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A review of one-dimensional TiO₂ nanostructured materials for environmental and energy applications

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731	TiO nanotube platforms for smart drug delivery: a review. 2016 , 11, 4819-4834		86
730	Enhanced intrinsic photocatalytic activity of TiO ₂ electrospun nanofibers based on temperature assisted manipulation of crystal phase ratios. 2016 , 31, 3036-3043		11
729	Fabrication of MnO ₂ /TiO ₂ nanotube arrays composite films through a one-step redox precipitation method. 2016 , 41, 22162-22170		12
728	Facile preparation of a novel SnO ₂ @UiO-66/rGO hybrid with enhanced photocatalytic activity under visible light irradiation. 2016 , 6, 92011-92019		28
727	Fe ₂ O ₃ -TiO ₂ nanocomposites on activated carbon fibers by a plasma-assisted approach. 2016 , 307, 352-358		9
726	MOF-Derived Flower-like MoS ₂ @TiO Nanohybrids with Enhanced Activity for Hydrogen Evolution. 2016 , 8, 26794-26800		126
725	Studies on structural defects in bare, PVP capped and TPPO capped copper oxide nanoparticles by positron annihilation lifetime spectroscopy and their impact on photocatalytic degradation of rhodamine B. 2016 , 6, 74812-74821		22
724	Graphene-Rich Wrapped Petal-Like Rutile TiO tuned by Carbon Dots for High-Performance Sodium Storage. 2016 , 28, 9391-9399		226
723	Titanium dioxide/zinc indium sulfide hetero-junction: An efficient photoanode for the dye-sensitized solar cell. 2016 , 328, 578-585		14
722	3D Bi ₂ S ₃ /TiO ₂ cross-linked heterostructure: An efficient strategy to improve charge transport and separation for high photoelectrochemical performance. 2016 , 329, 23-30		41
721	Micro-mesoporous anatase TiO ₂ nanorods with high specific surface area possessing enhanced adsorption ability and photocatalytic activity. 2016 , 235, 185-194		30
720	Highly Flexible and Porous Nanoparticle-Loaded Films for Dye Removal by Graphene Oxide-Fungus Interaction. 2016 , 8, 34638-34647		54
719	Far- and deep-ultraviolet spectroscopic investigations for titanium dioxide: electronic absorption, Rayleigh scattering, and Raman spectroscopy. 2016 , 4, 7706-7717		28
718	Preparation of TiO ₂ one-dimensional nanostructures: The effect of oxidizing solvent on structural properties and photocatalytic activity. 2016 , 131, 1		4

717	Solution-grown GeO ₂ nanoparticles with a nearly 100% yield as lithium-ion battery anodes. 2016 , 6, 98632-98638	
716	Electrospun TiO ₂ /GO Composite Nanofibers with Ordered Mesopores by Molecular Level Assembly: A High Performance Anode Material for Lithium-Ion Batteries. 2016 , 3, 1600761	32
715	Lithium insertion properties of mesoporous nanocrystalline TiO ₂ and TiO ₂ /ZnO microspheres prepared by non-hydrolytic sol-gel. 2016 , 79, 270-278	9
714	In situ plasmonic Ag nanoparticle anchored TiO ₂ nanotube arrays as visible-light-driven photocatalysts for enhanced water splitting. 2016 , 8, 5226-34	208
713	In situ Formed Fan-Shaped Nanowires in Biomimetic SiO ₂ : A Multidimensional Composite of Hierarchical Porous Material and Organic Pollutant Adsorption Behavior. 2017 , 30, 104-112	2
712	Morphologically tuned 3D/1D rutile TiO ₂ hierarchical hybrid microarchitectures engineered by one-step surfactant free hydrothermal method. 2017 , 405, 195-204	9
711	Bi ₂ O ₃ nanoparticles incorporated porous TiO ₂ films as an effective p-n junction with enhanced photocatalytic activity. 2017 , 100, 1339-1349	35
710	A review of TiO ₂ nanostructured catalysts for sustainable H ₂ generation. 2017 , 42, 8418-8449	260
709	3D urchin-like black TiO ₂ /carbon nanotube heterostructures as efficient visible-light-driven photocatalysts. 2017 , 7, 453-460	28
708	UV and visible light photocatalytic activity of Au/TiO ₂ nanoforests with Anatase/Rutile phase junctions and controlled Au locations. 2017 , 7, 41253	95
707	A new three-phase heterocrystal catalysts and their superior treatment efficiency for tetracycline. 2017 , 10, 1750015	
706	Electrochemical Doping as a Way to Enhance Water Photooxidation on Nanostructured Nickel Titanate and Anatase Electrodes. 2017 , 4, 1429-1435	3
705	Carbon nanodots/WO ₃ nanorods Z-scheme composites: Remarkably enhanced photocatalytic performance under broad spectrum. 2017 , 209, 253-264	144
704	The Effect of the Heating Rate on Anatase Crystal Orientation and Its Impact on the Photoelectrocatalytic Performance of TiO ₂ Nanotube Arrays. 2017 , 164, H279-H285	9
703	Photocatalytically Active TiO ₂ /Ag ₂ O Nanotube Arrays Interlaced with Silver Nanoparticles Obtained from the One-Step Anodic Oxidation of Ti/Ag Alloys. 2017 , 7, 2753-2764	60
702	Immobilization of Pt Nanoparticles via Rapid and Reusable Electropolymerization of Dopamine on TiO ₂ Nanotube Arrays for Reversible SERS Substrates and Nonenzymatic Glucose Sensors. 2017 , 13, 1604240	91
701	Broadband and omnidirectional light harvesting enhancement in photovoltaic devices with aperiodic TiO ₂ nanotube photonic crystal. 2017 , 345, 12-20	10
700	SILAR BiOI-Sensitized TiO ₂ Films for Visible-Light Photocatalytic Degradation of Rhodamine B and 4-Chlorophenol. 2017 , 18, 728-735	20

699	UV and visible light synergetic photodegradation using rutile TiO nanorod arrays based on a p-n Junction. 2017 , 46, 4296-4302		14
698	Photoanodes based on TiO and FeO for solar water splitting - superior role of 1D nanoarchitectures and of combined heterostructures. 2017 , 46, 3716-3769		385
697	Removal of bisphenol A over a separation free 3D Ag ₃ PO ₄ -graphene hydrogel via an adsorption-photocatalysis synergy. 2017 , 212, 41-49		149
696	A Review of Direct Z-Scheme Photocatalysts. 2017 , 1, 1700080		663
695	Facile synthesis of g-C ₃ N ₄ nanosheets loaded with WO ₃ nanoparticles with enhanced photocatalytic performance under visible light irradiation. 2017 , 7, 24097-24104		72
694	Recent advances in MoS ₂ nanostructured materials for energy and environmental applications [A review]. 2017 , 252, 43-71		171
693	Constructing multifunctional MOF@rGO hydro-/aerogels by the self-assembly process for customized water remediation. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 11873-11881	13	147
692	3D Au-decorated BiMoO ₆ nanosheet/TiO ₂ nanotube array heterostructure with enhanced UV and visible-light photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16412-16421	13	125
691	Iron oxide/porous carbon as a heterogeneous Fenton catalyst for fast decomposition of hydrogen peroxide and efficient removal of methylene blue. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 748-755	13	63
690	Recent progress and perspectives in the photocatalytic CO ₂ reduction of Ti-oxide-based nanomaterials. 2017 , 396, 1696-1711		122
689	A multifunctional noble-metal-free catalyst of CuO/TiO ₂ hybrid nanofibers. 2017 , 531, 1-12		81
688	Facile preparation of protonated hexaniobate nanosheets and its enhanced photocatalytic activity. 2017 , 28, 235702		2
687	Multifunctional ZnO nanorod-reduced graphene oxide hybrids nanocomposites for effective water remediation: Effective sunlight driven degradation of organic dyes and rapid heavy metal adsorption. 2017 , 325, 588-600		103
686	Synthesis, characterization and application of TiO ₂ /Ag recyclable SERS substrates. 2017 , 7, 26704-26709		15
685	Recent advances in hierarchical three-dimensional titanium dioxide nanotree arrays for high-performance solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12699-12717	13	40
684	Role of Vacancy Condensation in the Formation of Voids in Rutile TiO Nanowires. 2017 , 9, 13471-13479		27
683	Self-Assembly Approach for Synthesis of Nanotubular Molybdenum Trioxide/Titania Composite Anode for Lithium-Ion Batteries. 2017 , 5, 2015-2025		14
682	Kinetically Controlled Fabrication of Single-Crystalline TiO Nanobrush Architectures with High Energy {001} Facets. 2017 , 4, 1700045		5

681	Surface-enhanced palygorskite coated CdS: synthesis, characterization and highly improved photocatalytic degradation efficiency of organic dyes. 2017 , 28, 10464-10471	7
680	Photocatalysis with TiO ₂ Nanotubes: Colorful Reactivity and Designing Site-Specific Photocatalytic Centers into TiO ₂ Nanotubes. 2017 , 7, 3210-3235	180
679	Peculiar behavior of TiO ₂ tubular structure for water reduction in dark and under natural light exposure. 2017 , 198, 188-191	3
678	Efficient extraction and separation of palladium (Pd) and ruthenium (Ru) from simulated HLLW by photoreduction. 2017 , 182, 9-18	19
677	Photocatalytically active TiO ₂ microtubes assembled with radially aligned nanowires. 2017 , 1, 1453-1458	8
676	Tantalum- and Silver-Doped Titanium Dioxide Nanosheets Film: Influence on Interfacial Bonding Structure and Hardness of the Surface System. 2017 , 56, 434-439	10
675	Improvement of Na Ion Electrode Activity of Metal Oxide via Composite Formation with Metal Sulfide. 2017 , 9, 2249-2260	10
674	Bioinspired Special Wettability Surfaces: From Fundamental Research to Water Harvesting Applications. 2017 , 13, 1602992	187
673	AgInS ₂ nanoparticles modified TiO ₂ nanotube array electrodes: Ultrasonic-assisted SILAR preparation and mechanism of enhanced photoelectrocatalytic activity. 2017 , 442, 97-106	14
672	Uniform carbon dots@TiO ₂ nanotube arrays with full spectrum wavelength light activation for efficient dye degradation and overall water splitting. 2017 , 9, 16046-16058	77
671	Click polymerization and characterization of TiO ₂ nanoparticles to one-dimensional nanochains. 2017 , 687, 312-316	2
670	Interfacial characteristics and leakage current transfer mechanisms in organometal trihalide perovskite gate-controlled devices via doping of PCBM. 2017 , 50, 475101	4
669	Surface modification of TiO ₂ nanorod arrays by Ag nanoparticles and its enhanced room temperature ethanol sensing properties. 2017 , 4, 105037	13
668	Revealing the Synergy of Mono/Bimetallic PdPt/TiO ₂ Heterostructure for Enhanced Photoresponse Performance. 2017 , 121, 24861-24870	12
667	Two-dimensional nanomaterials for photocatalytic CO ₂ reduction to solar fuels. 2017 , 1, 1875-1898	115
666	Mutual-stabilization in chemically bonded graphene oxide/TiO ₂ heterostructures synthesized by a sol-gel approach. 2017 , 7, 41217-41227	21
665	Fabrication and catalytic properties of highly ordered single-walled carbon nanotube arrays coated with photoelectro-polymerized bisphenol A films for visible-light-enhanced ascorbate fuel cells. 2017 , 803, 117-124	7
664	Environmentally Friendly Engineering and Three-Dimensional Printing of TiO ₂ Hierarchical Mesoporous Cellular Architectures. 2017 , 5, 10421-10429	27

663	Recycling biowaste shells to produce 0D/2D MnO ₂ nanostructures for efficient trace-level metal extraction: confined growth of nanosheets and good dispersion of quantum dots. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20448-20457	13	7
662	Unraveling the Intrinsic Structures that Influence the Transport of Charges in TiO ₂ Electrodes. 2017 , 7, 1700886		19
661	Steering Photoelectrons Excited in Carbon Dots into Platinum Cluster Catalyst for Solar-Driven Hydrogen Production. 2017 , 4, 1700273		30
660	Gd, I-doped TiO ₂ thin films coated on solid waste material: synthesis, characterization, and photocatalytic activity under UV or visible light irradiation. 2017 , 123, 1		4
659	Fabrication and characterization of abrupt TiO ₂ /BiOx core-shell nanowires by a simple heat treatment. 2017 , 5, 086101		1
658	Structural, morphological, and wettability study of electrochemically anodized 1D TiO ₂ nanotube arrays. 2017 , 123, 1		6
657	Enhanced photocatalytic performance of Au/TiO ₂ nanofibers by precisely manipulating the dosage of uniform-sized Au nanoparticles. 2017 , 123, 1		7
656	Hydrothermal fabrication of few-layer MoS ₂ nanosheets within nanopores on TiO ₂ derived from MIL-125(Ti) for efficient photocatalytic H ₂ evolution. 2017 , 426, 177-184		39
655	Ag ₃ PO ₄ @holmium phosphate core@shell composites with enhanced photocatalytic activity. 2017 , 7, 34705-34713		9
654	Electrospinning preparation of oxygen-deficient nano TiO/carbon fibre membrane as a self-standing high performance anode for Li-ion batteries. 2017 , 4, 170323		13
653	Bio-inspired interlocking random 3-D structures for tactile and thermal sensing. 2017 , 7, 5834		11
652	TiO ₂ Microflowers Assembled by 6-nm Single-Crystal Stranded Wires with Improved Photoelectrochemical Performances. 2017 , 250, 117-123		2
651	Synthesis of BiMoO/TiO Nanotube Arrays for Photoelectrochemical COD Detection Application. 2017 , 33, 8933-8942		22
650	3D walnut-shaped TiO ₂ /RGO/MoO ₂ @Mo electrode exhibiting extraordinary supercapacitor performance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18777-18785	13	28
649	A new visible-light-induced Z-scheme photocatalytic system: Er ³⁺ :Y ₃ Al ₅ O ₁₂ /(MoS ₂ /NiGa ₂ O ₄)-(BiVO ₄ /PdS) for refractory pollutant degradation with simultaneous hydrogen evolution. 2017 , 441, 10-20		11
648	Synthesis of Single Crystalline Titanium Oxide and Sodium Titanate Nanorods Via Salt-Assisted Ultrasonic Spray Pyrolysis. 2017 , 62, 1411-1414		1
647	Pervasive infiltration and multi-branch chemisorption of N-719 molecules into newly designed spongy TiO ₂ layers deposited by gig-lox sputtering processes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 25529-25538	13	10
646	Sn:In ₂ O ₃ and Sn:In ₂ O ₃ /NiS ₂ Core/Shell Nanowires on Ni, Mo Foils and C Fibers for H ₂ and O ₂ Generation. 2017 , 121, 27839-27848		5

