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## The Role of Metal Ion Dopants in Quantum-Sized TiO<sub>2</sub>: Correlation between Photoreactivity and Charge Carrier Recombination Dynamics

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2152	Photocatalytic degradation of 2-mercaptobenzothiazole in aqueous La <sup>3+</sup> +TiO <sub>2</sub> suspension for odor control. <b>2004</b> , 48, 185-194	253
2151	Surface characterisation of metal ions loaded TiO <sub>2</sub> photocatalysts: structure-activity relationship. <b>2004</b> , 48, 223-233	81
2150	Visible light activity of TiO <sub>2</sub> for the photoreduction of CCl <sub>4</sub> and Cr(VI) in the presence of nonionic surfactant (Brij). <b>2004</b> , 52, 23-32	49
2149	Intrinsic band gap in semiconductor oxides and Ti-silicalite: ab initio and DFT study. <b>2004</b> , 30, 121-132	9
2148	Photocatalytic effect of nature and modified V-bearing rutile. <b>2004</b> , 49, 2284	7
2147	Nanostructured materials for environmental remediation of organic contaminants in water. <b>2004</b> , 39, 2549-82	86
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2145	High-throughput screening of transition metal-doped TiO <sub>2</sub> in photodecomposition of phenol under visible light. <b>2004</b> , 21, 123-125	5
2144	Crystallization behavior and hydrophilic performances of V <sub>2</sub> O <sub>5</sub> +TiO <sub>2</sub> films prepared by sol-gel dip-coating. <b>2004</b> , 270, 547-552	12
2143	Preparation of S-doped TiO <sub>2</sub> photocatalysts and their photocatalytic activities under visible light. <b>2004</b> , 265, 115-121	1082
2142	Preparation of surface modifications of mesoporous titania with monosubstituted Keggin units and their catalytic performance for organochlorine pesticide and dyes under UV irradiation. <b>2004</b> , 273, 201-210	71
2141	Sol-gel synthesis, characterization and catalytic properties of Fe+Ti mixed oxides. <b>2004</b> , 274, 243-251	48
2140	Discoloration and mineralization of Orange II by using Fe <sup>3+</sup> -doped TiO <sub>2</sub> and bentonite clay-based Fe nanocatalysts. <b>2004</b> , 98, 441-446	55
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2137	Effects of iron species in the photocatalytic degradation of an azo dye in TiO <sub>2</sub> aqueous suspensions. <b>2004</b> , 162, 89-95	36

2136	Comparison of Ag deposition effects on the photocatalytic activity of nanoparticulate TiO <sub>2</sub> under visible and UV light irradiation. <b>2004</b> , 163, 37-44	385
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2131	Effect of impurities in TiO <sub>2</sub> thin films on trichloroethylene conversion. <b>2004</b> , 83, 39-53	35
2130	A visible-light response vanadium-doped titania nanocatalyst by sol-gel method. <b>2004</b> , 163, 509-515	354
2129	Effect of doping mode on the photocatalytic activities of Mo/TiO <sub>2</sub> . <b>2004</b> , 163, 517-522	167
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2124	Effect of Be <sup>2+</sup> doping TiO <sub>2</sub> on its photocatalytic activity. <b>2004</b> , 398, 235-239	80
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2117	Investigation of nitrogen doped TiO <sub>2</sub> photocatalytic films prepared by reactive magnetron sputtering. <b>2004</b> , 5, 677-680	75
2116	Synthesis and structure of nanocrystalline TiO <sub>2</sub> with lower band gap showing high photocatalytic activity. <b>2004</b> , 20, 2900-7	473
2115	Structure and Photocatalytic Activity of Ti <sub>1-x</sub> M <sub>x</sub> O <sub>2</sub> (M = W, V, Ce, Zr, Fe, and Cu) Synthesized by Solution Combustion Method. <b>2004</b> , 108, 20204-20212	484
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2112	Titania Nanoparticles Prepared with Pulsed Laser Ablation of Rutile Single Crystals in Water. <b>2004</b> , 108, 10863-10871	82
2111	Effects of Surface Anchoring Groups (Carboxylate vs Phosphonate) in Ruthenium-Complex-Sensitized TiO <sub>2</sub> on Visible Light Reactivity in Aqueous Suspensions. <b>2004</b> , 108, 14093-14101	261
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2103	Degradation of Methylene Blue on Carbonate Species-doped TiO <sub>2</sub> Photocatalysts under Visible Light. <b>2004</b> , 33, 750-751	144
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2092	Femtosecond to nanosecond spectroscopy of transition metal-doped TiO <sub>2</sub> particles. <b>2005</b> , 175, 8-14	24
2091	Zinc ions surface-doped titanium dioxide nanotubes and its photocatalysis activity for degradation of methyl orange in water. <b>2005</b> , 226, 123-127	151
2090	Visible-light-driven nitrogen-doped TiO <sub>2</sub> photocatalysts: effect of nitrogen precursors on their photocatalysis for decomposition of gas-phase organic pollutants. <b>2005</b> , 117, 67-75	157
2089	Selective synthesis of N-doped mesoporous TiO <sub>2</sub> phases having enhanced photocatalytic activity. <b>2005</b> , 87, 103-109	49
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2082	Superhydrophilic Fe doped titanium dioxide thin films prepared by a spray pyrolysis deposition. <b>2005</b> , 198, 340-344	35
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2071	Synthesis and characterization of Y <sub>2</sub> O <sub>3</sub> /Fe <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> nanoparticles by sol-gel method. <b>2005</b> , 58, 115-121	73
2070	Fabrication and characterization of Ag <sup>III</sup> TiO <sub>2</sub> multiphase nanocomposite thin films with enhanced photocatalytic activity. <b>2005</b> , 60, 211-221	605
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2047	Electronic properties of N- and C-doped TiO <sub>2</sub> . <b>2005</b> , 87, 011904	199



