization of polyurethane/titanium dioxide nanocomposites obtained by in situ polymerization. 2013 , 70, 1819-1833		39
749	Controlling Adsorption Structure of Eosin Y Dye on Nanocrystalline TiO ₂ Films for Improved Photovoltaic Performances. 2013 , 117, 14659-14666		40
748	A simple and generic approach for synthesizing colloidal metal and metal oxide nanocrystals. 2013 , 5, 7368-78		21
747	Bicrystalline TiO ₂ with controllable anataseBrookite phase content for enhanced CO ₂ photoreduction to fuels. 2013 , 1, 8209		193
746	Hydrothermal in situ preparation of TiO ₂ particles onto poly(lactic acid) electrospun nanofibres. <i>Applied Surface Science</i> , 2013 , 264, 375-382	6.7	38
745	Effective optoelectronic and photocatalytic response of Eu ³⁺ -doped TiO ₂ nanoscale systems synthesized via a rapid condensation technique. 2013 , 28, 1471-1480		12
744	Surface photovoltage phase spectra for analysing the photogenerated charge transfer and photocatalytic activity of ZnFe ₂ O ₄ -TiO ₂ nanotube arrays. 2013 , 15, 14262-9		22
743	Hydrostatic and [001] Uniaxial Pressure on Anatase TiO ₂ by Periodic B3LYP-D* Calculations. 2013 , 117, 7050-7061		19
742	Spectral broadening in anatase titanium dioxide waveguides at telecommunication and near-visible wavelengths. 2013 , 21, 18582-91		30
741	The Effect of Annealing on the Structural and Optical Properties of Titanium Dioxide Films Deposited by Electron Beam Assisted PVD. <i>Advances in Materials Science and Engineering</i> , 2013 , 2013, 1-10	1.5	4
740	Inactivation of E. Coli in Water Using Photocatalytic, Nanostructured Films Synthesized by Aerosol Routes. <i>Catalysts</i> , 2013 , 3, 247-260	4	11
739	Emergent Synthesis of Bismuth Subcarbonate Nanomaterials with Various Morphologies towards Photocatalytic Activities - An Overview. 2013 , 764, 169-193		12
738	Local structure modification and phase transformation of TiO ₂ nanoparticles initiated by oxygen defects, grain size, and annealing temperature. 2013 , 3, 1		91
737	Preparation of Nano Crystalline Titanium Dioxide by Microwave Hydrothermal Method. 2013 , 829, 846-850		4

736	A transparent Pyrex Reactor for combined in situ optical characterization and photocatalytic reactivity measurements. 2013 , 84, 103910	5
735	DIELECTRIC AND OPTICAL BEHAVIOR OF STRONTIUM DOPED TiO ₂ SYNTHESIZED BY SOLID STATE REACTION METHOD. 2013 , 22, 336-339	
734	Synthesis of Titanium Dioxide Nanocrystals with Controlled Crystal- and Micro-Structures from Titanium Complexes. 2013 , 3, 23	29
733	Properties of Electrospun TiO ₂ Nanofibers. 2014 , 2014, 1-5	35
732	Photostabilization of polypropylene by surface modified rutile-type TiO ₂ nanorods. 2014 , 131, n/a-n/a	15
731	Synthesis of Multiwalled Carbon Nanotubes-Titania Nanomaterial for Desulfurization of Model Fuel. 2014 , 2014, 1-6	21
730	Physical and electrical characterization of TiO ₂ particles after high temperature processing and before and after ultraviolet irradiation. 2014 , 92, 832-837	1
729	Reliable optical characterization of e-beam evaporated TiO ₂ films deposited at different substrate temperatures. 2014 , 53, A8-15	8
728	Teflon impregnated anatase TiO ₂ nanoparticles irradiated by 80 keV Xe + ions. 2014 , 336, 135-142	4
727	Acute exposure to titanium dioxide (TiO ₂) induces oxidative stress in zebrafish gill tissues. 2014 , 96, 890-905	15
726	Insights into a selective synthesis of anatase, rutile, and brookite-type titanium dioxides by a hydrothermal treatment of titanium complexes. 2014 , 29, 90-97	9
725	A facile strategy to fabricate high-quality single crystalline brookite TiO ₂ nanoarrays and their photoelectrochemical properties. 2014 , 6, 13900-9	33
724	Structural investigations of TiO ₂ /WO ₃ /Au porous composites. <i>Journal of Molecular Structure</i> , 2014 , 1073, 150-156	3-4 9
723	Nano-quantum size effect in sol-gel derived mesoporous titania layers deposited on soda-lime glass substrate. 2014 , 62, 128-135	2
722	Visible light responsive titanium dioxide/cyclodextrin/bullerene composite with reduced charge recombination and enhanced photocatalytic activity. 2014 , 70, 249-257	33
721	Material Dependence of Water Interactions with Metal Oxide Nanoparticles. 2014 , 69, 303-332	5
720	Broadband sensitization of downconversion phosphor YPO ₄ by optimizing TiO ₂ substitution in host lattice co-doped with Pr ³⁺ -Yb ³⁺ ion-couple. <i>Journal of Applied Physics</i> , 2014 , 115, 123103	2-5 4
719	Macroscopic TiO ₂ /SiO ₂ porous beads: Efficient photocatalysts with enhanced reusability for the degradation of pollutants. 2014 , 311, 404-411	25

718	Effect of synthesis temperature on properties of nanoscale rutile with high surface area. 2014 , 9, 21-25	2
717	Serendipity following attempts to prepare C-doped rutile TiO ₂ . 2014 , 470, 434-441	10
716	Titanium Dioxide Mesoporous Electrodes for Solid-State Dye-Sensitized Solar Cells: Cross-Analysis of the Critical Parameters. 2014 , 4, 1301362	7
715	Effect of a Chelating Agent on the Physicochemical Properties of TiO ₂ : Characterization and Photocatalytic Activity. 2014 , 144, 890-904	10
714	Anti-angiogenic effect of bare titanium dioxide nanoparticles on pathologic neovascularization without unbearable toxicity. 2014 , 10, 1109-17	33
713	Hydrothermal Synthesis of BaTiO ₃ Nanopowders Using TiO ₂ Nanoparticles. 2014 , 97, 346-349	14
712	Oxidative stress induced by inorganic nanoparticles in bacteria and aquatic microalgae--state of the art and knowledge gaps. 2014 , 8, 605-30	220
711	Rationale for the crystallization of titania polymorphs in solution. 2014 , 6, 14716-23	16
710	Opportunities and Challenges in the Use of TiO ₂ Nanoparticles Modified with Citric Acid to Synthesize Advanced Nanocomposites Based on Poly(amide-imide) Containing N,N'-(Pyromellitoyl)-bis-L-leucine Segments. 2014 , 19, 750-764	12
709	Dimensional and phase characteristics of aluminum oxide and titanium dioxide nanoparticles. 2014 , 9, 492-501	1
708	Influence of Fe catalytic doping on the properties of TiO ₂ nanoparticles synthesized by microwave method. 2014 , 25, 5089-5094	12
707	Enhancement of UV Property on Cotton Fabric by TiO ₂ Nanorods. 2014 , 44, 748-758	5
706	An RAPET approach to in situ synthesis of carbon modified Li ₄ Ti ₅ O ₁₂ anode nanocrystals with improved conductivity. <i>New Journal of Chemistry</i> , 2014 , 38, 616-623	3.6 15
705	Polymorphic transformations and optical properties of graphene-based Ag-doped titania nanostructures. 2014 , 16, 23874-83	14
704	Synthesis of Cuboid-Shaped Single-Crystalline TiO ₂ Nanocrystals with High-Energy Facets {001} and Its Dye-Sensitized Solar Cell Application. 2014 , 118, 16703-16709	24
703	Vibrational study of adsorption of Congo red onto TiO ₂ and the LSPR effect on its photocatalytic degradation process. 2014 , 4, 23351-23358	13
702	Facile synthesis of luminescent TiO ₂ nanorods using an anionic surfactant: Their photosensitization and photocatalytic efficiency. 2014 , 147, 761-771	10
701	Probing the optical property and electronic structure of TiO ₂ nanomaterials for renewable energy applications. <i>Chemical Reviews</i> , 2014 , 114, 9662-707	68.1 368

700	Hydrothermal synthesis of rutile anatase TiO ₂ nanobranched arrays for efficient dye-sensitized solar cells. <i>Applied Surface Science</i> , 2014 , 320, 487-493	6.7	32
699	Charge Transport and Recombination in TiO ₂ Brookite-Based Photoelectrodes. 2014 , 118, 23459-23467		33
698	The effect of titanium dioxide nanoparticles on antioxidant gene expression in tilapia (<i>Oreochromis niloticus</i>). 2014 , 16, 1		20
697	Structural characteristics and mechanical and thermodynamic properties of nanocrystalline TiO ₂ . <i>Chemical Reviews</i> , 2014 , 114, 9613-44	68.1	226
696	Parameters Influencing the Photocatalytic Activity of Suspension-Sprayed TiO ₂ Coatings. 2014 , 23, 1037-1053		21
695	Simple synthesis of water-dispersible and photoactive titanium dioxide nanoparticles using functionalized poly(ethylene oxide)s. 2014 , 22, 445-456		4
694	Phytosynthesis of nanoparticles: concept, controversy and application. 2014 , 9, 229		228
693	Metal Oxides as Acid-Base Catalytic Materials. 2014 , 103-195		5
692	Adsorption of fluoride from aqueous solution using different phases of microbially synthesized TiO ₂ nanoparticles. <i>Journal of Environmental Chemical Engineering</i> , 2014 , 2, 444-454	6.8	35
691	High visible-light active Ir-doped-TiO ₂ brookite photocatalyst synthesized by hydrothermal microwave-assisted process. <i>Catalysis Today</i> , 2014 , 230, 214-220	5.3	23
690	Purification of titania nanoparticle thin films: Triviality or a challenge?. <i>Ceramics International</i> , 2014 , 40, 7125-7132	5.1	2
689	Rapid synthesis of high surface area anatase Titanium Oxide quantum dots. <i>Ceramics International</i> , 2014 , 40, 12675-12680	5.1	11
688	Photo-catalytic activity of titanium dioxide carbon nanotube nano-composites modified with silver and palladium nanoparticles. 2014 , 156-157, 273-283		38
687	Micro-structural investigations of spray hydrolyzed TiO ₂ . 2014 , 584, 101-107		5
686	Preparation and lithium intercalation behavior of TiO ₂ in aqueous solutions. 2014 , 52, 103-107		3
685	Synthesis of TiO ₂ based on hydrothermal methods using elevated pressures and microwave conditions. 2014 , 116, 1241-1248		5
684	Polymorphic phase transition among the titania crystal structures using a solution-based approach: from precursor chemistry to nucleation process. 2014 , 6, 11574-632		183
683	Construction of titania/ceria nanostructured composites with tailored heterojunction for photocurrent enhancement. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 1523-1535	6	10

682	Progress in the synthesis and applications of hierarchical flower-like TiO ₂ nanostructures. 2014 , 15, 61-70	33
681	Superhydrophilic and Superamphiphilic Coatings. 2015 , 96-132	4
680	Theoretical limits of thermoelectric figure of merit in n-type TiO ₂ polymorphs. 2015 , 91,	26
679	Influences of annealing temperature on microstructure and properties for TiO ₂ films deposited by DC magnetron sputtering. 2015 , 54, 125501	4
678	Anomalous behavior of B1g mode in highly transparent anatase nano-crystalline Nb-doped Titanium Dioxide (NTO) thin films. 2015 , 5, 127212	9
677	Optical response of columnar TiO ₂ :Co on Si substrate. 2015 ,	
676	Solid Solutions of Rare Earth Cations in Mesoporous Anatase Beads and Their Performances in Dye-Sensitized Solar Cells. <i>Scientific Reports</i> , 2015 , 5, 16785	4.9 12
675	Structural and Morphological Study of PS-TiO ₂ Nanocomposite Membranes. 2015 , 357, 200-205	3
674	Heterojunction synergies in titania-supported gold photocatalysts: implications for solar hydrogen production. 2015 , 8, 2551-9	22
673	Titania-Silica Materials for Enhanced Photocatalysis. 2015 , 21, 18338-44	4
672	Enhanced Photocatalytic Activity of Pure Anatase TiO ₂ and Pt-TiO ₂ Nanoparticles Synthesized by Green Microwave Assisted Route. 2015 , 18, 473-481	59
671	Indoor Decontamination Textiles by Photocatalytic Oxidation: A Review. 2015 , 2015, 1-9	18
670	Synthesis of visible light-responsive cobalt-doped TiO ₂ nanoparticles with tunable optical band gap. 2015 , 75, 424-435	21
669	Ultrathin films of TiO ₂ nanoparticles at interfaces. 2015 , 31, 1385-92	18
668	Thermal conductivity of dry anatase and rutile nano-powders and ethylene and propylene glycol-based TiO ₂ nanofluids. 2015 , 83, 67-76	67
667	A density functional study of structural, electronic and optical properties of titanium dioxide: Characterization of rutile, anatase and brookite polymorphs. 2015 , 31, 405-414	45
666	Doping mechanism of Vanadia/Titania nanoparticles in flame synthesis by a novel optical spectroscopy technique. 2015 , 35, 2283-2289	21
665	Combined toxicity of two crystalline phases (anatase and rutile) of Titania nanoparticles towards freshwater microalgae: <i>Chlorella</i> sp. 2015 , 161, 154-69	93

664	Design of TiO ₂ /Au nanoparticle films with controlled crack formation and different architectures using a centrifugal strategy. 2015 , 5, 7007-7017		8
663	A relationship between structural and electronic order-disorder effects and optical properties in crystalline TiO ₂ nanomaterials. 2015 , 44, 3159-75		73
662	Biphasic anatase-brookite nanoparticles prepared by sol-gel complex synthesis and their photocatalytic activity in hydrogen production. 2015 , 40, 2950-2962		19
661	Sol-gel synthesis of photoactive kaolinite-titania: Effect of the preparation method and their photocatalytic properties. <i>Applied Surface Science</i> , 2015 , 331, 98-107	6.7	14
660	Laser-ablated titania nanoparticles for aqueous processed hybrid solar cells. 2015 , 7, 2900-4		18
659	Chromia on Anatase: A Catalyst for Selective Hydrocarbon Combustion in the Presence of CO. 2015 , 7, 261-270		0
658	Study the target effect on the structural, surface and optical properties of TiO ₂ thin film fabricated by RF sputtering method. 2015 , 80, 215-221		38
657	Preparation and Characterization of Rutile-Type TiO ₂ Doped with Cu. 2015 , 24, 1243-1252		14
656	Effect of seed particles on crystallization and crystallite size of anatase TiO ₂ nanocrystals by solvothermal treatment. 2015 , 26, 1225-1229		11
655	Novel Au/TiO ₂ photocatalysts for hydrogen production in alcohol/water mixtures based on hydrogen titanate nanotube precursors. 2015 , 330, 238-254		69
654	Synthesis and characterization of Fe ₃ O ₄ /TiO ₂ magnetic and photocatalyst bifunctional core-shell with superparamagnetic performance. 2015 , 130, 1		15
653	Facile Preparation of TiO ₂ Nanoclusters on Graphene Templates for Photodegradation of Organic Compounds. 2015 , 31, 840-844		5
652	Fabrication of 3D inverse opal structured photonic crystal by using wedge-shaped cell method. 2015 , 15, 1000-1004		3
651	Effect of TiO ₂ polymorph and alcohol sacrificial agent on the activity of Au/TiO ₂ photocatalysts for H ₂ production in alcohol/water mixtures. 2015 , 329, 499-513		114
650	Ultrafast sodium storage in anatase TiO ₂ nanoparticles embedded on carbon nanotubes. <i>Nano Energy</i> , 2015 , 16, 218-226	17.1	112
649	Comparing Quasiparticle H ₂ O Level Alignment on Anatase and Rutile TiO ₂ . 2015 , 5, 4242-4254		35
648	Sol-gel synthesis of vanadium doped titania: Effect of the synthetic routes and investigation of their photocatalytic properties in the presence of natural sunlight. <i>Applied Surface Science</i> , 2015 , 351, 1213-1223	6.7	24
647	ZnO nanorods covered with a TiO ₂ layer: simple sol-gel preparation, and optical, photocatalytic and photoelectrochemical properties. 2015 , 3, 12748-12760		62