645	Enhanced UV-visible light photodetectors with a TiO ₂ /Si heterojunction using band engineering. 2017 , 5, 12848-12856	44
644	Synergy effect of specific electrons and surface plasmonic resonance enhanced visible-light photoelectrochemical sensing for sensitive analysis of the CaMV 35S promoter. 2017 , 5, 8999-9005	12
643	Template-free synthesis of two-dimensional titania/titanate nanosheets as electrodes for high-performance supercapacitor applications. 2017 , 372, 227-234	25
642	Unconventional Strategy to Anatase TiO ₂ Nanocrystals with Tunable Surface Chemistry via Liquid Crystalline Polyamides as a Functional Matrix. 2017 , 121, 27111-27117	1
641	Colloidal zinc oxide-copper(I) oxide nanocatalysts for selective aqueous photocatalytic carbon dioxide conversion into methane. 2017 , 8, 1156	97
640	Ti self-doped mesoporous black TiO ₂ /graphene assemblies for unpredicted-high solar-driven photocatalytic hydrogen evolution. 2017 , 505, 1031-1038	29
639	Green sol-gel route for selective growth of 1D rutile TiO ₂ : a highly active photocatalyst for H ₂ generation and environmental remediation under natural sunlight. 2017 , 7, 33029-33042	22
638	One-step synthesis of ultrathin nanobelts-assembled urchin-like anatase TiO ₂ nanostructures for highly efficient photocatalysis. 2017 , 19, 129-136	49
637	Photocatalytic Properties of 1D TiO ₂ Nanostructures Prepared from Polyacrylamide Gel/TiO ₂ Nanopowders by Hydrothermal Synthesis. 2017 , 2017, 694-703	10
636	Fundamentals and some applications of photoelectrocatalysis and effective factors on its efficiency: a review. 2017 , 21, 305-336	46
635	Degradation of emerging pollutants in water under solar irradiation using novel TiO ₂ -ZnO/clay nanoarchitectures. 2017 , 309, 596-606	107
634	Supercapacitive performance of homogeneous Co ₃ O ₄ /TiO ₂ nanotube arrays enhanced by carbon layer and oxygen vacancies. 2017 , 21, 1069-1078	14
633	One-dimensional TiO Nanotube Photocatalysts for Solar Water Splitting. 2017 , 4, 1600152	295
632	Improving Visible Light-Absorptivity and Photoelectric Conversion Efficiency of a TiO ₂ Nanotube Anode Film by Sensitization with Bi ₂ O ₃ Nanoparticles. 2017 , 7,	21
631	Pure and Fe-Doped Mesoporous Titania Catalyse the Oxidation of Acid Orange 7 by H ₂ O ₂ under Different Illumination Conditions: Fe Doping Improves Photocatalytic Activity under Simulated Solar Light. 2017 , 7, 213	21
630	Self-assembled MoS ₂ -GO Framework as an Efficient Cocatalyst of CuInZnS for Visible-Light Driven Hydrogen Evolution. 2018 , 6, 4671-4679	31
629	Designed synthesis of anatase-TiO ₂ (B) biphasic nanowire/ZnO nanoparticle heterojunction for enhanced photocatalysis. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8289-8298	13 82
628	Efficient and Robust Cu/TiO ₂ Nanorod Photocatalysts for Simultaneous Removal of Cr(VI) and Methylene Blue under Solar Light. 2018 , 65, 706-713	10

627	TiO ₂ -Bi ₂ O ₃ /(BiO) ₂ CO ₃ -reduced graphene oxide composite as an effective visible light photocatalyst for degradation of aqueous bisphenol A solutions. 2018 , 315, 237-246	22
626	Crystal facet-dependent p-type and n-type sensing responses of TiO ₂ nanocrystals. 2018 , 263, 557-567	42
625	Recent development on carbon based heterostructures for their applications in energy and environment: A review. 2018 , 64, 16-59	109
624	Multifunctional cellulose-paper for light harvesting and smart sensing applications. 2018 , 6, 3143-3181	107
623	Functionalization of cotton fabrics with highly durable polysiloxane/TiO ₂ hybrid layers: potential applications for photo-induced water-oil separation, UV shielding, and self-cleaning. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6085-6095	13 52
622	Graphene/Semiconductor Hybrid Heterostructures for Optoelectronic Device Applications. 2018 , 19, 41-83	124
621	Nanofibers as Promising Materials for New Generations of Solar Cells. 2018 , 1-33	5
620	Synthesis of Mo-doped TiO ₂ /reduced graphene oxide nanocomposite for photoelectrocatalytic applications. 2018 , 44, 13015-13023	31
619	Bi plasmon-enhanced mesoporous Bi ₂ MoO ₆ /Ti ³⁺ self-doped TiO ₂ microsphere heterojunctions as efficient visible-light-driven photocatalysts. 2018 , 750, 659-668	28
618	MoS Quantum Dots@TiO Nanotube Arrays: An Extended-Spectrum-Driven Photocatalyst for Solar Hydrogen Evolution. 2018 , 11, 1708-1721	65
617	Fe ₂ O ₃ /TiO ₂ Hybrids with Tunable Morphologies as Efficient Photocatalysts and Positive Electrodes for Supercapacitors. 2018 , 3, 3284-3294	4
616	TiO ₂ nanorod arrays/ZnO nanosheets heterostructured photoanode for quantum-dot-sensitized solar cells. 2018 , 166, 371-378	17
615	Synthesis of metal-phase-assisted 1T@2H-MoS ₂ nanosheet-coated black TiO ₂ spheres with visible light photocatalytic activities. 2018 , 53, 10302-10312	26
614	Plasmon TiO ₂ nanotube arrays doped with silver nanoparticles act as photo-anode film in solar cells. 2018 , 124, 1	1
613	Hydrothermal synthesis of series Cu-doped Bi ₂ WO ₆ and its application in photo-degradative removal of phenol in wastewater with enhanced efficiency. 2018 , 256, 267-276	14
612	Black TiO ₂ Nanomaterials: A Review of Recent Advances. 2018 , 343, 708-736	208
611	Photocatalytic Reforming of Biomass Derived Crude Glycerol in Water: A Sustainable Approach for Improved Hydrogen Generation Using Ni(OH) ₂ Decorated TiO ₂ Nanotubes under Solar Light Irradiation. 2018 , 6, 3754-3764	48
610	TiO ₂ (B) and Anatase Angstrom-Scale Wires: A Theoretical Study. 2018 , 122, 3363-3370	4

609	Photocatalytic activity of TiO ₂ nanorods, nanowires and nanoflowers filled with TiO ₂ nanoparticles. 2018 , 648, 103-107	28
608	Hollow TiO spheres with improved visible light photocatalytic activity synergistically enhanced by multi-stimulative: Morphology advantage, carbonate-doping and the induced Ti. 2018 , 72, 153-165	11
607	TiO and its composites as promising biomaterials: a review. 2018 , 31, 147-159	29
606	Hierarchical rutile TiO ₂ microspheres assembled by nanorods with nanocavities and their lithium-ion storage properties. 2018 , 20, 1	3
605	Functional Materials and Systems for Rewritable Paper. 2018 , 30, e1705310	109
604	Sensitive Photodetection with Photomultiplication Effect in an Interfacial Eu Complex on a Mesoporous TiO Film. 2018 , 10, 5706-5713	9
603	Tubular structure TiO ₂ /C/TiO ₂ hybrid derived from the waste of the fluff of chinar tree. 2018 , 737, 774-789	6
602	LaFeO ₃ nanoparticle-coupled TiO ₂ nanotube array composite with enhanced visible light photocatalytic activity. 2018 , 216, 1-4	16
601	Template-free Fabrication of ZnS/TiO ₂ Photocatalyst with Macrochannels. 2018 , 65, 252-258	5
600	TiO ₂ /Carbon Materials Derived from Hydrothermal Carbonization of Waste Biomass: A Highly Efficient, Low-Cost Visible-Light-Driven Photocatalyst. 2018 , 10, 1134-1139	32
599	CuO Quantum Dots Decorated TiO ₂ Nanocomposite Photocatalyst for Stable Hydrogen Generation. 2018 , 57, 568-577	51
598	Electrospun ZnFe ₂ O ₄ nanotubes and nanobelts: Morphology evolution, formation mechanism and Fenton-like photocatalytic activities. 2018 , 207, 114-122	13
597	Innovative spongy TiO ₂ layers for gas detection at low working temperature. 2018 , 259, 658-667	20
596	Tunable photovoltaic performance of preferentially oriented rutile TiO nanorod photoanode based dye sensitized solar cells with quasi-state electrolyte. 2018 , 29, 085605	3
595	Efficient photocatalytic hydrogen production over Rh and Nb codoped TiO ₂ nanorods. 2018 , 337, 282-289	48
594	Self-assembled Fe ₃ O ₄ nanoparticle-doped TiO ₂ nanorod superparticles with highly enhanced lithium storage properties. 2018 , 2, 616-625	8
593	Sequential ionic layer adsorption and reaction (SILAR) deposition of Bi ₄ Ti ₃ O ₁₂ on TiO ₂ : an enhanced and stable photocatalytic system for water purification. 2018 , 8, 829-839	16
592	Rational design of materials interface at nanoscale towards intelligent oil-water separation. 2018 , 3, 235-260	192

591	Hydrogen adsorption properties of Ag decorated TiO ₂ nanomaterials. 2018 , 43, 2861-2868	23
590	Silver decorated PEDOT:PSS wrapped MnO ₂ nanowires for electrochemical supercapacitor applications. 2018 , 62, 166-175	22
589	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
588	Simultaneous reactive dyeing and surface modification of polyamide fabric with TiO ₂ precursor finish using a one-step hydrothermal process. 2018 , 88, 2611-2623	6
587	Novel mesoporous TiO@g-CN hollow core@shell heterojunction with enhanced photocatalytic activity for water treatment and H ₂ production under simulated sunlight. 2018 , 353, 80-88	79
586	C,N co-doped porous TiO hollow sphere visible light photocatalysts for efficient removal of highly toxic phenolic pollutants. 2018 , 47, 4877-4884	21
585	A 3D heterogeneous FeTiO ₃ /TiO ₂ @C fiber membrane as a self-standing anode for power Li-ion battery. 2018 , 124, 1	9
584	Decoration of vertically aligned TiO ₂ nanotube arrays with WO ₃ particles for hydrogen fuel production. 2018 , 12, 249-258	9
583	Core-Satellite Supraparticles To Ballistically Stamp Nanostructures on Surfaces. 2018 , 10, 14183-14192	6
582	One-step growth of Na ₂ Ti ₃ O ₇ nanorods for enhanced photocatalytic activities and recyclability. 2018 , 749, 955-960	24
581	Novel Pd/GdCrO ₃ composite for photo-catalytic reduction of nitrate to N ₂ with high selectivity and activity. 2018 , 232, 124-134	54
580	Mitigation of harmful indoor organic vapors using plug-flow unit coated with 2D g-CN and metallic Cu dual-incorporated 1D titania heterostructure. 2018 , 202, 184-190	7
579	Effect of Ti Substrate Ion Implantation on the Physical Properties of Anodic TiO ₂ Nanotubes. 2018 , 72, 604-609	5
578	Surface plasmon resonance-enhanced solar-driven photocatalytic performance from Ag nanoparticles-decorated Ti ³⁺ self-doped porous black TiO ₂ pillars. 2018 , 64, 188-193	20
577	Improving Carbon-Coated TiO ₂ Films with a TiCl ₄ Treatment for Photocatalytic Water Purification. 2018 , 10, 234-243	19
576	Harvesting light with semiconductor: Role of interface in the processes of charge transfer. 2018 , 73, 2-12	4
575	Hole-conductor-free perovskite solar cells prepared with carbon counter electrode. 2018 , 430, 531-538	32
574	Fabrication of ternary polyaniline-graphene oxide-TiO ₂ hybrid films with enhanced activity for photoelectrocatalytic hydrogen production. 2018 , 193, 358-367	12

573	Solar-to-Hydrogen Energy Conversion Based on Water Splitting. 2018 , 8, 1701620	285
572	TiO-Based Nanomaterials for the Production of Hydrogen and the Development of Lithium-Ion Batteries. 2018 , 122, 972-983	14
571	Direct evidence and enhancement of surface plasmon resonance effect on Ag-loaded TiO ₂ nanotube arrays for photocatalytic CO ₂ reduction. 2018 , 434, 423-432	145
570	Designing CdS Mesoporous Networks on Co-C@Co S Double-Shelled Nanocages as Redox-Mediator-Free Z-Scheme Photocatalyst. 2018 , 11, 245-253	58
569	Two-dimensional optical fiber-based dye-sensitized solar cell simulation: the effect of different electrodes and dyes. 2018 , 17, 329-336	2
568	Enhanced usage of visible light by BiSex for photocatalytic degradation of methylene blue in water via the tunable band gap and energy band position. 2018 , 171, 538-547	17
567	Size controlled synthesis of TiO ₂ nanoparticles by modified solvothermal method towards effective photo catalytic and photovoltaic applications. 2018 , 97, 351-360	76
566	Tubular TiO ₂ Nanostructures: Toward Safer Microsupercapacitors. 2018 , 3, 1700194	8
565	A facile method to fabricated UVVis photodetectors based on TiO ₂ /Si heterojunction. 2018 , 449, 358-362	11
564	Theoretical design of high-performance polymer-based magnetoelectric of fibrillar structures. 2018 , 155, 126-136	7
563	Heterostructured ZnFeO/FeTiO ₃ /TiO ₂ Composite Nanotube Arrays with an Improved Photocatalysis Degradation Efficiency Under Simulated Sunlight Irradiation. 2018 , 10, 17	33
562	Synergistic effects of CdS in sodium titanate based nanostructures for hydrogen evolution. 2018 , 29, 1417-1420	10
561	Ti ³⁺ -TiO ₂ /Ce ³⁺ -CeO ₂ Nanosheet heterojunctions as efficient visible-light-driven photocatalysts. 2018 , 100, 191-197	28
560	Construction of the Bi ₂ WO ₆ /Bi ₄ V ₂ O ₁₁ heterojunction for highly efficient visible-light-driven photocatalytic reduction of Cr(VI). 2018 , 42, 647-653	19
559	Recent advances in floating TiO ₂ -based photocatalysts for environmental application. 2018 , 225, 452-467	303
558	One-pot, self-assembled hydrothermal synthesis of 3D flower-like CuS/g-C ₃ N ₄ composite with enhanced photocatalytic activity under visible-light irradiation. 2018 , 115, 59-68	70
557	Preparation of MoS ₂ /TiO ₂ based nanocomposites for photocatalysis and rechargeable batteries: progress, challenges, and perspective. 2017 , 10, 34-68	184
556	Effect of nanographene platelets on adsorption and sonophotocatalytic performances of TiO ₂ /CuO composite for removal of organic pollutants. 2018 , 99, 109-123	17

