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## Modified TiO<sub>2</sub> For Environmental Photocatalytic Applications: A Review

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Industrial & Engineering Chemistry Research, 2013, 52, 3581-3599.

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1203	Controlled synthesis of Bi <sub>2</sub> S <sub>3</sub> /ZnS microspheres by an in situ ion-exchange process with enhanced visible light photocatalytic activity. <b>2013</b> , 42, 12980-8		77
1202	Modification of TiO by Bimetallic Au-Cu Nanoparticles for Wastewater Treatment. <b>2013</b> , 1, 10829-10835		94
1201	Kinetics and Mechanism of Enhanced Photocatalytic Activity under Visible Light Using Synthesized PrxCd <sub>1-x</sub> Se Nanoparticles. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 13357-13369	3.9	45
1200	Enhanced photocatalytic performances of TiO <sub>2</sub> -graphene hybrids on nitro-aromatics reduction to amino-aromatics. <b>2013</b> , 3, 18002		53
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1198	High Conversion Efficiency of Dye-Sensitized Solar Cells Based on Coral-like TiO <sub>2</sub> Nanostructured Films: Synthesis and Physical Characterization. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 14837-14846	3.9	26
1197	Multifunctional gold-loaded TiO <sub>2</sub> thin film: photocatalyst and recyclable SERS substrate. <b>2013</b> , 91, 1112-1116		10
1196	Visible light responsive titania photocatalysts codoped by nitrogen and metal (Fe, Ni, Ag, or Pt) for remediation of aqueous pollutants. <b>2013</b> , 231, 18-25		77
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1055	Kinetic analysis of TiO <sub>2</sub> -catalyzed heterogeneous photocatalytic oxidation of ethylene using computational fluid dynamics. <b>2015</b> , 263, 325-335	28
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887	Mo-N-co-doped mesoporous TiO <sub>2</sub> microspheres with enhanced visible light photocatalytic activity. <b>2017</b> , 96, 10-17	15
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859	Synthesis of highly dispersed and versatile anatase TiO <sub>2</sub> nanocrystals on graphene sheets with enhanced photocatalytic performance for dye degradation. <b>2017</b> , 28, 18883-18890	7
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801	Controlled Ag-TiO <sub>2</sub> heterojunction obtained by combining physical vapor deposition and bifunctional surface modifiers. <b>2018</b> , 119, 147-156	14
800	Coupled model based on radiation transfer and reaction kinetics of gas-liquid-solid photocatalytic mini-fluidized bed. <b>2018</b> , 134, 172-185	7
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774	Characterization of Ca doped CeO <sub>2</sub> quantum dots and their applications in photocatalytic degradation. <b>2018</b> , 3, 38-47	22
773	Ecofriendly Nanomaterials for Sustainable Photocatalytic Decontamination of Organics and Bacteria. <b>2018</b> , 1-29	0

772	Treatment of saline produced water through photocatalysis using rGO-TiO <sub>2</sub> nanocomposites. <b>2018</b> , 315, 194-204	27
771	In situ glow discharge plasma electrolytic synthesis of reduced TiO <sub>2</sub> for enhanced visible light photocatalysis. <b>2018</b> , 5, 055022	5
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766	Single atom Cu(I) promoted mesoporous titanias for photocatalytic Methyl Orange depollution and H <sub>2</sub> production. <b>2018</b> , 232, 501-511	52
765	Characterization of Fe <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> Thin Films Prepared from Sonicated and Unsonicated Sols. <b>2018</b> , 762, 306-310	
764	Tuning the Phase and Microstructural Properties of TiO <sub>2</sub> Films Through Pulsed Laser Deposition and Exploring Their Role as Buffer Layers for Conductive Films. <b>2018</b> , 47, 2271-2276	6