646	Picosecond laser generation of Ag/TiO ₂ nanoparticles with reduced energy gap by ablation in ice water and their antibacterial activities. 2015 , 119, 1387-1396	16
645	Highly selective acetaldehyde sensor using sol-gel dip coated nano crystalline TiO ₂ thin film. 2015 , 26, 5135-5139	15
644	Controlled nanostructuring of TiO ₂ nanoparticles: a sol-gel approach. 2015 , 74, 299-309	25
643	Detection and characterization of SiO ₂ and TiO ₂ nanostructures in dietary supplements. 2015 , 63, 3144-52	49
642	Effect of Cr incorporation on the properties of TiO ₂ nanoparticles synthesized by microwave technique. 2015 , 26, 3790-3796	7
641	An electrochemical investigation of rutile TiO ₂ microspheres anchored by nanoneedle clusters for sodium storage. 2015 , 17, 15764-70	66
640	Nano-titania doped with europium and neodymium showing simultaneous photoluminescent and photocatalytic behaviour. 2015 , 3, 4970-4986	41
639	Analysis of Quantized Electrical Characteristics of Microscale TiO ₂ Ink-Jet Printed Memristor. 2015 , 62, 1898-1904	8
638	ZnO:Ag and TZO:Ag Plasmonic Nanocomposite for Enhanced Dye Sensitized Solar Cell Performance. 2015 , 167, 179-186	26
637	Ni/TiO ₂ : A promising low-cost photocatalytic system for solar H ₂ production from ethanol/water mixtures. 2015 , 326, 43-53	131
636	High visible light photocatalytic property of Co ²⁺ -doped TiO ₂ nanoparticles with mixed phases. 2015 , 88, 32-42	17
635	Doped TiO ₂ nanophotocatalysts for leather surface finishing with self-cleaning properties. 2015 , 12, 1153-1163	20
634	Preparation of fluorescein-functionalized electrospun fibers coated with TiO ₂ and gold nanoparticles for visible-light-induced photocatalysis. 2015 , 163, 213-218	8
633	Organo-montmorillonite supported titania nanocomposite synthesized by using poly(methyl methacrylate) grafted cellulose as template and its application in photodegradation. 2015 , 22, 3189-3198	12
632	Hydrothermal synthesis of TiO ₂ nanostructure films and their photoelectrochemical properties. <i>Applied Surface Science</i> , 2015 , 358, 418-424	6.7 15
631	Titania-Coated Magnetite and Ni-Ferrite Nanocomposite-Based RADAR Absorbing Materials for Camouflaging Application. 2015 , 54, 1483-1493	4
630	Photocatalytic disinfection of water by bacterial cellulose/Ni co-doped TiO ₂ under fluorescent light. 2015 , 22, 3321-3335	31
629	Synthesis of a montmorillonite-supported titania nanocomposite with grafted cellulose as a template and its application in photocatalytic degradation. 2015 , 132, n/a-n/a	17

628	Anatase/rutile bi-phasic titanium dioxide nanoparticles for photocatalytic applications enhanced by nitrogen doping and platinum nano-islands. 2015 , 460, 29-35	21
627	Generation of silver titania nanoparticles from an Ag ₃ Ti alloy via picosecond laser ablation and their antibacterial activities. 2015 , 5, 72981-72994	18
626	Photocatalytic degradation of alprazolam in water suspension of brookite type TiO ₂ nanopowders prepared using hydrothermal route. 2015 , 163, 518-528	27
625	Comparative evaluation of the effect of different types of surface modifiers on bioactivity of porous titanium implants. 2015 , 56, 469-476	8
624	Tuning oxide activity through modification of the crystal and electronic structure: from strain to potential polymorphs. 2015 , 17, 28943-9	26
623	New insights into the relationship between structure and photocatalytic properties of TiO ₂ catalysts. 2015 , 5, 2421-2428	17
622	Sol-gel synthesis of mesoporous anatase-brookite and anatase-brookite-rutile TiO ₂ nanoparticles and their photocatalytic properties. 2015 , 442, 1-7	156
621	Synthesis of TiO ₂ nanoparticles by self-assembling reverse micelle cores of PS-b-PAA for functional textile applications. 2015 , 64, 117-122	6
620	Effect of the TiO ₂ Crystallite Size, TiO ₂ Polymorph and Test Conditions on the Photo-Oxidation Rate of Aqueous Methylene Blue. 2015 , 58, 85-102	23
619	Titanium dioxide encapsulation of supported Ag nanoparticles on the porous silica bead for increased photocatalytic activity. <i>Applied Surface Science</i> , 2015 , 326, 82-90	6.7 22
618	Enhanced photocatalytic H ₂ production activity of bicomponent NiO/TiO ₂ composite nanofibers. 2015 , 449, 115-21	116
617	Remediation of 17- β -ethinylestradiol aqueous solution by photocatalysis and electrochemically-assisted photocatalysis using TiO ₂ and TiO ₂ /WO ₃ electrodes irradiated by a solar simulator. 2015 , 72, 305-14	50
616	Design of crystal structures, morphologies and functionalities of titanium oxide using water-soluble complexes and molecular control agents. 2015 , 47, 78-83	9
615	Enhanced photocatalytic activity of single-phase, nanocomposite and physically mixed TiO ₂ polymorphs. 2015 , 489, 51-60	28
614	Batch and Flow Synthesis of Disulfides by Visible-Light-Induced TiO ₂ Photocatalysis. 2016 , 9, 1781-5	59
613	Hierarchical Organization of TiO ₂ Nanostructures in Low-Temperature Solution Processes. 2016 , 99, 431-439	3
612	The effect of pH on the nucleation of titania by hydrolysis of TiCl ₄ . 2016 , 47, 288-294	6
611	Eosin-Y and Rose Bengal sensitized solar cell characteristics of N-doped nanocrystalline TiO ₂ films. 2016 ,	

610	Analog switching in the nanocolloids of ferroelectric liquid crystals. 2016 , 108, 262903	8
609	Strain induced phase formation, microstructural evolution and bandgap narrowing in strained TiO ₂ nanocrystals grown by ball milling. 2016 , 676, 591-600	85
608	Use of compositional and combinatorial nanomaterial libraries for biological studies. 2016 , 61, 755-771	10
607	Tunable Band-Selective UV-Photodetectors by 3D Self-Assembly of Heterogeneous Nanoparticle Networks. <i>Advanced Functional Materials</i> , 2016 , 26, 7359-7366	15.6 44
606	Applications of Nanoparticles through Surface Functionalization. 2016 , 91-105	3
605	Melanoma Prevention: Challenges and Progresses in Nanotechnology for Melanoma Prevention and Treatment. 2016 , 480-497	
604	Preparation and characterization of single crystalline anatase TiO ₂ epitaxial films on LaAlO ₃ (001) substrates by metal organic chemical vapor deposition. 2016 , 124, 76-80	4
603	First-principles study of relative stability of rutile and anatase TiO using the random phase approximation. 2016 , 18, 29914-29922	40
602	Promising field electron emission performance of vertically aligned one dimensional (1D) brookite (TiO ₂) nanorods. 2016 , 6, 98722-98729	16
601	Review of functional titanium oxides. I: TiO ₂ and its modifications. 2016 , 44, 86-105	182
600	Rutile nanotubes by electrochemical anodization. 2016 , 6, 74510-74514	5
599	Observation of Titania and Titanate Phase Changes in Oxidation-Controlled ZnO/TiN and HfO ₂ /TiN Thin Films: An X-ray Absorption Spectroscopy Study. 2016 , 120, 18674-18681	7
598	Single oxygen vacancies of (TiO ₂) ₃₅ as a prototype reduced nanoparticle: implication for photocatalytic activity. 2016 , 18, 23755-62	28
597	Steady-State, Scalable Production of Mesoporous Rutile and Brookite Particles and Their Use in Energy Conversion and Storage Cells. 2016 , 2, 980-988	3
596	Structural and optical characteristic of single crystal rutile-titania nanowire arrays prepared in alumina membranes. 2016 , 182, 148-154	15
595	Influence of TiO ₂ nanostructures on anti-adhesion and photoinduced bactericidal properties of thin film composite membranes. 2016 , 6, 82941-82948	15
594	Synthesis, characterization and multifunctional properties of plasmonic Ag-TiO ₂ nanocomposites. <i>Nanotechnology</i> , 2016 , 27, 355707	3-4 59
593	TiO ₂ anatase's bulk and (001) surface, structural and electronic properties: A DFT study on the importance of Hubbard and van der Waals contributions. 2016 , 653, 187-196	33

592	Magnetic Properties of Cobalt and Nitrogen Co-modified Titanium Dioxide Nanocomposites. 2016 , 109-125	1
591	Pulsed electric field assisted sol-gel preparation of TiO ₂ nanoparticles. 2016 , 451, 200-206	2
590	Far- and deep-ultraviolet spectroscopic investigations for titanium dioxide: electronic absorption, Rayleigh scattering, and Raman spectroscopy. 2016 , 4, 7706-7717	28
589	Preparation of nanocrystalline titania thin films by using pure and water-modified supercritical carbon dioxide. 2016 , 117, 289-296	4
588	D-sorbitol-induced phase control of TiO ₂ nanoparticles and its application for dye-sensitized solar cells. <i>Scientific Reports</i> , 2016 , 6, 20103	4.9 67
587	Ultra-Porous Nanoparticle Networks: A Biomimetic Coating Morphology for Enhanced Cellular Response and Infiltration. <i>Scientific Reports</i> , 2016 , 6, 24305	4.9 19
586	Equilibrium state of anatase to rutile transformation for nano-structured Titanium Dioxide powder using polymer template method.. 2016 , 115, 012038	3
585	The influence of temperature, pressure and Ag doping on the physical properties of TiO nanoceramics. 2016 , 8, 19703-19713	5
584	Synthesis and characterization of TiO ₂ thin films for DSSC prototype. <i>Materials Today: Proceedings</i> , 2016 , 3, 2052-2061	1.4 13
583	Unusual Changes in Electronic Band-Edge Energies of the Nanostructured Transparent n-Type Semiconductor Zr-Doped Anatase TiO ₂ (Ti _{1-x} Zr _x O ₂ ; x 2016, 55, 6574-85	12
582	Pressure dependent luminescence in titanium dioxide particles modified with europium ions. 2016 , 234, 137-144	7
581	Synthesis and some surface studies of laminated ZnO/TiO ₂ transparent bilayer by two-step growth. 2016 , 44, 85-90	6
580	Continuous-reactor, pH-controlled synthesis of multifunctional mesoporous nanocrystalline anatase aggregates. 2016 , 287, 398-409	7
579	Effects of heat treatment on the atomic structure and surface energy of rutile and anatase TiO ₂ nanoparticles under vacuum and water environments. 2016 , 146, 144-158	10
578	PECVD Synthesis of Flexible Optical Coatings for Renewable Energy Applications. 2016 , 13, 184-190	7
577	Comparative study between dye-sensitized solar cells prepared by electrophoretic and doctor blade techniques. 2016 , 127, 4400-4404	10
576	Photocatalytic production of hydrogen from biomass-derived feedstocks. 2016 , 315, 1-66	238
575	Effect of annealing temperature on the phase transition, structural stability and photo-electrochemical performance of TiO ₂ multi-leg nanotubes. <i>Catalysis Today</i> , 2016 , 278, 255-261	5.3 24

574	Structural and Optical Characterization of Synthesized TiO ₂ Nanopowder Using Sol-Gel Technique. 2016 , 15, 1650002	3
573	Effects of growth substrate on the morphologies of TiO ₂ hierarchical nanoarrays and their optical and photocatalytic properties. 2016 , 27, 2103-2107	10
572	Stable Ti ³⁺ Self-Doped Anatase-Rutile Mixed TiO ₂ with Enhanced Visible Light Utilization and Durability. 2016 , 120, 6116-6124	159
571	Controlled synthesis and electrical conduction properties of anatase TiO ₂ nanoparticles via the polyol method. 2016 , 122, 1	15
570	Porous titania films fabricated via sol gel route. Optical and AFM characterization. 2016 , 56, 64-70	10
569	Electronic structure modification and Fermi level shifting in niobium-doped anatase titanium dioxide thin films: a comparative study of NEXAFS, work function and stiffening of phonons. 2016 , 18, 3618-27	22
568	Effect of calcination on band gaps for electrospun titania nanofibers heated in air-Argon mixtures. 2016 , 92, 480-485	23
567	Corrosion protection of aluminum by electrochemically synthesized composite organic coating. 2016 , 103, 88-94	49
566	Controllable synthesis of Ag@TiO ₂ heterostructures with enhanced photocatalytic activities under UV and visible excitation. 2016 , 6, 1844-1850	29
565	Photodegradation of organic pollutants in water and green hydrogen production via methanol photoreforming of doped titanium oxide nanoparticles. <i>Science of the Total Environment</i> , 2016 , 563-564, 921-32	10.2 35
564	Synthesis of rutile-Brookite TiO ₂ by dealloying Ti-Cu amorphous alloy. 2016 , 73, 290-295	10
563	Dip coated TiO ₂ nanostructured thin film: synthesis and application. 2016 , 89, 107-114	5
562	Electrochemical synthesis of TiO ₂ /Graphene oxide composite films for photocatalytic applications. 2016 , 654, 514-522	20
561	Photocatalytic degradation of high ammonia concentration wastewater by TiO ₂ . 2017 , 1, 12	13
560	Effect of annealing temperature of titanium dioxide thin films on structural and electrical properties. 2017 ,	43
559	Photocatalytic performance and magnetic separation of TiO ₂ -functionalized Fe ₂ O ₃ , Fe, and Fe/Fe ₂ O ₃ magnetic particles. 2017 , 700, 113-121	17
558	Photoactive Semiconducting Oxides for Energy and Environment: Experimental and Theoretical Insights. 2017 , 983-1030	
557	Boron doped titaniumdioxide nanotube arrays: production, characterization and photocatalytic properties. 2017 , 24, 1295-1302	3

