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Highly photoactive, low bandgap TiO<sub>2</sub> nanoparticles wrapped by graphene

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813	Progress in graphene-based photoactive nanocomposites as a promising class of photocatalyst. <b>2012</b> , 4, 5814-25		128
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690	Visible-light-responsive bicrystalline (anatase/brookite) nanoporous nitrogen-doped TiO <sub>2</sub> photocatalysts by plasma treatment. <b>2014</b> , 254, 268-275		35
689	Removal of Congo Red by magnetic mesoporous titanium dioxide-graphene oxide core-shell microspheres for water purification. <b>2014</b> , 43, 8431-8		68
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684	Electrostatic self-assembly of BiVO <sub>4</sub> -reduced graphene oxide nanocomposites for highly efficient visible light photocatalytic activities. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 12698-706	9.5	136
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676	Artificial photosynthesis over graphene-semiconductor composites. Are we getting better?. <b>2014</b> , 43, 8240-54	477
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672	Ternary polyaniline/graphene/TiO <sub>2</sub> hybrid with enhanced activity for visible-light photo-electrocatalytic water oxidation. <b>2014</b> , 2, 1068-1075	60
671	A nanotree-like CdS/ZnO nanocomposite with spatially branched hierarchical structure for photocatalytic fine-chemical synthesis. <b>2014</b> , 6, 7193-8	89
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661	Optical and photocatalytic properties of novel heterogeneous PtSe <sub>2</sub> -graphene/TiO <sub>2</sub> nanocomposites synthesized via ultrasonic assisted techniques. <b>2014</b> , 21, 1849-57	33

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658	Effect of electron withdrawing unit for dye-sensitized solar cell based on D-A- $\pi$ organic dyes. <b>2014</b> , 58, 93-96	12
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651	Hybridization of Graphene in 3D Complex Nanovoids: Synergistic Nanocomposites for Electrocatalytic Reduction of Hydrogen Peroxide. <b>2015</b> , 180, 1014-1022	14
650	Photocatalytically Renewable Micro-electrochemical Sensor for Real-Time Monitoring of Cells. <b>2015</b> , 127, 14610-14614	5
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647	Photokatalysatoren auf Graphenbasis für die Produktion von Solarbrennstoffen. <b>2015</b> , 127, 11508-11524	42
646	Freestanding 3D Graphene/Nickel Encapsulated Nitrogen-Rich Aligned Bamboo Like Carbon Nanotubes for High-Performance Supercapacitors with Robust Cycle Stability. <b>2015</b> , 2, 1500191	74
645	Carbon-Dot-Sensitized, Nitrogen-Doped TiO <sub>2</sub> in Mesoporous Silica for Water Decontamination through Nonhydrophobic Enrichment-Degradation Mode. <b>2015</b> , 21, 17944-50	34
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641	Micro-/Nanostructured Highly Crystalline Organic Semiconductor Films for Surface-Enhanced Raman Spectroscopy Applications. <b>2015</b> , 25, 5669-5676	48
640	Photocatalyst Interface Engineering: Spatially Confined Growth of ZnFe <sub>2</sub> O <sub>4</sub> within Graphene Networks as Excellent Visible-Light-Driven Photocatalysts. <b>2015</b> , 25, 7080-7087	107
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629	Outstanding field emission properties of wet-processed titanium dioxide coated carbon nanotube based field emission devices. <b>2015</b> , 106, 073501	21
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509	Facile synthesis and excellent electrochemical performance of reduced graphene oxide@Co <sub>3</sub> O <sub>4</sub> yolk-shell nanocages as a catalyst for oxygen evolution reaction. <b>2016</b> , 4, 13534-13542		103
508	Fabrication of a Contamination-Free Interface between Graphene and TiO Single Crystals. <b>2016</b> , 1, 168-176		21
507	Low-temperature NO <sub>2</sub> gas sensor fabricated with NiO and reduced graphene oxide hybrid structure. <b>2016</b> , 84, 168-176		50
506	Pd Nanoparticles Decorated N-Doped Graphene Quantum Dots@N-Doped Carbon Hollow Nanospheres with High Electrochemical Sensing Performance in Cancer Detection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 22563-73	9.5	130
505	Characterization and comparison of photocatalytic activities of prepared TiO <sub>2</sub> /graphene nanocomposites using titanium butoxide and TiO <sub>2</sub> via microwave irradiation method. <b>2016</b> , 3, 085601		18
504	Vapor-Dissociation-Solid Growth of Three-Dimensional Graphite-like Capsules with Delicate Morphology and Atomic-level Thickness Control. <b>2016</b> , 16, 5040-5048		22
503	Z-Scheme Photocatalytic Systems for Promoting Photocatalytic Performance: Recent Progress and Future Challenges. <b>2016</b> , 3, 1500389		446
502	Highly efficient photocatalytic activity of CuO quantum dot decorated rGO nanocomposites. <b>2016</b> , 49, 315107		25
501	Introduction of holes into graphene sheets to further enhance graphene/TiO <sub>2</sub> photocatalysis activities. <b>2016</b> , 6, 84068-84073		15
500	Enhanced photocatalytic activity of TiO <sub>2</sub> with poly(AA-DVB). <b>2016</b> , 51, 10585-10595		5
499	Review on charge transfer and chemical activity of TiO <sub>2</sub> : Mechanism and applications. <b>2016</b> , 91, 183-202		58