555	Titanium Dioxide Photocatalysis. 2018 , 8, 591		10
554	One-Dimensional Titanium Dioxide and Its Application for Photovoltaic Devices. 2018 ,		2
553	TiO ₂ -based heterojunction photocatalysts for photocatalytic reduction of CO ₂ into solar fuels. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 22411-22436	13	129
552	In situ topotactic synthesis of a porous network Zn ₂ Ti ₃ O ₈ platelike nanoarchitecture and its long-term cycle performance for a LIB anode. 2018 , 20, 7329-7336		9
551	TiO ₂ nanocrystals embedded in sulfur-doped porous carbon as high-performance and long-lasting anode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24224-24231	13	17
550	Rotation-Assisted Hydrothermal Synthesis of Thermally Stable Multiwalled Titanate Nanotubes and Their Application to Selective Catalytic Reduction of NO with NH ₃ . 2018 , 10, 42249-42257		11
549	Highly Efficient Red Cabbage Anthocyanin Inserted TiO ₂ /Aerogel Nanocomposites for Photocatalytic Reduction of Cr(VI) under Visible Light. 2018 , 8,		6
548	Unveiling the Role of Defects on Oxygen Activation and Photodegradation of Organic Pollutants. 2018 , 52, 13879-13886		110
547	All-in-one photosynthetic assemblies for solar fuels. 2018 , 10, 368-379		1
546	A Study of Controllable Synthesis and Formation Mechanism on Flower-Like TiO ₂ with Spherical Structure. 2018 , 8, 466		6
545	Amperometric sensing of ascorbic acid by using a glassy carbon electrode modified with mesoporous carbon nanorods. 2018 , 185, 474		8
544	Optical Properties and UV Sensing Response of Nitrogen-doped TiO ₂ Thin Film by CVD. 2018 , 1083, 012025		
543	Polymer-Promoted Synthesis of Porous TiO Nanofibers Decorated with N-Doped Carbon by Mechanical Stirring for High-Performance Li-Ion Storage. 2018 , 10, 35060-35068		14
542	Rational Construction of LaFeO ₃ Perovskite Nanoparticle-Modified TiO ₂ Nanotube Arrays for Visible-Light Driven Photocatalytic Activity. 2018 , 8, 374		11
541	From Rusting to Solar Power Plants: A Successful Nano-Patterning of Stainless Steel 316L for Visible Light-Induced Photoelectrocatalytic Water Splitting. 2018 , 6, 17352-17358		16
540	Facile synthesis of MnO ₂ /TiO ₂ core-shell nanorods from aqueous solution and their photoelectrochemical behaviors. 2018 , 220, 383-394		2
539	Mechanochemical synthesis of Ag/TiO ₂ for photocatalytic methyl orange degradation and hydrogen production. 2018 , 120, 339-347		74
538	Formation of TiO ₂ nano-rods by hydrothermal synthesis method. 2018 ,		0

537	Porous Anatase-TiO(B) Dual-Phase Nanorods Prepared from in Situ Pyrolysis of a Single Molecule Precursor Offer High Performance Lithium-Ion Storage. 2018 , 57, 12245-12254		15
536	Electrochemical Synthesis of Nanostructured Metal-Doped Titanates and Investigation of Their Activity as Oxygen Evolution Photoanodes. 2018 ,		3
535	One-Dimensional-Like Titania/4'-Pentyl-4-Biphenylcarbonitrile Composite Synthesized Under Magnetic Field and its Structure-Photocatalytic Activity Relationship. 2018 , 6, 370		3
534	TiO ₂ nano-flakes with high activity obtained from phosphorus doped TiO ₂ nanoparticles by hydrothermal method. 2018 , 44, 22129-22134		15
533	Effects of NHF and distilled water on structure of pores in TiO nanotube arrays. 2018 , 8, 12487		8
532	Insights into the Li ⁺ storage mechanism of TiC@C-TiO ₂ core-shell nanostructures as high performance anodes. 2018 , 50, 25-34		35
531	Site-selective Pt dewetting on WO ₃ -coated TiO ₂ nanotube arrays: An electron transfer cascade-based H ₂ evolution photocatalyst. 2018 , 237, 198-205		65
530	Synthesis of 2D boron nitride doped polyaniline hybrid nanocomposites for photocatalytic degradation of carcinogenic dyes from aqueous solution. 2018 , 11, 1000-1016		45
529	Spinel photocatalysts for environmental remediation, hydrogen generation, CO ₂ reduction and photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11078-11104	13	105
528	A novel ternary TiO ₂ /CQDs/BiOX (X = Cl, Br, I) heterostructure as photocatalyst for water purification under solar irradiation. 2018 , 264, 77-85		17
527	Controlling the size of connecting windows in three-dimensionally ordered macroporous TiO ₂ for enhanced photocatalytic activity. 2018 , 29, 11972-11981		6
526	2D graphene-assisted low-cost metal (Ag, Cu, Fe, or Ni)-doped TiO ₂ nanowire architectures for enhanced hydrogen generation. 2018 , 765, 106-112		13
525	Synthesis of Fe/Co-doped titanate nanotube as redox catalyst for photon-induced water splitting. 2018 , 217, 125-132		17
524	Solid State Tuning of TiO ₂ Morphology, Crystal Phase, and Size through Metal Macromolecular Complexes and Its Significance in the Photocatalytic Response. 2018 , 1, 3159-3170		12
523	Controlled charge-dynamics in cobalt-doped TiO nanowire photoanodes for enhanced photoelectrochemical water splitting. 2018 , 530, 403-411		42
522	Tannic acid encountering ovalbumin: a green and mild strategy for superhydrophilic and underwater superoleophobic modification of various hydrophobic membranes for oil/water separation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13959-13967	13	72
521	A Large Titanium Oxo Cluster Featuring a Well-Defined Structural Unit of Rutile. 2018 , 18, 4864-4868		15
520	Construction of hierarchical TiO ₂ nanorod array/graphene/ZnO nanocomposites for high-performance photocatalysis. 2018 , 53, 15376-15389		17

519	Sonochemical-Assisted In Situ Electrochemical Synthesis of Ag/Fe ₂ O ₃ /TiO ₂ Nanoarrays to Harness Energy from Photoelectrochemical Water Splitting. 2018 , 6, 11235-11245	38
518	Current Advances in TiO ₂ -Based Nanostructure Electrodes for High Performance Lithium Ion Batteries. 2018 , 4, 7	82
517	Influence of Surfactant on the Morphology and Photocatalytic Activity of Anatase TiO ₂ by Solvothermal Synthesis. 2018 , 2018, 1-7	9
516	Theoretical Modeling of Electronic Excitations of Gas-Phase and Solvated TiO Nanoclusters and Nanoparticles of Interest in Photocatalysis. 2018 , 14, 4391-4404	16
515	Multidimensional TiO ₂ nanostructured catalysts for sustainable H ₂ generation. 2018 , 237-288	
514	TiO ₂ nanosheets anchoring on carbon nanotubes for fast sodium storage. 2018 , 283, 1514-1524	15
513	A critical review on TiO ₂ based photocatalytic CO ₂ reduction system: Strategies to improve efficiency. 2018 , 26, 98-122	179
512	Controlled fabrication of TiO ₂ /C ₃ N ₄ core-shell nanowire arrays: a visible-light-responsive and environmental-friendly electrode for photoelectrocatalytic degradation of bisphenol A. 2018 , 53, 11015-11026 ¹⁴	
511	Fabrication of TiO ₂ mesoporous microspheres sensitized with CdS nanoparticles and application in photodegradation of organic dye. 2018 , 47, 3453	3
510	Controllable green synthesis of crassula peforata-like TiO ₂ with high photocatalytic activity based on deep eutectic solvent (DES). 2018 , 348, 811-819	24
509	Improvement the wastewater purification by TiO ₂ nanotube arrays: The effect of etching-step on the photo-generated charge carriers and photocatalytic activity of anodic TiO ₂ nanotubes. 2018 , 84, 57-74	20
508	Achieving photocatalytic hydrogen production from alkaline solution upon a designed mesoporous TiO ₂ /Ni hybrid employing commonly used paper as a sacrificial electron donor. 2018 , 5, 2709-2717	16
507	Solvothermal Synthesis of Novel 3D Peony-Like TiO ₂ Microstructures and its Enhanced Photocatalytic Activity. 2018 , 13, 1850056	1
506	Titania nanotubes prepared by rapid breakdown anodization for photocatalytic decolorization of organic dyes under UV and natural solar light. 2018 , 13, 179	8
505	Electrochemically Faceted Bamboo-type TiO ₂ Nanotubes Provide Enhanced Open-Circuit Hydrogen Evolution. 2019 , 6, 114-120	5
504	Defects-engineering of magnetic Fe ₂ O ₃ ultrathin nanosheets/mesoporous black TiO ₂ hollow sphere heterojunctions for efficient charge separation and the solar-driven photocatalytic mechanism of tetracycline degradation. 2019 , 240, 319-328	115
503	TiO ₂ photoanodes with exposed {0 1 0} facets grown by aerosol-assisted chemical vapor deposition of a titanium oxo/alkoxy cluster. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19161-19172	13 7
502	Fabrication of black TiO ₂ /TiO ₂ homojunction for enhanced photocatalytic degradation. 2019 , 54, 14320-14329 ¹²	

501	Controllable synthesis of cerium zirconium oxide nanocomposites and their application for photocatalytic degradation of sulfonamides. 2019 , 259, 118107		37
500	Nanostructured TiO ₂ Grown by Low-Temperature Reactive Sputtering for Planar Perovskite Solar Cells. 2019 , 2, 6218-6229		18
499	Application of waste water treatment technology from exhaust electroplating and anodizing process using electro-coagulation method. 2019 , 1217, 012002		1
498	Active Materials for Photocatalytic Reduction of Carbon Dioxide. 2019 , 343-372		1
497	Synthesis of anatase TiO ₂ mesocrystals with highly exposed low-index facets for enhanced electrochemical performance. 2019 , 319, 101-109		8
496	Amorphous TiO ₂ nanostructures: synthesis, fundamental properties and photocatalytic applications. 2019 , 9, 4198-4215		54
495	ZrS ₃ : From crystalline samples to colloid dispersions. 2019 , 579, 123667		3
494	Enhancement in photocatalytic activity of CO ₂ reduction to CH ₄ by 0D/2D Au/TiO ₂ plasmon heterojunction. 2019 , 493, 1142-1149		47
493	A porous hybrid material based on calixarene dye and TiO ₂ demonstrating high and stable photocatalytic performance. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19852-19861	13	20
492	KSCN-induced Interfacial Dipole in Black TiO for Enhanced Photocatalytic CO Reduction. 2019 , 11, 25186-25194		47
491	pH-dependent adsorption of amino acids, lysine, glutamic acid, serine and glycine, on TiO nanoparticle surfaces. 2019 , 554, 362-375		24
490	Nanofibers as Promising Materials for New Generations of Solar Cells. 2019 , 1017-1048		1
489	Facile synthesis of mesoporous TiO ₂ -CdS-polyaniline ternary system with improved optical properties. 2019 , 6, 115529		4
488	Atomic-Scale Study on the Ultralarge Bending Behaviors of TiO-B/Anatase Dual-Phase Nanowires. 2019 , 19, 7742-7749		9
487	Recent efforts in design of TiO ₂ (B) anodes for high-rate lithium-ion batteries: A review. 2019 , 442, 227225		53
486	Evidence of oxygen defects mediated enhanced photocatalytic and antibacterial performance of ZnO nanorods. 2019 , 184, 110541		45
485	An Important Factor Affecting the Supercapacitive Properties of Hydrogenated TiO Nanotube Arrays: Crystal Structure. 2019 , 14, 229		11
484	Synthesis of Nanoporous TiO ₂ with the Use of Diluted Hydrogen Peroxide Solution and Its Application in Gas Sensing. 2019 , 9, 681		12

483	Sulfur-Doped TiO Anchored on a Large-Area Carbon Sheet as a High-Performance Anode for Sodium-Ion Battery. 2019 , 11, 44170-44178	22
482	. 2019 ,	2
481	The Effect of Temperature to CTAB-assisted Solvothermal Synthesis of TiO ₂ . 2019 , 546, 042003	1
480	Synthesis of One-Dimensional Mesoporous Ag Nanoparticles-Modified TiO Nanofibers by Electrospinning for Lithium Ion Batteries. 2019 , 12,	9
479	Surface Defect-Controlled Growth and High Photocatalytic H ₂ Production Efficiency of Anatase TiO ₂ Nanosheets. 2019 , 11, 37256-37262	21
478	One-dimensional nitrogen-doped carbon nanotube arrays fabricated by template carbonization over anodized TiO ₂ nanotube arrays. 2019 , 256, 126602	3
477	Recent trends in photocatalytic materials for reduction of carbon dioxide to methanol. 2019 , 116, 109389	37
476	Bimodal Porosity and Stability of a TiO ₂ Gig-Lox Sponge Infiltrated with Methyl-Ammonium Lead Iodide Perovskite. 2019 , 9,	3
475	Atomic Pt Promoted N-Doped Carbon as Novel Negative Electrode for Li-Ion Batteries. 2019 , 11, 37559-37566	11
474	Plexcitonics [Fundamental principles and optoelectronic applications. 2019 , 7, 1821-1853	51
473	In vivo and in vitro efficient textile wastewater remediation by Aspergillus niger biosorbent. 2019 , 1, 168-176	18
472	A colloidal heterostructured quantum dot sensitized carbon nanotube-TiO ₂ hybrid photoanode for high efficiency hydrogen generation. 2019 , 4, 404-414	24
471	Photocatalytic reduction and scavenging of Hg(II) over templated-dewetted Au on TiO ₂ nanotubes. 2019 , 18, 1046-1055	12
470	An Efficient Room Temperature Ethanol Sensor Device Based on p-n Homojunction of TiO ₂ Nanostructures. 2019 , 66, 1063-1068	12
469	High-Performance Asymmetric Electrochromic-Supercapacitor Device Based on Poly(indole-6-carboxylic acid)/TiO ₂ Nanocomposites. 2019 , 11, 6491-6501	67
468	Hierarchically porous core-shell microspheres assembled from Mn ₂ O ₃ /TiO ₂ nanoparticles for enhanced lithium storage. 2019 , 786, 368-376	5
467	Recent Progress in Understanding Ion Storage in Self-Organized Anodic TiO ₂ Nanotubes. 2019 , 3, 1800385	21
466	Thermal annealing induced evolution of morphological, structural, optical and photocatalytic properties of Ag-TiO ₂ nanocomposite thin films. 2019 , 129, 317-323	14