556	Micro-mesoporous N-doped brookite-rutile TiO ₂ as efficient catalysts for water remediation under UV-free visible LED radiation. 2017 , 346, 109-116	36
555	Quantum chemical calculations of the structural influence on electronic properties in TiO ₂ nanocrystals. 2017 , 115, 2209-2217	2
554	Photocatalytic performance of crystalline titania polymorphs in the degradation of hazardous pharmaceuticals and dyes. 2017 , 8, 015011	11
553	Porous BN/TiO ₂ hybrid nanosheets as highly efficient visible-light-driven photocatalysts. 2017 , 207, 72-78	67
552	Controlled crystal phase of TiO ₂ by spray pyrolysis method. 2017 , 817, 012021	5
551	Effect of Cr ³⁺ concentration on structural and optical properties of TiO ₂ :Cr ³⁺ anatase and rutile phases. 2017 , 69, 30-37	9
550	ZSM-5/TiO ₂ Hybrid Photocatalysts: Influence of the Preparation Method and Synergistic Effect. 2017 , 60, 1171-1182	12
549	Application of doped photocatalysts for organic pollutant degradation - A review. 2017 , 198, 78-94	329
548	Impact of Source/Drain Metal Work Function on the Electrical Characteristics of Anatase TiO ₂ -Based Thin Film Transistors. 2017 , 6, P379-P382	11
547	Bilayer composites consisting of gold nanorods and titanium dioxide as highly sensitive and self-cleaning SERS substrates. 2017 , 184, 2805-2813	15
546	Ag/TiO ₂ (Metal/Metal Oxide) Core Shell Nanoparticles for Biological Applications. 2017 , 9-17	5
545	Controlling Oriented Attachment and in Situ Functionalization of TiO ₂ Nanoparticles During Hydrothermal Synthesis with APTES. 2017 , 121, 11897-11906	17
544	The synthesis and characterization of ytterbium-doped TiO ₂ hollow spheres with enhanced visible-light photocatalytic activity. 2017 , 7, 24598-24606	27
543	Enhanced photoactivity of stable colloidal TiO ₂ nanoparticles prepared in water by nanosecond infrared laser pulses. 2017 , 34, 1822-1826	2
542	Preparation of a p-n heterojunction BiFeO ₃ @TiO ₂ photocatalyst with a core-shell structure for visible-light photocatalytic degradation. 2017 , 38, 1052-1062	45
541	Same titanium glycolate precursor but different products: successful synthesis of twinned anatase TiO ₂ nanocrystals with excellent solar photocatalytic hydrogen evolution capability. 2017 , 4, 1319-1329	29
540	Design, synthesis and characterization of doped-titanium oxide nanomaterials with environmental and angiogenic applications. <i>Science of the Total Environment</i> , 2017 , 599-600, 1263-1274	10.2 33
539	Band alignment and charge transfer pathway in three phase anatase-rutile-brookite TiO ₂ nanotubes: An efficient photocatalyst for water splitting. 2017 , 218, 9-19	84

538	Data set for fabrication of conformal two-dimensional TiO by atomic layer deposition using tetrakis (dimethylamino) titanium (TDMAT) and HO precursors. 2017 , 13, 401-407		8
537	Photocatalysis effect of a novel green synthesis gadolinium doped titanium dioxide nanoparticles on their biological activities. 2017 , 346, 159-167		13
536	Synthesis and optical absorption properties of TiO ₂ nanostructures in SiO ₂ by sequential implantation of Cu and Ti ions. 2017 , 406, 670-675		2
535	Promoter effect of Ga in Pt/Ga-TiO ₂ catalysts for the photo-production of H ₂ from aqueous solutions of ethanol. <i>Catalysis Today</i> , 2017 , 287, 85-90	5:3	7
534	Structural, electronic and optical properties of brookite phase titanium dioxide. 2017 , 4, 044003		7
533	Molybdenum doped TiO ₂ nanocomposite coatings: Visible light driven photocatalytic self-cleaning of mineral substrates. <i>Ceramics International</i> , 2017 , 43, 8214-8221	5:1	13
532	Investigation of the physical properties of Fe:TiO ₂ -diluted magnetic semiconductor nanoparticles. 2017 , 5, 4257-4267		57
531	Ilmenite: Properties and photodegradation kinetic on Reactive Black 5 dye. 2017 , 28, 1613-1618		6
530	Electrospun PVDF/TiO ₂ with tuneable TiO ₂ crystal phases: synthesis and application in photocatalytic redox reactions. 2017 , 5, 641-648		24
529	Interfacial charge-transfer process across ZrO ₂ -TiO ₂ heterojunction and its impact on photocatalytic activity. 2017 , 335, 276-286		52
528	Facile one-pot synthesis of self-assembled quantum-rod TiO ₂ spheres with enhanced charge transport properties for dye-sensitized solar cells and solar water-splitting. 2017 , 697, 222-230		5
527	The effect of thermal annealing on Fe/TiO ₂ coatings deposited with the help of RF PECVD method. Part II. Optical and photocatalytic properties. <i>Ceramics International</i> , 2017 , 43, 4005-4014	5:1	6
526	PEG assisted synthesis of porous TiO ₂ using sol-gel processing and its characterization studies. 2017 , 189, 50-55		12
525	Effects of ionic radii of co-dopants (Mg, Ca, Al and La) in TiO ₂ on performance of dye-sensitized solar cells. 2017 , 141, 249-255		15
524	Epitaxial growth and properties of Nb-doped anatase TiO ₂ films on LSAT by MOCVD. 2017 , 729, 38-42		4
523	Phase Transition of TiO ₂ Nanotubes: An X-ray Study as a Function of Temperature. 2017 , 121, 24871-24876		5
522	Doping and energy band modulation of nanoporous electrodes for enhancing power conversion efficiency of dye-sensitized solar cells. 2017 , 95, 436-443		5
521	Crystalline phase-dependent eco-toxicity of titania nanoparticles to freshwater biofilms. 2017 , 231, 1433-1441	11	

520	Metal oxide sandwiched dye-sensitized solar cells with enhanced power conversion efficiency fabricated by a facile and cost effective method. 2017 , 71, 382-388		8
519	Multiphase TiO ₂ nanostructures: a review of efficient synthesis, growth mechanism, probing capabilities, and applications in bio-safety and health. 2017 , 7, 44199-44224		91
518	Brookite and anatase nanomaterial polymorphs of TiO ₂ synthesized from TiCl ₃ . <i>Inorganic Chemistry Communication</i> , 2017 , 84, 28-32	3.1	15
517	Performance of Erbium-doped TiO ₂ thin film grown by physical vapor deposition technique. 2017 , 123, 1		12
516	Suspension high velocity oxy-fuel spraying of a rutile TiO ₂ feedstock: Microstructure, phase evolution and photocatalytic behaviour. <i>Ceramics International</i> , 2017 , 43, 15288-15295	5.1	14
515	Virtual screening of inorganic materials synthesis parameters with deep learning. 2017 , 3,		96
514	Influence of the anatase/rutile ratio on the charge transport properties of TiO-NTs arrays studied by dual wavelength opto-electrochemical impedance spectroscopy. 2017 , 19, 31469-31478		14
513	Rod-Like Rutile Nanoparticles: Synthesis, Structure and Morphology. 2017 , 50, 32-40		2
512	Actual trends in the elaboration of advanced multifunctional coating systems for the efficient protection of lightweight aircraft alloys. 2017 , 35, 383-396		4
511	A redox-controlled electrolyte for plasmonic enhanced dye-sensitized solar cells. 2017 , 9, 10940-10947		3
510	Sol-gel synthesis of TiO ₂ from TiOSO ₄ : characterization and UV photocatalytic activity for the degradation of 4-chlorophenol. 2017 , 121, 811-832		14
509	Photo-induced properties of photocatalysts: A study on the modified structural, optical and textural properties of TiO ₂ /nAl layered double hydroxide based materials. 2017 , 164, 1-18		44
508	Enhanced antibacterial activity of TiO nanoparticle surface modified with extract. 2017 , 11, 7		43
507	Highly ordered Ag/TiO ₂ nanocomposited arrays with high visible-light photocatalytic activity. 2017 , 11, 241-249		6
506	Controlled synthesis of brookite and combined brookite with rutile phases of titanium di-oxide and its characterization studies. <i>Ceramics International</i> , 2017 , 43, 2438-2440	5.1	7
505	Photocatalytic activity based-optimization of TTIP thin films for E. coli inactivation: Effect of Mn and Cu dopants. <i>Catalysis Today</i> , 2017 , 280, 86-92	5.3	3
504	An easy-to achieve approach for the fabrication of CdS QDs sensitized TiO ₂ nanotubes and their enhanced photoelectrochemical performance. 2017 , 332, 337-344		8
503	Enhanced anti-aging and mechanical properties of polyamide 1010 by sol-hydrothermal synthetic titanium dioxide-coated kaolinite addition. 2017 , 693, 381-388		7

502	Co-modification of amorphous-Ti(IV) hole cocatalyst and Ni(OH) ₂ electron cocatalyst for enhanced photocatalytic H ₂ -production performance of TiO ₂ . <i>Applied Surface Science</i> , 2017 , 391, 259-266	6.7	88
501	Photocatalytic Performance of Highly Active Brookite in the Degradation of Hazardous Organic Compounds Compared to Anatase and Rutile. 2017 , 200, 647-658		56
500	Modeling and optimization of photocatalytic treatment of pre-treated palm oil mill effluent (POME) in a UV/TiO ₂ system using response surface methodology (RSM). 2017 , 4, 1382980		7
499	Synthesis, characterization and properties of titanium dioxide obtained by hydrolytic method. 2017 , ,		5
498	Modeling atmospheric mineral aerosol chemistry to predict heterogeneous photooxidation of SO ₂ . 2017 , 17, 10001-10017		18
497	The Effect of Solvents and Rare-Earth Element (Er, Yb) Doping on Suspension Stability of Sol-Gel Titania Nanoparticles. 2017 , 16, 718-726		3
496	Advanced Multifunctional Corrosion Protective Coating Systems for Light-Weight Aircraft Alloys: Actual Trends and Challenges. 2017 ,		1
495	Photocatalytic TiO ₂ Nanorod Spheres and Arrays Compatible with Flexible Applications. <i>Catalysts</i> , 2017 , 7, 60	4	48
494	One-Dimensional Electron Transport Layers for Perovskite Solar Cells. 2017 , 7,		34
493	Chelated Nitrogen-Sulphur-Codoped TiO ₂ : Synthesis, Characterization, Mechanistic, and UV/Visible Photocatalytic Studies. 2017 , 2017, 1-17		5
492	WO ₃ -Doped TiO ₂ Coating on Charcoal Activated with Increase Photocatalytic and Antibacterial Properties Synthesized by Microwave-Assisted Sol-Gel Method. 2017 , 2017, 1-7		5
491	Recent Characterisation of Sol-Gel Synthesised TiO ₂ Nanoparticles. 2017 ,		7
490	Low-Temperature Sol-Gel Synthesis of Nitrogen-Doped Anatase/Brookite Biphasic Nanoparticles with High Surface Area and Visible-Light Performance. <i>Catalysts</i> , 2017 , 7, 376	4	6
489	Thermal diffusivity control in titanium dioxide nanofluid through phase tuning. 2018 , 5, 075001		23
488	Noble metals-TiO ₂ nanocomposites: From fundamental mechanisms to photocatalysis, surface enhanced Raman scattering and antibacterial applications. 2018 , 11, 82-135		148
487	Enhanced TiO nanorods photocatalysts with partially reduced graphene oxide for degrading aqueous hazardous pollutants. 2018 , 25, 17553-17564		6
486	Electronic Structure of Titania Nanosheets With Vacancies Based on Nonadiabatic Quantum Molecular Dynamics Simulations. 2018 , 255, 1700689		3
485	Structural and electronic properties of (TiO ₂) _N nanowires: A density functional theory investigation. <i>Journal of Physics and Chemistry of Solids</i> , 2018 , 119, 175-182	3.9	3

484	Stability and thermophysical measurements of TiO ₂ (anatase) nanofluids with different surfactants. 2018 , 254, 98-107	50
483	One-Step Electrodeposition of Nanocrystalline TiO ₂ Films with Enhanced Photoelectrochemical Performance and Charge Storage. 2018 , 1, 851-858	20
482	Rutile TiO ₂ films as electron transport layer in inverted organic solar cell. 2018 , 29, 7152-7160	5
481	Reversible phase transformation phenomenon in titanium dioxide films: Evidence beyond interface-nucleation and dissolution-precipitation kinetics. 2018 , 146, 253-264	9
480	Morphological control of 1D and 3D TiO ₂ nanostructures with ammonium hydroxide and TiO ₂ compact layer on FTO coated glass in hydrothermal synthesis. 2018 , 214, 48-55	11
479	The role of hydrothermal conditions in determining 1D TiO ₂ nanomaterials bandgap energies and crystal phases. 2018 , 105, 104-113	19
478	Enhanced UV Flexible Photodetectors and Photocatalysts Based on TiO ₂ Nanoplatfoms. 2018 , 61, 1591-1606	22
477	Milling effect on the photo-activated properties of (hbox {TiO}_{2}) nanoparticles: electronic and structural investigations. 2018 , 41, 1	9
476	Sol-Gel Synthesis of Fe-Doped TiO ₂ Nanocrystals. 2018 , 47, 3741-3748	46
475	Fluorine doped titanium dioxide films manufactured with the help of plasma enhanced chemical vapor deposition technique. 2018 , 650, 78-87	4
474	An in-situ DRIFTS-MS study of the photocatalytic H ₂ production from ethanol(aq) vapour over Pt/TiO ₂ and Pt Ga/TiO ₂ catalysts. 2018 , 43, 16922-16928	6
473	Stable inks for inkjet printing of TiO ₂ thin films. 2018 , 81, 75-81	17
472	Chemical synthesis of highly size-confined triethylamine-capped (hbox {TiO}_{2}) nanoparticles and its dye-sensitized solar cell performance. 2018 , 41, 1	0
471	Investigation on improved performance of Erbium doped TiO ₂ nanowire based UV detector. 2018 , 103, 259-267	30
470	Comparative differences in the behavior of TiO ₂ and SiO ₂ food additives in food ingredient solutions. 2018 , 20, 1	13
469	Optical and photocatalytic properties of lysozyme mediated titanium dioxide nanoparticles. 2018 , 154, 769-776	10
468	Microwave-hydrothermal synthesis and photocatalytic properties of biomass charcoal/TiO ₂ nanocomposites. 2018 , 22, 509-518	14
467	Interparticle electron transfer in methanol dehydrogenation on platinum-loaded titania particles prepared from P25. <i>Catalysis Today</i> , 2018 , 303, 327-333	53 38