763	Alizarin red S/TiO <sub>2</sub> -catalyzed cascade C(sp <sup>3</sup> ) to C(sp <sup>2</sup> ) bond formation/cyclization reactions toward tetrahydroquinoline derivatives under visible light irradiation. <b>2018</b> , 42, 6880-6888	19
762	Enhanced photocatalytic activity of TiO <sub>2</sub> /zeolite composite for abatement of pollutants. <b>2018</b> , 255, 61-68	93
761	Facile synthesis of Si <sub>3</sub> N <sub>4</sub> nanowires with enhanced photocatalytic application. <b>2018</b> , 212, 41-44	24
760	Fabrication of nanoporous polymeric crystalline TiO <sub>2</sub> composite for photocatalytic degradation of aqueous organic pollutants under visible light irradiation. <b>2018</b> , 32, e4119	14
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754	Modern Age Environmental Problems and their Remediation. <b>2018,</b>	11
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733	Systematic Investigation for the Photocatalytic Applications of Carbon Nitride/Porous Zeolite Heterojunction. <b>2018</b> , 3, 17261-17275	18
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728	Significantly Enhanced Aqueous Cr(VI) Removal Performance of Bi/ZnO Nanocomposites via Synergistic Effect of Adsorption and SPR-Promoted Visible Light Photoreduction. <b>2018</b> , 8, 426	15
727	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
726	Highly Efficient Photocatalytic Hydrogen on CoS/TiO <sub>2</sub> Photocatalysts from Aqueous Methanol Solution. <b>2018</b> , 2018, 1-6	7
725	Mechano-synthesized orange TiO shows significant photocatalysis under visible light. <b>2018</b> , 8, 15549	13
724	Synthesis of TiO <sub>2</sub> /Bi <sub>2</sub> MoO <sub>6</sub> Composite for Partial Oxidation of Aromatic Alkanes under Visible-Light Illumination. <b>2018</b> , 6, 17044-17050	42
723	One-pot solvothermal synthesis of carbon dots/Ag nanoparticles/TiO <sub>2</sub> nanocomposites with enhanced photocatalytic performance. <b>2018</b> , 44, 22481-22488	26
722	Automated Control of Plasma Ion-Assisted Electron Beam-Deposited TiO <sub>2</sub> Optical Thin Films. <b>2018</b> , 8, 272	1
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720	WS and C-TiO Nanorods Acting as Effective Charge Separators on g-C <sub>3</sub> N <sub>4</sub> to Boost Visible-Light Activated Hydrogen Production from Seawater. <b>2018</b> , 11, 4077-4085	50
719	Synthesis of silver and sulphur codoped TiO <sub>2</sub> nanoparticles for photocatalytic degradation of methylene blue. <b>2018</b> , 29, 18111-18119	8

7 <sup>18</sup>	Facile method for decorations of Au nanoparticles on TiO <sub>2</sub> nanorod arrays toward high-performance recyclable SERS substrates. <b>2018</b> , 277, 102-113	25
7 <sup>17</sup>	One-Step Hydrothermal Synthesis of Bi <sub>2</sub> S <sub>3</sub> -TiO <sub>2</sub> -RGO Composites with Enhanced Visible Light Photocatalytic Activities. <b>2018</b> , 13, 1850051	5
7 <sup>16</sup>	Photodegradation of pharmaceuticals and personal care products in water treatment using carbonaceous-TiO composites: A critical review of recent literature. <b>2018</b> , 142, 26-45	201
7 <sup>15</sup>	A facile synthesis and characterization of BiMoO <sub>3</sub> nanoneedles and nanoplates for visible-light photocatalytic application. <b>2018</b> , 102, 146-152	11
7 <sup>14</sup>	Novel one-step synthesis of nitrogen-doped TiO <sub>2</sub> by flame aerosol technique for visible-light photocatalysis: Effect of synthesis parameters and secondary nitrogen (N) source. <b>2018</b> , 350, 324-334	51
7 <sup>13</sup>	Novel carbon modified KTa <sub>0.75</sub> Nb <sub>0.25</sub> O <sub>3</sub> nanocubes with excellent efficiency in photocatalytic H <sub>2</sub> evolution. <b>2018</b> , 233, 486-496	22
7 <sup>12</sup>	Insight in to the degradation of bisphenol A by doped ZnO@ZnHCF nanocubes: High photocatalytic performance. <b>2018</b> , 530, 16-28	38
