

# Raman scattering study on anatase TiO<sub>2</sub>nanocrystals

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Citation Report

#	ARTICLE	IF	CITATIONS
2	X-ray diffraction study on pressure-induced phase transformations in nanocrystalline anatase/rutile (TiO <sub>2</sub> ). Journal of Physics Condensed Matter, 2001, 13, 8317-8323.	0.7	66
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696	Extremely Large Magnetic-Field-Effects on the Impedance Response of TiO <sub>2</sub> Quantum Dots. <i>Scientific Reports</i> , 2019, 9, 5322.	1.6	5
697	In-situ deposition of Co nanoparticles in discharged TiO <sub>2</sub> nanotube array with enhanced magnetic property. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 485, 217-223.	1.0	2
698	General Strategy To Synthesize Highly Dense Metal Oxide Quantum Dots-Anchored Nitrogen-Rich Graphene Compact Monoliths To Enable Fast and High-Stability Volumetric Lithium/Sodium Storage. <i>ACS Applied Energy Materials</i> , 2019, 2, 3500-3512.	2.5	26
699	Gas-sensing properties of nanostructured TiO <sub>2</sub> –xZrO <sub>2</sub> thin films obtained by the sol–gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 92, 415-426.	1.1	17
700	Easy and convenient synthesis of CNT/TiO <sub>2</sub> nanohybrid by in-surface oxidation of Ti <sup>3+</sup> ions and application in the photocatalytic degradation of organic contaminants in water. <i>Synthetic Metals</i> , 2019, 251, 1-14.	2.1	48
701	Dehydration of Alginate Cryogel by TiCl <sub>4</sub> vapor: Direct Access to Mesoporous TiO <sub>2</sub> @C Nanocomposites and Their Performance in Lithium-Ion Batteries. <i>ChemSusChem</i> , 2019, 12, 2660-2670.	3.6	6
702	Preparation of various boron-doped TiO <sub>2</sub> nanostructures by in situ anodizing method and investigation of their photoelectrochemical and photocathodic protection properties. <i>Journal of the Iranian Chemical Society</i> , 2019, 16, 1839-1851.	1.2	44
703	Fe overlayered hybrid TiO <sub>2</sub> /ITO nanocomposite sensor for enhanced hydrogen sensing at room temperature by novel two step process. <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 278-289.	4.0	12
704	High-performance graphene oxide nanofiltration membrane with continuous nanochannels prepared by the <i>in situ</i> oxidation of MXene. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6475-6481.	5.2	130
705	Crystal Growth in Mesoporous TiO <sub>2</sub> Optical Thin Films. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6070-6079.	1.5	7
706	Controlling the density of hydrothermally grown rutile TiO <sub>2</sub> nanorods on anatase TiO <sub>2</sub> films. <i>Surfaces and Interfaces</i> , 2019, 15, 141-147.	1.5	6
707	Solution-Processed Self-Powered Transparent Ultraviolet Photodetectors with Ultrafast Response Speed for High-Performance Communication System. <i>Advanced Functional Materials</i> , 2019, 29, 1809013.	7.8	123
708	Synthesis of Pure Brookite Nanorods in a Nonaqueous Growth Environment. <i>Crystals</i> , 2019, 9, 562.	1.0	22
709	Molten Salt Hydrates in the Synthesis of TiO <sub>2</sub> Flakes. <i>ACS Omega</i> , 2019, 4, 21302-21310.	1.6	4
710	Electrochemical performance of RuO <sub>2</sub> -TiO <sub>2</sub> nanotube hybrid electrode material. <i>Materials Research Express</i> , 2019, 6, 125550.	0.8	28
711	Evaluation of the Photocatalytic Activity of a Cordierite-Honeycomb-Supported TiO <sub>2</sub> Film with a Liquid-Solid Photoreactor. <i>Molecules</i> , 2019, 24, 4499.	1.7	7
712	Synthesis of Fe- and Co-Doped TiO <sub>2</sub> with Improved Photocatalytic Activity Under Visible Irradiation Toward Carbamazepine Degradation. <i>Materials</i> , 2019, 12, 3874.	1.3	93

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714	TiO <sub>2</sub> /graphene/CuSbS <sub>2</sub> mixed-dimensional array with high-performance photoelectrochemical properties. <i>RSC Advances</i> , 2019, 9, 33747-33754.	1.7	4
715	A uniform few-layered carbon coating derived from self-assembled carboxylate monolayers capable of promoting the rate properties and durability of commercial TiO <sub>2</sub> . <i>RSC Advances</i> , 2019, 9, 36334-36342.	1.7	2
716	Enhanced photoelectrochemical performance of TiO <sub>2</sub> photoanode decorated with Pd-carbon core shell nanoparticles. <i>Renewable Energy</i> , 2019, 134, 1232-1239.	4.3	13
717	Microstructure, chemical and biological performance of boron-modified TiCaPCON films. <i>Applied Surface Science</i> , 2019, 465, 486-497.	3.1	7
718	Consequences of (Cr/Co) co-doping on the microstructure, optical and magnetic properties of microwave assisted sol-gel derived TiO <sub>2</sub> nanoparticles. <i>Journal of Luminescence</i> , 2019, 205, 406-416.	1.5	18
719	Cobalt-doped titanium oxide nanotubes grown via one-step anodization for water splitting applications. <i>Applied Surface Science</i> , 2019, 464, 351-359.	3.1	31
720	Understanding the Behavior and Mechanism of Oxygen-Deficient Anatase TiO <sub>2</sub> toward Sodium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 3061-3069.	4.0	26
721	Raman Thermography of Peak Channel Temperature in $\text{Ga}_{2}\text{O}_{3}$ MOSFETs. <i>IEEE Electron Device Letters</i> , 2019, 40, 189-192.	2.2	54
722	A systematic study of multifunctional xTiO <sub>2</sub> /(100-x)SiO <sub>2</sub> thin films prepared by sol-gel process. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 89, 380-391.	1.1	7