466	Comparison of standard DFT and Hubbard-DFT methods in structural and electronic properties of TiO ₂ polymorphs and H-titanate ultrathin sheets for DSSC application. <i>Applied Surface Science</i> , 2018 , 428, 118-123	6.7	27
465	Alignment of Redox Levels at Semiconductor/Water Interfaces. 2018 , 30, 94-111		56
464	Synthesis and photoelectrocatalytic activity of InO hollow microspheres via a bio-template route using yeast templates. 2018 , 47, 708-715		58
463	Anatase TiO ₂ powder: Synthesis, characterization and application for photocatalytic degradation of 3, 4-dihydroxy benzoic acid. 2018 , 156, 268-278		6
462	Study of phase development and thermal stability in as synthesized TiO ₂ nanoparticles by laser pyrolysis: ethylene uptake and oxygen enrichment. <i>Applied Surface Science</i> , 2018 , 427, 798-806	6.7	9
461	Kinetics of gas-phase photooxidation of p -xylene on nano TiO ₂ P25 thin film. 2018 , 9, 045006		4
460	Photocatalytic Activity and Photodegradation Rate Constant of Au-TiO ₂ Nanofilms by Magnetron Sputtering. 2018 , 47, 3316-3320		2
459	Effect of thermal oxidation temperatures on the phase evolution and photocatalytic property of tungsten-doped TiO ₂ thin film. 2018 , 57, 125801		1
458	Observation of Optical Band-Gap Narrowing and Enhanced Magnetic Moment in Co-Doped Sol-Gel-Derived Anatase TiO ₂ Nanocrystals. 2018 , 122, 26592-26604		32
457	Modeling Heterogeneous Oxidation of NO _x , SO ₂ and Hydrocarbons in the Presence of Mineral Dust Particles under Various Atmospheric Environments. 2018 , 301-326		2
456	First principles investigation of electronic properties and high refractive index of rutile TiO ₂ for photovoltaic applications. 2018 ,		2
455	Effect of Acid-Basic Sites Ratio on the Catalytic Activity to Obtain 5-HMF from Glucose Using Al ₂ O ₃ -TiO ₂ -W Catalysts. 2018 , 3, 12854-12864		9
454	Reversible Photodoping of TiO ₂ Nanoparticles for Photochromic Applications. 2018 , 30, 8968-8974		45
453	Direct Imaging of Atomic-Scale Surface Structures of Brookite TiO ₂ Nanoparticles by Frequency Modulation Atomic Force Microscopy in Liquid. 2018 , 122, 24085-24093		7
452	Surface structuring of rutile TiO ₂ (100) and (001) single crystals with femtosecond pulsed laser irradiation. 2018 , 35, 2600		8
451	The Use of Rutile- and Anatase-Titania Layers towards Back Light Scattering in Dye-Sensitized Solar Cells. 2018 , 3, 10475-10482		3
450	Different crystalline forms of titanium dioxide nanomaterial (rutile and anatase) can influence the toxicity of copper in golden mussel <i>Limnoperna fortunei</i> ?. 2018 , 205, 182-192		12
449	Mesoporous Titanium Dioxide: Synthesis and Applications in Photocatalysis, Energy and Biology. <i>Materials</i> , 2018 , 11,	3.5	46

448	Titanium Dioxide Nanoparticle Photocatalysed Degradation of Ibuprofen and Naproxen in Water: Competing Hydroxyl Radical Attack and Oxidative Decarboxylation by Semiconductor Holes. 2018 , 3, 10915-10924		16
447	Stress Relief and Reactivity Loss of Hydrated Anatase (001) Surface. 2018 , 122, 22407-22417		6
446	Tetrahedral framework of inverse opal photonic crystals defines the optical response and photonic band gap. <i>Journal of Applied Physics</i> , 2018 , 124, 095106	2.5	9
445	Electrospinning process parameters dependent investigation of TiO ₂ nanofibers. 2018 , 11, 223-231		31
444	Effects of Embedded TiO Nanoparticles on Triboelectric Nanogenerator Performance. 2018 , 9,		20
443	The structural and electronic properties of TiO ₂ polymorphs towards water splitting reaction. 2018 , 29, 18282-18289		0
442	Novel TiO ₂ Photocatalyst Using Nonaqueous Solvent- Controlled Sol-Gel Route. 2018 ,		1
441	Biocompatible Bi(OH) ₃ nanoparticles with reduced photocatalytic activity as possible ultraviolet filter in sunscreens. 2018 , 108, 130-141		12
440	Influence of the Preparation Temperature on the Photocatalytic Activity of 3D-Ordered Macroporous Anatase Formed with an Opal Polymer Template. 2018 , 1, 2567-2578		6
439	Influence of Iron Doping on Structural, Optical and Magnetic Properties of TiO ₂ Nanoparticles. 2018 , 14, 587-593		14
438	Brookite-Based Dye-Sensitized Solar Cells: Influence of Morphology and Surface Chemistry on Cell Performance. 2018 , 122, 14277-14288		10
437	Investigation of charge-transfer between a 4-mercaptobenzoic acid monolayer and TiO nanoparticles under high pressure using surface-enhanced Raman scattering. 2018 , 54, 6280-6283		12
436	Modification of titanium dioxide by solution plasma. <i>Journal of Physics and Chemistry of Solids</i> , 2018 , 121, 292-297	3.9	7
435	Synthesis and photocatalytic activity of anatase TiO ₂ nanoparticles for degradation of methyl orange. 2018 ,		3
434	Effect of Hartree-Fock pseudopotentials on local density functional theory calculations. 2018 , 20, 18844-18849		4
433	Optical thin films containing quantum dots. 2018 , 487-513		1
432	Multi-doped Brookite-Prevalent TiO ₂ Photocatalyst with Enhanced Activity in the Visible Light. 2018 , 148, 2459-2471		5
431	Titanium glycolate-derived TiO ₂ nanomaterials: Synthesis and applications. 2018 , 29, 2289-2311		32

430	Versatility in the catalytic and photocatalytic reactions of composites based on Zr- and Zr-Pd-doped titania nanoparticles. <i>Ceramics International</i> , 2018 , 44, 17266-17276	5.1	10
429	Recent Advances in TiO ₂ Nanotube-Based Materials for Photocatalytic Applications Designed by Anodic Oxidation. 2018 ,		2
428	Effect of growth time on the structure, morphology and optical properties of hydrothermally synthesized TiO ₂ nanorod thin films. 2018 ,		
427	Binary flux-promoted formation of trigonal ZnIn ₂ S ₄ layered crystals using ZnS-containing industrial waste and their photocatalytic performance for H ₂ production. 2018 , 20, 3845-3856		24
426	Fabrication and Characterization of TiO ₂ Nanoparticles. 2018 , 296-300		1
425	Laser Selective Photoactivation of Amorphous TiO ₂ Films to Anatase and/or Rutile Crystalline Phases. 2018 , 1, 3607-3613		14
424	Synthesis of Aligned TiO ₂ Nanofibers Using Electrospinning. 2018 , 8, 309		17
423	Phase-controlled synthesis of bismuth oxide polymorphs for photocatalytic applications. 2018 , 2, 1664-1673		33
422	Enhanced Photocatalytic Activity of {110}-Faceted TiO ₂ Rutile Nanorods in the Photodegradation of Hazardous Pharmaceuticals. 2018 , 8,		19
421	Surface Characterization of TiO Polymorphic Nanocrystals through H-TD-NMR. 2018 , 34, 9460-9469		9
420	Enhanced photocatalytic activity of wool fibers having titanium dioxide nanoparticles formed inside their cortex. <i>Nanotechnology</i> , 2018 , 29, 295606	3-4	4
419	Pulsed photoinitiated fabrication of inkjet printed titanium dioxide/reduced graphene oxide nanocomposite thin films. <i>Nanotechnology</i> , 2018 , 29, 315401	3-4	8
418	Optical properties of TiO ₂ thin films with crystal structure. <i>Journal of Physics and Chemistry of Solids</i> , 2018 , 123, 266-270	3-9	17
417	Production TiO ₂ Nanoparticles Using Laser Ablation in Ethanol. 2018 , 10, 2101-2107		6
416	Influence of Brookite Impurities on the Raman Spectrum of TiO ₂ Anatase Nanocrystals. 2018 , 122, 19921-19930		33
415	A study of reduced graphene oxide/leaf-shaped TiO ₂ nanofibers for enhanced photocatalytic performance via electrospinning. 2018 , 266, 196-204		16
414	Annealing and biasing effects on the structural and optical properties of PECVD-grown TiO ₂ films from TTIP/O ₂ plasma. 2018 , 29, 13254-13264		3
413	Synthesis the New Nanostructure Ti _{0.7} W _{0.3} O ₂ via Low Temperature Solvothermal Process. 2018 , 876, 84-90		1

4 ¹²	Inorganic Nanofibers by Electrospinning Techniques and Their Application in Energy Conversion and Storage Systems. 2018 , 98, 1-70		11
4 ¹¹	Nb-Dopant-Induced Tuning of Optical and Electrical Property of Anatase TiO ₂ Nanocrystals. 2018 , 3, 6654-6664		6
4 ¹⁰	Titanium dioxide nanoparticles impaired both photochemical and non-photochemical phases of photosynthesis in wheat. 2019 , 256, 69-78		27
4 ⁰⁹	Revisiting the optical bandgap of semiconductors and the proposal of a unified methodology to its determination. <i>Scientific Reports</i> , 2019 , 9, 11225	4.9	96
4 ⁰⁸	Insights into the TiO ₂ -Based Photocatalytic Systems and Their Mechanisms. <i>Catalysts</i> , 2019 , 9, 680	4	33
4 ⁰⁷	Change in the Electronic Structure of Oxide Films on the Surface of a Titanium Coating in the Process of Interaction with Oxygen. 2019 , 13, 413-420		1
4 ⁰⁶	Controllable Synthesis of Mesoporous TiO ₂ Polymorphs with Tunable Crystal Structure for Enhanced Photocatalytic H ₂ Production. 2019 , 9, 1901634		88
4 ⁰⁵	Surface properties, adherence, and photocatalytic activity of sol-gel dip-coated TiO ₂ /ZnO films on glass plates. 2019 , 22, 393-405		13
4 ⁰⁴	Synthesis and photoluminescence properties of titanium oxide (TiO ₂) nanoparticles: Effect of calcination temperature. 2019 , 194, 163070		13
4 ⁰³	Amorphous TiO ₂ nanostructures: synthesis, fundamental properties and photocatalytic applications. 2019 , 9, 4198-4215		54
4 ⁰²	Progress in polymeric nanocomposite membranes for wastewater treatment: Preparation, properties and applications. 2019 , 79, 29-40		48
4 ⁰¹	TiO ₂ Nanomaterials for Enhanced Photocatalysis. 2019 , 135-165		2
4 ⁰⁰	Studies on thin films of TiO ₂ for resistance-based sensing of ethanol vapor at room temperature. 2019 , 92, 782-789		1
399	Antibacterial Activity of TiO ₂ - and ZnO-Decorated with Silver Nanoparticles. 2019 , 3, 61		40
398	A novel method to synthesis titanium dioxide(B)/Anatase composite oxides by solid-state chemical reaction routes for promoting Li ⁺ insertion. 2019 , 14, 102451		1
397	The influence of N ₂ plasma treatment on the optical bandgap and photoluminescence of orderly nanoporous TiO ₂ film. 2019 , 6, 115018		1
396	Nanomaterials-based UV photodetectors. 2019 , 123-149		5
395	An Important Factor Affecting the Supercapacitive Properties of Hydrogenated TiO Nanotube Arrays: Crystal Structure. 2019 , 14, 229		11

394	TiO ₂ thin films by ultrasonic spray pyrolysis. 2019 , 503, 012006		2
393	Heterogeneous photocatalysis of Tordon 2,4-D herbicide using the phase mixture of TiO ₂ . <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 103501	6.8	16
392	A short review on electrochemically self-doped TiO ₂ nanotube arrays: Synthesis and applications. 2019 , 36, 1753-1766		10
391	Hydrothermal growth of well-aligned TiO ₂ nanorods on fluorine-doped tin oxide glass. <i>Materials Today: Proceedings</i> , 2019 , 17, 1514-1520	1.4	3
390	Photoelectrochemical activity of CdS/Ag/TiO ₂ nanorod composites: Degradation of nitrobenzene coupled with the concomitant production of molecular hydrogen. 2019 , 328, 135124		11
389	Effect of CdS shell thickness on the photocatalytic properties of TiO ₂ @CdS core-shell nanorod arrays. 2019 , 30, 17682-17692		7
388	Structural and electronic properties of TiO ₂ polymorphs with effective on-site coulomb repulsion term: DFT+U approaches. <i>Materials Today: Proceedings</i> , 2019 , 17, 472-483	1.4	2
387	Phase-Pure Brookite TiO ₂ as a Highly Active Photocatalyst for the Degradation of Pharmaceutical Pollutants. 2019 , 48, 7846-7861		3
386	The synergistic role of pH and calcination temperature in sol-gel titanium dioxide powders. 2019 , 125, 1		7
385	Understanding the origin of bandgap problem in transition and post-transition metal oxides. 2019 , 151, 124703		3
384	Investigation of iridium composition in Ti _{1-x} Ir _x O ₂ (x = 0.1, 0.2, 0.3) nanostructures as potential supports for platinum in methanol electro-oxidation. 2019 , 22, 844-854		0
383	Nanoparticles and Nanomaterials as Plant Biostimulants. 2019 , 20,		88
382	Electronic Structure and Band Alignments of Various Phases of Titania Using the Self-Consistent Hybrid Density Functional and DFT+ Methods. 2019 , 7, 47		7
381	Metal oxide nanostructures for sensor applications. 2019 , 34, 043001		106
380	Semiconducting Metal Oxides: Morphology and Sensing Performance. 2019 , 53-75		0
379	Different crystalline phases of aligned TiO ₂ nanowires and their ethanol gas sensing properties. 2019 , 114, 113601		21
378	Low-Temperature Sol-Gel Synthesis and Photoactivity of Nanocrystalline TiO ₂ with the Anatase/Brookite Structure and an Amorphous Component. 2019 , 60, 325-336		5
377	Photocatalytic Liquid-Phase Selective Hydrogenation of 3-Nitrostyrene to 3-vinylaniline of Various Treated-TiO ₂ Without Use of Reducing Gas. <i>Catalysts</i> , 2019 , 9, 329	4	6