7 <sup>11</sup>	Structure-activity relationship of TiO <sub>2</sub> based trimetallic oxide towards 1,2-dichlorobenzene photodegradation: Influence of preparation method and its mechanism. <b>2018</b> , 351, 708-720	3
7 <sup>10</sup>	P3HT:spiro-OMeTAD blending system as a hole conductor for solid-state hybrid solar cells with a dendritic TiO <sub>2</sub> /Sb <sub>2</sub> S <sub>3</sub> nanorod composite structure. <b>2018</b> , 42, 12754-12761	4
7 <sup>09</sup>	Acidic ionic liquids: an alternative to HF for {001} reactive facet controlled synthesis of anatase titania. <b>2018</b> , 42, 12762-12765	8
7 <sup>08</sup>	UV-blue spectral down-shifting of titanium dioxide nano-structures doped with nitrogen on the glass substrate to study its anti-bacterial properties on the E. Coli bacteria. <b>2018</b> , 13, 11-21	7
7 <sup>07</sup>	Study of photoelectrochemical water splitting using films based on deposited TiO <sub>2</sub> nanotubes. <b>2018</b> , 124, 1	9
7 <sup>06</sup>	Facile encapsulation of P25 (TiO <sub>2</sub> ) in spherical silica with hierarchical porosity with enhanced photocatalytic properties for gas-phase propene oxidation. <b>2018</b> , 564, 123-132	13
7 <sup>05</sup>	Synthesis and theoretical study of large-sized Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> square nanosheets with high photocatalytic activity. <b>2018</b> , 107, 180-188	92
7 <sup>04</sup>	Enhanced photo and sono-photo degradation of crystal violet dye in aqueous solution by 3D flower like F-TiO <sub>2</sub> (B)/fullerene under visible light. <b>2018</b> , 365, 45-51	26
7 <sup>03</sup>	Boron-doped TiO <sub>2</sub> /CNTs nanocomposites for photocatalytic application. <b>2018</b> , 29, 16660-16672	13
7 <sup>02</sup>	Synthesis of N-doped mesoporous TiO <sub>2</sub> by facile one-step solvothermal process for visible light photocatalytic degradation of organic pollutant. <b>2018</b> , 6, 5125-5134	14
7 <sup>01</sup>	Carbon Nanotube-Supported Mn-TiO <sub>2</sub> as a Visible Light-Activated Photocatalyst. <b>2018</b> , 11,	

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699	Enhanced Photocatalytic Efficiency of TiO <sub>2</sub> Membrane Decorated with Ag and Au Nanoparticles. <b>2018</b> , 8, 945	3
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691	Recent trend in visible-light photoelectrocatalytic systems for degradation of organic contaminants in water/wastewater. <b>2018</b> , 4, 1389-1411	73
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686	Band Gap Implications on Nano-TiO <sub>2</sub> Surface Modification with Ascorbic Acid for Visible Light-Active Polypropylene Coated Photocatalyst. <b>2018</b> , 8,	31
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591	Environmental Remediation Applications of Carbon Nanotubes and Graphene Oxide: Adsorption and Catalysis. <b>2019</b> , 9,	64
590	Dual-Functional Photocatalysis for Simultaneous Hydrogen Production and Oxidation of Organic Substances. <b>2019</b> , 9, 4247-4270	122
589	Novel H3PW12O40/TiO2-g-C3N4 type-II heterojunction photocatalyst with enhanced visible-light photocatalytic properties. <b>2019</b> , 274, 152-161	20
588	Effects of N Doping on the Microstructures and Optical Properties of TiO2. <b>2019</b> , 34, 55-63	18
587	Poly(3-hexylthiophene) Nanoparticles Prepared via a Film Shattering Process and Hybridization with TiO2 for Visible-Light Active Photocatalysis. <b>2019</b> , 27, 427-434	9
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585	Reinforced photocatalytic reduction of SnO2 nanoparticle by La incorporation for efficient photodegradation under visible light irradiation. <b>2019</b> , 30, 8479-8492	8
584	Immobilized and photocatalytic performances of PDMS-SiO2-chitosan@TiO2 composites on pumice under simulated sunlight irradiation. <b>2019</b> , 478, 1017-1026	16