498	Metal link: A strategy to combine graphene and titanium dioxide for enhanced hydrogen production. <b>2016</b> , 41, 22034-22042	16
497	Sonocrystallization of ZIF-8 on Electrostatic Spinning TiO <sub>2</sub> Nanofibers Surface with Enhanced Photocatalysis Property through Synergistic Effect. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 20274-20282	128
496	Solvothermal synthesis of anatase TiO <sub>2</sub> -graphene oxide nanocomposites and their photocatalytic performance. <b>2016</b> , 688, 123-129	104
495	Fabrication of highly active Melem/Zn <sub>0.25</sub> Cd <sub>0.75</sub> S composites for the degradation of bisphenol A and methyl orange under visible light irradiation. <b>2016</b> , 387, 513-520	6
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493	Effect of microwave power on created defects in graphene sheet of synthesized TiO <sub>2</sub> /graphene nanocomposite with enhanced photocatalytic performance. <b>2016</b> , 4, 1-8	15
492	Hydrothermal etching fabrication of TiO <sub>2</sub> @graphene hollow structures: mutually independent exposed {001} and {101} facets nanocrystals and its synergistic photocatalytic effects. <b>2016</b> , 6, 33839	40
491	Nanohybrids of RGO nanosheets and 2-dimensional porous Co <sub>3</sub> O <sub>4</sub> nanoflakes working as highly efficient counter electrodes for dye-sensitized solar cells. <b>2016</b> , 4, 10323-10328	28
490	Irreversible phase transition in BiVO <sub>4</sub> nanostructures synthesized by a polyol method and enhancement in photo degradation of methylene blue. <b>2016</b> , 6, 107463-107474	39
489	Low-threshold optical bistability of graphene-wrapped dielectric composite. <b>2016</b> , 6, 23354	26
488	Facile route to a conducting ternary polyaniline@TiO <sub>2</sub> /GN nanocomposite for environmentally benign applications: photocatalytic degradation of pollutants and biological activity. <b>2016</b> , 6, 111308-111317	37
487	A Reduced Graphene Oxide (rGO)-Ferroelectrics Hybrid Nanocomposite as High Efficient Visible-Light-Driven Photocatalyst. <b>2016</b> , 1, 6020-6025	5
486	Facile hydrothermal reduction synthesis of porous Co <sub>3</sub> O <sub>4</sub> nanosheets@RGO nanocomposite and applied as a supercapacitor electrode with enhanced specific capacitance and excellent cycle stability. <b>2016</b> , 222, 976-982	31
485	Chapter 6 Graphene: A New Star Nanomaterial in Energy and Environment Applications. <b>2016</b> , 273-306	
484	Ultrafast Heating for Intrinsic Properties of Atomically Thin Two-Dimensional Materials on Plastic Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 31222-31230	9.5 5
483	TiO nanotubes wrapped with reduced graphene oxide as a high-performance anode material for lithium-ion batteries. <b>2016</b> , 6, 36580	64
482	Defect engineering of ZnO nanoparticles by graphene oxide leading to enhanced visible light photocatalysis. <b>2016</b> , 425, 310-321	47
481	Graphene in Photocatalysis: A Review. <b>2016</b> , 12, 6640-6696	605