465	Hydrothermal Transformation of Titanate Scrolled Nanosheets to Anatase over a Wide pH Range and Contribution of Triethanolamine and Oleic Acid to Control the Morphology. 2019 , 58, 2588-2598	9
464	Bridging the gap between laboratory and application in photocatalytic water purification. 2019 , 9, 533-545	29
463	Facile synthesis of porous hybrid materials based on Calix-3 dye and TiO ₂ for high photocatalytic water splitting performance with excellent stability. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 2993-2999 ¹³	21
462	TiO Based Nanostructures for Photocatalytic CO Conversion to Valuable Chemicals. 2019 , 10,	24
461	Chemically Synthesized Electromagnetic Metal Oxide Nanoresonators. 2019 , 7, 1900396	8
460	Applications of photocatalytic titanium dioxide-based nanomaterials in sustainable agriculture. 2019 , 40, 49-67	45
459	Engineering of highly active Au/Pd supported on hydrogenated urchin-like yolk@shell TiO ₂ for visible light photocatalytic Suzuki coupling. 2019 , 9, 3820-3827	34
458	Cu supported on polymeric carbon nitride for selective CO ₂ reduction into CH ₄ : a combined kinetics and thermodynamics investigation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17014-17021	13 63
457	Comparative Study of Four TiO ₂ -Based Photocatalysts to Degrade 2,4-D in a Semi-Passive System. 2019 , 11, 621	4
456	Synthesis and characterization of uniform hollow TiO ₂ nanofibers using electrospun fibrous cellulosic templates for lithium-ion battery electrodes. 2019 , 800, 483-489	18
455	Bi-functional Al-doped ZnO@SnO ₂ heteronanowires as efficient substrates for improving photocatalytic and SERS performance. 2019 , 76, 333-343	19
454	TiO ₂ -based nanostructured materials with germicidal properties and other applications in biomedical fields. 2019 , 323-339	1
453	Electrodeposition of 1-D tellurium nanostructure on gold surface from choline chloride-urea and choline chloride-ethylene glycol mixtures. 2019 , 288, 111038	9
452	Electrospinning Fabricating Au/TiO Network-like Nanofibers as Visible Light Activated Photocatalyst. 2019 , 9, 8008	19
451	Effect of Isovalent Doping by Zr ⁴⁺ Ions on the Electrochemical Behavior of TiO ₂ (B). 2019 , 64, 680-687	9
450	Simultaneous oxidation and sorption of highly toxic Sb(III) using a dual-functional electroactive filter. 2019 , 251, 72-80	28
449	Tailoring the stability/aggregation of one-dimensional TiO(B)/titanate nanowires using surfactants. 2019 , 10, 1024-1037	1
448	One-Dimensional Nanostructured Pseudocapacitive Materials: Design, Synthesis and Applications in Supercapacitors. 2019 , 2, 820-841	63

447	Effect of Surface Chemistry and Crystallographic Parameters of TiO ₂ Anatase Nanocrystals on Photocatalytic Degradation of Bisphenol A. 2019 , 9, 447	4
446	Ag-SrTiO ₃ /TiO ₂ composite nanostructures with enhanced photocatalytic activity. 2019 , 118, 110492	16
445	Construction of Ni-doped belt-on-belt TiO ₂ thin film to assist photodegradation of rhodamine B in water. 2019 , 683, 111-117	9
444	Nitrogen-doped black TiO ₂ spheres with enhanced visible light photocatalytic performance. 2019 , 1, 1	4
443	An aspirated in-syringe device fixed with ionic liquid and β -cyclodextrin-functionalized CNTs/TiO ₂ for rapid adsorption and visible-light-induced photocatalytic activity. 2019 , 43, 9345-9353	15
442	Influence of seeding layer on photoelectrochemical hydrogen production over TiO ₂ nanorod decorated with reduced graphene oxide. 2019 , 94, 194-202	12
441	Efficient photocatalytic CO ₂ reduction by PD linked g-C ₃ N ₄ /TiO ₂ -nanotubes Z-scheme composites. 2019 , 178, 168-175	34
440	Ultralong Ca ₂ B ₂ O ₅ ·H ₂ O nanowires: water-bath pretreated eco-friendly hydrothermal synthesis, optical and rare earth-doped photoluminescence properties. 2019 , 21, 2451-2463	
439	Preparation of TiO ₂ rutile nanorods decorated with cobalt oxide nanoparticles for solar photoelectrochemical activity. 2019 , 247, 1-3	7
438	Effective photocatalytic salicylic acid removal under visible light irradiation using Ag ₂ S/AgI-Bi ₂ S ₃ /BiOI with Z-scheme heterojunctions. 2019 , 481, 1335-1343	19
437	Metal-organic framework assisted and in situ synthesis of hollow CdS nanostructures with highly efficient photocatalytic hydrogen evolution. 2019 , 48, 5649-5655	16
436	A review on frontiers in plasmonic nano-photocatalysts for hydrogen production. 2019 , 44, 10453-10472	148
435	Prediction, and physic-chemical properties of (TiO ₂) _n n = 15-20 clusters and their possible catalytic application: A DFT study. 2019 , 162, 228-235	9
434	Dual-template synthesis of mesoporous TiO ₂ nanotubes with structure-enhanced functional photocatalytic performance. 2019 , 250, 301-312	75
433	Constructing a new Z-scheme multi-heterojunction photocatalysts Ag-AgI/BiOI-BiO with enhanced photocatalytic activity. 2019 , 371, 304-315	81
432	Preparation of Visible Light Photocatalytic Graphene Embedded Rutile Titanium(IV) Oxide Composite Nanowires and Enhanced NO _x Removal. 2019 , 9, 170	27
431	Sublattice Energy Cluster Construction for The Enhancement of NIR Photocatalytic Performance of LiYF ₄ : Tm@TiO ₂ . 2019 , 4, 4262-4270	0
430	Amino acids adsorption in differently aged and concentrated aqueous suspensions of ZnO and TiO ₂ nanoparticles. 2019 , 1145, 012022	1

429	A simple, facile and low-cost method for the preparation of mixed-phase titanium oxide: toward efficient photoelectrochemical water oxidation. 2019 , 43, 6989-7000	6
428	Humidity sensor based on heterogeneous CoTiO ₃ /TiO ₂ film with vertically aligned nanocrystalline structure. 2019 , 163, 292-300	20
427	Self-assembly as a key player for materials nanoarchitectonics. 2019 , 20, 51-95	204
426	Optical porous hollow-boxes assembled by SrSO ₄ /TiO ₂ /Pt nanoparticles for high performance of photocatalytic H ₂ evolution. 2019 , 59, 129-137	24
425	Effect of fluoride-mediated transformations on electrocatalytic performance of thermally treated TiO ₂ nanotubular layers. 2019 , 221, 34-41	2
424	Fabrication of Porous Mesh-Like FeCo ₂ S ₄ Nanosheet Arrays on Ni Foam for High Performance all Solid-State Supercapacitors and Water Splitting. 2019 , 4, 1879-1889	12
423	Fabrication of Z-scheme photocatalyst, Er ³⁺ :Y ₃ Al ₅ O ₁₂ @NiGa ₂ O ₄ -MWCNTs-WO ₃ , and visible-light photocatalytic activity for degradation of organic pollutant with simultaneous hydrogen evolution. 2019 , 138, 474-488	10
422	Photon-Free Degradation of Dyes by Ge/GeO ₂ Porous Microstructures. 2019 , 7, 6611-6618	6
421	Encapsulating Mo-Doped TiO ₂ Anatase in N-Doped Amorphous Carbon With Excellent Lithium Storage Performances. 2019 , 6,	71
420	Graphitic carbon nitride based ternary nanocomposites: From synthesis to their applications in photocatalysis: A recent review. 2019 , 281, 634-654	54
419	TiO Nanosheet Arrays with Layered SnS and CoO Nanoparticles for Efficient Photoelectrochemical Water Splitting. 2019 , 14, 342	13
418	Electron-microscopy study of ordered silver nanoparticles synthesized in a ZnO:Al polycrystalline film. 2019 , 1410, 012170	2
417	Molten Salt Hydrates in the Synthesis of TiO Flakes. 2019 , 4, 21302-21310	0
416	Salicylic acid-sensitised titanium dioxide for photocatalytic degradation of fast green FCF under visible light irradiation. 2019 , 14, 359-362	3
415	One-dimension TiO ₂ nanostructures with enhanced activity for CO ₂ photocatalytic reduction. 2019 , 464, 534-543	51
414	Simply tuned and sustainable cobalt oxide decorated titania nanotubes for photoelectrochemical water splitting. 2019 , 464, 68-77	10
413	Cobalt-doped titanium oxide nanotubes grown via one-step anodization for water splitting applications. 2019 , 464, 351-359	22
412	Titania nanowires growing from P25 nuclei: Facile synthesis and the improved photocatalytic activity. 2019 , 124, 192-198	4

411	Light-Driven Sustainable Hydrogen Production Utilizing TiO ₂ Nanostructures: A Review. 2019 , 3, 1800184	91
410	Two-dimensional materials as catalysts for solar fuels: hydrogen evolution reaction and CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 430-454	13 87
409	Novel magnetic standpoints in Na ₂ Ti ₃ O ₇ nanotubes. 2019 , 476, 207-212	11
408	Metal Nanoclusters: New Paradigm in Catalysis for Water Splitting, Solar and Chemical Energy Conversion. 2019 , 12, 1517-1548	60
407	Quantum dots for light conversion, therapeutic and energy storage applications. 2019 , 270, 71-84	10
406	Structural, optical, and electronic properties of metal oxide nanostructures. 2019 , 59-102	4
405	Pt/TiO nanotube photocatalyst - Effect of synthesis methods on valance state of Pt and its influence on hydrogen production and dye degradation. 2019 , 538, 83-98	30
404	Polydopamine-Inspired Design and Synthesis of Visible-Light-Driven Ag @elongated TiO ₂ NTs CoreShell Nanocomposites for Sustainable Hydrogen Generation. 2019 , 7, 558-568	34
403	Facile ionothermal synthesis of TiO ₂ nanorods for photocatalytic H ₂ generation. 2019 , 30, 1076-1083	4
402	Synthesis of TiO (B) and High-temperature Stable Anatase TiO Nanowires by Hydrothermal Method and Investigation of Photocatalytic Activity. 2019 , 95, 733-739	4
401	TiO ₂ nanoparticles modified with 2D MoSe ₂ for enhanced photocatalytic activity on hydrogen evolution. 2019 , 44, 720-728	36
400	Formation of nanotubular structure on low-modulus Ti ₇ .5Mo alloy surface and its bioactivity evaluation. 2019 , 669, 329-337	3
399	Synthesis and photocatalytic activity of BiOBr hierarchical structures constructed by porous nanosheets with exposed (110) facets. 2019 , 335, 429-436	28
398	Photocatalytic degradation of aflatoxin B1 by activated carbon supported TiO ₂ catalyst. 2019 , 100, 183-188	43
397	Thermal decomposition of bimetallic titanium complexes: A new method for synthesizing doped titanium nano-sized catalysts and photocatalytic application. 2019 , 97, 813-826	9
396	Multiple photocatalytic applications of non-precious Cu-loaded g-C ₃ N ₄ /hydrogenated black TiO ₂ nanofiber heterostructure. 2019 , 473, 761-769	15
395	Construction of Ni-doped SnO-SnS heterojunctions with synergistic effect for enhanced photodegradation activity. 2019 , 368, 204-213	37
394	Significant enhancement of photoactivity in one-dimensional TiO ₂ nanorods modified by S-, N-, O-doped carbon nanosheets. 2019 , 328, 111-117	8

393	Polyaniline-Layered Rutile TiO Nanorods as Alternative Photoanode in Dye-Sensitized Solar Cells. 2019 , 4, 1130-1138	16
392	Synthesis of flower-like CuS/graphene aerogels for dye wastewater treatment. 2019 , 12, 1950002	7
391	Tube-in-tube composite nanofibers with high electrochemistry performance in energy storage applications. 2019 , 19, 69-79	29
390	Low-temperature molten salt process for the synthesis of NaBi7P2O16 nano-plates with excellent photocatalytic activity. 2019 , 45, 893-905	2
389	Rutile phase dominant TiO2 formed by thermal treatment and its high photocatalytic activity under narrow spectrum ultraviolet light emitting diodes. 2019 , 6, 015049	5
388	The TiO (B) nano-belts with excellent performance prepared via alkaline stirring hydrothermal method and its application to remove 17 β ethynylestradiol. 2019 , 26, 34018-34026	6
387	Enhanced efficiency for dye-sensitized solar cells with ZrO2 as a barrier layer on TiO2 nanofibers. 2019 , 469, 821-828	13
386	A highly active nano-micro hybrid derived from Cu-bridged TiO2/porphyrin for enhanced photocatalytic hydrogen production. 2019 , 243, 1-9	48
385	Defective black Ti3+ self-doped TiO2 and reduced graphene oxide composite nanoparticles for boosting visible-light driven photocatalytic and photoelectrochemical activity. 2019 , 467-468, 45-55	49
384	Fabrication of Highly Efficient and Hierarchical CdS QDs/CQDs/H-TiO2 Ternary Heterojunction: Surpassable Photocatalysis under Sun-like Illumination. 2019 , 58, 79-91	19
383	Formation of nanotubes on commercially pure titanium at high potentials (=10 V) and their electrochemical response. 2019 , 6, 065050	
382	Application of a photostable silver-assisted Z-scheme NiTiO3 nanorod/g-C3N4 nanocomposite for efficient hydrogen generation. 2019 , 44, 801-808	18
381	Nanoparticle intercalation-modulated stretchable conductive graphene fibers with combined photoelectric properties. 2019 , 141, 218-225	17
380	Synthesis, characterization and photocatalytic properties of WO3/hexagonal platelet graphite nanocomposites. 2020 , 357, 655-663	4
379	Ti3+ self-doped rutile/anatase/TiO2(B) mixed-crystal tri-phase heterojunctions as effective visible-light-driven photocatalysts. 2020 , 13, 2568-2578	15
378	TiO2 nanotube arrays decorated with Au and Bi2S3 nanoparticles for efficient Fe3+ ions detection and dye photocatalytic degradation. 2020 , 39, 28-38	20
377	Co-doped Mo-Mo2C cocatalyst for enhanced g-C3N4 photocatalytic H2 evolution. 2020 , 260, 118220	64
376	Nanostructured Carbon Nitrides for CO Capture and Conversion. 2020 , 32, e1904635	104