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2008	Co-deposition of photocatalytic Fe doped TiO <sub>2</sub> coatings by MOCVD. <b>2006</b> , 7, 427-431	97
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1891	Microstructure and Optical Properties of Fe-Doped SnO <sub>2</sub> Nanoparticles Synthesized by Hydrothermal Method. <b>2007</b> , 26-28, 683-686	4
1890	Electronic Structure and Defect States of Transition Metal Doped Rutile TiO <sub>2</sub> . <b>2007</b> , 124-126, 787-790	
1889	Photocatalytic Properties of Plasma-Nitrided TiO <sub>2</sub> Films. <b>2007</b> , 154, P29	2
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1876	Nano Size Lanthanum Doped Semiconductors: Synthesis, Characterization and their Photocatalytic Activity. <b>2007</b> , 31, 212-214	1
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1860	Preparation and Characterization of Bi <sup>3+</sup> -TiO <sub>2</sub> and its Photocatalytic Activity. <b>2007</b> , 30, 577-582	39
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1836	Characterization and photocatalytic activity of K <sup>+</sup> -doped TiO <sub>2</sub> photocatalysts. <b>2007</b> , 265, 133-140	61
1835	Enhanced photocatalytic degradation of 4-chlorophenol by Zr <sup>4+</sup> doped nano TiO <sub>2</sub> . <b>2007</b> , 266, 158-165	173
1834	Iron-doped photocatalytic TiO <sub>2</sub> sputtered coatings on plastics for self-cleaning applications. <b>2007</b> , 138, 144-150	89
1833	Photocatalytic oxidation of organic dyes by nano-sized metal molybdate incorporated titanium dioxide (M <sub>x</sub> M <sub>o</sub> xTi <sub>1-x</sub> O <sub>6</sub> ) (M = Ni, Cu, Zn) photocatalysts. <b>2007</b> , 273, 224-229	59
1832	Quantifying influence of operational parameters on photocatalytic H <sub>2</sub> evolution over Pt-loaded nanocrystalline mesoporous TiO <sub>2</sub> prepared by single-step sol-gel process with surfactant template. <b>2007</b> , 165, 861-869	59
1831	Synthesis, characterization of TiO <sub>2</sub> nanotubes-supported MS (TiO <sub>2</sub> NTs@MS, M=Cd, Zn) and their photocatalytic activity. <b>2007</b> , 180, 2136-2142	46

1830	First-principles energy band calculation for undoped and S-doped TiO <sub>2</sub> with anatase structure. <b>2007</b> , 68, 206-210	39
1829	Photocatalytic oxidation of NO <sub>x</sub> by Pt-modified TiO <sub>2</sub> under visible light irradiation. <b>2007</b> , 188, 106-111	68
1828	Synthesis of nitrogen doped TiO <sub>2</sub> by grinding in gaseous NH <sub>3</sub> . <b>2007</b> , 189, 232-238	22
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1826	Multi-functional self-cleaning thermochromic films by atmospheric pressure chemical vapour deposition. <b>2007</b> , 189, 387-397	26
1825	Non-thermal plasma-induced photocatalytic degradation of 4-chlorophenol in water. <b>2007</b> , 141, 475-82	75
1824	Photocatalytic degradation of phenol in aqueous solutions by Pr-doped TiO <sub>2</sub> nanoparticles. <b>2007</b> , 149, 1-7	136
1823	A review and recent developments in photocatalytic water-splitting using TiO <sub>2</sub> for hydrogen production. <b>2007</b> , 11, 401-425	3189
1822	Synthesis, isolation, and redispersion of resorcinarene-capped anatase TiO <sub>2</sub> nanoparticles in nonaqueous solvents. <b>2007</b> , 310, 178-83	20
1821	Synthesis, characterization, and visible light activity of new nanoparticle photocatalysts based on silver, carbon, and sulfur-doped TiO <sub>2</sub> . <b>2007</b> , 311, 514-22	238
1820	Enhancement of photocatalytic activity of P25 TiO <sub>2</sub> by vanadium-ion implantation under visible light irradiation. <b>2007</b> , 311, 497-501	98
1819	Preparation and Photocatalytic Behaviors of Nanoporous Polyoxotungstate-Anatase TiO <sub>2</sub> Composites. <b>2007</b> , 25, 68-73	15
1818	Structural color in porous, superhydrophilic, and self-cleaning SiO <sub>2</sub> /TiO <sub>2</sub> Bragg stacks. <b>2007</b> , 3, 1445-51	197
1817	Effect of Precursor Ratio on Synthesis and Optical Absorption of TiON Photocatalytic Nanoparticles. <b>2007</b> , 90, 1045-1050	22
1816	Enhanced Visible-Light Photocatalytic Degradation of Humic Acid by Palladium-Modified Nitrogen-Doped Titanium Oxide. <b>2007</b> , 90, 070916223044002-???	7
1815	Pure versus metal-ion-doped nanocrystalline titania for photocatalysis. <b>2007</b> , 73, 51-59	180
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1813	Size dependent photocatalytic activity of hydrothermally crystallized titania nanoparticles on poorly adsorbing phenol in absence and presence of fluoride ion. <b>2007</b> , 72, 314-321	39

1812	Efficient destruction of pathogenic bacteria with AgBr/TiO <sub>2</sub> under visible light irradiation. <b>2007</b> , 73, 354-360	82
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1810	Preparation and photocatalysis of TiO <sub>2</sub> nanoparticles doped with nitrogen and cadmium. <b>2007</b> , 103, 264-269	26
1809	Preparation and photocatalytic activity of alkali titanate nano materials A <sub>2</sub> Ti <sub>n</sub> O <sub>2n+1</sub> (A=Li, Na and K). <b>2007</b> , 42, 334-344	87
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1806	Preparation, Photocatalytic Activity, and Mechanism of Nano-TiO <sub>2</sub> Co-Doped with Nitrogen and Iron (III). <b>2007</b> , 111, 10618-10623	438
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1791	Preparation of S-TiO <sub>2</sub> photocatalyst and photodegradation of L-acid under visible light. <b>2008</b> , 254, 5276-5280	61
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1507	Robust synthesis of bismuth titanate pyrochlore nanorods and their photocatalytic applications. <b>2009</b> , 5109-11	47