723	Hybrid Cr/TiO <sub>2</sub> /ITO nanoporous film prepared by novel two step deposition for room temperature hydrogen sensing. <i>Physica B: Condensed Matter</i> , 2019, 553, 182-189.	1.3	6
724	Preliminary studies of TiO <sub>2</sub> nanopowder deposition onto metallic substrate by low pressure cold spraying. <i>Surface and Coatings Technology</i> , 2019, 371, 194-202.	2.2	14
725	Graphene films decorated with TiO <sub>2</sub> grown by atomic layer deposition: Characterization and photocatalytic activity study under UV-visible light. <i>Applied Surface Science</i> , 2019, 470, 484-495.	3.1	13
726	Low-temperature-dependent growth of titanium dioxide nanorod arrays in an improved aqueous chemical growth method for photoelectrochemical ultraviolet sensing. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 1017-1033.	1.1	9
727	Photocatalytic degradation of sulfur black dye over Ce-TiO <sub>2</sub> under UV irradiation: removal efficiency and identification of degraded species. <i>Euro-Mediterranean Journal for Environmental Integration</i> , 2019, 4, 1.	0.6	18
728	High energy 120 MeV Ti <sup>9+</sup> ion beam induced modifications in optical, structural and surface morphological properties of titanium dioxide thin films. <i>Vacuum</i> , 2019, 166, 323-334.	1.6	20
729	Sol-gel synthesized hexagonal boron nitride/titania nanocomposites with enhanced photocatalytic activity. <i>Applied Surface Science</i> , 2019, 465, 154-163.	3.1	171
730	HDS of 4,6-dimethyldibenzothiophene over CoMoS supported mesoporous SiO <sub>2</sub> -TiO <sub>2</sub> materials. <i>Catalysis Today</i> , 2020, 357, 675-683.	2.2	14

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732	Effect of nitrogen-doping and post annealing on wettability and band gap energy of TiO <sub>2</sub> thin film. <i>Applied Surface Science</i> , 2020, 500, 144048.	3.1	41
733	Sputtered vs. sol-gel TiO <sub>2</sub> -doped films: Characterization and assessment of aqueous bisphenol A oxidation under UV and visible light radiation. <i>Catalysis Today</i> , 2020, 357, 380-391.	2.2	15
734	Palladium nanoparticles uniformly and firmly supported on hierarchical flower-like TiO <sub>2</sub> nanospheres as a highly active and reusable catalyst for detoxification of Cr(VI)-contaminated water. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 359-369.	1.6	13
735	Effects of pulsed laser and plasma interaction on Fe, Ni, Ti, and their oxides for LIBS Raman analysis in extraterrestrial environments. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 1667-1681.	1.2	10
736	Highly ordered hierarchically macroporous- mesoporous TiO <sub>2</sub> for thiol-ene polymer design by photoclick chemistry. <i>Microporous and Mesoporous Materials</i> , 2020, 291, 109696.	2.2	8
737	Fast response of UV photodetector based on Ag nanoparticles embedded uniform TiO <sub>2</sub> nanotubes array. <i>Semiconductor Science and Technology</i> , 2020, 35, 015001.	1.0	30
738	Altering the reaction mechanism to eliminate the shuttle effect in lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2020, 26, 203-212.	9.5	63
739	Phase transformation from rutile to anatase with oxygen ion dose in the TiO <sub>2</sub> layer formed on a Ti substrate. <i>Materials Science in Semiconductor Processing</i> , 2020, 106, 104776.	1.9	15
740	Influence of Nd <sup>3+</sup> Doping on the Structure, Thermal Evolution and Photoluminescence Properties of Nanoparticulate TiO <sub>2</sub> Xerogels. <i>Journal of Alloys and Compounds</i> , 2020, 819, 152972.	2.8	11
741	Carbon-based artificial SEI layers for aqueous lithium-ion battery anodes. <i>RSC Advances</i> , 2020, 10, 674-681.	1.7	23
742	Dielectric Properties of Graphene/Titania/Polyvinylidene Fluoride (G/TiO <sub>2</sub> /PVDF) Nanocomposites. <i>Materials</i> , 2020, 13, 205.	1.3	47
743	Chemical bonding black phosphorus with TiO <sub>2</sub> and carbon toward high-performance lithium storage. <i>Journal of Power Sources</i> , 2020, 449, 227549.	4.0	32
744	Charge Transfer in c-Si(n <sup>++</sup> )/TiO <sub>2</sub> (ALD) at the Amorphous/Anatase Transition: A Transient Surface Photovoltage Spectroscopy Study. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 3140-3149.	4.0	20
745	Comparative study of transition metal (Mn, Fe or Co) catalysts supported on titania: Effect of Au nanoparticles addition towards CO oxidation and soot combustion reactions. <i>Chemical Engineering Journal</i> , 2020, 385, 123848.	6.6	64
746	Ultra-thin rGO nanosheet modified TiO <sub>2</sub> nanotube arrays for boosted photoelectrochemical performance. <i>Applied Surface Science</i> , 2020, 506, 144966.	3.1	24
747	Effects of water-to-methanol ratio on the structural, optical and photocatalytic properties of titanium dioxide thin films prepared by mist chemical vapor deposition. <i>Catalysis Today</i> , 2020, 358, 172-176.	2.2	9
748	Self-Heating Characterization of Ga <sub>2</sub> O <sub>3</sub> Thin-Channel MOSFETs by Pulsed $\beta$ and Raman Nanothermography. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 204-211.	1.6	18

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750	A defective g-C <sub>3</sub> N <sub>4</sub> /RGO/TiO <sub>2</sub> composite from hydrogen treatment for enhanced visible-light photocatalytic H <sub>2</sub> production. <i>Nanoscale</i> , 2020, 12, 22030-22035.	2.8	31