480	Facile hybridization of Ni@Fe <sub>2</sub> O <sub>3</sub> superparticles with functionalized reduced graphene oxide and its application as anode material in lithium-ion batteries. <b>2016</b> , 478, 155-63		14
479	Photocatalytic degradation of indigo carmine using Nd-doped TiO <sub>2</sub> -decorated graphene oxide nanocomposites. <b>2016</b> , 80, 38-49		32
478	Bismuth-based compounds crystals growth on graphene with various degrees of oxidation. <b>2016</b> , 684, 21-28		10
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475	Probing the Effects of Templating on the UV and Visible Light Photocatalytic Activity of Porous Nitrogen-Modified Titania Monoliths for Dye Removal. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 17194-204	9.5	27
474	Atomic thin titania nanosheet-coupled reduced graphene oxide 2D heterostructures for enhanced photocatalytic activity and fast lithium storage. <b>2016</b> , 12, 211-218		12
473	The synthesis of 3D urchin-like TiO <sub>2</sub> -reduced graphene micro/nano structure composite and its enhanced photocatalytic properties. <b>2016</b> , 42, 12482-12489		22
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470	Effective charge separation and enhanced photocatalytic activity by the heterointerface in MoS <sub>2</sub> /reduced graphene oxide composites. <b>2016</b> , 6, 60318-60326		25
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465	Composites of metal-organic frameworks and carbon-based materials: preparations, functionalities and applications. <b>2016</b> , 4, 3584-3616		236
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461	Photocatalytic ozonation of oxalic acid by g-C <sub>3</sub> N <sub>4</sub> /graphene composites under simulated solar irradiation. <b>2016</b> , 315, 138-144		34
460	Enhanced photocatalytic degradation of rhodamine B under visible light irradiation on mesoporous anatase TiO <sub>2</sub> microspheres by codoping with W and N. <b>2016</b> , 54, 49-53		12
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457	Visible-light-driven high photocatalytic activities of Cu/g-C <sub>3</sub> N <sub>4</sub> photocatalysts for hydrogen production. <b>2016</b> , 6, 34633-34640		50
456	TiO <sub>2</sub> /multi-walled carbon nanotube nanocomposites: hydrothermal synthesis and temporally-dependent optical properties. <b>2016</b> , 6, 20120-20127		22
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454	A general precursor strategy for one-dimensional titania with surface nanoprotrusion and tunable structural hierarchy. <b>2016</b> , 18, 1321-1328		6
453	Rational Design of Fe <sub>2</sub> O <sub>3</sub> /Reduced Graphene Oxide Composites: Rapid Detection and Effective Removal of Organic Pollutants. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 6431-8	9.5	73
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450	Enhanced photo-degradation of bisphenol a under simulated solar light irradiation by ZnO mixed metal oxides loaded on graphene from aqueous media. <b>2016</b> , 6, 26495-26504		19
449	Preparation of BaSnO <sub>3</sub> and Ba <sub>0.96</sub> La <sub>0.04</sub> SnO <sub>3</sub> by reactive core-shell precursor: formation process, CO sensitivity, electronic and optical properties analysis. <b>2016</b> , 6, 25379-25387		11
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445	SiO <sub>2</sub> /TiO <sub>2</sub> double-shell hollow particles: Fabrication and UV-vis spectrum characterization. <b>2016</b> , 27, 812-818		15