583	Development of multifunctional food packaging films based on chitosan, TiO2 nanoparticles and anthocyanin-rich black plum peel extract. <b>2019</b> , 94, 80-92	150
582	Metal/Semiconductor Nanocomposites for Photocatalysis: Fundamentals, Structures, Applications and Properties. <b>2019</b> , 9,	51
581	Non-metal (Oxygen, Sulphur, Nitrogen, Boron and Phosphorus)-Doped Metal Oxide Hybrid Nanostructures as Highly Efficient Photocatalysts for Water Treatment and Hydrogen Generation. <b>2019</b> , 83-105	16
580	New Bi2O3-ZnO composite deposited on glass wool. Effect of the synthesis method on photocatalytic efficiency under visible light. <b>2019</b> , 483, 859-869	12
579	A sono-photocatalyst for humic acid removal from water: Operational parameters, kinetics and mechanism. <b>2019</b> , 57, 242-252	23
578	Synthesis and characterization of black TiO2 nanoparticles by pulsed laser irradiation in liquid. <b>2019</b> , 483, 156-164	41
577	Preparation of various boron-doped TiO2 nanostructures by in situ anodizing method and investigation of their photoelectrochemical and photocathodic protection properties. <b>2019</b> , 16, 1839-1851	31
576	MoS2/CdS/TiO2 ternary composite incorporated into carbon nanofibers for the removal of organic pollutants from water. <b>2019</b> , 102, 113-119	18
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571	Performance and kinetic modelling of photolytic and photocatalytic ozonation for enhanced micropollutants removal in municipal wastewaters. <b>2019</b> , 249, 211-217	37
570	Synthesis of Pure Brookite Nanorods in a Nonaqueous Growth Environment. <b>2019</b> , 9, 562	15
569	Titania nanoparticles coated on polycarbonate car headlights for self-cleaning purpose. <b>2019</b> , 1321, 022032	0
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566	Identification and photolytic characteristics of benzoquinone intermediates in photo Fenton system. <b>2019</b> , 1-15	2
565	A kinetic model for the photocatalytic reduction of CO <sub>2</sub> to methanol pathways. <b>2019</b> , 702, 012026	
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563	Stepwise preparation of Ti-doped functionalized carbon nitride nanoparticles and hybrid TiO/graphitic-CN for detection of free residual chlorine and visible-light photocatalysis. <b>2019</b> , 55, 13848-13851 <sup>2</sup>	
562	TiO <sub>2</sub> microrods with stacked 3D nanovoids for photoelectrochemical water splitting. <b>2019</b> , 91, 1733-1747	0
561	Nanostructured Materials for Treating Aquatic Pollution. <b>2019</b> ,	2
560	Nanostructured Metallic Oxides for Water Remediation. <b>2019</b> , 91-119	1
559	Influence of temperature on preparing mesoporous mixed phase N/TiO <sub>2</sub> nanocomposite with enhanced solar light photocatalytic activity. <b>2019</b> , 13, 352-366	6
558	Benign Hydrothermal Synthesis of N-doped TiO <sub>2</sub> and TiO <sub>2</sub> -CoS Nanostructures for Enhanced Visible-Light Driven Photocatalytic Activity. <b>2019</b> , 4, 12464-12471	5
557	Visible-Light Activated Titania and Its Application to Photoelectrocatalytic Hydrogen Peroxide Production. <b>2019</b> , 12,	11

556	Enhancement of photoelectrochemical organics degradation and power generation by electrodeposited coatings of g-C <sub>3</sub> N <sub>4</sub> and graphene on TiO <sub>2</sub> nanotube arrays. <b>2019</b> , 1, 4128-4136	4
555	Salicylic acid-sensitized titanium dioxide for photocatalytic degradation of fast green FCF under visible light irradiation. <b>2019</b> , 14, 359-362	3
554	Er and Mg co-doped TiO <sub>2</sub> nanorod arrays and improvement of photovoltaic property in perovskite solar cell. <b>2019</b> , 771, 649-657	13
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552	Continuous Photocatalysis Based on Layer-by-Layer Assembly of Separation-Free TiO <sub>2</sub> /Reduced Graphene Oxide Film Catalysts with Increased Charge Transfer and Active Site. <b>2019</b> , 2019, 721-729	5