751	Development of new modified electrode based on β-cyclodextrin for methylene blue detection. <i>Sensor Review</i> , 2020, 40, 477-483.	1.0	2
752	Crystallinity and Play-of-Colour in Gem Opal with Digit Patterns from Wegel Tena, Ethiopia. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 625.	0.8	5
753	Photocatalytic oxidation process for treatment of gas phase benzene using Ti <sup>3+</sup> self-doped TiO <sub>2</sub> microsphere with sea urchin-like structure. <i>Chemical Engineering Journal</i> , 2020, 402, 126220.	6.6	41
754	Nanoscale TiO <sub>2</sub> coating improves water stability of Cs <sub>2</sub> SnCl <sub>6</sub> . <i>MRS Communications</i> , 2020, 10, 687-694.	0.8	1
755	TiO <sub>2</sub> Co-doped with Zr and Ag shows highly efficient visible light photocatalytic behavior suitable for treatment of polluted water. <i>RSC Advances</i> , 2020, 10, 42235-42248.	1.7	22
756	Highly Active Nanosized Anatase TiO <sub>2</sub> Oxide Catalysts In Situ Formed through Reduction and Ostwald Ripening Processes for Propane Dehydrogenation. <i>ACS Catalysis</i> , 2020, 10, 14678-14693.	5.5	39
757	Hydrogenation engineering of bimetallic Ag-Cu-modified-titania photocatalysts for production of hydrogen. <i>Catalysis Today</i> , 2022, 388-389, 79-86.	2.2	4
758	Visible Light Photocatalyst Anatase Phased TiO <sub>2</sub> Nanoparticles for Enhanced Antibacterial Performance. <i>Journal of Cluster Science</i> , 2021, 32, 1701-1709.	1.7	8
759	Anatase Forming Treatment without Surface Morphological Alteration of Dental Implant. <i>Materials</i> , 2020, 13, 5280.	1.3	5
760	Preparation and characterization of titanium dioxide nanoparticles and <i>in vitro</i> investigation of their cytotoxicity and antibacterial activity against <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> . <i>Animal Biotechnology</i> , 2022, 33, 864-870.	0.7	45
761	Rapid evaluation of oxygen vacancies-enhanced photogeneration of the superoxide radical in nano-TiO <sub>2</sub> suspensions. <i>RSC Advances</i> , 2020, 10, 29082-29089.	1.7	26
762	Obtaining and Characterization of TiO <sub>2</sub> -GO Composites for Photocatalytic Applications. <i>International Journal of Photoenergy</i> , 2020, 2020, 1-9.	1.4	17
763	Laser induced formation of copper species over TiO <sub>2</sub> nanotubes towards enhanced water splitting performance. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 19192-19205.	3.8	9
764	Electronic and optical competence of TiO <sub>2</sub> /BiVO <sub>4</sub> nanocomposites in the photocatalytic processes. <i>Scientific Reports</i> , 2020, 10, 13507.	1.6	30
765	A TiO <sub>2</sub> /Nb <sub>2</sub> O <sub>5</sub> heterojunction catalyst for conversion of glucose into 5-hydroxymethylfurfural in water. <i>Catalysis Science and Technology</i> , 2020, 10, 7857-7864.	2.1	7
766	Trimetallic composite nanofibers for antibacterial and photocatalytic dye degradation of mixed dye water. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 4191-4205.	1.6	30

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767	Anodic titania nanotubes decorated with gold nanoparticles produced by laser-induced dewetting of thin metallic films. <i>Scientific Reports</i> , 2020, 10, 20506.	1.6	12
768	Strong, Rapid, and Reversible Photochromic Response of Nb Doped TiO <sub>2</sub> Nanocrystal Colloids in Hole Scavenging Media. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 57609-57618.	4.0	20
769	Incorporation of Anatase-TiO <sub>2</sub> in cement to enhance the self-cleaning and mechanical properties: A systematic study. <i>Materials Today: Proceedings</i> , 2020, 47, 533-533.	0.9	5
770	Effect of pH on the Formation of Amorphous TiO <sub>2</sub> Complexes and TiO <sub>2</sub> Anatase during the Pyrolysis of an Aqueous TiCl <sub>4</sub> Solution. <i>Catalysts</i> , 2020, 10, 1187.	1.6	5
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772	Extension of hydrophilicity stability by reactive plasma treatment and wet storage on TiO <sub>2</sub> nanotube surfaces for biomedical implant applications. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20200650.	1.5	25
773	Femtosecond Laser-Etched MXene Microsupercapacitors with Double-Side Configuration via Arbitrary On- and Through-Substrate Connections. <i>Advanced Energy Materials</i> , 2020, 10, 2000470.	10.2	40
774	Electropolishing and anodization of titanium in water/ethylene glycol baths for the production of TiO <sub>2</sub> nanotubes. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	0.8	3
775	Visible-light-driven deep oxidation of NO over Fe doped TiO <sub>2</sub> catalyst: Synergic effect of Fe and oxygen vacancies. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119196.	10.8	148
776	Variations in the local structure of nano-sized anatase TiO <sub>2</sub> . <i>Journal of Solid State Chemistry</i> , 2020, 288, 121414.	1.4	11
777	<i>In situ</i> coupling of TiO <sub>2</sub> (B) and ZIF-8 with enhanced photocatalytic activity <i>via</i> effective defect. <i>CrystEngComm</i> , 2020, 22, 4250-4259.	1.3	16
778	Glass fiber separator coated by boron doped anatase TiO <sub>2</sub> for high-rate Li-S battery. <i>Materials Research Bulletin</i> , 2020, 129, 110917.	2.7	23
779	Heterostructured MWCNTs@PANI@TiO <sub>2</sub> Nanocomposites for Enhanced Adsorption of As(III) from Aqueous Solution: Adsorption and Photocatalytic Oxidation Behaviors. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 11743-11756.	1.8	38