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1502	Efficient photoelectrochemical splitting of water to H <sub>2</sub> and O <sub>2</sub> at nanocrystalline carbon modified (CM)-n-TiO <sub>2</sub> and (CM)-n-Fe <sub>2</sub> O <sub>3</sub> thin films. <b>2010</b> , 7, 69	12
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1489	A photoelectrochemical and spectroscopic study of phenol and catechol oxidation on titanium dioxide nanoporous electrodes. <b>2010</b> , 55, 4661-4668	16

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1486	Visible-light-induced photocatalytic degradation of methylene blue with polyaniline-sensitized composite photocatalysts. <b>2010</b> , 48, 170-180	118
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1477	Preparation and Photocatalytic Performance of Anatase/Rutile Mixed-Phase TiO <sub>2</sub> Nanotubes. <b>2010</b> , 139, 129-133	42
1476	Synthesis and photocatalytic behaviors of Cr <sub>2</sub> O <sub>3</sub> /CNT/TiO <sub>2</sub> composite materials under visible light. <b>2010</b> , 45, 6611-6616	16
1475	Novel sol-gel synthesis of N-doped TiO <sub>2</sub> hollow spheres with high photocatalytic activity under visible light. <b>2010</b> , 55, 377-384	20
1474	An efficient composite growing N-doped TiO <sub>2</sub> on multi-walled carbon nanotubes through sol-gel process. <b>2010</b> , 12, 2503-2510	20
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1472	Photocatalytic activity of (sulfur, nitrogen)-codoped mesoporous TiO <sub>2</sub> thin films. <b>2010</b> , 36, 27-37	24
1471	Photocatalysis enhancement of CaAl <sub>2</sub> O <sub>4</sub> :Eu <sup>2+</sup> , Nd <sup>3+</sup> @TiO <sub>2</sub> composite powders. <b>2010</b> , 36, 51-59	9



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1469	Solvothermal synthesis and photocatalytic activity of S-doped TiO <sub>2</sub> and TiS <sub>2</sub> powders. <b>2010</b> , 36, 155-161	18
1468	Photocatalytic activity of visible light-responsive TiO <sub>2</sub> thin films deposited on various anodized Ti-metal substrates by a RF magnetron sputtering method. <b>2010</b> , 36, 319-326	3
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832	Fe and Ni co-doped TiO <sub>2</sub> nanoparticles prepared by alcohol-thermal method: Application in hydrogen evolution by water splitting under visible light irradiation. <b>2012</b> , 228, 210-218	108
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758	Synergistic Bacterial Stress Results from Exposure to Nano-Ag and Nano-TiO Mixtures under Light in Environmental Media. <b>2018</b> , 52, 3185-3194	27
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731	Synthesis of black TiO <sub>2</sub> with efficient visible-light photocatalytic activity by ultraviolet light irradiation and low temperature annealing. <b>2018</b> , 98, 280-287	38
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723	Photocatalytic Water Splitting by Suspended Semiconductor Particles. <b>2018</b> , 107-140	6
722	A comparative study of physicochemical and photocatalytic properties of visible light responsive Fe, Gd and P single and tri-doped TiO <sub>2</sub> nanomaterials. <b>2018</b> , 36, 72-85	41
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697	Enhanced Photocatalytic Activity of Titania by Co-Doping with Mo and W. <b>2018</b> , 8, 631	26

696	Production of Methanol as a Fuel Energy from CO <sub>2</sub> Present in Polluted Seawater - A Photocatalytic Outlook. <b>2018</b> , 16, 1089-1098	4
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694	Hydrophobicity and Photocatalytic Activity of a Wood Surface Coated with a Fe-Doped SiO <sub>2</sub> /TiO <sub>2</sub> Film. <b>2018</b> , 11,	10
693	Reduced Graphene Oxide/TiO <sub>2</sub> Nanotube Composite: Comprehensive Study for Gas-Sensing Applications. <b>2018</b> , 1, 7098-7105	37
692	Microstructure and Photocatalytic Properties of TiO <sub>2</sub> /Reduced Graphene Oxide Nanocomposites Prepared by Solvothermal Method. <b>2018</b> , 47, 7372-7379	5
691	A Brief Overview of TiO <sub>2</sub> Photocatalyst for Organic Dye Remediation: Case Study of Reaction Mechanisms Involved in Ce-TiO <sub>2</sub> Photocatalysts System. <b>2018</b> , 2018, 1-13	61
690	Decoration of SnO <sub>2</sub> nanosheets by AgI nanoparticles driven visible light for norfloxacin degradation. <b>2018</b> , 8, 2093-2102	21
689	Fabrication of Lattice-Doped TiO Nanofibers by Vapor-Phase Growth for Visible Light-Driven N Conversion to Ammonia. <b>2018</b> , 10, 37453-37460	15
688	Branched multiphase TiO <sub>2</sub> with enhanced photoelectrochemical water splitting activity. <b>2018</b> , 43, 21365-21373	1
687	Facile Synthesis by Peroxide Method and Microwave-Assisted Hydrothermal Treatment of TiO <sub>2</sub> with High Photocatalytic Efficiency for Dye Degradation and Hydrogen Production. <b>2018</b> , 3, 11454-11459	4
686	Modifications of Photocatalysts by Doping Methods. <b>2018</b> , 197-221	
685	Facile synthesis of recyclable Co <sub>3</sub> O <sub>4</sub> /Co(OH) <sub>2</sub> /RGO ternary heterostructures with synergistic effect for photocatalysis. <b>2018</b> , 20, 1	8
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675	A Review on the Electrochemically Self-organized Titania Nanotube Arrays: Synthesis, Modifications, and Biomedical Applications. <b>2018</b> , 13, 187	73
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672	Photocatalytic disinfection performance in virus and virus/bacteria system by Cu-TiO nanofibers under visible light. <b>2018</b> , 237, 452-459	56
671	Evaluation of TiO <sub>2</sub> /V <sub>2</sub> O <sub>5</sub> and N,F-doped-TiO <sub>2</sub> /V <sub>2</sub> O <sub>5</sub> nanocomposite photocatalysts toward reduction of Cr(VI) and oxidation reactions by OH radicals. <b>2018</b> , 65, 370-379	9
670	Characterization and photocatalytic properties of lutetium ion-doped titanium dioxide photocatalyst. <b>2018</b> , 44, 4577-4594	10
669	Iron doped TiO <sub>2</sub> films and their photoactivity in nitrobenzene removal from water. <b>2018</b> , 455, 201-215	43
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667	Incorporation of indium in TiO <sub>2</sub> -based photoanodes for enhancing the photovoltaic conversion efficiency of dye-sensitized solar cells. <b>2018</b> , 8, 1389-1397	4
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664	Field study of NO <sub>x</sub> degradation by a mineral-based air purifying paint. <b>2018</b> , 142, 70-82	21
663	Lanthanide-Doped Tellurite Glasses for Solar Energy Harvesting. <b>2018</b> , 249-273	
662	Selective aerobic photocatalytic oxidation of benzyl alcohol over spherical structured WO <sub>3</sub> /TiO <sub>2</sub> nanocomposite under visible light irradiation. <b>2018</b> , 87, 170-182	3
661	Adsorption and Oxidation Techniques to Remove Organic Pollutants from Water. <b>2018</b> , 249-300	4