375	Highly efficient photodegradation of various organic pollutants in water: Rational structural design of photocatalyst via thiol-ene click reaction. 2020 , 381, 122631	12
374	Activatable Phototheranostic Materials for Imaging-Guided Cancer Therapy. 2020 , 12, 5286-5299	42
373	Advanced Materials for Sodium-Ion Capacitors with Superior Energy-Power Properties: Progress and Perspectives. 2020 , 16, e1902843	21
372	Self-assembly of nickel phosphate-based nanotubes into two-dimensional crumpled sheet-like architectures for high-performance asymmetric supercapacitors. 2020 , 67, 104270	129
371	A flexible electrode of TiO ₂ nanowire arrays modified with graphene for solid-state cable-type supercapacitors. 2020 , 26, 971-979	1
370	Boosting the activity and stability of Ag-Cu ₂ O/ZnO nanorods for photocatalytic CO ₂ reduction. 2020 , 268, 118380	108
369	Bandgap engineering of TiO ₂ nanotube photonic crystals for enhancement of photocatalytic capability. 2020 , 22, 1929-1938	6
368	MoS ₂ -supported on free-standing TiO ₂ -nanotubes for efficient hydrogen evolution reaction. 2020 , 45, 4468-4480	13
367	On the stability of hydroxyl groups on substituted titania. 2020 , 22, 1250-1257	0
366	Progress in supercapacitors: roles of two dimensional nanotubular materials. 2020 , 2, 70-108	91
365	Polarization-enhanced photoelectric performance in a molecular ferroelectric hexane-1,6-diammonium pentaiodobismuth (HDA-BiI ₅)-based solar device. 2020 , 10, 1198-1203	7
364	TiO ₂ /Graphene 3D Hydrogel Supported on Ni Foam for Photoelectrocatalysis Removal of Organic Contaminants. 2020 , 20, 2645-2649	5
363	A simple method for preparing a TiO ₂ -based back-gate controlled N-channel MSM/GFET UV photodetector. 2020 , 8, 1781-1787	3
362	One-Step and Ligand-Free Modification of Au Nanoparticles on Highly Ordered TiO ₂ Nanotube Arrays for Effective Photoelectrocatalytic Decontamination. 2020 , 59, 668-675	5
361	Sodium battery nanomaterials. 2020 , 115-160	
360	Preparation, characterization, and photocatalytic activity of novel AgBr/ZIF-8 composites for water purification. 2020 , 31, 439-447	22
359	Polymer Matrix Nanocomposites with 1D Ceramic Nanofillers for Energy Storage Capacitor Applications. 2020 , 12, 1-37	86
358	Morphology Control of Molybdenum Titanium Oxide and Its Enhanced NO Removal Performance. 2020 , 150, 1707-1713	1

357	Facet-engineered surface and interface design of WO ₃ /Bi ₂ WO ₆ photocatalyst with direct Z-scheme heterojunction for efficient salicylic acid removal. 2020 , 508, 144796	14	
356	Selective photoelectrocatalytic removal of environmental pollutants on molecular imprints decorated TiO ₂ single crystalline nanoarrays. 2020 , 383, 123188	16	
355	Spaced TiO ₂ nanotube arrays for electrodeposition of MoO ₃ to achieve high electrochemical performance. 2020 , 820, 153066	6	
354	Recent Advances in Photocatalysis over Metal-Organic Frameworks-Based Materials. 2020 , 4, 1900438	11	
353	Hydrogen producing water treatment through mesoporous TiO ₂ nanofibers with oriented nanocrystals. 2020 , 41, 50-61	31	
352	Fabrication of TiO ₂ nanoparticle/TiO ₂ microcone array photoanode for fiber-type dye-sensitized solar cells: Effect of acid concentration on morphology of microcone. 2020 , 331, 135278	8	
351	Noble-metal-free electrospun nanomaterials as electrocatalysts for oxygen reduction reaction. 2020 , 15, 100280	45	
350	Efficient Self-Driving Photoelectrocatalytic Reactor for Synergistic Water Purification and H Evolution. 2020 , 12, 44731-44742	9	
349	The controllability of PbI ₂ morphology via nanorod-shaped underlying layer for solution-based perovskite two-step sequential deposition. 2020 , 211, 291-300	3	
348	Efficient chemiluminescence harnessing via slow photons in sensitized TiO ₂ nanotubes for the photoelectrochemical biosensing. 2020 , 878, 114676	4	
347	Band gap tuning of p-type Al-doped TiO ₂ thin films for gas sensing applications. 2020 , 714, 138382	3	
346	Photocatalytic Applications of Two-Dimensional Ti ₃ C ₂ MXenes: A Review. 2020 , 3, 9581-9603	58	
345	Pomegranate-like C@TiO mesoporous honeycomb spheres for high performance lithium ion batteries. 2020 , 31, 435410	8	
344	Germanium-assisted growth of titanium dioxide nanowires for enhanced photocatalytic and electron emission performance. 2020 , 530, 147204	3	
343	Carbon nitride nanotube-based materials for energy and environmental applications: a review of recent progresses. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 25626-25648	13	33
342	Hydrothermal Synthesis of FeOOH and Fe ₂ O ₃ Modified Self-Organizing Immobilized TiO ₂ Nanotubes for Photocatalytic Degradation of 1H-Benzotriazole. 2020 , 10, 1371	3	
341	Construction of three-dimensional hierarchical Pt/TiO ₂ @C nanowires with enhanced methanol oxidation properties. 2020 , 45, 33440-33447	5	
340	Unraveling the quantum dynamics origin of high photocatalytic activity in nitrogen-doped anatase TiO ₂ : time-domain ab initio analysis. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 25235-25244	13	6

339	Simple Preparation of Ceramic-Like Materials Based on 1D-Ag _x (x=0, 5, 10, 20, 40 mM)/TiO ₂ Nanostructures and Their Photocatalysis Performance. 2020 , 10, 1024	5
338	A high performance and low cost poly(dibenzothiophene-S,S-dioxide)@TiO ₂ composite with hydrogen evolution rate up to 51.5 mmol h ⁻¹ g ⁻¹ . <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18292-18301 ¹³	8
337	A three-layer photocatalyst carbon fibers/TiO ₂ seed/TiO ₂ nanorods with high photocatalytic degradation under visible light. 2020 , 530, 147289	21
336	Laser induced formation of copper species over TiO ₂ nanotubes towards enhanced water splitting performance. 2020 , 45, 19192-19205	4
335	Insights into Designing Photocatalysts for Gaseous Ammonia Oxidation under Visible Light. 2020 , 54, 10544-10550	7
334	Facile method to obtain anatase and anatase-brookite nanoparticles (TiO ₂) with MWCNT towards reducing the bandgap. 2020 , 109, 108015	2
333	Reprint of "Electrochemical oxidation of lignin at electrochemically reduced TiO ₂ nanotubes". 2020 , 872, 114528	1
332	Revisiting the Sodiation Mechanism of TiO ₂ via Operando X-ray Absorption Spectroscopy. 2020 , 10, 5547	4
331	One-Pot Synthesis of Anatase, Rutile-Decorated Hydrogen Titanate Nanorods by Yttrium Doping for Solar H ₂ Production. 2020 , 5, 23081-23089	1
330	Conductive and Elastic TiO ₂ Nanofibrous Aerogels: A New Concept toward Self-Supported Electrocatalysts with Superior Activity and Durability. 2020 , 132, 23452-23460	2
329	Conductive and Elastic TiO Nanofibrous Aerogels: A New Concept toward Self-Supported Electrocatalysts with Superior Activity and Durability. 2020 , 59, 23252-23260	38
328	Synthesis of Anodized TiO ₂ Nanotube Arrays as Ion Sieve for Lithium Extraction. 2020 , 5, 10339-10345	4
327	Synergistic Effect of Plasmonic Gold Nanoparticles Decorated Carbon Nanotubes in Quantum Dots/TiO for Optoelectronic Devices. 2020 , 7, 2001864	18
326	Design of three-dimensional interconnected porous hydroxyapatite ceramic-based composite phase change materials for thermal energy storage. 2020 , 44, 11930-11940	3
325	Sunlight Assisted improved photocatalytic degradation of rhodamine B using Pd-loaded g-C ₃ N ₄ /WO ₃ nanocomposite. 2020 , 126, 1	8
324	Effects of environmental factors and synthesis conditions on the photocatalytic activity of titanate nanotubes for removal of gaseous formaldehyde. 2020 , 46, 4793-4809	4
323	Efficient microwave traps with markedly enhanced interfacial polarization and impedance matching enabled by dual-shelled, dual-cavity magnetic@dielectric hollow nanospheres. 2020 , 8, 16489-16497	9
322	3D structured materials and devices for artificial photosynthesis. 2020 , 31, 282001	3

321	Electropolishing and anodization of titanium in water/ethylene glycol baths for the production of TiO ₂ nanotubes. 2020 , 22, 1	1
320	Demolding improvement for multidirectional nanostructures by nanoimprint lithography. 2020 , 38, 032603	
319	A heterostructure BiOCl nanosheets/TiO ₂ hollow-tubes composite for visible light-driven efficient photodegradation antibiotic. 2020 , 397, 112590	19
318	Synthesis of Surfactant-Assisted C/Fe-FeVO ₄ Nanostructure: Characterization and Photocatalytic Degradation of Ciprofloxacin. 2020 , 20, 5636-5641	2
317	Morphology and photocatalytic activity of TiO ₂ /MXene composites by in-situ solvothermal method. 2020 , 46, 20088-20096	26
316	Surface modification of electrospun nanofibers of TiO ₂ in TiCl ₄ treatment for cactus-like TiO ₂ nanostructures. 2020 , 33, 1351-1355	1
315	Water-splitting properties of bi-phased TiO ₂ nanotube arrays subjected to high-temperature annealing. 2020 , 46, 21471-21481	9
314	A hybrid hollow spheres Cu ₂ O@TiO ₂ -g-ZnTAPc with spatially separated structure as an efficient and energy-saving day-night photocatalyst for Cr(VI) reduction and organic pollutants removal. 2020 , 399, 125807	20
313	Z-scheme CdS/Co ₉ S ₈ -RGO for photocatalytic hydrogen production. 2020 , 7, 2692-2701	8
312	H ₂ Ti ₃ O ₇ nanowires as a high-performance photocatalytic and surface-enhanced Raman scattering substrate. 2020 , 400, 112666	8
311	Template Based Synthesis of Plasmonic Ag-modified TiO ₂ /SnO ₂ Nanotubes with Enhanced Photostability for Efficient Visible-Light Photocatalytic H ₂ Evolution and RhB Degradation. 2020 , 5, 6001-6010 ¹¹	
310	Activation of carbon cloth and concurrent precipitation of titania nanowires for enhanced adsorption and photocatalysis performance. 2020 , 527, 146779	11
309	Highly efficient photocatalytic performance of dye-sensitized K-doped ZnO nanotapers synthesized by a facile one-step electrochemical method for quantitative hydrogen generation. 2020 , 24, 1599-1606	4
308	Electrospinning metal Phosphide/Carbon nanofibers from Phytic Acid for hydrogen evolution reaction catalysts. 2020 , 31, 415602	2
307	Chemical studies of metal oxide powders. 2020 , 17-29	
306	MOF-Mediated Synthesis of Supported Fe-Doped Pd Nanoparticles under Mild Conditions for Magnetically Recoverable Catalysis*. 2020 , 26, 13659-13667	3
305	DC-Plasma over Aqueous Solution for the Synthesis of Titanium Dioxide Nanoparticles under Pressurized Argon. 2020 , 5, 5443-5451	7
304	The application of photocatalytic materials for efficient air purification. 2020 , 109-126	

303	Electrochemical oxidation of lignin at electrochemically reduced TiO ₂ nanotubes. 2020 , 863, 114049	10
302	Effects of Particle Size on the Structure and Photocatalytic Performance by Alkali-Treated TiO ₂ . 2020 , 10,	61
301	Retorting Photocorrosion and Enhanced Charge Carrier Separation at CdSe Nanocapsules by Chemically Synthesized TiO ₂ Shell for Photocatalytic Hydrogen Fuel Generation. 2020 , 12, 3139-3152	10
300	Photoelectrochemical reduction of CO ₂ over Ru/Mn/Co trimetallic catalysts supported anatase TiO ₂ under visible light irradiation. 2020 , 94, 279-287	2
299	Visible-light photocatalysts: Prospects and challenges. 2020 , 8, 030903	82
298	Enhanced Optical and Electrical Properties of Metallic Surface Plasmon Sensitized TiO ₂ Nanowires. 2020 , 19, 519-526	1
297	Substrate and support materials for photocatalysis. 2020 , 129-171	4
296	Fabrication of powder and modular H ₃ PW ₁₂ O ₄₀ /Ag ₃ PO ₄ composites: Novel visible-light photocatalysts for ultra-fast degradation of organic pollutants in water. 2020 , 278, 119313	26
295	Facile construction of novel Bi ₂ WO ₆ /Ta ₃ N ₅ Z-scheme heterojunction nanofibers for efficient degradation of harmful pharmaceutical pollutants. 2020 , 402, 126165	164
294	Recent advances in electrospun nanofibers for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16747-16789	13 79
293	Photocatalytic degradation evaluation of N-Fe codoped aligned TiO ₂ nanorods based on the effect of annealing temperature. 2020 , 9, 107-122	29
292	Photovoltaic Application of Rice Flake-Shaped ZnO Nanostructures. 2020 , 49, 3290-3300	5
291	Surface sensitization of TiO ₂ nanorod mats by electrodeposition of ZIF-67 for water photo-oxidation. 2020 , 339, 135882	15
290	Boosting the stable sodium-ion storage performance by tailoring the 1D TiO ₂ @ReS ₂ core-shell heterostructures. 2020 , 338, 135695	13
289	Tailorable nanoarchitecturing of bimetallic nickel-cobalt hydrogen phosphate via the self-weaving of nanotubes for efficient oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3035-3047	13 34
288	Remarkable improvement of TiO ₂ for dye photocatalytic degradation by a facile post-treatment. 2020 , 44, 1942-1952	18
287	Preparation of an improved performance FeTiO ₃ -based lithium-ion battery anode. 2020 , 260, 116302	2
286	Photoelectrochemistry of manganese oxide/mixed phase titanium oxide heterojunction. 2020 , 44, 3514-3523	8