780	Laser-induced crystallization of anodic TiO <sub>2</sub> nanotube layers. <i>RSC Advances</i> , 2020, 10, 22137-22145.	1.7	23
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782	Hierarchically nanostructured functional materials for artificial photosynthesis. , 2020, , 229-255.		0
783	Hierarchical Porous Anatase TiO <sub>2</sub> Microspheres with High-Rate and Long-Term Cycling Stability for Sodium Storage in Ether-Based Electrolyte. <i>ACS Applied Energy Materials</i> , 2020, 3, 3619-3627.	2.5	13
784	Effect of TiO <sub>2</sub> particle and pore size on DSSC efficiency. <i>Materials for Renewable and Sustainable Energy</i> , 2020, 9, 1.	1.5	21

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786	Defect Engineering in Titanium-Based Oxides for Electrochemical Energy Storage Devices. <i>Electrochemical Energy Reviews</i> , 2020, 3, 286-343.	13.1	52
787	Photodegradation of 4-nitrophenol over B-doped TiO <sub>2</sub> nanostructure: effect of dopant concentration, kinetics, and mechanism. <i>Environmental Science and Pollution Research</i> , 2020, 27, 10966-10980.	2.7	52
788	Spindle-Like MOF Derived TiO <sub>2</sub> @NCâ€“NCNTs Composite with Modulating Defect Site and Graphitization Nanoconfined Pt NPs as Superior Bifunctional Fuel Cell Electrocatalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 1933-1942.	3.2	39
789	The elaboration of multifunctional hollow coreâ€“shell Fe <sub>3</sub> O <sub>4</sub> @PDA@TiO <sub>2</sub> architecture with dual magnetic- and photo-responsive performance. <i>New Journal of Chemistry</i> , 2020, 44, 3487-3492.	1.4	13
790	Synthesis of rutile TiO <sub>2</sub> powder by microwave-enhanced roasting followed by hydrochloric acid leaching. <i>Advanced Powder Technology</i> , 2020, 31, 1140-1147.	2.0	20
791	Micro-Raman Spectroscopy of Dental Implants Subjected to Different Surface Treatments. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2417.	1.3	9
792	Efficient Photodecomposition of NO <sub>x</sub> on Carbon Modified Ag/TiO <sub>2</sub> Nanocomposites. <i>Topics in Catalysis</i> , 2020, 63, 1251-1260.	1.3	5
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794	TiO <sub>2</sub> -reduced graphene oxide nanocomposites for the trace removal of diclofenac. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	17
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797	Nanosized <sc> Ti <sub>4</sub> O <sub>7</sub> </sc> supported on carbon nanotubes composite modified separator for enhanced electrochemical properties of lithium sulfur battery. <i>International Journal of Energy Research</i> , 2021, 45, 4331-4344.	2.2	14
798	Single-step synthesis of Fe-TiO <sub>2</sub> nanotube arrays with improved light harvesting properties for application as photoactive electrodes. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 263, 114896.	1.7	14
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800	Structural and optical properties of multilayered un-doped and cobalt doped TiO <sub>2</sub> thin films. <i>Applied Surface Science</i> , 2021, 536, 147830.	3.1	18
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804	Free-standing electrochemically coated MoS <sub>x</sub> based 3D-printed nanocarbon electrode for solid-state supercapacitor application. <i>Nanoscale</i> , 2021, 13, 5744-5756.	2.8	52
805	Descriptor-Guided Design and Experimental Synthesis of Metal-Doped TiO <sub>2</sub> for Propane Dehydrogenation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 1200-1209.	1.8	8
806	The effect of Cu dopants on electron transfer to O <sub>2</sub> and the connection with acetone photocatalytic oxidations over nano-TiO <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 8300-8308.	1.3	6
807	Intergranular passivation of the TiC coating for enhancing corrosion resistance and surface conductivity in stainless-steel bipolar plates. <i>Journal of Materials Science</i> , 2021, 56, 8689-8703.	1.7	16
808	Visible light active Zr- and N-doped TiO <sub>2</sub> coupled g-C <sub>3</sub> N <sub>4</sub> heterojunction nanosheets as a photocatalyst for the degradation of bromoxynil and Rh B along with the H <sub>2</sub> evolution process. <i>Nanoscale Advances</i> , 2021, 3, 6468-6481.	2.2	5
809	Bimetal-organic framework derived multi-heterostructured TiO <sub>2</sub> /Cu <sub>x</sub> O/C nanocomposites with superior photocatalytic H <sub>2</sub> generation performance. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4103-4116.	5.2	37
810	Enhancing plasmonic hot-carrier generation by strong coupling of multiple resonant modes. <i>Nanoscale</i> , 2021, 13, 2792-2800.	2.8	13
811	An exploratory study of TiO <sub>2</sub> -based multicomponent nanotubes on TiFeNbSn ultrafine eutectic alloy. <i>Surface and Coatings Technology</i> , 2021, 407, 126765.	2.2	3
812	Influence of Photo-Deposited Pt and Pd onto Chromium Doped TiO <sub>2</sub> Nanotubes in Photo-Electrochemical Water Splitting for Hydrogen Generation. <i>Catalysts</i> , 2021, 11, 212.	1.6	9
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814	Fabrication of Carbon Nanofibers Decorated with Various Kinds of Metal Oxides for Battery Applications. <i>Energies</i> , 2021, 14, 1353.	1.6	10
815	Insights into the Intrinsic Creation of Heterojunction-Based Ordered TiO <sub>2</sub> Nanotubes Obtained from the One-Step Anodic Oxidation of Titanium Alloys. <i>Journal of Physical Chemistry C</i> , 2021, 125, 7097-7108.	1.5	6