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443	TiO <sub>2</sub> nanosheets with exposed {001} facets for photocatalytic applications. <b>2016</b> , 9, 3-27	283
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441	The endeavour to advance graphene-semiconductor composite-based photocatalysis. <b>2016</b> , 18, 24-37	86
440	Engineering the Cu <sub>2</sub> O-reduced graphene oxide interface to enhance photocatalytic degradation of organic pollutants under visible light. <b>2016</b> , 181, 495-503	137
439	More effective use of graphene in photocatalysis by conformal attachment of small sheets to TiO <sub>2</sub> spheres. <b>2016</b> , 96, 394-402	47
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436	Multicatalytic colloids with highly scalable, adjustable, and stable functionalities in organic and aqueous media. <b>2016</b> , 8, 7000-16	10
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433	TiO <sub>2</sub> /graphene composite photocatalysts for NO <sub>x</sub> removal: A comparison of surfactant-stabilized graphene and reduced graphene oxide. <b>2016</b> , 180, 637-647	165
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430	Graphene-TiO <sub>2</sub> mesoporous spheres assembled by anatase and rutile nanowires for efficient NO photooxidation. <b>2017</b> , 699, 47-56	10
429	Synthesis of porous carbon-doped g-C <sub>3</sub> N <sub>4</sub> nanosheets with enhanced visible-light photocatalytic activity. <b>2017</b> , 403, 682-690	105
428	Enhanced Self-Assembly of Crystalline, Large-Area, and Periodicity-Tunable TiO Nanotube Arrays on Various Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 6265-6272	9.5 10
427	Self-surface charge exfoliation and electrostatically coordinated 2D hetero-layered hybrids. <b>2017</b> , 8, 14224	243

426	Construction of Three-Dimensional Hemin-Functionalized Graphene Hydrogel with High Mechanical Stability and Adsorption Capacity for Enhancing Photodegradation of Methylene Blue. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 4006-4014	9.5	71
425	A review of TiO <sub>2</sub> nanostructured catalysts for sustainable H <sub>2</sub> generation. <b>2017</b> , 42, 8418-8449		260
424	Crystallization-mediated amorphous Cu <sub>x</sub> O (x = 1, 2)/crystalline CuI p-n type heterojunctions with visible light enhanced and ultraviolet light restrained photocatalytic dye degradation performance. <b>2017</b> , 402, 31-40		14
423	Enriched photoelectrocatalytic degradation and photoelectric performance of BiOI photoelectrode by coupling rGO. <b>2017</b> , 208, 22-34		156
422	High activity of hot electrons from bulk 3D graphene materials for efficient photocatalytic hydrogen production. <b>2017</b> , 10, 1662-1672		38
421	TiO <sub>2</sub> Nanoparticles Incorporated Peptide Appended Perylene Bisimide-Based Nanohybrid System: Enhancement of Photo-Switching Behavior. <b>2017</b> , 121, 5428-5435		12
420	Plasmon-Sensitized Graphene/TiO <sub>2</sub> Inverse Opal Nanostructures with Enhanced Charge Collection Efficiency for Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 7075-7083	9.5	108
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418	A Brief Review of the Synthesis and Catalytic Applications of Graphene-Coated Oxides. <b>2017</b> , 9, 2432-2442		27
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413	Seamless aqueous arc discharge process for producing graphitic carbon nanostructures. <b>2017</b> , 120, 83-88		16
412	Enhanced enzymatic reactions by solar-to-thermal conversion nanoparticles. <b>2017</b> , 53, 5048-5051		4
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409	Tunable Optical Bistability and Tristability in Nonlinear Graphene-Wrapped Nanospheres. <b>2017</b> , 121, 11804-11810		25



408	Facile synthesis of nano-Zn/Bi-reduced graphene oxide for enhanced photocatalytic elimination of chlorinated organic pollutants under visible light. <b>2017</b> , 41, 4406-4415		11
407	Polydopamine nanotubes-templated synthesis of TiO <sub>2</sub> and its photocatalytic performance under visible light. <b>2017</b> , 7, 23535-23542		19
406	Core-shell structured reduced graphene oxide wrapped magnetically separable rGO@CuZnO@Fe <sub>3</sub> O <sub>4</sub> microspheres as superior photocatalyst for CO <sub>2</sub> reduction under visible light. <b>2017</b> , 205, 654-665		82
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392	Mesoporous C, N-codoped TiO <sub>2</sub> hybrid shells with enhanced visible light photocatalytic performance. <b>2017</b> , 7, 15513-15520		46
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355	Reduced graphene oxide wrapped Bi <sub>2</sub> WO <sub>6</sub> hybrid with ultrafast charge separation and improved photoelectrocatalytic performance. <b>2017</b> , 392, 51-60		52