285	Synthesis of titanium nanoplate decorated by Pd and Fe ₃ O ₄ nanoparticles immobilized on graphene oxide as a novel photocatalyst for degradation of parathion pesticide. 2020 , 179, 114371	6
284	Insights into Theranostic Properties of Titanium Dioxide for Nanomedicine. 2020 , 12, 22	22
283	Electrospun Nanofibrous Membranes: An Effective Arsenal for the Purification of Emulsified Oily Wastewater. 2020 , 30, 2002192	49
282	Hydrogen plasma-treated 1D/3D TiO ₂ nanorod array photoanode for efficient photoelectrochemical water splitting. 2020 , 46, 17791-17799	7
281	Effect of Ag Content on Photocatalytic Activity of Ag@TiO ₂ /rGO Hybrid Photocatalysts. 2020 , 49, 3849-3859	12
280	Investigations on the effect of co-doping in enhancing the performance of nanostructured TiO ₂ based DSSC sensitized using extracts of Hibiscus Sabdariffa calyx. 2020 , 212, 164672	12
279	Influence of TiO ₂ Morphology and Crystallinity on Visible-Light Photocatalytic Activity of TiO ₂ -Bi ₂ O ₃ Composite in AOPs. 2020 , 10, 395	2
278	Synthesis of Ag/AgCl/TiO ₂ nanocomposite and study of photocatalytic activity in VOCs removal from gas phase. 2020 , 1-17	3
277	A review of recent progress in gas phase CO ₂ reduction and suggestions on future advancement. 2020 , 16, 100264	15
276	Template-Free, Solid-State Synthesis of Hierarchically Macroporous S-Doped TiO ₂ Nano-Photocatalysts for Efficient Water Remediation. 2020 , 5, 7969-7978	17
275	Process-Induced Nanostructures on Anatase Single Crystals via Pulsed-Pressure MOCVD. 2020 , 13,	2
274	TiO ₂ -Bi ₂ O ₃ junction as a leverage for the visible-light activity of TiO ₂ based catalyst used for environmental applications. 2021 , 361, 165-175	8
273	Numerical analysis and performance improvement of nanostructured Cu ₂ O/TiO ₂ pn heterojunction solar cells using SCAPS. 2021 , 38, 887-892	1
272	Improved photoelectrocatalytic activity of anodic TiO ₂ nanotubes by boron in situ doping coupled with geometrical optimization: Application of a potent photoanode in the purification of dye wastewater. 2021 , 25, 545-560	5
271	Electrodeposition-assisted formation of anodized TiO ₂ /CuO heterojunctions for solar water splitting. 2021 , 11, 79-90	1
270	A novel gas flow-through photocatalytic reactor based on copper-functionalized nanomembranes for the photoreduction of CO ₂ to C ₁ -C ₂ carboxylic acids and C ₁ -C ₃ alcohols. 2021 , 408, 127250	15
269	Synthesis and characterization of various transition metals doped SnO ₂ @MoS ₂ composites for supercapacitor and photocatalytic applications. 2021 , 853, 157060	23
268	Insights into the Surface/Interface Modifications of Bi ₂ MoO ₆ : Feasible Strategies and Photocatalytic Applications. 2021 , 5, 2000442	11

267	The role of Al and Co co-doping on the band gap tuning of TiO ₂ thin films for applications in photovoltaic and optoelectronic devices. 2021 , 121, 105419	8
266	Photocatalytic performance of TiO ₂ nanotube structure based on TiN coating doped with Ag and Cu. 2021 , 47, 7233-7240	9
265	Reaction induced multifunctional TiO ₂ rod/particle nanostructured materials for screen printed dye sensitized solar cells. 2021 , 47, 8094-8104	1
264	MOF-derived core/shell C-TiO/CoTiO type II heterojunction for efficient photocatalytic removal of antibiotics. 2021 , 406, 124675	30
263	Photoelectrocatalytic H ₂ evolution enhancement over CuO-decorated TiO ₂ nanocatalysts and promoting E. coli degradation. 2021 , 859, 157818	7
262	Sustainable engineering of TiO ₂ -based advanced oxidation technologies: From photocatalyst to application devices. 2021 , 78, 202-222	20
261	Unravelling camphor mediated synthesis of TiO ₂ nanorods over shape memory alloy for efficient energy harvesting. 2021 , 541, 148489	19
260	Constructing reduced graphene oxide network aerogel supported TiO ₂ (B) (Bronze phase TiO ₂) as anode material for lithium-ion storage. 2021 , 853, 157330	4
259	In-situ formation of uniform V ₂ O ₅ nanocuboid from V ₂ C MXene as electrodes for capacitive deionization with higher structural stability and ion diffusion ability. 2021 , 500, 114897	14
258	Electrical effects of AuNPs and PVA polymers on optical band gap and thermo-optical properties of TiO ₂ nanoparticles. 2021 , 323, 115074	3
257	Recent advances in TiO ₂ -functionalized textile surfaces. 2021 , 22, 100890	24
256	Three-dimensional Pt catalyst on TiO ₂ structures: Synthesis, characterization, and optimal morphology for efficient ethanol electro-oxidation in acidic medium. 2021 , 1, e2000020	0
255	n-p Heterojunction of TiO-NiO core-shell structure for efficient hydrogen generation and lignin photoreforming. 2021 , 585, 694-704	33
254	Sol-electrophoretic deposition of TiO ₂ nanoparticle/nanorod array for photoanode of dye-sensitized solar cell. 2021 , 258, 123893	7
253	The role of multifunctional nanomaterials in the remediation of textile wastewaters. 2021 , 95-136	1
252	Spacing prior to decorating TiO ₂ nanowires with dewetted Au nanoparticles for boosting photoelectrochemical water oxidation. 2021 , 23, 6551-6558	0
251	Extending the π -conjugated molecules on TiO ₂ for the selective photocatalytic aerobic oxidation of sulfides triggered by visible light. 2021 , 5, 2127-2135	4
250	Silver nanoparticle-decorated titanium dioxide nanowire systems bioinspired poly(L-DOPA) thin film as a surface-enhanced Raman spectroscopy (SERS) platform, and photocatalyst. 2021 , 23, 13396-13404	4

249	A New Functional Composite for Photovoltaic and Sensor Applications. 2021 , 7, 2000785		1
248	Efficiency enhancement in a stoichiometrically stable CdS/TiO ₂ nanotube heterostructure electrode for sunlight-driven hydrogen generation. 2021 , 45, 12838-12847		1
247	High Annealing Stability of InAlZnO Nanofiber Field-Effect Transistors with Improved Morphology by Al Doping. 2021 , 12, 1339-1345		12
246	Recent progress and applications of niobium-based nanomaterials and their composites for supercapacitors and hybrid ion capacitors. 2021 , 5, 3039-3083		1
245	CHAPTER 4:Nanomaterials and Their Modification for Environmental Remediation. 2021 , 79-100		
244	A Direct Z-Scheme for the Photocatalytic Hydrogen Production from a Water Ethanol Mixture on CoTiO/TiO Heterostructures. 2021 , 13, 449-457		10
243	Titanium dioxide nanotubes: synthesis, structure, properties and applications. 2021 , 90,		3
242	Carbon quantum dot-sensitized hollow TiO ₂ spheres for high-performance visible light photocatalysis. 2021 , 45, 8693-8700		3
241	When MoS ₂ meets TiO ₂ : facile synthesis strategies, hybrid nanostructures, synergistic properties, and photocatalytic applications. 2021 , 9, 8466-8482		3
240	Photoelectrochemical water splitting using one-dimensional nanostructures. <i>Journal of Materials Chemistry A</i> ,	13	6
239	Effect of a novel one-dimensional zinc tungsten oxide nanorods anchored two-dimensional graphitic carbon nitride nanosheets for improved solar-light-driven photocatalytic removal of toxic pollutants and photoelectrochemical water splitting. 2021 , 32, 33-46		7
238	Unveiling Temperature-Mediated Dual-Band Edge in TiO ₂ Nanotubes with Enhanced Photocatalytic Effect. 2021 , 125, 4846-4859		5
237	Surface Processes in Photocatalytic Reduction of CO ₂ on TiO ₂ -based Materials. 2021 , 2, 10-24		
236	Effect of organoclay and wood fiber inclusion on the mechanical properties and thermal conductivity of cement-based mortars. 2020 , 23, 733-746		
235	Significance of rod shape transformation of tetrahedral TiO ₂ under thermal influence for enhanced solar photocatalysis. 2021 , 47, 2339		1
234	Photocatalytic disinfection of and degradation of natural organic matters in river water using titanate nanotubes. 2021 , 1-15		3
233	Immobilized TiO ₂ /ZnO Sensitized Copper (II) Phthalocyanine Heterostructure for the Degradation of Ibuprofen under UV Irradiation. 2021 , 8, 24		6
232	Synthesis and Characterization of Pure and Nitrogen Doped Titanium Oxide Nanocrystallites for Visible Light Photocatalytic Applications. 2021 , 33, 853-858		

231	Review on the Visible Light Photocatalysis for the Decomposition of Ciprofloxacin, Norfloxacin, Tetracyclines, and Sulfonamides Antibiotics in Wastewater. 2021 , 11, 437	13
230	Designing TiO ₂ nanostructures through hydrothermal growth: influence of process parameters and substrate position. 2021 , 2, 010028	4
229	Synthesis of Fe ₃ O ₄ /BiOBr _n by microwave-assisted solvothermal method: Characterization and evaluation of its photocatalytic properties. 2021 , 123, 105499	5
228	A review of hierarchical nanostructures of TiO ₂ : Advances and applications. 2021 , 3, 100063	43
227	TiO ₂ and TiO ₂ /Ag nanofibers: template synthesis, structure, and photocatalytic properties. 2021 , 28, 1023	5
226	Confined Catalysts Application in Environmental Catalysis: Current Research Progress and Future Prospects. 2021 , 13, 2313-2336	10
225	Engineering electrode/electrolyte interfacial properties of nanotube arrays for high-capacitance supercapacitors. 2021 , 32, 11119-11128	0
224	Enhanced electron harvesting in next generation solar cells by employing TiO ₂ nanoparticles prepared through hydrolysis catalytic process. 2021 ,	1
223	Extraction Pyrolytic Method for TiO ₂ Polymorphs Production. 2021 , 11, 431	19
222	Recent development and future prospects of TiO ₂ photocatalysis. 2021 , 68, 738-769	17
221	Subsurface depth dependence of nitrogen doping in TiO ₂ anatase: a DFT study. 2021 , 33,	1
220	Reversible photoregulation of morphological structure for porous coumarin-graphene composite and the removal of heavy metal ions. 2021 , 546, 149065	1
219	CdS Q-Dot-Impregnated TiO ₂ -B Nanowire-Based Photoanodes for Efficient Photovoltaic Conversion in Q-Dot Co-sensitized DSSC 2021 , 35, 8246-8262	5
218	Controlled Growth of One-dimensional ZnO nanostructures with stable morphology. 2021 , 47, 12762-12767	
217	One-Step Construction of Multi-Walled CNTs Loaded with Alpha-Fe ₂ O ₃ Nanoparticles for Efficient Photocatalytic Properties. 2021 , 14,	1
216	One-dimensional SnO ₂ nanotube solid-state electrolyte for fast electron transport and high light harvesting in solar energy conversion. 2021 , 363, 115584	1
215	Polymer supported copper complexes/nanoparticles for treatment of environmental contaminants. 2021 , 330, 115668	6
214	Solar photocatalysts based on titanium dioxide nanotubes for hydrogen evolution from aqueous solutions of ethanol. 2021 , 46, 16917-16924	10

213	Scalable top-down synthesis of functional carbon nanosheets by aronia fruit powder for Li ⁺ and K ⁺ storage. 2021 , 377, 138068	2
212	Effect of the presence of inorganic anions on the degradation of phenol by dielectric barrier discharge plasma combined with RGO-TiO ₂ . 2021 , 41, 101997	6
211	Hydrothermal synthesis of TiO ₂ nanorods: formation chemistry, growth mechanism, and tailoring of surface properties for photocatalytic activities. 2021 , 20, 100428	18
210	Self-Assembled Au/TiO ₂ Composite Photo-Anode Film for Highly Efficient Dye-Sensitized Solar Cells. 2021 , 6, 5302-5306	1
209	Recent advances in hierarchical anode designs of TiO ₂ -B nanostructures for lithium-ion batteries. 2021 , 45, 17532-17562	2
208	Fabrication of Titanium Dioxide/Carbon Fiber (TiO ₂ /CF) Composites for Removal of Methylene Blue (MB) from Aqueous Solution with Enhanced Photocatalytic Activity. 2021 , 2021, 1-11	3
207	Pulsed Discharge Plasma in High-Pressure Environment for Water Pollutant Degradation and Nanoparticle Synthesis. 2021 , 4, 309-331	2
206	Toward superior lithium/sodium storage performance: design and construction of novel TiO ₂ -based anode materials. 2021 , 40, 3049-3075	15
205	Porous g-C ₃ N ₄ nanosheets through facile thermal polymerization of melamine in the air for photocatalyst application. 2021 , 32, 19655-19666	1
204	Synergistic effect of carbon nanotube/TiO ₂ nanotube multi-scale reinforcement on the mechanical properties and hydration process of portland cement paste. 2021 , 293, 123447	9
203	Effect of oxygen based functional groups on the nucleation of TiO ₂ by atomic layer deposition: A theoretical and experimental study. 2021 , 267, 124588	0
202	Modeling of Lithium Intercalation in Twisted Bilayer Graphene. 2021 , 168, 070544	1
201	Visible Light-Responsive N-Doped TiO ₂ Photocatalysis: Synthesis, Characterizations, and Applications. 1	7
200	Improved Photocatalytic Degradation of Methyl Orange Dye in UV Light Irradiation by K ₂ Ti ₆ O ₁₃ Nanorods. 723-730	1
199	Recent progress and perspectives in heterogeneous photocatalytic CO ₂ reduction through a solid-gas mode. 2021 , 438, 213906	25
198	Synthesis, structure, and selected photocatalytic applications of graphitic carbon nitride: a review. 2021 , 32, 18512-18543	6
197	Fe/S Co-Doped Titanium Dioxide Nanotubes: Optimization of the Photoelectrocatalytic Degradation Kinetics of Phenol Red. 891, 49-55	
196	Recent advances in VOCs and CO removal via photothermal synergistic catalysis. 2021 , 42, 1078-1095	15