816	An in situ investigation of the thermal decomposition of metal-organic framework NH <sub>2</sub> -MIL-125 (Ti). <i>Microporous and Mesoporous Materials</i> , 2021, 316, 110957.	2.2	43
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818	Crack-enhanced weathering in inscribed marble: a possible application in epigraphy. <i>European Journal of Mineralogy</i> , 2021, 33, 189-202.	0.4	0
819	Operando Raman and UV-Vis spectroscopic investigation of the coloring and bleaching mechanism of self-powered photochromic devices for smart windows. <i>Nano Energy</i> , 2021, 82, 105721.	8.2	34
820	Investigation on the gaseous benzene removed by photocatalysis employing TiO <sub>2</sub> modified with cobalt and iodine as photocatalysts under visible light. <i>Environmental Technology (United Tj ETQq1 1 0.784314 rgBT /Overlock 10</i>		

#	ARTICLE	IF	CITATIONS
821	Trace compounds in Early Medieval Egyptian blue carry information on provenance, manufacture, application, and ageing. <i>Scientific Reports</i> , 2021, 11, 11296.	1.6	5
822	Selective hydrogenation of furfural to furfuryl alcohol over Pd/TiH <sub>2</sub> catalyst. <i>Molecular Catalysis</i> , 2021, 508, 111599.	1.0	14
823	Facile fabrication of 3D TiO <sub>2</sub> - graphene aerogel composite with enhanced adsorption and solar light-driven photocatalytic activity. <i>Ceramics International</i> , 2021, 47, 14290-14300.	2.3	17
824	Ultrafine TiO <sub>2</sub> Nanoparticle Supported Nitrogen-Rich Graphitic Porous Carbon as an Efficient Anode Material for Potassium-Ion Batteries. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100042.	2.8	8
825	The behavior of the active modes of the anatase phase of TiO <sub>2</sub> at high temperatures by Raman scattering spectroscopy. <i>Indian Journal of Physics</i> , 2022, 96, 1673-1681.	0.9	10
826	KIT-6 induced mesostructured TiO <sub>2</sub> for photocatalytic degradation of methyl blue. <i>Environmental Science and Pollution Research</i> , 2021, 28, 53340-53352.	2.7	17
827	High-rate and high conductivity mesoporous TiO <sub>2</sub> nano hollow spheres: Synergetic effect of structure and oxygen vacancies. <i>Ceramics International</i> , 2021, 47, 13572-13581.	2.3	20
828	Modification of polyethylene terephthalate track etched membranes by planar magnetron sputtered Ti/TiO <sub>2</sub> thin films. <i>Thin Solid Films</i> , 2021, 725, 138641.	0.8	10
829	Characteristics and Sensing of Sol-gel derived Titanium Dioxide-based Ultraviolet Photodetector on Flame Retardant-4 Board. <i>Sensors and Actuators A: Physical</i> , 2021, 323, 112654.	2.0	11
830	Anatase or rutile TiO <sub>2</sub> nanolayer formation on Ti substrates by laser radiation: Mechanical, photocatalytic and antibacterial properties. <i>Optics and Laser Technology</i> , 2021, 138, 106898.	2.2	20
831	Integration of heterogeneous photocatalysis and persulfate based oxidation using TiO <sub>2</sub> -reduced graphene oxide for water decontamination and disinfection. <i>Heliyon</i> , 2021, 7, e07451.	1.4	20
832	Size and strain induced phase formation and ferromagnetism in reduced TiO <sub>2</sub> powders. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 154, 110058.	1.9	5
833	Experimental and theoretical realization of an advanced bifunctional 2D $\gamma$ -MnO <sub>2</sub> electrode for supercapacitor and oxygen evolution reaction via defect engineering. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 28028-28042.	3.8	20
834	Polyvinylidene fluoride (PVDF)/Ag@TiO <sub>2</sub> nanocomposite membrane with enhanced fouling resistance and antibacterial performance. <i>Materials Chemistry and Physics</i> , 2021, 268, 124723.	2.0	30
835	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.	1.6	2
836	Phase-junction Ag/TiO <sub>2</sub> nanocomposite as photocathode for H <sub>2</sub> generation. <i>Journal of Materials Science and Technology</i> , 2021, 83, 179-187.	5.6	52
837	Amorphous nanomaterials in electrocatalytic water splitting. <i>Chinese Journal of Catalysis</i> , 2021, 42, 1287-1296.	6.9	92
838	Structural, morphological, and optical studies of hydrothermally synthesized Nb-added TiO <sub>2</sub> for DSSC application. <i>Ceramics International</i> , 2021, 47, 25580-25592.	2.3	22

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839	Solvent-induced synthesis of hierarchical TiO <sub>2</sub> nanoflowers with tunable morphology by monolayer self-assembly for probing the photocatalytic performance. <i>Journal of Nanostructure in Chemistry</i> , 2022, 12, 1075-1087.	5.3	6
840	Thickness and ion irradiation induced structural phase changes in the thin films of titanium dioxide. <i>Thin Solid Films</i> , 2021, 736, 138917.	0.8	1
841	Effect of titanium precursors used in the preparation of graphene oxide/TiO <sub>2</sub> composite for gas sensing utilizing quartz crystal microbalance. <i>Nano Structures Nano Objects</i> , 2021, 28, 100780.	1.9	3
842	Improved SERS sensitivity of TiO <sub>2</sub> nanorod films by annealing in vacuum. <i>Vacuum</i> , 2021, 194, 110579.	1.6	10
843	In-situ annealed $\alpha$ -M-scheme MXene-based photocatalyst for enhanced photoelectric performance and highly selective CO <sub>2</sub> photoreduction. <i>Nano Energy</i> , 2021, 90, 106532.	8.2	27