- 376 Controlled synthesis of vertically aligned honeycomb TiO₂ nanotube arrays: effect of high-temperature annealing on physical properties. **2019**, 125, 1 5
- 375 Synthesis and luminescence of Eu³⁺ doped nanocrystalline TiO₂ spheres. **2019**, 37, 1121-1125 4
- 374 Synthesis and application of N-doped TiO₂/CdS/poly(1,8-diaminocarbazole) composite for photocatalytic degradation of 4-chlorophenol under visible light. **2019**, 314, 73-80 8
- 373 Structural and diffuse reflectance characterization of cobalt-doped titanium dioxide nanostructured powder prepared via facile sonochemical hydrolysis technique. **2019**, 9, 184798041984780 9
- 372 Optimal Electrospun TiO₂ Nanofiber Photocatalytic Performance via Synergistic Morphology and Particle Crystallinity with Anatase/Rutile Phase Tuning. **2019**, 216, 1900066 4
- 371 An efficient and stable narrow bandgap carbon dot-brookite composite over other CD-TiO₂ polymorphs in rhodamine B degradation under LED light. *Ceramics International*, **2019**, 45, 14173-14181 ^{5.1} 10
- 370 XANES analysis and structural properties of CdS-doped TiO₂. *Vacuum*, **2019**, 165, 239-245 3.7 10
- 369 Ultra-bright emission from Sr doped TiO nanoparticles through r-GO conjugation. **2019**, 6, 190100 9
- 368 Nanotechnology and Plant Tissue Culture. **2019**, 333-370 4
- 367 Strategies to improve the photocatalytic activity of TiO: 3D nanostructuring and heterostructuring with graphitic carbon nanomaterials. **2019**, 11, 7025-7040 97
- 366 Photocatalytic methylene blue degradation on multilayer transparent TiO₂ coatings. **2019**, 90, 264-272 32
- 365 Achieving Ultrahigh Energy Densities of Supercapacitors with Porous Titanium Carbide/Boron-Doped Diamond Composite Electrodes. **2019**, 9, 1803623 40
- 364 Superhydrophobic fluorine-modified cerium-doped mesoporous carbon as an efficient catalytic platform for photo-degradation of organic pollutants. **2019**, 147, 323-333 21
- 363 Fabrication of freestanding SiO₂-TiO₂ composite by a facile one pot method. **2019**, 34, 624-629
- 362 Room Temperature Synthesis of V-Doped TiO₂ and Its Photocatalytic Activity in the Removal of Caffeine under UV Irradiation. *Materials*, **2019**, 12, 3.5 10
- 361 Sol-gel Synthesized Co-Doped Anatase TiO₂ Nanoparticles: Structural, Optical, and Magnetic Characterization. **2019**, 29, 1375-1382 14
- 360 Paper-Based Nanoplatfoms for Multifunctional Applications. **2019**, 2019, 1-16 15
- 359 The formation mechanism of TiO₂ polymorphs under hydrothermal conditions based on the structural evolution of [Ti(OH)₆(H₂O)₆]⁴⁺ monomers. **2019**, 7, 5764-5771 22

358	Application of Reverse Micelle Sol-Gel Synthesis for Bulk Doping and Heteroatoms Surface Enrichment in Mo-Doped TiO ₂ Nanoparticles. <i>Materials</i> , 2019 , 12,	3.5	16
357	Solid-Gas Phase Photo-Catalytic Behaviour of Rutile and TiO (1 <i>Materials</i> , 2019 , 12,	3.5	6
356	Impact of Oxygen Vacancy on the Photocatalytic Selective Hydrogenation of 3-Nitrostyrene via Calcination of TiO ₂ . 2019 , 559, 012015		1
355	TiO ₂ Nanoparticles Sensitized by Safranin O Dye using UV-A Light System. 2019 , 571, 012064		3
354	Ceria doped TiO ₂ as photocatalyst for water treatment under visible light. 2019 , 668, 012011		2
353	Influence of TiO ₂ addition on the magnetic properties of carbon-based iron oxide nanocomposites synthesized using submerged arc-discharge. 2019 , 509, 012034		4
352	Highly active brookite TiO ₂ -assisted photocatalytic degradation of dyes under the simulated solar UVA radiation. 2019 , 29, 641-647		23
351	High-Efficiency Photocatalysis of Self-Hydroxylated TiO ₂ Nanocrystals for Water Splitting. 2019 , 4, 13998-14003		3
350	Shell thickness dependent photocatalytic activity of TiO ₂ /ZnS core-shell nanorod arrays. 2019 , 6, 1250b3		1
349	Status and challenges in photocatalytic nanotechnology for cleaning air polluted with volatile organic compounds: visible light utilization and catalyst deactivation. 2019 , 6, 3185-3214		74
348	Toward Fully Printed Memristive Elements: a-TiO ₂ Electronic Synapse from Functionalized Nanoparticle Ink. 2019 , 1, 2692-2700		8
347	The Effect of Various Annealing Cooling Rates on Electrical and Morphological Properties of TiO ₂ Thin Films. 2019 , 53, 1603-1607		0
346	Structural and optical investigation of brookite TiO ₂ thin films grown by atomic layer deposition on Si (111) substrates. 2019 , 225, 55-59		6
345	Structural, optical, and electronic properties of metal oxide nanostructures. 2019 , 59-102		4
344	Epoxy-Based Nanocomposites for High-Voltage Insulation: A Review. 2019 , 5, 1800505		31
343	Photocatalytic decomposition of methanol-water solution over N-La/TiO ₂ photocatalysts. <i>Applied Surface Science</i> , 2019 , 469, 879-886	6.7	12
342	Application of Semiconductor Nanoparticles for Removal of Organic Pollutants or Dyes From Wastewater. 2019 , 267-290		4
341	Effect of C/H and C/O ratios on the arc discharge synthesis of titanium carbide nanoparticles in organic liquids. 2019 , 9, 411-421		5

340	High efficiency dye-sensitized solar cell based on a novel gel polymer electrolyte containing RbI and tetrahexylammonium iodide (Hex4NI) salts and multi-layered photoelectrodes of TiO ₂ nanoparticles. 2019 , 103, 282-290		30
339	Effect of annealing temperature on nano-crystalline TiO ₂ for solar cell applications. 2019 , 106, 127-132		15
338	High conductivity of novel Ti _{0.9} Ir _{0.1} O ₂ support for Pt as a promising catalyst for low-temperature fuel cell applications. 2019 , 44, 20944-20952		4
337	Ultrathin sub-3 nm nitrogen-doped graphene quantum dot layers coated TiO ₂ nanocomposites as high-performance photocatalysts. 2019 , 714, 1-5		8
336	Synthesis and characterizations of rutile-TiO ₂ nanoparticles derived from chitin for potential photocatalytic applications. <i>Vacuum</i> , 2019 , 161, 49-54	3.7	35
335	New kinetic models for the crystallization of anatase nanoparticles from amorphous titania (TiO ₂). 2019 , 206, 488-494		1
334	Effect of annealing atmosphere on the performance of TiO ₂ nanorod arrays in photoelectrochemical water splitting. <i>Catalysis Today</i> , 2019 , 330, 189-194	5.3	20
333	A facile synthesis of anatase TiO ₂ -Graphene nanocomposites using plasma and heat treatment. <i>Applied Surface Science</i> , 2019 , 474, 118-126	6.7	15
332	Hybrid Titanium Oxide/Polymer Amphiphilic Nanomaterials with Controlled Size for Drug Encapsulation and Delivery. <i>Advanced Functional Materials</i> , 2020 , 30, 1806146	15.6	11
331	Photocatalytic degradation of amoxicillin using Co-doped TiO ₂ synthesized by reflux method and monitoring of degradation products by LC/MS/MS. 2020 , 41, 414-425		15
330	Behaviour of Pt/TiO ₂ catalysts with different morphological and structural characteristics in the photocatalytic conversion of ethanol aqueous solutions. <i>Catalysis Today</i> , 2020 , 341, 13-20	5.3	14
329	Synthesis and characterization of TiO ₂ nanorods by hydrothermal method with different pH conditions and their photocatalytic activity. <i>Applied Surface Science</i> , 2020 , 500, 144058	6.7	34
328	To Be Higher and Stronger-Metal Oxide Electron Transport Materials for Perovskite Solar Cells. 2020 , 16, e1902579		46
327	Unusual catalytic activity of TiO ₂ to TiO ₃ under 1064 nm pulsed laser illumination. <i>Catalysis Today</i> , 2020 , 349, 3-9	5.3	6
326	Assessing the electrochemical performance of hierarchical nanostructured CuO@TiO ₂ as an efficient bi-functional electrocatalyst. 2020 , 17, 649-662		2
325	Gradient crystallinity and its influence on the poly(vinylidene fluoride)/poly(methyl methacrylate) membrane-derived by immersion precipitation method. 2020 , 137, 48677		5
324	Carbon coated TiO ₂ nanoparticles prepared by pulsed laser ablation in liquid, gaseous and supercritical CO ₂ . <i>Nanotechnology</i> , 2019 , 31, 085602	3.4	4
323	Metal-oxide semiconductors for carbon monoxide (CO) gas sensing: A review. 2020 , 18, 100483		65

322	Utilizing TiO ₂ amorphous precursors for polymorph selection: An in situ TEM study of phase formation and kinetics. 2020 , 103, 2899-2907		4
321	Phase-dependent performance of lotus-root shaped TiO ₂ anode for lithium-ion batteries (LIBs). <i>Applied Surface Science</i> , 2020 , 508, 145237	6.7	9
320	Visible light-induced degradation of antibiotic ciprofloxacin over Fe ³⁺ /TiO ₂ mesoporous photocatalyst with anatase/rutile/brookite nanocrystal mixture. 2020 , 391, 112371		22
319	High photocatalytic activity of rutile TiO ₂ /BiOBr composites via an in situ synthesis approach. <i>New Journal of Chemistry</i> , 2020 , 44, 1905-1911	3.6	4
318	Bio-friendly titania-grafted chitosan film with biomimetic surface structure for photocatalytic application. 2020 , 230, 115584		5
317	Continuous flow hydrothermal synthesis of phase pure rutile TiO ₂ nanoparticles with a rod-like morphology. 2020 , 12, 2695-2702		6
316	Effect of Post-Heat Treatment on Physical Properties of Nanostructured TiO ₂ Powders Prepared by a Sol-Gel Method. 2020 , 49, 1980-1992		2
315	Enhancing the photocatalytic activity of Ga ₂ O ₃ /TiO ₂ nanocomposites using sonication amplitudes for the degradation of Rhodamine B dye. 2020 , 34, e5336		14
314	Sol-gel-mediated synthesis of TiO ₂ nanocrystals: Structural, optical, and electrochemical properties. 2020 , 17, 1400-1409		21
313	Protective stainless steel micropillars for enhanced photocatalytic activity of TiO ₂ nanoparticles during wear. 2020 , 381, 125201		5
312	Photocatalytic self-cleaning properties of Mo:TiO ₂ loaded Zn-Al layered double hydroxide synthesised at optimised pH value for the application on mineral substrates. <i>Ceramics International</i> , 2020 , 46, 6756-6766	5.1	5
311	Significant Variability in the Photocatalytic Activity of Natural Titanium-Containing Minerals: Implications for Understanding and Predicting Atmospheric Mineral Dust Photochemistry. 2020 , 54, 13509-13516		46
310	A critical review of metal-doped TiO ₂ and its structure-physical properties-photocatalytic activity relationship in hydrogen production. 2020 , 45, 28553-28565		22
309	Enhancement of cesium adsorption on Prussian blue by TiO ₂ photocatalysis: Effect of the TiO ₂ /PB ratio. 2020 , 38, 101571		6
308	"Tailoring the TiO phases through microwave-assisted hydrothermal synthesis: Comparative assessment of bactericidal activity". 2020 , 117, 111290		5
307	Self-cleaning and air purification performance of Portland cement paste with low dosages of nanodispersed TiO ₂ coatings. 2020 , 263, 120558		5
306	Enhanced performance of planar perovskite solar cells using TiO ₂ /SnO ₂ and TiO ₂ /WO ₃ bilayer structures: Roles of the interfacial layers. 2020 , 208, 697-707		25
305	Ag-decorated TiO ₂ nanofibers as Arrhenius equation-incompatible and effective photocatalyst for water splitting under visible light irradiation. 2020 , 604, 125307		7

304	Germanium-assisted growth of titanium dioxide nanowires for enhanced photocatalytic and electron emission performance. <i>Applied Surface Science</i> , 2020 , 530, 147204	6.7	3
303	Intrinsic electronic defect states of anatase using density functional theory. 2020 , 184, 109925		2
302	Investigation of the impact of annealing on the structural, optical and morphological evolution of mixture-phase ALD-TiO ₂ films containing brookite. 2020 , 147, 106699		6
301	Visible-to-ultraviolet (. 2020 , 22, 27134-27143		12
300	Photocatalytic CO Oxidation over Nanoparticulate Au-Modified TiO ₂ Aerogels: The Importance of Size and Intimacy. 2020 , 10, 14834-14846		8
299	Rethinking Nano-TiO Safety: Overview of Toxic Effects in Humans and Aquatic Animals. 2020 , 16, e2002019		39
298	Hierarchical TiO Nanoflower Photocatalysts with Remarkable Activity for Aqueous Methylene Blue Photo-Oxidation. 2020 , 5, 18919-18934		15
297	Metal oxide nanoparticles and plants. 2020 , 123-141		2
296	Template Synthesis of Well-Defined Rutile Nanoparticles by Solid-State Reaction at Room Temperature. 2020 , 59, 7934-7938		6
295	Embossed Mie resonator arrays composed of compacted TiO nanoparticles for broadband anti-reflection in solar cells. <i>Scientific Reports</i> , 2020 , 10, 12527	4.9	7
294	Facile method to obtain anatase and anatase-brookite nanoparticles (TiO ₂) with MWCNT towards reducing the bandgap. 2020 , 109, 108015		2
293	The effect of chemically preintercalated alkali ion on structure of layered titanates and their electrochemistry in aqueous energy storage systems. 2020 , 8, 18220-18231		6
292	Hydrogenation of Furfural to Cyclopentanone under Mild Conditions by a Structure-Optimized Ni-NiO/TiO Heterojunction Catalyst. 2020 , 13, 5507-5515		12
291	Effect of Polyaniline on Structural and Optical Characteristics of Fe ₃ O ₄ and TiO ₂ Nanoparticles. 2020 , 851, 9-15		0
290	Hydrothermal synthesis of TiO ₂ nanoflower deposited on bauxite hollow fibre membrane for boosting photocatalysis of bisphenol A. 2020 , 37, 101504		9
289	Adsorption of Titanium Halides on Nitride and Oxide Surfaces during Atomic Layer Deposition: A DFT Study. 2020 , 10, 712		7
288	Unveiling Oxygen Vacancy Superstructures in Reduced Anatase Thin Films. 2020 , 20, 6444-6451		7
287	Role of electronically coupled in situ grown silver sulfides (Ag ₂ S) nanoparticles with TiO ₂ for the efficient photoelectrochemical H ₂ evolution. 2020 , 45, 30153-30164		3