195	Revisiting lithium-storage mechanisms of molybdenum disulfide. 2021 ,	2
194	Synthesis of metallic surface plasmon-sensitized TiO ₂ nanowire for wettability application. 1	0
193	Progress of functionalized TiO ₂ -based nanomaterials in the construction industry: A comprehensive review. 2021 , 430, 132062	5
192	Solvothermal synthesis of porphyrin-ferrocenyl conjugated microporous polymer nanospheres for shape-stable phase change materials with improved latent heat and cyclability. 2021 , 595, 178-186	7
191	Ab initio study of photocatalytic characteristics of graphitic carbon nitride assisted by oxalic acid. 2021 , 27, 258	
190	A Systematic Review of the Most Recent Concepts in Smart Windows Technologies with a Focus on Electrochromics. 2021 , 13, 9604	8
189	Recent progress on black phosphorus quantum dots for full-spectrum solar-to-chemical energy conversion. 2021 , 39, 101183	12
188	Direct Z-scheme WO _{3-x} nanowire-bridged TiO ₂ nanorod arrays for highly efficient photoelectrochemical overall water splitting. 2021 , 59, 721-729	14
187	Commercialization-Driven Electrodes Design for Lithium Batteries: Basic Guidance, Opportunities, and Perspectives. 2021 , 17, e2102233	7
186	Novel rare earth metal-doped one-dimensional TiO ₂ nanostructures: Fundamentals and multifunctional applications. 2021 , 13, 100066	20
185	Highly Efficient Solar Vapor Generation via a Simple Morphological Alteration of TiO ₂ Films Grown on a Glassy Carbon Foam. 2021 , 13, 50911-50919	4
184	N,P-codoped carbon quantum dots-decorated TiO ₂ nanowires as nanosized heterojunction photocatalyst with improved photocatalytic performance for methyl blue degradation. 2021 , 1	1
183	Bandgap Engineering of Heterostructures for Visible Light-Driven Water Splitting. 2022 , 701-722	0
182	Employment of polysaccharides in enzyme immobilization. 2021 , 167, 105005	8
181	S vacancy modulated Zn CdS/CoP quantum dots for efficient H ₂ evolution from water splitting under visible light. 2021 , 61, 210-218	10
180	Tailored fabrication of TiO ₂ /In ₂ O ₃ hybrid mesoporous nanofibers towards enhanced photocatalytic performance. 2021 , 629, 127455	9
179	Hydrothermally synthesized titanate nanomaterials for the removal of heavy metals and radionuclides from water: A review. 2021 , 282, 131046	8
178	Surface properties enhancement by sulfur-doping TiO ₂ films. 2021 , 143, 111460	2

177	Osteoimmunomodulation mediating improved osteointegration by OGP-loaded cobalt-metal organic framework on titanium implants with antibacterial property. 2021 , 423, 130176	14
176	Synthesis of bi-functional Ni/Co phosphate nanocomposites for Peroxymonosulphate activation and supercapacitor electrode. 2021 , 9, 106426	2
175	Advanced opportunities and insights on the influence of nitrogen incorporation on the physico-/electro-chemical properties of robust electrocatalysts for electrocatalytic energy conversion. 2021 , 449, 214209	7
174	Creating ultrahigh surface area functional carbon from biomass for high performance supercapacitor and facile removal of emerging pollutants. 2022 , 427, 131477	6
173	QSPR modeling of absorption maxima of dyes used in dye sensitized solar cells (DSSCs). 2022 , 265, 120387	2
172	Modifications in metal oxide electrospun nanofibers for environmental applications. 2021 , 621-639	
171	Surface treatment-controlled solvothermal synthesis of highly active reduced 1D titania with heterojunctioned carbon allotrope. 2021 , 4, 389-402	1
170	Recent Advancements in Photocatalytic Nanocomposites. 2021 , 952-972	
169	Tailoring the defects of sub-100 nm multipodal titanium nitride/oxytitanium nitride nanotubes for efficient water splitting performance. 2021 , 3, 5016-5026	7
168	Nanostructured composites based on Bi and Ti mixed oxides for visible-light assisted heterogeneous photocatalysis. 2021 , 397-407	
167	Photo-oxidation Technologies for Advanced Water Treatment. 2020 , 221-255	1
166	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
165	Facile in situ preparation of fibrous Ag/AgCl composites with efficient photocatalytic degradation of methyl orange under solar light. 2020 , 140, 109360	10
164	Morphology transformation from titanate nanotubes to TiO ₂ microspheres. 2018 , 75, 10-17	17
163	Utilisation of lignin as a model biomass component for preparing a highly active photocatalyst under UV and visible light. 2020 , 118, 105151	9
162	Morphology and Dimension Variations of Copper Sulfide for High-Performance Electrode in Rechargeable Batteries: A Review. 2020 , 3, 11480-11499	13
161	Metastability triggered reactivity in clusters at realistic conditions: a case study of N-doped (TiO ₂) _n for photocatalysis. 2020 , 4, 015001	2
160	Machine learning enabled discovery of application dependent design principles for two-dimensional materials. 2020 , 1, 035015	2

159	Titanyum Dioksit/İdirgenmiGrafen Oksit Kompozitlerin İetimi ve Fotokatalitik İzelliklerinin İncelenmesi.	2
158	Numerical modeling of effect of annealing on nanostructured CuO/TiO ₂ pn heterojunction solar cells using SCAPS. 2019 , 7, 527-538	2
157	Selective Oxidation of Benzyl Alcohol in the Aqueous Phase by TiO ₂ -Based Photocatalysts: A Review.	4
156	TiO ₂ @MIL-101(Cr) nanocomposites as an efficient photocatalyst for degradation of toluene. 1	4
155	Use of microalgal lipids and carbohydrates for the synthesis of carbon dots via hydrothermal microwave treatment. 2021 , 134, 109021	0
154	Novel, Simple and Low-Cost Preparation of Ba-Modified TiO Nanotubes for Diclofenac Degradation under UV/Vis Radiation. 2021 , 11,	0
153	Innovative AgTiO ₂ Nanofibers with Excellent Photocatalytic and Antibacterial Actions. 2021 , 11, 1234	4
152	Research progress, models and simulation of electrospinning technology: a review. 2021 , 1-47	6
151	Synthesis and Photocatalytic Activity of TiO/CdS Nanocomposites with Co-Exposed Anatase Highly Reactive Facets. 2021 , 26,	4
150	Organic Solvent Resistant Nanocomposite Films Made from Self-precipitated Ag/TiO ₂ Nanofibers and Cellulose Nanofiber for Harmful Volatile Organic Compounds Photodegradation. 2021 , 8, 2101467	2
149	Synergistic effect of biomass-derived carbon and conducting polymer coatings on the supercapacitive energy storage performance of TiO ₂ . 2020 , 62, 814-819	
148	TNT/LaFeO ₃ composite as novel condition catalyst for ameliorating hydrogen evolution reaction. 2021 , 133, 107149	
147	Ordering mechanism of silver nanoparticles synthesized in a ZnO:Al polycrystalline film by sol gel method. 2020 , 1695, 012034	
146	Au/CQDs-TiO ₂ composite nanorod array film with simple preparation route and enhanced visible light response. 2021 , 16, 132-141	1
145	Facile synthesis of novel round-cake-like Bi ₂ O ₃ hierarchical architectures for extended visible-light photocatalytic performance. 2022 , 146, 111594	1
144	Recent Advancements in Photocatalytic Nanocomposites. 2020 , 136-161	
143	Towards high-performance battery systems by regulating morphology of TiO ₂ materials. 2021 , 30, e00355	1
142	Enhancement of photocatalytic and sonophotocatalytic hydrogen evolution over sensitized Ag/TiO ₂ . 2020 , 7, 095509	

141	Effect of High-Energy Vibrating Ball Milling in the Reduction of the Crystallite Size of TiO ₂ Particles. 2021 , 09, 7-14	
140	Investigating and correlating photoelectrochemical, photocatalytic, and antimicrobial properties of [Formula: see text] nanolayers. 2021 , 11, 22200	0
139	Ultraviolet photodetectors based on TiO ₂ nanorod arrays/PEDOT-type conducting polymers. 2021 , 122, 111805	1
138	Enhancing Photocatalytic Hydrogen Production via the Construction of Robust Multivariate Ti-MOF/COF Composite.	0
137	Enhancing Photocatalytic Hydrogen Production via the Construction of Robust Multivariate Ti-MOF/COF Composites. 2021 ,	7
136	NiO-TiO ₂ p-n Heterojunction for Solar Hydrogen Generation. 2021 , 11, 1427	2
135	Effect of different nanostructures of Cu ₂ ZnSnS ₄ on visible light-driven photocatalytic degradation of organic pollutants. 2022 , 33, 894	
134	Fabrication of Z-Scheme TiO ₂ /SnS ₂ /MoS ₂ ternary heterojunction arrays for enhanced photocatalytic and photoelectrochemical performance under visible light. 2021 , 122737	2
133	Novel synthesis of graphene oxide/In ₂ S ₃ /TiO ₂ NRs heterojunction photoanode for enhanced photoelectrochemical (PEC) performance. 2021 , 47, 3655-3655	2
132	Interplay of Solid-Liquid Interactions and Anisotropic Aggregation in Solution: The Case Study of Ba(OH) ₂ Crystallites. 2021 , 125, 26049-26060	1
131	TiO ₂ Nanotube Arrays Decorated with Reduced Graphene Oxide and Cu ^{II} tetracyanoquinodimethane as Anode Materials for Photoelectrochemical Water Oxidation.	1
130	Bronze titanium dioxide nanowires with N-rich pseudocapacitive surfaces toward improved lithium kinetics and charge storage.	0
129	Tailoring of structural, optical and electrical properties of anatase TiO ₂ via doping of cobalt and nitrogen ions. 2021 ,	5
128	Recent Advances in the MXenes for Photocatalytic and Hydrogen Production Applications. 2021 , 1-42	
127	Influence of nanoscale defects on the improvement of photocatalytic activity of Ag/ZnO. 2022 , 185, 111718	1
126	Nano-structured silicon and silicon based composites as anode materials for lithium ion batteries: recent progress and perspectives.	5
125	Titanate-derived Nb-doped TiO nanoparticles displaying improved lithium storage performance.. 2022 ,	0
124	Solar fuels: research and development strategies to accelerate photocatalytic CO ₂ conversion into hydrocarbon fuels.	36

123	MoO ₃ -templated synthesis of TiO ₂ @C-Ni microtubes for efficient catalysis and protein adsorption. 2022 , 636, 128167	1
122	Unraveling highly efficient nanomaterial photocatalyst for pollutant removal: a comprehensive review and future progress. 2022 , 23, 100692	2
121	Advances in electrospun TiO ₂ nanofibers: Design, construction, and applications. 2022 , 431, 134343	3
120	Recent progress in defective TiO ₂ photocatalysts for energy and environmental applications. 2022 , 156, 111980	18
119	Morphology engineering of LiFeO ₂ nanostructures through synthesis controlling for electrochemical hydrogen storage inquiries. 2022 , 313, 123025	2
118	A comparison of electrical parameters and efficiency improvement between perovskite cells with carbon and metal electrodes. 2020 ,	
117	Polymer-based materials for visible light photocatalysis. 2022 , 491-510	
116	Electrospun Nanocomposite Materials for Environmental and Energy Applications. 2022 , 221-249	
115	Synthesis, characterization, and applications of ZnO/TiO ₂ nanocomposites. 2022 , 271-314	0
114	Current status, research gaps, and future scope for nanomaterials toward visible light photocatalysis. 2022 , 569-608	
113	Effect of high-pressure vapor on the microstructure and mechanical properties of TiO ₂ continuous fibers. 2022 ,	0
112	Fabrication of high specific surface area TiO ₂ nanopowders by anodization of porous titanium. 2022 , 136, 107234	2
111	Preparation of muscovite/tungsten-doped TiO ₂ composites for the efficient photocatalytic degradation of methyl orange under simulated solar light irradiation. 2022 , 138, 109285	2
110	Fabrication of BiMoO Nanosheets/TiO Nanorod Arrays Heterostructures for Enhanced Photocatalytic Performance under Visible-Light Irradiation.. 2022 , 12,	0
109	Titanium dioxide (TiO ₂)-based photocatalyst materials activity enhancement for contaminants of emerging concern (CECs) degradation: In the light of modification strategies. 2022 , 10, 100262	8
108	Electrospun-Semiconductor-Based Nano-Heterostructures for Photocatalytic Energy Conversion and Environmental Remediation: Opportunities and Challenges.	6
107	Core-shell TiO-CuO microspheres for photogeneration of cyclic carbonates under simulated sunlight.. 2022 ,	
106	Catalytic confinement effects in nanochannels: from biological synthesis to chemical engineering. 2022 , 4, 1517-1526	1

105	Magnetic nanocarriers adorned on graphene: promising contrast-enhancing agents with state-of-the-art performance in magnetic resonance imaging (MRI) and theranostics. 2022 , 3, 2971-2989	0
104	Advances of nanotechnology in plant development and crop protection. 2022 , 143-157	0
103	In Situ Growth TiO ₂ Nanoparticles on Mxene (Ti ₃ C ₂) Decorated with NiO Quantum Dots for Enhanced Photocatalytic Performance.	
102	Stable and Reversible Lithium Storage Properties of LiTiO _x Nanotubes for Electrochemical Recovery from Aqueous Solutions.	
101	Monolithic Perovskite Solar Capacitor Enabled by Double-Sided TiO ₂ Nanotube Arrays. 2022 , 7, 1260-1265	3
100	A Review of Titanium Dioxide (TiO)-Based Photocatalyst for Oilfield-Produced Water Treatment.. 2022 , 12,	9
99	Effect of defect-rich Co-CeO OER cocatalyst on the photocarrier dynamics and electronic structure of Sb-doped TiO nanorods photoanode.. 2022 , 620, 209-220	5
98	On the chemistry, photocatalytic, and corrosion behavior of co-sputtered tantalum and titanium oxynitride thin films. 2022 , 153260	
97	Recent advances in nanomaterial development for lithium ion-sieving technologies. 2022 , 529, 115624	11
96	Recent advances in nano-semiconductors photocatalysis for degrading organic contaminants and microbial disinfection in wastewater: A comprehensive review. 2022 , 17, 100666	1
95	Carbon-rehybridization-induced templated growth of metal nanoclusters on graphene moiré patterns. 2022 , 192, 295-300	0
94	Interfacial engineering in Pickering emulsion photocatalytic microreactors: From mechanisms to prospects. 2022 , 438, 135655	1
93	An efficient photocatalytic synthesis of benzimidazole over cobalt-loaded TiO ₂ catalysts under solar light irradiation. 2022 , 429, 113888	2
92	Photodetector based on Rutile and Anatase TiO ₂ nanostructures/n-Si Heterojunction. 2021 , 2114, 012025	0
91	Crystal Facet Engineering and Hydrogen Spillover-Assisted Synthesis of Defective Pt/TiO Nanorods with Enhanced Visible Light-Driven Photocatalytic Activity.. 2021 ,	1
90	In-situ preparation and electrochromic properties of TiO ₂ / PTPA-HTAN core-shell nanocomposite film.	0
89	Construction of a Reduced Graphene Oxide/TiO ₂ Nanotube Structure by the Click Reaction for Photoanodes. 2021 , 4, 13543-13551	
88	Red Phosphorus: An Up-and-Coming Photocatalyst on the Horizon for Sustainable Energy Development and Environmental Remediation.. 2021 ,	9