844	Enhanced photocatalytic activity of kaolinite-TiO <sub>2</sub> -graphene oxide composite with a porous stacking structure. <i>Journal of Alloys and Compounds</i> , 2021, 889, 161682.	2.8	16
845	Photocatalytic oxidation of benzyl alcohol and the photoelectrochemical water splitting of visible light-activated TiO <sub>2</sub> nanostructures prepared by one-step titanium anodization. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	3
846	Facile synthesis of biocompatible magnetic titania nanorods for <i>T<sub>1</sub></i> -magnetic resonance imaging and enhanced phototherapy of cancers. <i>Journal of Materials Chemistry B</i> , 2021, 9, 6623-6633.	2.9	13
847	Migration characteristics of heavy metals in the weathering process of exposed argillaceous sandstone in a mercury-thallium mining area. <i>Ecotoxicology and Environmental Safety</i> , 2021, 208, 111751.	2.9	14
848	Rapid and direct growth of bipyramid TiO <sub>2</sub> from Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene to prepare Ni/TiO <sub>2</sub> /C heterogeneous composites for high-performance microwave absorption. <i>Chemical Engineering Journal</i> , 2020, 383, 123095.	6.6	143
849	Solar-active clay-TiO <sub>2</sub> nanocomposites prepared via biomass assisted synthesis: Efficient removal of ampicillin, sulfamethoxazole and artemether from water. <i>Chemical Engineering Journal</i> , 2020, 398, 125544.	6.6	43
850	Heterojunction of vertically aligned MoS <sub>2</sub> layers to Hydrogenated Black TiO <sub>2</sub> and Rutile Based Inorganic Hollow Microspheres for the highly enhanced visible light arsenic photooxidation. <i>Composites Part B: Engineering</i> , 2020, 185, 107785.	5.9	32
851	Performance enhancement of Li-S battery with the anatase nano structured Fe doped TiO <sub>2</sub> as a robust interlayer. <i>Journal of Alloys and Compounds</i> , 2020, 838, 155607.	2.8	13
852	Anti-soiling coatings for solar cell cover glass: Climate and surface properties influence. <i>Solar Energy Materials and Solar Cells</i> , 2018, 185, 517-523.	3.0	57
853	Titanium Dioxide Nanomaterials: Synthesis, Properties, Modifications, and Applications. <i>Chemical Reviews</i> , 2007, 107, 2891-2959.	23.0	658
854	One-Pot Synthesis of a Magnetic TiO <sub>2</sub> /PTh/Fe <sub>3</sub> O <sub>3</sub> Heterojunction Nanocomposite for Removing Trace Arsenite via Simultaneous Photocatalytic Oxidation and Adsorption. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 528-540.	1.8	32
855	Synthesis, characterization and photocatalytic activity of mesoporous Na-doped TiO <sub>2</sub> nano-powder prepared <i>via</i> a solvent-controlled non-aqueous sol-gel route. <i>RSC Advances</i> , 2017, 7, 54053-54062.	1.7	66
856	Interfacial structure-governed SO <sub>2</sub> resistance of Cu/TiO <sub>2</sub> catalysts in the catalytic oxidation of CO. <i>Catalysis Science and Technology</i> , 2020, 10, 1661-1674.	2.1	20

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858	Application of Vibrational Spectroscopy to the Characterization of Phyllosilicates and other Industrial Minerals. , 0, , 171-226.		7
859	Development of low-loss TiO <sub>2</sub> waveguides. Optics Express, 2020, 28, 5982.	1.7	21
860	Cotton fibres functionalized with plasmonic nanoparticles to promote the destruction of harmful molecules: an overview. Nanotechnology Reviews, 2019, 8, 671-680.	2.6	9
861	Raman spectroscopy of the laser irradiated titanium dioxide. Semiconductor Physics, Quantum Electronics and Optoelectronics, 2010, 13, 309-313.	0.3	6
862	Effect of Cr-Doping on Luminescence of Nanocrystalline Anatase TiO <sub>2</sub> Powders. Ukrainian Journal of Physics, 2016, 61, 482-488.	0.1	3
863	Effective Linewidth in Raman Spectra of Titanium Dioxide Nanocrystals. The Open Condensed Matter Physics Journal, 2009, 2, 15-18.	0.2	7
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865	Synthesis and Characterization of Highly Crystalline Anatase Nanowire Arrays. Bulletin of the Korean Chemical Society, 2004, 25, 1341-1345.	1.0	23
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868	Influence of annealing atmosphere for controlling oxygen vacancies of PVP-capped TiO <sub>2</sub> nanoparticles. Journal of Nanoparticle Research, 2021, 23, 1.	0.8	8
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872	Using the principal component analysis method in studies of the TiO <sub>2</sub> Raman spectra. , 2017, , .		0
873	Photocatalytic properties of nanosilver-doped TiO <sub>2</sub> powders. , 2019, , .		0
874	TiO <sub>2</sub> @SiO <sub>2</sub> nanoparticles for methylene blue removal and photocatalytic degradation under natural sunlight and low-power UV light. Applied Surface Science, 2022, 576, 151745.	3.1	70
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877	Dyes Depollution of Water Using Porous TiO <sub>2</sub> -Based Photocatalysts. Environmental Chemistry for A Sustainable World, 2020, , 35-92.	0.3	2
878	Characterization of the Interdependence Between the Light Output and Self-Heating of Gallium Nitride Light-Emitting Diodes. Journal of Electronic Packaging, Transactions of the ASME, 2020, 142, .	1.2	0
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880	Amorphous phosphorus chalcogenide as an anode material for lithium-ion batteries with high capacity and long cycle life. Journal of Energy Chemistry, 2022, 68, 658-668.	7.1	15