286	Single polymer-variable index for the design and fabrication of variable stop band distributed Bragg reflectors. 2020 , 110, 110509		3
285	Power of Aerogel Platforms to Explore Mesoscale Transport in Catalysis. 2020 , 12, 41277-41287		6
284	Effects of the Brookite Phase on the Properties of Different Nanostructured TiO Phases Photocatalytically Active Towards the Degradation of N-Phenylurea. 2020 , 9, 903-912		7
283	Current Developments and Future Trends in Photocatalytic Glycerol Valorization: Photocatalyst Development. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 22330-22352	3.9	8
282	Recent Advances in the Design and Photocatalytic Enhanced Performance of Gold Plasmonic Nanostructures Decorated with Non-Titania Based Semiconductor Hetero-Nanoarchitectures. <i>Catalysts</i> , 2020 , 10, 1459	4	6
281	Study on the growth mechanism of dispersed monoclinic BiVO ₄ in hydrothermal process and its photocatalytic activity. 2020 , 1-13		1
280	Titanium Dioxide in Chromogenic Devices: Synthesis, Toxicological Issues, and Fabrication Methods. 2020 , 10, 8896		
279	Band Gap Measurements of Nano-Meter Sized Rutile Thin Films. 2020 , 10,		5
278	Effect of UV-activated TiO ₂ Nanoparticles on the Properties and Performance of PANi-TiO ₂ Nanocomposite Films for Solar Cell Applications. 2020 , 956, 012015		0
277	Effect of pH on the Formation of Amorphous TiO ₂ Complexes and TiO ₂ Anatase during the Pyrolysis of an Aqueous TiCl ₄ Solution. <i>Catalysts</i> , 2020 , 10, 1187	4	1
276	Effect of Ultrasound Irradiation on the Synthesis of Hydroxyapatite/Titanium Oxide Nanocomposites. 2020 , 10, 959		4
275	The characteristic evolution of TiO ₂ /Al ₂ O ₃ bilayer films produced by ALD: Effect of substrate type and wide range annealing temperature. 2020 , 142, 106529		7
274	Investigation of the structural, optical and electrical properties of indium-doped TiO ₂ thin films grown by Pulsed Laser Deposition technique on low and high index GaAs planes. 2020 , 259, 114578		4
273	Strain-induced partial phase transition in TiO ₂ nanoparticles manifesting frequency dispersive pseudo-inductive switching of capacitance. <i>Ceramics International</i> , 2020 , 46, 20437-20447	5.1	4
272	Temperature dependence of dielectric breakdown of silicone-based dielectric elastomers. 2020 , 11, 129-146		5
271	Photocatalytic degradation of Prozac mediated by TiO nanoparticles obtained via three synthesis methods: sonochemical, microwave hydrothermal, and polymeric precursor. 2020 , 27, 27032-27047		8
270	Environmental transformation of n-TiO in the aquatic systems and their ecotoxicity in bivalve mollusks: A systematic review. 2020 , 200, 110776		16
269	Variations in the local structure of nano-sized anatase TiO ₂ . 2020 , 288, 121414		3

268	First-principles Hubbard U and Hund's J corrected approximate density functional theory predicts an accurate fundamental gap in rutile and anatase TiO ₂ . 2020 , 101,	14
267	Effect of annealing on the efficiency of ambient-atmosphere fabricated MAPbI ₃ perovskite solar cells. 2020 , 8, e00447	1
266	Transfer of stored electrons between TiO ₂ polymorphs during photocatalytic H ₂ production in methanol/water medium. 2020 , 598, 117548	4
265	Semiconducting polypyrrole@TiO ₂ pure anatase nanoparticles for photodegradation of reactive red 120 azo dye. 2020 , 31, 12178-12190	6
264	Hierarchical Au/TiO ₂ nanoflower photocatalysts with outstanding performance for alcohol photoreforming under UV irradiation. 2020 , 602, 117706	9
263	Role of surrounding crystallization media in TiO ₂ polymorphs coexistence and the effect on AOPs performance. 2020 , 493, 111059	3
262	X-ray Diffraction and Spectro-Microscopic Study of ALD Protected Copper Films. 2020 , 12, 33377-33385	3
261	Amorphous interface oxide formed due to high amount of Sm doping (500 mol%) stabilizes finer size anatase and lowers indirect band gap. <i>Applied Surface Science</i> , 2020 , 529, 146967	6.7 0
260	Commercial TiO ₂ loaded with NiO for improving photocatalytic hydrogen production in the presence of simulated solar radiation. 2020 , 44, 8951-8963	1
259	Tailoring the structural properties and electronic structure of anatase, brookite and rutile phase TiO ₂ nanoparticles: DFTB calculations. 2020 , 183, 109843	15
258	Photocatalytic properties of graphene-supported titania clusters from density-functional theory. 2020 , 41, 1921-1930	6
257	Comparative study on structural, electronic, optical and mechanical properties of normal and high pressure phases titanium dioxide using DFT. 2020 , 7, 054004	10
256	Recent advances in polymer/metal/metal oxide hybrid nanostructures for catalytic applications: a review. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104175	6.8 34
255	Study of the Effect of Titanium Dioxide Hydrosol on the Photocatalytic and Mechanical Properties of Paper Sheets. <i>Materials</i> , 2020 , 13,	3.5 13
254	Sensing Performance of Stable TiN Extended-Gate Field-Effect Transistor pH Sensors in a Wide Short Annealing Temperature Range. 2020 , 41, 489-492	6
253	Processes of metastable-mineral formation in oxidation zones and mine waste. 2020 , 84, 367-375	9
252	Fabrication of TiO ₂ -SrCO ₃ Composite Coatings by Suspension Plasma Spraying: Microstructure and Enhanced Visible Light Photocatalytic Performances. 2020 , 29, 1172-1182	5
251	Simulated synthesis and structure of Li _x TiO ₂ nanosheets as anode material for lithium ion batteries. 2020 , 102, 109831	2

250	Photodegradation of chloramphenicol and paracetamol using PbS/TiO ₂ nanocomposites produced by green synthesis. 2020 , 17, 2013-2031			19
249	TiO ₂ Nanostructured Films for Electrochromic Paper Based-Devices. 2020 , 10, 1200			12
248	Ultrasonic-assisted sol-gel synthesis of TiO ₂ nanostructures: Influence of synthesis parameters on morphology, crystallinity, and photocatalytic performance. 2020 , 94, 477-485			21
247	Target power influence on optical and electrical properties of amorphous titanium oxide deposited by reactive grid-assisted magnetron sputtering. 2020 , 700, 137917			1
246	Highly Active Rutile TiO Nanocrystalline Photocatalysts. 2020 , 12, 33058-33068			19
245	Synergistic Design of Anatase/Rutile TiO ₂ Nanostructured Heterophase Junctions toward Efficient Photoelectrochemical Water Oxidation. 2020 , 10, 557			6
244	Photocatalytic H ₂ production from ethanol aqueous solution using TiO ₂ with tungsten carbide nanoparticles as co-catalyst. 2020 , 45, 20558-20567			7
243	Phase evolution, morphological, optical and electrical properties of femtosecond pulsed laser deposited TiO thin films. <i>Scientific Reports</i> , 2020 , 10, 10144	4.9		4
242	SiO ₂ @TiO ₂ Composite Synthesis and Its Hydrophobic Applications: A Review. <i>Catalysts</i> , 2020 , 10, 171	4		15
241	Oxidation of Thin Titanium Films: Determination of the Chemical Composition of the Oxide and the Oxygen Diffusion Factor. 2020 , 10, 117			4
240	Nanocomposite films for absorption and decomposition of sick-building syndrome gases. 2020 , 251-272			
239	Influence of Mg, Cu, and Ni Dopants on Amorphous TiO Thin Films Photocatalytic Activity. <i>Materials</i> , 2020 , 13,	3.5		8
238	Layer-by-Layer Assembly of Nanofiber/Nanoparticle Artificial Skin for Strain-Insensitive UV Shielding and Visualized UV Detection. 2020 , 5, 1900976			7
237	Metal oxides nanoparticles via sol-gel method: a review on synthesis, characterization and applications. 2020 , 31, 3729-3749			131
236	Molecular modeling and photovoltaic applications of porphyrin-based dyes: A review. 2020 , 24, 303-320			22
235	Carbon-doped titanium dioxide nanoparticles: A facile synthesis, characterization and their photocatalytic activity. <i>Materials Today: Proceedings</i> , 2020 , 28, 710-712	1.4		1
234	Atomic layer deposition of Nb-doped TiO ₂ : Dopant incorporation and effect of annealing. 2020 , 38, 022408			5
233	A novel method for biosynthesis of different polymorphs of TiO nanoparticles as a protector for <i>Bacillus thuringiensis</i> from Ultra Violet. <i>Scientific Reports</i> , 2020 , 10, 426	4.9		10

232	Impact of annealing temperature on structural, morphological and optical properties of GO-TiO ₂ thin films prepared by spin coating technique. 2020 , 139, 106423		13
231	Green synthesis of TiO ₂ nanoparticles using lemon peel extract: their optical and photocatalytic properties. 2020 , 1-9		26
230	Phase controlled synthesis of bifunctional TiO nanocrystallites d-mannitol for dye-sensitized solar cells and heterogeneous catalysis.. 2020 , 10, 14826-14836		6
229	Scalable synthesis of smooth PS@TiO ₂ core-shell and TiO ₂ hollow spheres in the (sub) micron size range: understanding synthesis and calcination parameters. 2020 , 298, 867-878		3
228	Efficient Photodecomposition of NO _x on Carbon Modified Ag/TiO ₂ Nanocomposites. 2020 , 63, 1251-1260		4
227	Tunable Composition Aqueous-Synthesized Mixed-Phase TiO ₂ Nanocrystals for Photo-Assisted Water Decontamination: Comparison of Anatase, Brookite and Rutile Photocatalysts. <i>Catalysts</i> , 2020 , 10, 407	4	13
226	Antibacterial activity of metal oxide nanoparticles. 2020 , 241-274		15
225	Recent Trends in Nanocomposite Packaging Materials. 2021 , 731-755		2
224	UV photoelectric properties of aligned TiO ₂ nanotubes with different wall thickness. 2021 , 126, 114467		4
223	Hydrothermally regulating phase composition of TiO ₂ nanocrystals toward high photocatalytic activity. 2021 , 850, 156653		48
222	Conventional and photoinduced radioactive ¹³⁷ Cs removal by adsorption on FeFe, CoFe, and NiFe Prussian blue analogues. 2021 , 405, 126568		6
221	Reduction of interface state density in coaxial TiO ₂ /Ge nanowire assembly-based heterostructure and superior photodetection. 2021 , 853, 157344		5
220	Enhanced biodiesel production from oleic acid using TiO ₂ -decorated magnetic ZIF-8 nanocomposite catalyst and its utilization for used frying oil conversion to valuable product. 2021 , 288, 119586		8
219	Catalytic performance of V-MCM-41 nanocomposites in liquid phase limonene oxidation: Vanadium leaching mitigation. 2021 , 311, 110678		2
218	An investigation on the photocatalytic activity of sub-stoichiometric TiO _{2-x} coatings produced by suspension plasma spray. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 544-556	6	5
217	Preparation of ultra-thin TiO ₂ shell by peroxo titanium complex (PTC) solution-based green surface modification, and photocatalytic activity of homo-core/shell TiO ₂ . <i>Applied Surface Science</i> , 2021 , 540, 148399	6.7	6
216	Terminalia catappa and carissa carandas assisted synthesis of Tio2 nanoparticles A green synthesis approach. <i>Materials Today: Proceedings</i> , 2021 , 45, 2232-2238	1.4	5
215	Sonocatalytic degradation of Congo Red using biomass-based cellulose/TiO ₂ composite. <i>Materials Today: Proceedings</i> , 2021 , 42, 50-55	1.4	3

214	Nanoscale morphology and fractal analysis of TiO coatings on ITO substrate by electrodeposition. 2021 , 282, 162-174		1
213	Enhanced removal of p-nitrophenol by γ -Ga ₂ O ₃ -TiO ₂ photocatalyst immobilized onto rice straw-based SiO ₂ via factorial optimization of the synergy between adsorption and photocatalysis. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104619	6.8	16
212	Review on robust laser light interaction with titania [Patterning, crystallisation and ablation processes. 2021 , 62, 100297		3
211	Preparation of a highly active MoS ₂ /TiO ₂ composite for photocatalytic oxidation of nitrite under solar irradiation. <i>New Journal of Chemistry</i> , 2021 , 45, 10608-10617	3.6	2
210	Polarization-dependent optical band gap energy of aligned semiconducting titanium oxide nanowire deposits. 2021 , 13, 8958-8965		3
209	Role of TiO ₂ in Highly Efficient Solar Cells. 2021 , 147-168		
208	Preparation of composite-layered structure of TiO ₂ nanoparticles/TiO ₂ nanotubes and its role in dye sensitized solar cell. 2021 , 28, 555-566		1
207	Synthesis of Mn-doped and anatase/rutile mixed-phase TiO ₂ nanofibers for high photoactivity performance. 2021 , 11, 4181-4195		3
206	Conduction Band Discontinuity in n-type Si/TiO ₂ Heterojunction Interfaces. 2021 , 10, 015005		1
205	Effective Strategies, Mechanisms, and Photocatalytic Efficiency of Semiconductor Nanomaterials Incorporating rGO for Environmental Contaminant Degradation. <i>Catalysts</i> , 2021 , 11, 302	4	12
204	Low-temperature-processed metal oxide electron transport layers for efficient planar perovskite solar cells. 2021 , 40, 2730-2746		8
203	Polytetrafluoroethylene-like Nanoparticles as a Promising Contrast Agent for Dual Modal Ultrasound and X-ray Bioimaging. 2021 , 7, 1181-1191		2
202	Effective Inclusion of Sizable Amounts of Mo within TiO Nanoparticles Can Be Obtained by Reverse Micelle Sol-Gel Synthesis. 2021 , 6, 5379-5388		5
201	Assessing the amount of the anatase and rutile phases of TiO ₂ by optical reflectance measurements. 2021 , 22, 103864		1
200	Enhanced solar photocatalysis of TiO ₂ nanoparticles and nanostructured thin films grown on paper.		5
199	Ionic liquid-assisted synthesis of F-doped titanium dioxide nanomaterials with high surface area for multi-functional catalytic and photocatalytic applications. 2021 , 613, 118029		5
198	Portable wastewater treatment system based on synergistic photocatalytic and persulphate degradation under visible light. 2021 , 64, 1952-1963		3
197	Ferromagnetic Engineering of the Hydrogenated Co/Al-Codoped Nanoparticle TiO ₂ . 2021 , 34, 1971-1978		0

- 196 Metal Oxide-Based Photocatalytic Paper: A Green Alternative for Environmental Remediation. *Catalysts*, **2021**, 11, 504 4 12
- 195 Quasi-Hexagonal to Lepidocrocite-like Transition in TiO₂ Ultrathin Films on Cu(001). **2021**, 125, 10621-10630 1
- 194 Corrosion behavior of high-level waste container materials Ti and TiPd alloy under long-term gamma irradiation in Beishan groundwater*. **2021**, 30, 056109
- 193 Electronic and Optical Properties of TiO₂ Thin Films: Combined Experimental and Theoretical Study. **2021**, 50, 4497-4510 3
- 192 Microstructural, optical and magnetic properties of TiO₂:Fe:M (M = Ga, Zn) dilute magnetic semiconductor nanoparticles: a comparative study. **2021**, 127, 1
- 191 Dendritic branching Z-scheme Cu₂O/TiO₂ heterostructure photocatalysts for boosting H₂ production. *Journal of Physics and Chemistry of Solids*, **2021**, 152, 109948 3-9 9
- 190 Fabrication of F/Nb co-doped transparent conducting TiO₂ films using the sol-gel method. **2021**, 126, 105675 3
- 189 Optical bandgap control in AlO/TiO heterostructures by plasma enhanced atomic layer deposition: Toward quantizing structures and tailored binary oxides. **2021**, 252, 119508 3
- 188 How Can the Introduction of Zr Ions into TiO Nanomaterial Impact the DSSC Photoconversion Efficiency? A Comprehensive Theoretical and Experimental Consideration. *Materials*, **2021**, 14, 3-5 3
- 187 Gum ghatti-alginate hybrid bead derived titania spheres for deep removal of toxic dye Remazol Brilliant Violet from aqueous solutions. **2021**, 15, 100459 2
- 186 Charge transporting materials for perovskite solar cells. **2021**, 40, 2690-2711 4
- 185 Tailoring Mesoporous Titania Features by Ultrasound-Assisted Sol-Gel Technique: Effect of Surfactant/Titania Precursor Weight Ratio. **2021**, 11, 4
- 184 Efficacy of Titanium Dioxide Nanoparticles in the Management of Disease Complex of Beetroot (*Beta vulgaris* L.) Caused by *Pectobacterium betavascularum*, *Rhizoctonia solani*, and *Meloidogyne incognita*. **2021**, 73, 445 3
- 183 Synergistic Enhancement of Photocatalytic Performance of Mesoporous TiO₂ enabled by Tunable Crystal Phase and Hybridization with Graphene Oxide. **2021**, 6, 5791-5800 0
- 182 The Influence of the Thickness of Compact TiO Electron Transport Layer on the Performance of Planar CHNHPbI Perovskite Solar Cells. *Materials*, **2021**, 14, 3-5 4
- 181 Hydrogenation and Dopant Concentration-Dependent Structural, Optical, and Magnetic Properties of Synthesized Manganese/Aluminum-Codoped Anatase Nanoparticles. **2021**, 10, 20210028
- 180 Interfacial Electron Transfer through Ultrathin ALD TiO_x Layers: A Comparative Study of TiO₂/TiO_x and SnO₂/TiO_x Core/Shell Nanocrystals. **2021**, 125, 12937-12959 3
- 179 The Isostructural Substitution-Induced Growth Mechanism of Rutile TiO₂ Electron Transport Layer and the Dominant Distribution for Efficient Carbon-Based Perovskite Solar Cells. **2021**, 5, 2100307 1