660	Defect Evolution Enhanced Visible-Light Photocatalytic Activity in Nitrogen-Doped Anatase TiO <sub>2</sub> Thin Films. <b>2018</b> , 122, 16600-16606	15
659	Efficient Photocatalytic Reduction of CO <sub>2</sub> Present in Seawater into Methanol over Cu/C-Co-Doped TiO <sub>2</sub> Nanocatalyst Under UV and Natural Sunlight. <b>2018</b> , 229, 1	8
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657	(hbox {Sn}^{4+})-doped (hbox {TiO}_2) nanorod array film with enhanced visible light photocatalytic activity. <b>2018</b> , 41, 1	7
656	Synthesis, Characterization, and Photocatalytic Properties of Flower-like Mn-doped Ceria. <b>2018</b> , 21,	9
655	Noble metal free Fe and Cr dual-doped nanocrystalline titania (Ti <sub>1-x</sub> M <sub>x</sub> yO <sub>2</sub> ) for high selective photocatalytic conversion of benzene to phenol at ambient temperature. <b>2018</b> , 565, 1-12	8
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651	Synthesis of M (M=Co <sup>2+</sup> , Co <sup>2+</sup> /Ni <sup>2+</sup> )-doped FeS <sub>2</sub> Nanospheres with Enhanced Visible-light-induced Photocatalytic Activity. <b>2018</b> , 33, 802-811	4
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623	Pt/POMs/TiO composite nanofibers with an enhanced visible-light photocatalytic performance for environmental remediation. <b>2019</b> , 48, 13353-13359	22
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619	Synergistic effects of C, N, S, Fe-multidoped TiO <sub>2</sub> for photocatalytic degradation of methyl orange dye under UV and visible light irradiations. <b>2019</b> , 1, 1	3
618	Hierarchical CaTiO <sub>3</sub> nanowire-network architectures for H <sub>2</sub> evolution under visible-light irradiation. <b>2019</b> , 806, 889-896	20
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571	Synthesis, structures and applications of single component core-shell structured TiO <sub>2</sub> : A review. <b>2019</b> , 375, 122029	37

570	Preparation of Visible-light Responsive Rutile-TiO <sub>2</sub> (110) Wafer with Well-defined Surface by Chromium and Antimony Codoping. <b>2019</b> , 17, 5-9	
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538	Structural, optical and photoluminescence studies of sol-gel synthesized pure and iron doped TiO <sub>2</sub> photocatalysts. <b>2019</b> , 45, 25060-25068	43
537	Facile synthesis of chitosan-La-graphite composite and its influence in photocatalytic degradation of methylene blue. <b>2019</b> , 133, 253-261	25
536	Photocatalytic tandem reaction of primary alcohols with arylamines in the synthesis of amides and alkylquinolines in the presence of a heterogeneous Fe(CrO <sub>2</sub> ) <sub>2</sub> /TiO <sub>2</sub> /X system under aerobic conditions. <b>2019</b> , 68, 68-73	2
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532	Ruthenium-Modified Titanate Nanowires for the Photocatalytic Oxidative Removal of Organic Pollutants from Water. <b>2019, 2, 1341-1349</b>	11
531	Synthesis of ZnO doped high valence S element and study of photogenerated charges properties.. <b>2019, 9, 4422-4427</b>	20
530	Resonant and Selective Excitation of Photocatalytically Active Defect Sites in TiO. <b>2019, 11, 10351-10355</b>	1
529	Tailoring the geometric and electronic structure of tungsten oxide with manganese or vanadium doping toward highly efficient electrochemical and photoelectrochemical water splitting. <b>2019, 7, 6161-6172</b>	38
528	rGO/Fe-doped g-C <sub>3</sub> N <sub>4</sub> visible-light driven photocatalyst with improved NO removal performance. <b>2019, 375, 40-47</b>	14
527	Band structure modification of g-C <sub>3</sub> N <sub>4</sub> for efficient heterojunction construction and enhanced photocatalytic capability under visible light irradiation. <b>2019, 123, 44-48</b>	5
526	Effect of Fe and/or N on the photoactivity of TiO <sub>2</sub> prepared by sol-gel method. <b>2019,</b>	5
525	Intervalence charge transfer and thermodynamic effects on the photocatalytic performance of Fe/Mo single and codoped TiO <sub>2</sub> thin films. <b>2019, 1, 1</b>	2
524	Synthesis and characterisation of Sb-doped ZrO <sub>2</sub> and TiO <sub>2</sub> nanoparticles. <b>2019, 14, 286</b>	
523	Conversion of Organic Matter in Coal by Photocatalytic Oxidation with H <sub>2</sub> O <sub>2</sub> over SFC/TiO <sub>2</sub> in Isolated Oxygen System. <b>2019, 2019, 1-12</b>	
522	Zinc and boron co-doped nanotitania with enhanced photocatalytic degradation of Acid Red 6A under visible light irradiation. <b>2019, 29,</b>	5
521	Light-confining semiconductor nanoporous anodic alumina optical microcavities for photocatalysis. <b>2019, 7, 22514-22529</b>	13
520	Photocatalytic Dye Degradation Using Modified Titania. <b>2019, 171-199</b>	4
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518	. <b>2019,</b>	2
517	Synthesis of Plasmonic Photocatalysts for Water Splitting. <b>2019, 9, 982</b>	16