881	Hydrogen photo-production from glycerol on platinum, gold and silver-modified TiO <sub>2</sub> -USY62 catalysts. Catalysis Today, 2022, 390-391, 92-98.	2.2	7
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883	Facile synthesis of boron and nitrogen doped TiO <sub>2</sub> as effective catalysts for photocatalytic degradation of emerging micro-pollutants. Journal of Industrial and Engineering Chemistry, 2022, 107, 126-136.	2.9	10
884	Synthesis, structure and ionic conductivity of nanocrystalline Ce <sub>1-x</sub> La <sub>x</sub> O <sub>2-δ</sub> as an electrolyte for intermediate temperature solid oxide fuel cells. Journal of Alloys and Compounds, 2022, 896, 163012.	2.8	12
885	Anharmonicity induced faster decay of hot phonons in rutile TiO <sub>2</sub> nanorods: a Raman spectromicroscopy study. Materials Advances, 2022, 3, 1602-1608.	2.6	14
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889	TiO <sub>2</sub> @carbon microsphere core-shell micromotors for photocatalytic water remediation. Optical Materials, 2022, 124, 111989.	1.7	8
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891	Effect of Ag layer thickness on optical and electrical properties of ion-beam-sputtered TiO <sub>2</sub> /Ag/TiO <sub>2</sub> multilayer thin film. Journal of Materials Science: Materials in Electronics, 2022, 33, 6942-6953.	1.1	10
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893	Δ <sub>1</sub> Δ <sub>2</sub> Δ <sub>3</sub> Δ <sub>4</sub> Δ <sub>5</sub> Δ <sub>6</sub> Δ <sub>7</sub> Δ <sub>8</sub> Δ <sub>9</sub> Δ <sub>10</sub> Δ <sub>11</sub> Δ <sub>12</sub> Δ <sub>13</sub> Δ <sub>14</sub> Δ <sub>15</sub> Δ <sub>16</sub> Δ <sub>17</sub> Δ <sub>18</sub> Δ <sub>19</sub> Δ <sub>20</sub> Δ <sub>21</sub> Δ <sub>22</sub> Δ <sub>23</sub> Δ <sub>24</sub> Δ <sub>25</sub> Δ <sub>26</sub> Δ <sub>27</sub> Δ <sub>28</sub> Δ <sub>29</sub> Δ <sub>30</sub> Δ <sub>31</sub> Δ <sub>32</sub> Δ <sub>33</sub> Δ <sub>34</sub> Δ <sub>35</sub> Δ <sub>36</sub> Δ <sub>37</sub> Δ <sub>38</sub> Δ <sub>39</sub> Δ <sub>40</sub> Δ <sub>41</sub> Δ <sub>42</sub> Δ <sub>43</sub> Δ <sub>44</sub> Δ <sub>45</sub> Δ <sub>46</sub> Δ <sub>47</sub> Δ <sub>48</sub> Δ <sub>49</sub> Δ <sub>50</sub> Δ <sub>51</sub> Δ <sub>52</sub> Δ <sub>53</sub> Δ <sub>54</sub> Δ <sub>55</sub> Δ <sub>56</sub> Δ <sub>57</sub> Δ <sub>58</sub> Δ <sub>59</sub> Δ <sub>60</sub> Δ <sub>61</sub> Δ <sub>62</sub> Δ 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#	ARTICLE	IF	CITATIONS
894	Abnormal dielectric relaxations and giant permittivity in SrTiO <sub>3</sub> ceramic prepared by plasma activated sintering. <i>Journal of the American Ceramic Society</i> , 2022, 105, 4143-4151.	1.9	8
895	Synergistic enhancement of photocatalytic CO <sub>2</sub> reduction by plasmonic Au nanoparticles on TiO <sub>2</sub> decorated N-graphene heterostructure catalyst for high selectivity methane production. <i>Applied Catalysis B: Environmental</i> , 2022, 307, 121181.	10.8	58
896	Acceleration Mechanism of Ti &lt;sub>2</sub>&lt;/sub>&lt;sub>3</sub>&lt;/sub> on Tin Formation and Î-Ferrite Nucleation of Ferritic Stainless Steel. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
897	Turn Lemons into Lemonade : Increasing the Mxene Capacity by Controlled Oxidation in Air. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
898	Strategic Design of a WO <sub>3</sub> /PdO<sub>x</sub>-Carbon Shell Composite Photocatalyst: Visible Light-Mediated Selective Hydrogenation of 5-Hydroxymethylfurfural. <i>ACS Applied Energy Materials</i> , 2022, 5, 2706-2719.	2.5	8
899	Porphyrin aluminum MOF with ultra-high water sorption capacity: In-situ time-dependent ATR-FTIR spectroscopy and gravimetry to study mechanism of water bonding and desorption. <i>Vibrational Spectroscopy</i> , 2022, 119, 103356.	1.2	8
900	Ionothermal Synthesis of Carbon/TiO<sub>2</sub> Nanocomposite for Supercapacitors. <i>ChemNanoMat</i> , 2022, 8, .	1.5	27
901	Design and Synthesis of Vanadiumâ€Titaniumâ€incorporated Mesoporous Silica Catalysts for the Oxidative Dehydrogenation of Propane. <i>ChemistrySelect</i> , 2022, 7, .	0.7	2
902	Unravelling the role of lithium and nickel doping on the defect structure and phase transition of anatase TiO <sub>2</sub> nanoparticles. <i>Journal of Materials Science</i> , 2022, 57, 7191-7207.	1.7	6
903	Electroluminescence from light-emitting device with erbium-doped TiO <sub>2</sub> film sputtered on p+Si substrate: Enhancement effect of codoping zirconium. <i>Thin Solid Films</i> , 2022, 748, 139160.	0.8	2
904	Improving oxidation and wear resistance of TiB <sub>2</sub> films by nano-multilayering with Cr. <i>Surface and Coatings Technology</i> , 2022, 436, 128337.	2.2	4
905	Boosted CO <sub>2</sub> photoreduction performance on Ru-Ti <sub>3</sub> CN MXene-TiO <sub>2</sub> photocatalyst synthesized by non-HF Lewis acidic etching method. <i>Journal of Colloid and Interface Science</i> , 2022, 619, 179-187.	5.0	26
906	Smart Mn <sup>7+</sup> Sensing via Quenching on Dual Fluorescence of Eu <sup>3+</sup> Complex-Modified TiO <sub>2</sub> Nanoparticles. <i>Nanomaterials</i> , 2021, 11, 3283.	1.9	3
907	Photochromic TiO <sub>2</sub> /PEGDA organogels. <i>Photochemical and Photobiological Sciences</i> , 2022, 21, 545-555.	1.6	4
908	A facile synthesis of porous amorphous/crystalline TiO <sub>2</sub> hybrids for enhanced electrochromic performances. <i>Journal of Electroanalytical Chemistry</i> , 2022, 914, 116304.	1.9	9