178	Pressure-Induced Phase Transition Study on Brookite to Rutile TiO ₂ Transformation. 2021 , 10, 071021		2
177	Synthesis, characterization, and photocatalytic disinfection studies of porphyrin dimer/TiO ₂ -based photocatalyst. <i>Journal of Molecular Structure</i> , 2021 , 1236, 130276	3.4	2
176	Photocatalytic removal of parabens and halogenated products in wastewater: a review. 2021 , 19, 3789-3819		7
175	Carbon-doped titanium dioxide nanoparticles for visible light driven photocatalytic activity. <i>Applied Surface Science</i> , 2021 , 554, 149553	6.7	7
174	Influence of electrochemical reduction on the optical properties of TiO ₂ nanotubes under ambient conditions. 2021 , 127, 1		1
173	Effect of sol composition on the properties of TiO ₂ powders obtained by the sol-gel method. 2021 , 387, 261-269		1
172	Low-temperature Hydrothermal Synthesis of Titanium Dioxide Nanoparticles for Photocatalytic Applications. 2021 , 1171, 012008		1
171	Highly-accessible, doped TiO ₂ nanoparticles embedded at the surface of SiO ₂ as photocatalysts for the degradation of pollutants under visible and UV radiation. 2021 , 621, 118179		8
170	Growth behavior and interface of (In ⁺ Nb) co-doped rutile TiO ₂ films prepared on m-plane sapphire substrates. 2021 , 732, 138762		0
169	Unveiling a critical thickness in photocatalytic TiO ₂ thin films grown by plasma-enhanced chemical vapor deposition using real time in situ spectroscopic ellipsometry. 2021 , 54, 445303		1
168	TiO ₂ encapsulated cross-linked polystyrene-polyacrylic acid membranes for waste oil-water separation. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105394	6.8	0
167	High performance SERS platforms via parametric optimization of the laser-assisted photodeposition of silver and gold nanoparticles. <i>Optical Materials Express</i> , 2021 , 11, 3079	2.6	2
166	The effect of the preparation on the catalytic activity of ZnO/TiO ₂ in the methanol steam reforming reaction. 2021 , 134, 23		0
165	Various Exchange-Correlation Effects on Structural, Electronic, and Optical Properties of Brookite TiO ₂ . 2021 , 10, 083010		2
164	Fe-Doped TiO-Carbonized Medium-Density Fiberboard for Photodegradation of Methylene Blue under Visible Light. <i>Materials</i> , 2021 , 14,	3.5	1
163	Experimental study and theoretical modeling of coating-speed-dependent optical properties of TiO ₂ -graphene-oxide thin films. 2021 , 30, 104867		2
162	Green synthesis and characterization of titanium dioxide nanoparticles using leaf extract of <i>Pouteria campechiana</i> and larvicidal and pupicidal activity on <i>Aedes aegypti</i> . 2021 , 200, 111333		18
161	Hydrogen photoproduction on TiO ₂ -reduced graphene oxide hybrid materials from water-ethanol mixture. 2021 , 418, 113406		2

160	Optical and photocatalytic characteristics of Al and Cu doped TiO ₂ : Experimental assessments and DFT calculations. <i>Journal of Physics and Chemistry of Solids</i> , 2021 , 161, 110404	3.9	2
159	Preparation of g-C ₃ N ₄ /TiO ₂ by template method and its photocatalytic performance. 2021 , 624, 126756		9
158	Pathways control in modification of solid surfaces induced by temporarily separated femtosecond laser pulses. <i>Applied Surface Science</i> , 2021 , 566, 150611	6.7	0
157	Controllable Synthesis of Modified Porous Anatase TiO ₂ with High Photocatalytic Activity. 2021 , 21, 5742-5748		
156	Influence of the calcination of TiO ₂ -reduced graphite hybrid for the photocatalytic reduction of carbon dioxide. <i>Catalysis Today</i> , 2021 , 380, 32-40	5.3	2
155	Mesoporous rutile TiO ₂ : Synthesis, characterization and photocatalytic performance studies. 2021 , 144, 111480		11
154	Present and Future of Phase-Selectively Disordered Blue TiO for Energy and Society Sustainability. 2021 , 13, 45		1
153	Properties of titanium dioxide. 2021 , 13-66		3
152	Synthesis of pure (ligandless) titanium nanoparticles by EB-PVD method. 2021 , 23, 1		1
151	Titanium dioxide: antimicrobial surfaces and toxicity assessment. 2021 , 373-393		
150	Biogenic Synthesis of Metal Oxide Nanoparticle Semiconductors for Wastewater Treatment. 2020 , 1-31		4
149	Photocatalytic removal of airborne indoor pollutants by IR illuminated silver coated TiO ₂ catalyst: Advantage of one-dimensional TiO ₂ nanostructures in IR active photocatalysis. 2020 , 590, 124509		5
148	Preparation of anatase form of TiO ₂ thin film at room temperature by electrochemical method as an alternative electron transport layer for inverted type organic solar cells. 2020 , 706, 138093		10
147	Hot Electron Emission Can Lead to Damping of Optomechanical Modes in Core-Shell Ag@TiO ₂ Nanocubes. 2017 , 121, 24159-24167		11
146	Synthesis, characterization and photocatalytic activity of mesoporous Na-doped TiO ₂ nano-powder prepared via a solvent-controlled non-aqueous sol-gel route. 2017 , 7, 54053-54062		37
145	Room temperature high hydrogen gas response in Pd/TiO ₂ /Si/Al capacitive sensor. 2020 , 15, 632-635		3
144	A comparative first-principles investigation on the defect chemistry of TiO anatase. 2020 , 152, 044110		9
143	Investigating the naturally occurring forms of TiO ₂ on electronic and optical properties using OLCAO-MGGA-TBO9: a hybrid DFT study. 2021 , 29, 025001		5

- 142 Optical Characterization of Laser-Synthesized Anatase TiO₂ Nanopowders by Spectroscopic Ellipsometry and Photoluminescence Measurements. **2009**, 116, 603-606 5
- 141 Desarrollo de las aleaciones de titanio y tratamientos superficiales para incrementar la vida útil de los implantes. **2016**, 52, 084 9
- 140 Effect of Acetic Acid in TiCl₄ Post-Treatment on Nanoporous TiO₂ Electrode in Dye-Sensitized Solar Cell. **2012**, 51, 09MA05 5
- 139 Emerging investigator series: photocatalytic membrane reactors: fundamentals and advances in preparation and application in wastewater treatment. 1
- 138 Recent advances in ultra-low temperature (sub-zero to 100 °C) synthesis, mechanism and applications of titania (TiO₂) nanoparticles. *Materials Advances*, **2021**, 2, 7502-7529 3-3 2
- 137 Structural Design of TiO₂/Si Hybrid Photoelectrode and Pt-Free Counter Photoelectrodes for Charge Carrier Separation in Water-Splitting Reactions. **2021**, 10, 103015 1
- 136 Structural and Functional Behaviour of Ce-Doped Wide-Bandgap Semiconductors for Photo-Catalytic Applications. *Catalysts*, **2021**, 11, 1209 4
- 135 Nanoparticle-loaded microcapsules providing effective UV protection for Cry1Ac. **2021**, 38, 522-532 1
- 134 Nanomaterials with high solar reflectance as an emerging path towards energy-efficient envelope systems: a review. **2021**, 56, 19791 2
- 133 Soft X-Ray Spectroscopy and Electronic Structure of 3d Transition Metal Compounds in Artificial Photosynthesis Materials. **2015**, 269-296 1
- 132 Photoactive Semiconducting Oxides for Energy and Environment: Experimental and Theoretical Insights. **2015**, 1-48
- 131 The effect of copper nano-cluster as sublayer on optical and crystalline properties of titanium dioxide layers. **2018**, 26, 505-516
- 130 Preparation and characterization of rutile phase TiO₂ nanoparticles and their cytocompatibility with oral cancer cells. **2019**, 44, 108-114
- 129 First-principles calculations of Fluorine-doped Titanium dioxide: A prospective material for solar cells application. 131-137
- 128 Green organo-modification of cyclodextrin metal oxide hybrids: Characterization, properties, and applications. **2020**, 379-406
- 127 First principle study of electronic, optical and electrical properties of Mo doped TiO₂. **2021**, 29, e00606 1
- 126 Impact of ascorbic acid on polydopamine modified amorphous TiO₂-xNx nanosheets. *Applied Surface Science*, **2021**, 576, 151758 6.7 0
- 125 Preparation and characterization of rutile TiO₂ nanoparticles by HCl-water volatilization-assisted precipitation method. **2021**, 126410 0

124	Ultra-sensitive detection of tizanidine in commercial tablets and urine samples using zinc oxide coated glassy carbon electrode. 2022 , 172, 106956		0
123	The key of ITO films with high transparency and conductivity: Grain size and surface chemical composition. 2022 , 893, 162304		5
122	New insights on the electronic factor of the SMSI effect in Pd/TiO ₂ nanoparticles. <i>Applied Surface Science</i> , 2022 , 574, 151647	6.7	1
121	Influence of rGO and Preparation Method on the Physicochemical and Photocatalytic Properties of TiO ₂ /Reduced Graphene Oxide Photocatalysts. <i>Catalysts</i> , 2021 , 11, 1333	4	2
120	Surface Topography of Si/TiO ₂ Stacked Layers on Silicon Substrate Deposited by KrF Excimer Laser Ablation. 2021 , 11, 1350		1
119	Solar Light-Induced Methylene Blue Removal over TiO/AC Composites and Photocatalytic Regeneration. 2021 , 11,		2
118	Photocatalytic oxidative desulfurization and degradation of organic pollutants under visible light using TiO ₂ nanoparticles modified with iron and sulphate ions. <i>Ceramics International</i> , 2021 ,	5.1	1
117	Synthesis of brookite-type TiO ₂ nanoparticles by emulsion-assisted hydrothermal method using titanium glycolate complex. 2021 , 129, 720-724		1
116	Bottom-up method for synthesis of layered lithium titanate nanoplates using ion precursor. 2021 , 57, 12536-12539		1
115	Materials characterization of TiO nanotubes decorated by Au nanoparticles for photoelectrochemical applications.. 2021 , 11, 38727-38738		3
114	Synthesis and Characterization of Nano-TiO ₂ using Aqueous Extract of Erythrina variegata Leaves. 2021 , 33, 3139-3144		
113	Mechanism of In-Plane and Out-of-Plane Tribovoltaic Direct-Current Transport with a Metal/Oxide/Metal Dynamic Heterojunction.. 2022 , 14, 2968-2978		6
112	Mechanistic understanding of the increased photoactivity of TiO nanosheets upon tantalum doping.. 2021 ,		1
111	Modeling of Perovskite solar cells containing hexagonal-shaped nanorods. 2022 , 54, 1		
110	Recommendation of interstitial hydrogen positions in metal oxides. 2022 , 203, 111068		0
109	In-situ grown nanoscale p-n heterojunction of Cu ₂ S-TiO ₂ thin film for efficient photoelectrocatalytic H ₂ evolution. 2022 , 28, 101660		3
108	A compendium and meta-analysis of flatband potentials for TiO ₂ , ZnO, and SnO ₂ semiconductors in aqueous media. 2022 , 3, 011303		0
107	A Coronopus didymus based eco-benign synthesis of Titanium dioxide nanoparticles (TiO ₂ NPs) with enhanced photocatalytic and biomedical applications. <i>Inorganic Chemistry Communication</i> , 2022 , 137, 109179	3.1	1

106	A novel understanding of morphological anisotropy features of nanorod units in brookite dominated triphase mesoporous TiO ₂ and its excellent photocatalytic activity in phenol decomposition: The role of synthesis pH and surface hydroxylation. 2022 , 29, 101715		0
105	Fabrication of Ce doped TiO for efficient organic pollutants removal from wastewater.. 2022 , 293, 133540		3
104	Advanced titanium dioxide fluidizable nanowire photocatalysts.. 2022 , 12, 4240-4252		0
103	Drying of Tiny Colloidal Droplets: A Novel Synthesis Strategy for Nano-structured Micro-granules. 2022 , 445-474		
102	Fabrication and Characterization of a Marine Wet Solar Cell with Titanium Dioxide and Copper Oxides Electrodes. <i>Catalysts</i> , 2022 , 12, 99	4	0
101	NiMoS over Ti-incorporated mesoporous silicates for the hydrotreating of non-edible oils to bio-jet fuels. 2022 , 518, 112113		1
100	Application of Nanostructured TiO in UV Photodetectors: A Review.. 2022 , e2109083		12
99	SnO ₂ -TiO ₂ and SnO ₂ -MoO ₃ Based Composite Gas Sensors to Develop an E-nose for Peruvian Pisco Varieties Differentiation. 2022 , 169, 017511		
98	Brookite, a sometimes under evaluated TiO ₂ polymorph. 2022 , 12, 3322-3334		3
97	Optical, structural and semiconducting properties of Mn doped TiO ₂ nanoparticles for cosmetic applications. <i>Journal of King Saud University - Science</i> , 2022 , 34, 101818	3.6	1
96	Large-Scale Transparent Photovoltaics for a Sustainable Energy Future: Review of Inorganic Transparent Photovoltaics. <i>Applied Science and Convergence Technology</i> , 2022 , 31, 1-8	0.8	0
95	Role of phase content on the photocatalytic performance of TiO ₂ coatings deposited by suspension plasma spray. <i>Journal of the European Ceramic Society</i> , 2022 , 42, 2905-2905	6	0
94	Preparation of polymeric carbon nitride/TiO ₂ heterostructure with NH ₄ Cl as template: Structural and photocatalytic studies. <i>Journal of Physics and Chemistry of Solids</i> , 2022 , 110629	3.9	1
93	Influence of Zn(NO ₃) ₂ concentration during the ZnO electrodeposition on TiO ₂ nanosponges used in photoelectrochemical applications. <i>Ceramics International</i> , 2022 ,	5.1	0
92	Nanomaterial by Sol-Gel Method: Synthesis and Application. <i>Advances in Materials Science and Engineering</i> , 2021 , 2021, 1-21	1.5	36
91	Combinatorial ALD for the growth of ZnO/TiO ₂ nanolaminates and mixed ZnO/TiO ₂ nanostructured films. <i>Materials Advances</i> , 2022 , 3, 2896-2907	3.3	0
90	First-principles study of oxygen vacancy formation in strained oxides. <i>Journal of Applied Physics</i> , 2022 , 131, 075106	2.5	1
89	Acquisition of High Spectral Resolution Diffuse Reflectance Image Cubes (350-2500 nm) from Archaeological Wall Paintings and Other Immovable Heritage Using a Field-Deployable Spatial Scanning Reflectance Spectrometry Hyperspectral System.. <i>Sensors</i> , 2022 , 22,	3.8	0