551	Photocatalytic degradation of bisphenol A induced by dense nanocavities inside aligned 2D-TiO <sub>2</sub> nanostructures. <b>2019</b> , 328, 189-201	4
550	Photocatalytic degradation of organic pollutants from wastewater using aluminium doped titanium dioxide. <b>2019</b> , 27, 177-184	23
549	Synthesis, characterization and photocatalytic activity evaluation of TiO <sub>2</sub> /ZnO nanocomposites: Elucidating effect of varying Ti:Zn molar ratio. <b>2019</b> , 565, 47-58	28
548	Functionalized structures based on shape-controlled TiO <sub>2</sub> . <b>2019</b> , 473, 603-613	7
547	Enhanced Visible Light Sensitization of N-Doped TiO <sub>2</sub> Nanotubes Containing Ti-Oxynitride Species Fabricated via Electrochemical Anodization of Titanium Nitride. <b>2019</b> , 123, 2189-2201	14
546	Chemical state and coordination structure of La cations doped in KTaO <sub>3</sub> photocatalysts. <b>2019</b> , 127, 94-100	9
545	CdTe Quantum Dot-Functionalized P25 Titania Composite with Enhanced Photocatalytic NO Storage Selectivity under UV and Vis Irradiation. <b>2019</b> , 11, 865-879	8
544	Synthesis of Ag nanoparticles decorated on TiO <sub>2</sub> nanotubes for surface adsorption and photo-decomposition of methylene blue under dark and visible light irradiation. <b>2019</b> , 45, 1829-1840	3
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542	Wide spectrum photocatalytic activity in lanthanide-doped upconversion nanophosphors coated with porous TiO and Ag-Cu bimetallic nanoparticles. <b>2019</b> , 367, 694-705	70
541	Morphological, spectroscopic and photocatalytic properties of Eu <sup>3+</sup> :TiO <sub>2</sub> synthesized by solid-state and hydrothermal-assisted sol-gel processes. <b>2019</b> , 45, 3675-3679	12
540	Enhancing interfacial charge transfer on novel 3D/1D multidimensional MoS <sub>2</sub> /TiO <sub>2</sub> heterojunction toward efficient photoelectrocatalytic removal of levofloxacin. <b>2019</b> , 295, 810-821	30
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538	AgCl/Ag/LaFeO <sub>3</sub> heterojunction with a prolonged charge lifetime and enhanced visible light catalytic property. <b>2019</b> , 127, 186-193		10
537	Silver decorated Cu/ZnO photocomposite: efficient green degradation of malachite. <b>2019</b> , 30, 3629-3638		10
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535	Fabrication of high efficiency visible light Z-scheme heterostructure photocatalyst g-C <sub>3</sub> N <sub>4</sub> /FeO(1%)/TiO <sub>2</sub> and degradation of rhodamine B and antibiotics. <b>2019</b> , 96, 463-472		24
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531	Decoration of zinc oxide nanospheres by platinum nanoparticles driven visible light for hydrogen evolution. <b>2019</b> , 9, 461-467		1
530	Effect of calcination on structure and photocatalytic property of N-TiO <sub>2</sub> /g-CN@diatomite hybrid photocatalyst for improving reduction of Cr(VI). <b>2019</b> , 245, 53-62		71
529	Fabrication of nanometer-sized high-silica SAPO-5 and its enhanced photocatalytic performance for methyl orange degradation. <b>2019</b> , 45, 1457-1473		4
528	Fabrication of Highly Efficient and Hierarchical CdS QDs/CQDs/H-TiO <sub>2</sub> Ternary Heterojunction: Surpassable Photocatalysis under Sun-like Illumination. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 79-91	3.9	19
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523	Synthesis of visible light driven TiO <sub>2</sub> coated carbon nanospheres for degradation of dyes. <b>2019</b> , 12, 3534-3545		29
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521	Synthesis of Cr-doped TiO nanoparticles: characterization and evaluation of their visible photocatalytic performance and stability. <b>2019</b> , 40, 144-153		10