909	Suppressing byproduct formation for high selective CO <sub>2</sub> reduction over optimized Ni/TiO <sub>2</sub> based catalysts. <i>Journal of Energy Chemistry</i> , 2022, 72, 465-478.	7.1	17
910	Blue Titania: The Outcome of Defects, Crystalline-Disordered Core-Shell Structure, and Hydrophilicity Change. <i>Nanomaterials</i> , 2022, 12, 1501.	1.9	2
911	Low-temperature atomic layer deposition of TiO <sub>2</sub> activated by laser annealing: Applications in photocatalysis. <i>Applied Surface Science</i> , 2022, 596, 153641.	3.1	4

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912	Raman, TEM, EELS, and Magnetic Studies of a Magnetically Reduced Graphene Oxide Nanohybrid Following Exposure to Daphnia magna Biomarkers. <i>Nanomaterials</i> , 2022, 12, 1805.	1.9	5
913	Synthesis and investigation of energy transfer mechanism in Sm <sup>3+</sup> and Eu <sup>3+</sup> doped Na <sub>6</sub> Mg(SO <sub>4</sub> ) <sub>4</sub> nanophosphors via solution combustion technique. <i>Inorganic and Nano-Metal Chemistry</i> , 0, , 1-12.	0.9	1
914	Laser Patterning of the Sb <sub>2</sub> O <sub>3</sub> Atomic Thin Layer Assisted by Near Field Heating. <i>ACS Applied Nano Materials</i> , 2022, 5, 7877-7884.	2.4	1
915	Analytical Techniques Applied to the Study of Industrial Archaeology Heritage: The Case of Plaiko Zubixe Footbridge. <i>Molecules</i> , 2022, 27, 3609.	1.7	2
916	Elucidating the mechanisms of titanium-induced morphological and structural changes in catalysts on mesoporous Al <sub>2</sub> O <sub>3</sub> -TiO <sub>x</sub> mixed oxides: Effect of non-stoichiometric TiO <sub>x</sub> phase. <i>Microporous and Mesoporous Materials</i> , 2022, 339, 111991.	2.2	4
917	Understanding the fundamentals of TiO <sub>2</sub> surfaces. Part I. The influence of defect states on the correlation between crystallographic structure, electronic structure and physical properties of single-crystal surfaces. <i>Surface Engineering</i> , 2022, 38, 91-149.	1.1	5
918	Photocatalytic activity of ZrO <sub>2</sub> /TiO <sub>2</sub> /Fe <sub>3</sub> O <sub>4</sub> ternary nanocomposite for the degradation of naproxen: characterization and optimization using response surface methodology. <i>Scientific Reports</i> , 2022, 12, .	1.6	18
919	Hybrid porous titania phosphonate networks with different bridging functionalities: Synthesis, characterization, and evaluation as efficient solvent separation materials. <i>Microporous and Mesoporous Materials</i> , 2022, , 112080.	2.2	0
920	Conversion Study on the Formation of Mechanochemically Synthesized BaTiO <sub>3</sub> . <i>Chemistry</i> , 2022, 4, 592-602.	0.9	1
921	Reprint of: Improving oxidation and wear resistance of TiB <sub>2</sub> films by nano-multilayering with Cr. <i>Surface and Coatings Technology</i> , 2022, 442, 128602.	2.2	2
922	Self-Assembled Growth of Surface-Fluorinated TiO <sub>2</sub> Nanocrystal Films with Superior Dual-Band Electrochromic and Energy Storage Performance. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
923	Photocatalytic Degradation of Phenol Red in Water on Nb(x)/TiO <sub>2</sub> Nanocomposites. <i>Crystals</i> , 2022, 12, 911.	1.0	8
924	Synthesis, characterization and study of the structural change of nanobelts of TiO <sub>2</sub> (H <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> ) to nanobelts with anatase, brookite and rutile phases. <i>Journal of Alloys and Compounds</i> , 2022, 923, 166236.	2.8	23
925	Nanocomposites Based on Cerium, Lanthanum, and Titanium Oxides Doped with Silver for Biomedical Application. <i>Condensed Matter</i> , 2022, 7, 45.	0.8	8
926	Production of hybrid TiO <sub>2</sub> /f <sup>2</sup> -CD photocatalysts by supercritical antisolvent micronization for UV light-driven degradation of azo dyes. <i>Journal of Supercritical Fluids</i> , 2022, 188, 105695.	1.6	11
927	Heterophase Interface and Surface Functionalization of TiO <sub>x</sub> /TiSi <sub>x</sub> Metastable Nanofilms. <i>Advanced Materials Interfaces</i> , 2022, 9, 2200799.	1.9	1
928	Síntesis y caracterización del compuesto TiO <sub>2</sub> /CZTS y su aplicación como fotocatalizador para la degradación de fenol bajo irradiación de luz visible. <i>Química Hoy Chemistry Sciences</i> , 2022, 11, 1-7.	0.1	0
929	Elevating Photooxidation of Methane to Formaldehyde via TiO <sub>2</sub> Crystal Phase Engineering. <i>Journal of the American Chemical Society</i> , 2022, 144, 15977-15987.	6.6	76

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930	Titanium(IV) oxide nanoparticles functionalized with various meso-porphyrins for efficient photocatalytic degradation of ibuprofen in UV and visible light. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108432.	3.3	13
931	Influence of ion implantation on depth dependent phase transition in TiO <sub>2</sub> films, anatase nanostructures and photo-absorption behavior. <i>Current Applied Physics</i> , 2022, 43, 1-8.	1.1	1
932	WO <sub>3</sub> -based materials for photoelectrocatalytic glycerol upgrading into glyceraldehyde: Unravelling the synergistic photo- and electro-catalytic effects. <i>Applied Catalysis B: Environmental</i> , 2022, 318, 121843.	10.8	25
933	Supported Nanostructured MoxC Materials for the Catalytic Reduction of CO <sub>2</sub> through the Reverse Water Gas Shift Reaction. <i>Nanomaterials</i> , 2022, 12, 3165.	1.9	7
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