87	Data_Sheet_1.pdf. 2019 ,	
86	Comparative Study of Titanium Dioxide Thin Films Deposited by Spray Pyrolysis and Dr. Blade Method for Solar Cells Applications. 2022 , 393-398	
85	Mechanical force-assisted modulation of TiO ₂ nanowires-entangled hierarchical microstructures for photocatalysis application.	0
84	Controllable synthesis of anatase titanium dioxide nanowires with high-temperature stability.	
83	UV Curable Robust Durable Hydrophobic Coating Based on Epoxy Polyhedral Oligomeric Silsesquioxanes (EP-POSS) and Their Derivatives.	1
82	Photocatalytic Degradation of Paracetamol in Aqueous Medium Using TiO Prepared by the Sol-Gel Method.. 2022 , 27,	1
81	Recent progress of lead-free halide double perovskites for green energy and other applications. 2022 , 128, 1	0
80	Photocatalytic Reduction of CO ₂ by TiO ₂ Nanotubes.	0
79	Insight into peroxymonosulfate assisted photocatalysis over Fe ₂ O ₃ modified TiO ₂ /diatomite composite for highly efficient removal of ciprofloxacin. 2022 , 293, 121123	0
78	One-step synthesis of N-doped porous wall TiO ₂ nanotube arrays for efficient removal of dibutyl phthalate under visible light. 2022 , 430, 113975	0
77	Fabrication of 2H/3C-SiC heterophase junction nanocages for enhancing photocatalytic CO reduction.. 2022 , 622, 31-39	1
76	Interfacial interaction-dependent in situ restructure of NiO/TiO ₂ photocatalysts. 2022 , 596, 153606	0
75	Application of Nanomaterials for Coping with Mycotoxin Contamination in Food Safety: From Detection to Control.. 2022 , 1-34	0
74	Examination of the Doping Effects of Samarium (Sm ³⁺) and Zirconium (Zr ⁴⁺) on the Photocatalytic Activity of Tio ₂ Nanofibers.	
73	In situ growth of ZnO/Ag ₂ O heterostructures on PVDF nanofibers as efficient visible-light-driven photocatalysts. 2022 ,	0
72	Graphene wrapped TiO ₂ composites as advanced anode materials for high electrochemical performance Li-ion batteries.	
71	Recent trends in photocatalytic water splitting using titania based ternary photocatalysts-A review. 2022 ,	2
70	Visible-light Cu/TiO ₂ @Ag ₃ PO ₄ heterostructure photocatalyst for selective nitrate reduction and antimicrobial activity. 2022 , 129, 112549	0

69	Solution-Processed Quantum-Dot Solar Cells. 2022 , 1215-1266	0
68	Synthesis and Characterization of 2D-WS ₂ Incorporated Polyaniline Nanocomposites as Photo Catalyst for Methylene Blue Degradation. 2022 , 12, 2090	1
67	Facile Preparation of Self-Assembled MXene-CeO ₂ Composite with High Dye Removal Performances. 2022 , 227, 110-120	
66	In situ study of solid-state synthesis of Li ₄ Ti ₅ O ₁₂ /TiO ₂ and Li ₄ Ti ₅ O ₁₂ /TiO ₂ composites. 2022 , 313, 123302	
65	Evaluation of the Mechanical and Photocatalytic Properties of TiO ₂ -Reinforced Cement-Based Material in Binder Jet 3d Printing.	
64	Nanomaterials for construction building products designed to withstand natural disasters. 2022 , 19-42	0
63	Synthesis, characterization and study of the structural change of nanobelts of TiO ₂ (H ₂ Ti ₃ O ₇) to nanobelts with anatase, brookite and rutile phases. 2022 , 166236	2
62	Heterogeneous Nanoplasmonic Amplifiers for Photocatalysis Application: A Theoretical Study. 2022 , 12, 771	1
61	Unveiling mechanism of surface-guided platinum nanowire growth. 2022 , 57, 12875-12885	
60	Facile preparation of tremella-like TiO ₂ /Cd:ZnIn ₂ S ₄ photoanode with enhanced photo-electro-chemical (PEC) performance for energy and environmental applications. 2022 , 135758	0
59	Insights into the Photocatalytic Memory Effect of Magneto-Plasmonic Ag ₃ Fe ₃ O ₄ @TiO ₂ Ternary Nanocomposites for Dye Degradation and H ₂ Production under Light and Dark Conditions.	1
58	CuO/TiO ₂ Nanobelt with Oxygen Vacancies for Visible-Light-Driven Photocatalytic Bacterial Inactivation. 2022 , 5, 10980-10990	1
57	Synthesis, characterization, and photocatalytic antibacterial activities of porous Ce-doped TiO ₂ microspheres using pine pollen as novel biotemplates. 2022 , 57, 15276-15297	1
56	Integrating Polyarylether-COFs with TiO ₂ nanofibers for Enhanced Visible-Light-Driven CO ₂ Reduction in Artificial Photosynthesis. 2022 , 154605	0
55	Solid State Nanostructured Metal Oxides as Photocatalysts and Their Application in Pollutant Degradation: A Review. 2022 , 2, 609-627	0
54	Ultrasonically assisted surface modified CeO ₂ nanospindle catalysts for conversion of CO ₂ and methanol to DMC. 2022 , 90, 106164	0
53	Carbon-modified TiO ₂ nanourchin with Ag nanoparticle decoration for environmental remediation. 2022 , 286, 116028	0
52	Photocatalytic activity of nano-sized Ag and Au metal-doped TiO ₂ embedded in rGO under visible light irradiation. 2022 , 286, 116023	2

51	Electrospun composite nanofibers as novel high-performance and visible-light photocatalysts for removal of environmental pollutants: A review. 2022 , 215, 114296	2
50	NiS/Pt loaded on electrospun TiO ₂ nanofiber with enhanced visible-light-driven photocatalytic hydrogen production. 2023 , 157, 112041	0
49	Ni-doped hybrids of TiO ₂ and two-dimensional Ti ₃ C ₂ MXene for enhanced photocatalytic performance. 2023 , 145, 115476	0
48	Ultrasonically Assisted Surface Modified CeO ₂ Nanospindle Catalysts for Conversion of CO ₂ and Methanol to DMC.	0
47	Recent Progress in One Dimensional TiO ₂ Nanomaterials as Photoanode in Dye-Sensitized Solar Cells.	0
46	TiO ₂ -based photocatalysts for CO ₂ reduction and solar fuel generation. 2022 , 43, 2500-2529	0
45	In situ construction of 1D/2D ZnO/graphdiyne oxide heterostructures for enhanced photocatalytic reduction in a gas phase.	0
44	Examination of the doping effects of samarium (Sm ³⁺) and zirconium (Zr ⁴⁺) on the photocatalytic activity of TiO ₂ nanofibers. 2023 , 930, 167423	0
43	Preparation and Real World Applications of Titania Composite Materials for Photocatalytic Surface, Air, and Water Purification: State of the Art. 2022 , 10, 139	0
42	Multifunctional 1D Nanostructures toward Future Batteries: A Comprehensive Review. 2208374	1
41	Micro-meso porous biocarbons derived from a typical biopolymer with superior adsorption capacity for methylene blue dye and high-performance supercapacitors. 2022 , 116877	0
40	Nanotexturing TiO ₂ over carbon nanotubes for high-energy and high-power density pseudocapacitors in organic electrolytes. 9,	0
39	Progress and perspectives on 1D nanostructured catalysts applied in photo(electro)catalytic reduction of CO ₂ .	3
38	Recent Advances in Modeling and Experimental Prediction of Properties of Graphene Reinforced Natural Rubber Composites: A Review (Part 1). 2022 ,	0
37	Synthesis of Durian-like TiO ₂ @CdS Core-Shell Structure and Study on H ₂ Generation Properties. 2022 , 12, 1211	0
36	Advanced Two-Dimensional Materials for Green Hydrogen Generation: Strategies toward Corrosion Resistance Seawater Electrolysis-Review and Future Perspectives.	1
35	Recent Advances in the MXenes for Photocatalytic and Hydrogen Production Applications. 2022 , 2219-2260	0
34	Photocatalytic Conversion of CO ₂ into Value Added and Renewable Fuels over Heterogeneous Nanocatalysts. 2022 , 221-274	0

- 33 Flexible-in-rigid polycrystalline titanium nanofibers: a toughening strategy from a macro-scale to a molecular-scale. ○
- 32 Machine learning-enabled nanosafety assessment of multi-metallic alloy nanoparticles modified TiO₂ system. **2022**, 28, 100442 ○
- 31 Effect of applied voltage to the characteristic of TiO₂ nanofibers fabricated using electrospinning technique. **2022**, 2376, 012014 ○
- 30 Multifunctional Ultrathin Amorphous CoFe-Prussian Blue Analogue Catalysts for Efficiently Boosting the Oxygen Evolution Activity of Antimony-Doped TiO₂ Nanorods Photoanode. **2022**, 5, 15000-15009^o
- 29 Hierarchical TiO₂ nanorods grown on carbon paper via the combination of pulsed laser deposited Ti seed layer and hydrothermal technique as advanced hybrid electrocatalyst support. **2023**, 100021 ○
- 28 Understanding the doping mechanism of Sn in TiO₂ nanorods toward efficient photoelectrochemical performance. ○
- 27 Titanium-Based Nanoarchitectures for Sonodynamic Therapy-Involved Multimodal Treatments. 2206253 ○
- 26 Highly Selective Semiconductor Photocatalysis for CO₂ reduction. ○
- 25 Photocatalytic Degradation of Acid Orange 7 by NiO-TiO₂/TiO₂ Bilayer Film Photo-Chargeable Catalysts. **2023**, 13, 141 ○
- 24 A trible-functional anatase composite with ultrafast visible light-catalytic performance for water decontamination. **2023**, 336, 133846 ○
- 23 Composite CdS/TiO₂ Powders for the Selective Reduction of 4-Nitrobenzaldehyde by Visible Light: Relation between Preparation, Morphology and Photocatalytic Activity. **2023**, 13, 74 ○
- 22 Enhanced photocatalytic hydrogen evolution and CO₂ to CH₄ selectivity of Co₃O₄/Ti₃₊-TiO₂ hollow S-scheme heterojunction via ZIF-67 self-template and Ti₃₊/Ov. **2023**, ○
- 21 Preparation of free standing TiO₂ nanowires (FSTNW) with super hydrophilic properties. **2023**, ○
- 20 Magnetic Fe₂O₃/CNT nanocomposites: Characterization and photocatalytic application towards the degradation of Rose Bengal dye. **2023**, ○
- 19 Preparation and characterization of Zr-containing silica residue purification loaded nano-TiO₂ composite photocatalysts. **2023**, 570, 111889 ○
- 18 Recent progress on photocatalytic evolution of hydrogen gas over TiO₂-x-based emerging nanostructures. **2023**, 162, 107444 ○
- 17 Tailoring the deposition of MoSe₂ on TiO₂ nanorods arrays via radiofrequency magnetron sputtering for enhanced photoelectrochemical water splitting. **2023**, 626, 157205 ○
- 16 Fabrication of Ag nanoparticle assisted TiO₂ Nanowire Photoanode at Low Temperature for Flexible DSSC Applications. **2022**, ○

- 15 Heterophase Polymorph of TiO₂ (Anatase, Rutile, Brookite, TiO₂ (B)) for Efficient Photocatalyst: Fabrication and Activity. **2023**, 13, 704 ○
- 14 Electrostatic Repulsive Features of Free-Standing Titanium Dioxide Nanotube-Based Membranes in Biofiltration Applications. **2023**, 39, 3400-3410 ○
- 13 Solvent-controlled selective photocatalytic oxidation of benzyl alcohol over Ni@C/TiO₂. **2023**, 176, 106628 1
- 12 Modified TiO₂ Nanomaterials as Photocatalysts for Environmental Applications. **2023**, 103-117 ○
- 11 Zn doping induced the enhancement of electrochemical performance for CoTiO₃ anode material. **2023**, 29, 1407-1418 ○
- 10 Anodized TiO₂ nanotubes arrays as microbial fuel cell (MFC) electrodes for wastewater treatment: An overview. **2023**, 564, 232872 ○
- 9 Design of Porous Carbon-Based Electro-Catalyst for Hydrogen Generation. **2023**, 285-322 ○
- 8 Recent progress of composite polyethylene separators for lithium/sodium batteries. **2023**, 564, 232853 ○
- 7 Post-Nickelation of a Crystalline Trinuclear Copper Organic Framework for Synergistic Photocatalytic Carbon Dioxide Conversion. **2023**, 62, ○
- 6 Post-Nickelation of a Crystalline Trinuclear Copper Organic Framework for Synergistic Photocatalytic Carbon Dioxide Conversion. **2023**, 135, ○
- 5 Vertical Growth of WO₃ Nanosheets on TiO₂ Nanoribbons as 2D/1D Heterojunction Photocatalysts with Improved Photocatalytic Performance under Visible Light. **2023**, 13, 556 ○
- 4 Engineering electrode/electrolyte interface charge transfer of a TiO₂ photoanode with enriched surface oxygen vacancies for efficient water splitting. ○
- 3 Carbon Dot-Modified TiO₂@SiO₂ Aerogel as an Anode for Lithium-Ion Batteries. **2023**, 6, ○
- 2 One-pot hydrothermal synthesis of porous anatase TiO₂ nanotube formed bundles for lithium ion battery anodes. ○
- 1 Evaluation of the mechanical and photocatalytic properties of TiO₂-reinforced cement-based materials in binder jet 3D printing. **2023**, 106618 ○