88	Nanocellulose for Sustainable Water Purification.. <i>Chemical Reviews</i> , 2022 ,	68.1	6
87	Flexible nanostructured TiO ₂ -based gas and UV sensors: a review. <i>Discover Materials</i> , 2022 , 2,		0
86	A Review of Titanium Dioxide (TiO)-Based Photocatalyst for Oilfield-Produced Water Treatment.. <i>Membranes</i> , 2022 , 12,	3.8	9
85	Calcination Temperature Induced Structural, Optical and Magnetic Transformations in Titanium Ferrite Nanoparticles. <i>Reactions</i> , 2022 , 3, 224-232	1.5	
84	Small band gap ferric pseudobrookite as a new photo-Fenton catalyst for degradation of phenolic acid. <i>Journal of Science: Advanced Materials and Devices</i> , 2022 , 100453	4.2	
83	Sol-gel synthesized barium doped TiO ₂ nanoparticles for solar photocatalytic application. <i>Inorganic Chemistry Communication</i> , 2022 , 139, 109340	3.1	3
82	Qualitative and semi-quantitative phase analysis of TiO ₂ thin layers by Raman imaging. <i>Journal of Molecular Structure</i> , 2022 , 1260, 132803	3.4	0
81	Photoelectrochemical and Electrocatalytic Behaviors of TiO ₂ Nanostructures and TiO ₂ /Au Nanocomposites: Effect of Synthesis Conditions. <i>Surface Engineering and Applied Electrochemistry</i> , 2022 , 58, 1-12	0.8	
80	Low Metal Loading (Au, Ag, Pt, Pd) Photo-Catalysts Supported on TiO for Renewable Processes.. <i>Materials</i> , 2022 , 15,	3.5	0
79	Incorporating TiO ₂ nanoparticles to enhance corrosion resistance, cytocompatibility, and antibacterial properties of PEO ceramic coatings on titanium. <i>Ceramics International</i> , 2022 ,	5.1	1
78	Brookite vs. rutile vs. anatase: What's behind their various photocatalytic activities?. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107722	6.8	2
77	Preparation of C/Ho co-doped TiO ₂ for enhancing the photocatalytic degradation efficiency of tetracycline hydrochloride. <i>New Journal of Chemistry</i> ,	3.6	
76	Cu Modified TiO ₂ Catalyst for Electrochemical Reduction of Carbon Dioxide to Methane. <i>Catalysts</i> , 2022 , 12, 478	4	2
75	Lactobacillus plantarum ameliorates the immunological impacts of titanium dioxide nanoparticles (rutile) in Oreochromis niloticus. <i>Aquaculture Research</i> ,	1.9	0
74	Piezoelectric and mechanical properties of hydroxyapatite/titanium oxide composites. <i>Ceramics International</i> , 2022 ,	5.1	
73	Achieving high thermoelectric performance through carrier concentration optimization and energy filtering in Cu ₃ SbSe ₄ -based materials. <i>Journal of Materiomics</i> , 2022 ,	6.7	0
72	Reduction of Heavy Hydrocarbons from Oilfield Produced Water. <i>Pollutants</i> , 2022 , 2, 234-251		0
71	Characteristics of Mg doped TiO ₂ thin film based deep UV photodetector. <i>Vacuum</i> , 2022 , 201, 111115	3.7	1

70	Thickness dependence of the response of metal-dioxide-based micromechanical sensors for sensitive gamma-ray detection.. <i>Applied Radiation and Isotopes</i> , 2022 , 186, 110225	1.7	
69	Photocatalytic Silica Resin Coating for Environmental Protection of Paper as a Plastic Substitute. <i>Industrial & Engineering Chemistry Research</i> ,	3.9	
68	Acid-regulated hydrolysis and condensation of titanium cation toward controllable synthesis of multiphase mesoporous TiO ₂ for effectively enhance photocatalytic H ₂ evolution. <i>Catalysis Today</i> , 2022 ,	5.3	0
67	Photocatalytic activity of ZrO ₂ /TiO ₂ /Fe ₃ O ₄ ternary nanocomposite for the degradation of naproxen: characterization and optimization using response surface methodology. <i>Scientific Reports</i> , 2022 , 12,	4.9	1
66	Recent Progress on Titanium Sesquioxide: Fabrication, Properties, and Applications. <i>Advanced Functional Materials</i> , 2203491	15.6	3
65	TiO ₂ Nanocrystals and Annona crassiflora Polyphenols Used Alone or Mixed Impact Differently on Wound Repair. <i>Anais Da Academia Brasileira De Ciencias</i> , 2022 , 94,	1.4	1
64	Zinc gallate (ZnGa ₂ O ₇) epitaxial thin films: determination of optical properties and bandgap estimation using spectroscopic ellipsometry. <i>Optical Materials Express</i> ,	2.6	
63	Effects of Hubbard U correction on the structural and electronic properties of rutile, anatase and brookite TiO ₂ . <i>Materials Today: Proceedings</i> , 2022 ,	1.4	
62	Local Dipole Enhancement of Space-Charge Piezophototronic Catalysts of Core-Shell Polytetrafluoroethylene@TiO ₂ Nanospheres. <i>Nano Energy</i> , 2022 , 107619	17.1	1
61	Newly-modeled graphene-based ternary nanocomposite for the magnetophotocatalytic reduction of CO ₂ with electrochemical performance. <i>Frontiers of Chemical Science and Engineering</i> ,	4.5	0
60	Application of photocatalytic ozonation with a WO ₃ /TiO ₂ catalyst for PFAS removal under UVA/visible light. <i>Science of the Total Environment</i> , 2022 , 843, 157006	10.2	0
59	Preparation and immobilisation of Brookite-type Ti ₃ +TiO ₂ for photocatalytic ammonia synthesis from N ₂ and H ₂ O. <i>Applied Surface Science</i> , 2022 , 154328	6.7	
58	Novel route of colloidal chemistry: room temperature reactive interaction between titanium monoxide and silicon monoxide sols produced by laser ablation in liquid resulting in formation of titanium disilicide.		0
57	Eco-Friendly Biosynthesis of Tio ₂ Nanoparticles Using Desmostachya Bipinnata Extract: Larvicidal and Pupicidal Potential Against Aedes Aegypti and Spodoptera Litura and Acute Toxicity in Non-Target Organisms.		
56	Adducing Knowledge Capabilities of Instrumental Techniques through the Exploration of Heterostructures Modification Methods..		1
55	Structure and Phase Composition Study of Heavy Doped with Carbon Thin Films of TiO ₂ : C Deposited by RF Magnetron Sputtering.		
54	Efficient Photocatalytic Nanocomposites of Anatase/Rutile Mixed-Phase Titania with MWCNTs and WC for Visible and UV-A Ranges.		
53	Electronic structure and effective mass analysis of doped TiO ₂ (anatase) systems using DFT+U. 2022 , 214, 111714		0

52	Review of nanomaterials impact on improving the performance of dye-sensitized and perovskite solar cells. 2022 , 54,	0
51	Isophotonic reactor for the precise determination of quantum yields in gas, liquid, and multi-phase photoreactions. 2023 , 452, 139204	1
50	Modeling titanium dioxide nanostructures for photocatalysis and photovoltaics. 2022 , 13, 9485-9497	0
49	Recent Progress in One Dimensional TiO ₂ Nanomaterials as Photoanode in Dye-Sensitized Solar Cells.	0
48	Crystal facet and phase engineering for advanced water splitting. 2022 , 24, 5838-5864	1
47	A facile bottom-up method for synthesis of peroxo-potassium titanate nanoribbons and visible light photocatalytic activity derived from a peroxo-titanium bond. 2022 , 4, 3573-3584	0
46	Photocatalytic And'And Photoelectrocatalytic H ₂ -Evolution Combined with Valuable Furfural-Production Ontio ₂ Supports.	0
45	Synthesis and applications of TiO ₂ /ZnO hybrid nanostructures by ZnO deposition on TiO ₂ nanotubes using electrochemical processes. 2022 ,	0
44	Synergistic Correlation in the Colloidal Properties of TiO ₂ Nanoparticles and Its Impact on the Photocatalytic Activity. 2022 , 10, 125	1
43	Efficient nitrate removal from water using an integrated photocatalyst-adsorbent based on chitosan-titanium dioxide nanocomposite.	0
42	Effects of hydrothermal treatment of cellulose nanocrystal templated TiO ₂ films on their photodegradation activity of methylene blue, methyl orange, and rhodamine B. 2022 ,	1
41	Zn-doped titania nanoparticles as building blocks for solid foam filters of water and air via photocatalytic oxidation. 2022 , 106527	0
40	Band gap in photocatalytic ZnO//TiO ₂ . 27-35	0
39	Heterostructures of Cut Carbon Nanotube-Filled Array of TiO ₂ Nanotubes for New Module of Photovoltaic Devices. 2022 , 12, 3604	0
38	Sub-10 nm Corrugated TiO ₂ Nanowire Arrays by Monomicelle-Directed Assembly for Efficient Hole Extraction.	1
37	Combining density functional theory and CFD-PBM model to predict TiO ₂ nanoparticle evolution during chemical vapor deposition. 2022 , 140174	1
36	Enhanced photovoltaic properties of eosin-Y sensitized solar cells using nanocrystalline N-doped TiO ₂ photoanode films. 2022 , 286, 116050	0
35	Facile synthesis of N-doped biphasic TiO ₂ nanoparticles with enhanced visible light-driven photocatalytic performance. 2022 , 33, 104690	0

- 34 Space-Confining seeding and growth of ordered arrays of TiO₂ hierarchical nanostructures. **2023**, 630, 436-443 ○
- 33 Accumulation of engineered nanomaterials by plants. **2023**, 295-326 ○
- 32 Effect of brookite on the photocatalytic properties of mixed-phase TiO₂ obtained at a higher temperature. **2023**, 287, 116104 ○
- 31 A facile way to synthesize noble metal free TiO₂ based catalysts for glycerol photoreforming. **2022**, 1 ○
- 30 Characterization of pure anatase TiO₂ nano rods synthesized by microwave method. **2022**, ○
- 29 Polymorphic control in titanium dioxide particles. ○
- 28 Experimentally informed structure optimization of amorphous TiO₂ films grown by atomic layer deposition. ○
- 27 Photocatalytic disinfection of *S. aureus* using black TiO₂ under visible light. 2
- 26 Photocatalytic and photoelectrocatalytic H₂ evolution combined with valuable furfural production. **2023**, 650, 118987 ○
- 25 TiO₂ - Catalyzed photo decolorization of chlorazol black BH dye under UV-A light. **2022**, ○
- 24 Characterization of Various Titanium-Dioxide-Based Catalysts Regarding Photocatalytic Mineralization of Carbamazepine also Combined with Ozonation. **2022**, 27, 8041 ○
- 23 Well-Defined Single and Bundled Rutile Nanorods in Mesoporous Silica for Efficient Hydrogen Evolution Photocatalysis. **2022**, 5, 18004-18013 ○
- 22 Recent Progress on Tailoring the Biomass-Derived Cellulose Hybrid Composite Photocatalysts. **2022**, 14, 5244 ○
- 21 Factors Affecting the Hydrophobic Property of Stearic Acid Self-Assembled on the TiO₂ Substrate. **2022**, 7, 48184-48191 ○
- 20 Feature-specific Correlation of Structural, Optical, and Chemical Properties in the Transmission Electron Microscope with Hypermodal Data Fusion. ○
- 19 Analysis of the role of the pH in the anchoring of alkylphosphonic acid on a TiO₂ surface: A DFTB study. **2023**, 219, 111997 ○
- 18 Titanium Dioxide as the Most Used Photocatalyst for Water Purification: An Overview. **2023**, 13, 26 2
- 17 Efficient nitrate reduction in water using an integrated photocatalyst adsorbent based on chitosan-titanium dioxide nanocomposite. ○

- 16 Polymer composites for humidity sensors. **2023**, 267-293 ○
- 15 Introduction of Fe on rGO/TiO₂ improves styrene visible light-driven photocatalytic oxidation: Characterization, stability, kinetics, and mechanism. **2023**, 439, 114613 ○
- 14 Influence of Gd Concentration on the Structural, Optical, and Electrical Properties of Gd/Al Codoped TiO₂ Nanoparticles by Precipitation Method. ○
- 13 Electronic structure characterization of TiO₂-II with the PbO₂ structure by electron-energy-loss-spectroscopy and comparison with anatase, brookite, and rutile. **2023**, 322, 123952 ○
- 12 The facile synthesis of 3D hierarchical flower-like TiO₂ microspheres with enhanced photocatalytic activity. **2023**, 177, 111286 ○
- 11 Density functional theory and molecular dynamics studies on electrical, mechanical, and thermal properties of TiO₂ nanoparticles interacting with poly lactic-co-glycolic acid. **2023**, 667, 131388 ○
- 10 The effect of nanocrystalline TiO₂ on structure and catalytic activity of CuO/ZnO in combined methanol reforming. **2023**, 136, 367-379 ○
- 9 A systematic review on photocatalytic concrete for pavement applications: an innovative solution to reduce air pollution. **2023**, 8, ○
- 8 Methodological Investigation of the Band Gap Determination of Solid Semiconductors via UV/Vis Spectroscopy. ○
- 7 Investigation of dielectric properties of amorphous, anatase, and rutile TiO₂ structures. **2023**, 34, ○
- 6 Heterophase Polymorph of TiO₂ (Anatase, Rutile, Brookite, TiO₂ (B)) for Efficient Photocatalyst: Fabrication and Activity. **2023**, 13, 704 ○
- 5 Photoelectrochemical Degradation of Contaminants of Emerging Concern with Special Attention on the Removal of Acetaminophen in Water-Based Solutions. **2023**, 13, 524 ○
- 4 Crucible Effect on Phase Transition Temperature during Microwave Calcination of a N-Doped TiO₂ Precursor: Implications for the Preparation of TiO₂ Nanophotocatalysts. **2023**, 6, 5448-5459 ○
- 3 Brookite TiO₂ Nanosquares Synthesized by a Novel Green Hydrothermal Method. ○
- 2 Effective control of the tomato wilt pathogen using TiO₂ nanoparticles as a green nanopesticide. ○
- 1 Photocatalytic Activity of 3D Printed TiO₂ Architectures Under Solar Radiation. **2023**, 79-100 ○