516	Degradation and mineralization of 4-tert-butylphenol in water using Fe-doped TiO catalysts. <b>2019</b> , 9, 19284	9
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513	Peptides of human body fluids as sensors of corrosion of titanium to titanium dioxide. SERS application. <b>2019</b> , 473, 107-120	5
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511	Microwave absorption of aluminum/hydrogen treated titanium dioxide nanoparticles. <b>2019</b> , 5, 133-146	46
510	The Technology Horizon for Photocatalytic Water Treatment: Sunrise or Sunset?. <b>2019</b> , 53, 2937-2947	277
509	Investigation of Ti/CuO interface by X-ray photoelectron spectroscopy and atomic force microscopy. <b>2019</b> , 51, 246-253	0
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507	Enhancement of photocatalytic activities in hierarchical BiOBr microflowers induced by oxygen vacancies. <b>2019</b> , 335, 193-199	38
506	Impact of Fe(III) ions on the structural and optical properties of anatase-type solid solutions. <b>2019</b> , 1179, 354-365	3
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504	Photocatalytic properties of TiO <sub>2</sub> and Fe-doped TiO <sub>2</sub> prepared by metal organic framework-mediated synthesis. <b>2019</b> , 360, 75-88	65
503	Hierarchical rutile/anatase TiO <sub>2</sub> nanorod/nanoflower thin film: Synthesis and characterizations. <b>2019</b> , 93, 252-259	15
502	Nitrogen-Doped Alkylamine-Intercalated Layered Titanates for Photocatalytic Dye Degradation. <b>2019</b> , 4, 1575-1580	5
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496	Diphenamid degradation via sulfite activation under visible LED using Fe (III) impregnated N-doped TiO <sub>2</sub> photocatalyst. <b>2019</b> , 244, 823-835	47
495	Photoelectrocatalytic oxidation of methanol over RuO <sub>2</sub> MnO <sub>2</sub> Co <sub>3</sub> O <sub>4</sub> supported porous anatase under visible light irradiation. <b>2019</b> , 224, 196-205	2
494	Synergy of adsorption and advanced oxidation processes in recalcitrant wastewater treatment. <b>2019</b> , 17, 1125-1142	35
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492	Layered by layered Ni-Mn-LDH/g-C <sub>3</sub> N <sub>4</sub> nanohybrid for multi-purpose photo/electrocatalysis: Morphology controlled strategy for effective charge carriers separation. <b>2019</b> , 242, 485-498	97
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489	Modification of TiO <sub>2</sub> with graphene oxide and reduced graphene oxide; enhancing photocatalytic activity of TiO <sub>2</sub> for removal of remazol Black B. <b>2019</b> , 40, 210-216	18
488	Visible light photocatalytic degradation of malachite green using modified titania. <b>2019</b> , 8, 299-308	22
487	Photoelectrochemical oxidation of phenol with nanostructured TiO <sub>2</sub> -PANI electrodes under solar light irradiation. <b>2019</b> , 208, 153-159	23
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457	Adsorption properties of pristine and Co-doped TiO <sub>2</sub> (1 0 1) toward dissolved gas analysis in transformer oil. <b>2020</b> , 507, 145163	53
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455	Synthesis and Characterizations of 3D TiO <sub>2</sub> Nanoflowers Thin Film: Hydrothermal Method. <b>2020</b> , 393, 2000040	3
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453	Synthesis of V- and Mo-doped/codoped TiO <sub>2</sub> powders for photocatalytic degradation of methylene blue. <b>2020</b> , 24, 100557	9
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449	Performance of photocatalytic cathodic protection of 20 steel by $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> system. <b>2020</b> , 385, 125445	6
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446	The influence of polyethylene glycol on characteristic of Fe-N-TiO <sub>2</sub> photocatalyst and its activity for water splitting. <b>2020</b> , 1567, 022022	
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426	One-Step Catalytic or Photocatalytic Oxidation of Benzene to Phenol: Possible Alternative Routes for Phenol Synthesis?. <b>2020</b> , 10, 1424	15
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391	Synthesis of 1D Bi <sub>12</sub> O <sub>17</sub> Cl <sub>x</sub> Br <sub>2-x</sub> nanotube solid solutions with rich oxygen vacancies for highly efficient removal of organic pollutants under visible light. <b>2020</b> , 269, 118774	18