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503	Reaction intermediates during the photocatalytic degradation of emerging contaminants under visible or solar light. <b>2020</b> , 163-193	



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498	Doping engineering of V-TiO <sub>2</sub> for its use as corrosion inhibitor. <b>2020</b> , 816, 152545	8
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491	Structure and photocatalytic activity of Ti <sup>3+</sup> self-doped TiO <sub>2</sub> flower shaped nanospheres. <b>2020</b> , 18, 100426	4
490	Phase transformations, vacancy formation and variations of optical and photocatalytic properties in TiO <sub>2</sub> -ZnO composites by high-pressure torsion. <b>2020</b> , 124, 170-185	28
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480	Modification and photocatalytic activity of open channel TiO <sub>2</sub> nanotubes array synthesized by anodization process. <b>2020</b> , 534, 147581	7
479	Impact of surface adsorbed biologically and environmentally relevant coatings on TiO <sub>2</sub> nanoparticle reactivity. <b>2020</b> , 7, 3783-3793	4
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476	Fast Microwave Synthesis of Gold-Doped TiO <sub>2</sub> Assisted by Modified Cyclodextrins for Photocatalytic Degradation of Dye and Hydrogen Production. <b>2020</b> , 10, 801	5
475	Efficient degradation of nonylphenol and 2,4-dinitrophenol by sunlight responsive hexacyanocobaltates nanostructures. <b>2020</b> , 14, 100325	5
474	CuInS <sub>2</sub> nanoparticles embedded in mesoporous TiO <sub>2</sub> nanofibers for boosted photocatalytic hydrogen production. <b>2020</b> , 8, 11001-11007	14
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461	Fabrication of CdS/P <sub>2</sub> MoxW <sub>18-x</sub> nanospheres with type II heterostructure for photocatalytic reduction of hexavalent chromium. <b>2020</b> , 120, 105276	4
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458	Kinetic study of air treatment by photocatalytic paints under indoor radiation source: Influence of ambient conditions and photocatalyst content. <b>2020</b> , 268, 118694	17
457	Efficient photocatalytic degradation of gaseous toluene over F-doped TiO <sub>2</sub> /exfoliated bentonite. <b>2020</b> , 530, 147286	25
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453	Fabrication of highly uniform Ag nanoparticle-TiO <sub>2</sub> nanosheets array hybrid as reusable SERS substrates. <b>2020</b> , 39, 100324	5
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449	Core-crown Quantum Nanoplatelets with Favorable Type-II Heterojunctions Boost Charge Separation and Photocatalytic NO Oxidation on TiO <sub>2</sub> . <b>2020</b> , 12, 6329-6343	6

448	Degradation of Direct Blue 1 through Heterogeneous Photocatalysis with TiO <sub>2</sub> Irradiated with E-Beam. <b>2020</b> , 8, 1181	0
447	Photocatalytically Driven Self-Cleaning and Underwater Superoleophobic Copper Mesh Modified with Hierarchical Bi <sub>2</sub> WO <sub>6</sub> @CuO Nanowires for Oil/Water Separation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 16450-16461	3.9 25
446	High Performance Magnetically Separable G-C <sub>3</sub> N <sub>4</sub> /Fe <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> Nanocomposite with Boosted Photocatalytic Capability towards the Cefixime Trihydrate Degradation under Visible-Light. <b>2020</b> , 5, 10114-10127	3
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442	Synthesis of N doped-CQDs/Ni doped-ZnO nanocomposites for visible light photodegradation of organic pollutants. <b>2020</b> , 8, 103821	12
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434	Controlling the growth of nanosized titania polymer gelation for photocatalytic applications.. <b>2020</b> , 10, 19443-19453	
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