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384	Fabrication of Yb-doped TiO <sub>2</sub> using liquid phase plasma process and its photocatalytic degradation activity of naproxen. <b>2020</b> , 55, 9665-9675	5
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382	Adsorption of dyes onto modified titanium dioxide. <b>2020</b> , 85-160	
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377	Novel synergistic combination of Cu/S co-doped TiO <sub>2</sub> nanoparticles incorporated as photoanode in dye sensitized solar cell. <b>2020</b> , 203, 296-303	29
376	Construction of carbon nanotube mediated Fe doped graphitic carbon nitride and Ag <sub>3</sub> VO <sub>4</sub> based Z-scheme heterojunction for H <sub>2</sub> O <sub>2</sub> assisted 2,4 dimethyl phenol photodegradation. <b>2020</b> , 247, 116957	26
375	Carbon Gels-Modified TiO: Promising Materials for Photocatalysis Applications. <b>2020</b> , 13,	9
374	Nanostructured Metal-Oxide Electrode Materials for Water Purification. <b>2020</b> ,	
373	Metal-oxide semiconductor photocatalysts for the degradation of organic contaminants. <b>2020</b> , 23-38	1

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371	Strain engineering of oxide thin films for photocatalytic applications. <b>2020</b> , 72, 104732	16
370	Optical and structural investigations on titanium oxynitride films for visible-UV photocatalytic applications. <b>2020</b> , 127, 135301	1
369	Photodynamic and photothermal synergistic behavior of triphenylamine-porphyrin nanoparticles for DNA interaction, cellular cytotoxicity and localization. <b>2020</b> , 31, 315101	4
368	Molecular Reaction Imaging of Single-Entity Photoelectrodes. <b>2020</b> , 5, 1474-1486	5
367	An Au-nanoparticle decorated Sr <sub>0.76</sub> Ce <sub>0.16</sub> WO <sub>4</sub> photocatalyst for H <sub>2</sub> evolution under visible-light irradiation. <b>2020</b> , 45, 12702-12710	9
366	Fluorination over Cr doped layered perovskite Sr <sub>2</sub> TiO <sub>4</sub> for efficient photocatalytic hydrogen production under visible light illumination. <b>2020</b> , 51, 30-38	9
365	N-Promoted Ru/TiO single-atom catalysts for photocatalytic water splitting for hydrogen production: a density functional theory study. <b>2020</b> , 22, 11392-11399	15
364	Enhanced thermal stability and photocatalytic property of highly ordered anodized TiO <sub>2</sub> nanotube arrays with interstitial nitrogen as dominant point defect. <b>2020</b> , 31, 8403-8412	1
363	Antimicrobial nanomaterials for water disinfection. <b>2020</b> , 365-383	2
362	Selective solar photocatalytic oxidation of benzyl alcohol to benzaldehyde over monodispersed Cu nanoclusters/TiO <sub>2</sub> /activated carbon nanocomposite. <b>2020</b> , 396, 112527	14
361	In-situ synthesis of titania nanosheet [CdS nanoparticle composites by combined hydrothermal ] selective adsorption and reaction for enhanced photocatalytic activity. <b>2021</b> , 41, 660-664	0
360	Improved adsorption and photocatalytic removal of methylene blue by MoO <sub>3</sub> thin films: Role of the sputtering power, film thickness, and sputtering working pressure. <b>2021</b> , 360, 138-146	13
359	Effect of metal ions doping on structural, optical properties and photocatalytic activity of anatase TiO <sub>2</sub> thin films. <b>2021</b> , 53, 194-205	3
358	Degradation and mineralization of erythromycin by heterogeneous photocatalysis using SnO <sub>2</sub> -doped TiO structured catalysts: Activity and stability. <b>2021</b> , 268, 128858	10
357	Design of porous Ga doped TiO <sub>2</sub> nanostructure for enhanced solar light photocatalytic applications. <b>2021</b> , 133, 111057	6
356	New insights on the enhanced non-hydroxyl radical contribution under copper promoted TiO/GO for the photodegradation of tetracycline hydrochloride. <b>2021</b> , 100, 99-109	15
355	Application of iron-based materials in heterogeneous advanced oxidation processes for wastewater treatment: A review. <b>2021</b> , 407, 127191	70

354	Physical and photocatalytic properties of Nd codoped (Ag, Cu)TiO <sub>2</sub> thin films. <b>2021</b> , 37, 784-794	0
353	Insight into the interaction of magnetic photocatalysts with the incoming light accelerating bacterial inactivation and environmental cleaning. <b>2021</b> , 281, 119420	13
352	Hydrogen evolution/spillover effect of single cobalt atom on anatase TiO <sub>2</sub> from first-principles calculations. <b>2021</b> , 536, 147831	2
351	Interface excess on Sb-doped TiO <sub>2</sub> photocatalysts and its influence on photocatalytic activity. <b>2021</b> , 47, 619-625	1
350	Engineering Si doping in anatase and rutile TiO <sub>2</sub> with oxygen vacancy for efficient optical application. <b>2021</b> , 602, 412502	3
349	Nanoenabled Photothermal Materials for Clean Water Production. <b>2021</b> , 5, 2000055	23
348	Influence of Fe <sup>3+</sup> ions doping on TiO <sub>2</sub> thin films: Defect generation, d-d transition and band gap tuning for optoelectronic device applications. <b>2021</b> , 604, 412618	7
347	Influence of ruthenium doping on UV- and visible-light photoelectrocatalytic color removal from dye solutions using a TiO nanotube array photoanode. <b>2021</b> , 267, 128925	6
346	Removal of organic pollutants from water by Fe <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> based photocatalytic degradation: A review. <b>2021</b> , 21, 101230	20
345	Ligand-free fabrication of Au/TiO <sub>2</sub> nanostructures for plasmonic hot-electron-driven photocatalysis: Photoelectrochemical water splitting and organic-dye degradation. <b>2021</b> , 860, 157908	20
344	Photocatalytic properties of SnO <sub>2</sub> /MoO <sub>3</sub> mixed oxides and their relation to the electronic properties and surface acidity. <b>2021</b> , 407, 113035	10
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341	Towards full-spectrum photocatalysis: Successful approaches and materials. <b>2021</b> , 610, 117966	12
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338	FeTi- SBA-15 magnetic nanocomposites with photocatalytic properties. <b>2021</b> , 366, 10-19	3
337	Chemical design principles of next-generation antiviral surface coatings. <b>2021</b> , 50, 9741-9765	5

336	Photocatalytic activity of undoped and Mn- and Co-doped TiO <sub>2</sub> nanocrystals incorporated in enamel coatings on stainless steel.	0
335	Titanium dioxide and graphitic carbon nitride-based nanocomposites and nanofibres for the degradation of organic pollutants in water: a review. <b>2021</b> , 28, 10357-10374	12
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333	Construction of TiO-MnO 0D-2D nanostructured heterojunction for enhanced photocatalytic hydrogen production. <b>2021</b> , 50, 8711-8717	0
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330	TiO-Based photocatalyst modified with a covalent triazine-based framework organocatalyst for carbamazepine photodegradation.. <b>2021</b> , 11, 6943-6951	2
329	CHAPTER 4:Nanomaterials and Their Modification for Environmental Remediation. <b>2021</b> , 79-100	
328	Recent Progress in Anodic Oxidation of TiO <sub>2</sub> Nanotubes and Enhanced Photocatalytic Performance: A Short Review. <b>2021</b> , 16, 2130002	5
327	Progress on photocatalytic semiconductor hybrids for bacterial inactivation. <b>2021</b> , 8, 2964-3008	2
326	Direct measurement and modeling of spontaneous charge migration across anataseBrookite nanoheterojunctions. <b>2021</b> , 9, 7782-7790	7
325	Doped semiconductor photocatalysts. <b>2021</b> ,	
324	Applications and Fundamentals of Photocatalysis with Solar Energy. <b>2021</b> , 27-66	0
323	TiO <sub>2</sub> -based materials for photocatalytic hydrogen production. <b>2021</b> , 211-240	
322	Visible-Light-Driven SO <sub>4</sub> <sup>2-</sup> /TiO <sub>2</sub> Photocatalyst Synthesized from Binh Dinh (Vietnam) Ilmenite Ore for Rhodamine B Degradation. <b>2021</b> , 2021, 1-13	0
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320	TiO <sub>2</sub> Photocatalysis for the Transformation of Aromatic Water Pollutants into Fuels. <b>2021</b> , 11, 317	14
319	Visible-light harvesting innovative W/Yb/TiO materials as a green methodology photocatalyst for the photodegradation of pharmaceutical pollutants. <b>2021</b> , 20, 401-420	2



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316	Optimal RE (RE = La, Y and Sm) doping conditions and the enhanced mechanism for photocatalytic application of ceria nanorods. <b>2021</b> ,	5
315	Tailoring the NIR range optical absorption, band-gap narrowing and ferromagnetic response in defect modulated TiO <sub>2</sub> nanocrystals by varying the annealing conditions. <b>2021</b> , 184, 109955	3
314	Photocatalytic Hydrogen Evolution. <b>2021</b> , 77-105	
313	Heterogeneous photocatalytic degradation of organic dyes by highly efficient GdCoSnO <sub>3</sub> . <b>2021</b> , 265, 115028	3
312	Advanced Electrochemical Oxidation Processes in the Treatment of Pharmaceutical Containing Water and Wastewater: a Review. <b>2021</b> , 7, 146-159	12
311	Synthesis and Characterization of Iron-Doped TiO <sub>2</sub> Nanoparticles Using Ferrocene from Flame Spray Pyrolysis. <b>2021</b> , 11, 438	7
310	Intensification of Heterogeneous Photocatalytic Reactions Without Efficiency Losses: The Importance of Surface Catalysis. <b>2021</b> , 151, 3105-3113	5
309	Titanium industrial residues surface modification towards its reuse as antimicrobial surfaces. <b>2021</b> , 28, 38224-38237	4
308	Improved photocatalytic oxidation of arsenic (III) with WO <sub>3</sub> /TiO <sub>2</sub> nanomaterials synthesized by the sol-gel method. <b>2021</b> , 282, 111602	12
307	An Efficient, Green, Microwave-assisted Synthesis of Benzo[a]furo[2, 3-c]phenazine Derivatives with TiO-SOH as Cost-effective and Recyclable Catalyst under Solventfree Conditions. <b>2021</b> , 18, 301-309	1
306	Advances in nanomaterials for heterogeneous photocatalysis. <b>2021</b> , 2, 012005	9
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304	Preparation of Fe and Co co-doped TiO <sub>2</sub> by precipitation method in an impinging stream-rotating packed bed for photodegradation of phenol wastewater. <b>2021</b> , 120, 134-143	1
303	Ag and Cu Nanoparticles Synergistically Enhance Photocatalytic CO <sub>2</sub> Reduction Activity of B Phase TiO <sub>2</sub> . 1	1
302	Research Progress on Catalytic Water Splitting Based on Polyoxometalate/Semiconductor Composites. <b>2021</b> , 11, 524	7
301	Recent Development in Defects Engineered Photocatalysts: An Overview of the Experimental and Theoretical Strategies.	17

300	TiO <sub>2</sub> /rGO/Cu <sub>2</sub> O ternary hybrid for high-performance photoelectrochemical applications. <b>2021</b> , 544, 148832	6
299	Hydrothermal Synthesis, Characterization and Exploration of Photocatalytic Activities of Polyoxometalate: Ni-CoWO <sub>4</sub> Nanoparticles. <b>2021</b> , 11, 456	3
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296	Photocatalytic removal of MB and hydrogen evolution in water by (Sr <sub>0.6</sub> Bi <sub>0.305</sub> ) <sub>2</sub> Bi <sub>2</sub> O <sub>7</sub> /TiO <sub>2</sub> heterostructures under visible-light irradiation. <b>2021</b> , 544, 148920	14
295	BiOCl ultrathin nanosheets modified with Fe <sup>3+</sup> for enhanced visible light driven photocatalytic activity. <b>2021</b> , 411, 113211	4
294	Surface-copper-doped WO <sub>3</sub> photoanode for photoelectrochemical water splitting. <b>2021</b> , 118, 223903	1
293	Size effect of Au nanoparticles in Au-TiO <sub>2</sub> -x photocatalyst. <b>2021</b> , 770, 138457	7
292	Paraquat degradation by photocatalysis: experimental design and optimization. <b>2021</b> , 56, 523-531	1
291	Synthesis of praseodymium titanate nanoparticles supported on core-shell silica coated magnetite via mild condition and their photocatalytic capability evaluation. <b>2021</b> , 32, 13527-13538	2
290	Synthesis and characterization of immobilized titanium-zirconium Sn-doped oxides onto metallic meshes and their photocatalytic activity for erythromycin mineralization. <b>2021</b> , 414, 128891	4
289	Orientational Alignment of Oxygen Vacancies: Electric-Field-Inducing Conductive Channels in TiO Film to Boost Photocatalytic Conversion of CO into CO. <b>2021</b> , 21, 5060-5067	3
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287	Photonic crystal light trapping for photocatalysis. <b>2021</b> , 29, 22376-22402	2
286	Ternary TiMoBe Nanotubes as Efficient Photoanodes for Solar-Assisted Water Splitting. <b>2021</b> , 125, 12504-12517	4
285	Ferric ion concentration-controlled aerobic photo-oxidation of benzylic C-H bond with high selectivity and conversion. <b>2021</b> , 93, 132298	3
284	Zn-doping mediated formation of oxygen vacancies in SnO <sub>2</sub> with unique electronic structure for efficient and stable photocatalytic toluene degradation. <b>2021</b> , 42, 1195-1204	15
283	Photoelectrocatalytic Degradation of Organic Compounds on Nanoscale Semiconductor Materials. <b>2021</b> , 57, 699-712	0

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281	Ultrafast Electron Injection and Recombination Dynamics of Coumarin 343-Sensitized Cerium Oxide Nanoparticles. <b>2021</b> , 125, 14827-14835	2
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278	The Mystery of Black TiO: Insights from Combined Surface Science and In Situ Electrochemical Methods. <b>2021</b> , 1, 157-168	1
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275	Ambient Light-Activated Antibacterial Material: Manganese Vanadium Oxide (MnVO).. <b>2021</b> , 4, 6903-6911	1
274	Photocatalytic PVDF ultrafiltration membrane blended with visible-light responsive Fe(III)-TiO <sub>2</sub> catalyst: Degradation kinetics, catalytic performance and reusability. <b>2021</b> , 417, 129340	18
273	A Review on Metal Ions Modified TiO <sub>2</sub> for Photocatalytic Degradation of Organic Pollutants. <b>2021</b> , 11, 1039	12
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270	Statistical optimization of open air dielectric barrier discharge plasma effect on self-cleaning activity of ultrasonically Cu <sub>2</sub> O/TiO <sub>2</sub> -coated cotton fabric. <b>2021</b> , 127, 1	1
269	Visible Range Activated Metal Oxide Photocatalysts in New and Emerging Energy Applications. <b>2022</b> , 787-815	1
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267	Broadband Solar Harvesting in Functional Electrode on Silicon for Hydrogen Generation.	
266	Recent advancements in strategies to improve performance of tungsten-based semiconductors for photocatalytic hydrogen production: a review. <b>2021</b> , 54, 503001	4
265	Preparation of TiO <sub>2</sub> -Based Photocatalysts Synergistically Modified with Fe <sup>3+</sup> Graphene and Their Visible-Light-Catalyzed Hydrogen Production from Ammonia Borane.	1

264	Controlled Impurity Admixture: From Doped Systems to Composites. <b>2021</b> , 151-183	
263	Efficient Hydrogen Production by an rGO/TiO <sub>2</sub> Composite Material from Ammonia Borane Hydrolysis in a Photocatalytic Reactor.	1
262	Synthesis and characterization of Bi <sub>2</sub> O <sub>3</sub> and Ag-Bi <sub>2</sub> O <sub>3</sub> and evaluation of their photocatalytic activities towards photodegradation of crystal violet dye. <b>2021</b> , 96, 125707	1
261	Strain-Induced Ferroelectric Heterostructure Catalysts of Hydrogen Production through Piezophototronic and Piezoelectrocatalytic System. <b>2021</b> , 15, 16106-16117	7
260	One-step synthesis of Cu/N co-doped TiO <sub>2</sub> nanocomposites with enhanced photocatalytic activities under visible-light irradiation. <b>2021</b> , 16, 573	1
259	Metal-doped titanium oxide films for suppressing potential-induced degradation of photovoltaic modules. <b>2021</b> , 129, 625-630	0
258	Plasmonic Au-based junctions onto TiO <sub>2</sub> , gC <sub>3</sub> N <sub>4</sub> , and TiO <sub>2</sub> -gC <sub>3</sub> N <sub>4</sub> systems for photocatalytic hydrogen production: Fundamentals and challenges. <b>2021</b> , 149, 111095	8
257	Lanthanide ions doped ZnO based photocatalysts. <b>2021</b> , 274, 118853	7
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252	Energy-efficient photothermal catalysis of rubber seed oil for the preparation of biofuel compounds. <b>2021</b> , 306, 121683	2
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242	V-doped TiO photocatalysts and their application to pollutant degradation. <b>2021</b> , 28, 24112-24123	1
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