354	Hollow TiO modified reduced graphene oxide microspheres encapsulating hemoglobin for a mediator-free biosensor. <b>2017</b> , 87, 473-479	33
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351	Heterostructures construction on TiO <sub>2</sub> nanobelts: A powerful tool for building high-performance photocatalysts. <b>2017</b> , 202, 620-641	166
350	Reduced graphene oxide/ZnFe <sub>2</sub> O <sub>4</sub> nanocomposite as an efficient catalyst for the photocatalytic degradation of methylene blue dye. <b>2017</b> , 43, 2669-2690	68
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346	Fast and Large-Scale Anodizing Synthesis of Pine-Cone TiO <sub>2</sub> for Solar-Driven Photocatalysis. <b>2017</b> , 7, 229	8
345	Recent Advances in Graphene Based TiO <sub>2</sub> Nanocomposites (GTiO <sub>2</sub> Ns) for Photocatalytic Degradation of Synthetic Dyes. <b>2017</b> , 7, 305	92
344	The different paths and potential risks of photo(-electro)-catalytic degradation for rhodamine B in water by graphene/TiO membrane. <b>2018</b> , 25, 13988-13999	8
343	TiO <sub>2</sub> nanosheets decorated with B <sub>4</sub> C nanoparticles as photocatalysts for solar fuel production under visible light irradiation. <b>2018</b> , 443, 558-566	10
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340	Enhanced photoelectrochemical water splitting of BiVO <sub>4</sub> photonic crystal photoanode by decorating with MoS <sub>2</sub> nanosheets. <b>2018</b> , 112, 173902	13
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338	Facile graphitization of silicon nano-particles with ethanol based chemical vapor deposition. <b>2018</b> , 16, 38-44	17
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336	Nitrogen doped graphene oxide modified WSe <sub>2</sub> nanorods for visible light photocatalysis. <b>2018</b> , 750, 499-506	14
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331	Microbial fuel cell assisted band gap narrowed TiO for visible light-induced photocatalytic activities and power generation. <b>2018</b> , 8, 1723	57
330	In situ fabrication of reduced graphene oxide/mesoporous g-C <sub>3</sub> N <sub>4</sub> nanosheets with excellent visible light activity. <b>2018</b> , 6, 890-897	13
329	Hydrothermal synthesis of graphene wrapped Fe-doped TiO <sub>2</sub> nanospheres with high photocatalysis performance. <b>2018</b> , 44, 7473-7480	42
328	Water on Graphene-Coated TiO: Role of Atomic Vacancies. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 5793-5804	9.5 10
327	Toward sustainable energy: photocatalysis of Cr-doped TiO <sub>2</sub> : 1. electronic structure. <b>2018</b> , 24, 309-325	3
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311	Enhanced UV- and visible-light driven photocatalytic performances and recycling properties of graphene oxide/ZnO hybrid layers. <b>2018</b> , 44, 1826-1835	29
310	TiO <sub>2</sub> -Graphene-Based Composites: Synthesis, Characterization, and Application in Photocatalysis of Organic Pollutants. <b>2018</b> , 95-122	1
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283	Chemical warfare agents degradation on Fe/Ti codoped TiO <sub>2</sub> nanoparticles. <b>2018</b> , 124, 1	4

282	Titanium Dioxide/Graphene and Titanium Dioxide/Graphene Oxide Nanocomposites: Synthesis, Characterization and Photocatalytic Applications for Water Decontamination. <b>2018</b> , 8, 491	50
281	Fabrication of Hollow Mesoporous [email protected]2@Au Microspheres with High Photocatalytic Activity for Hydrogen Evolution from Water under Visible Light. <b>2018</b> , 6, 13766-13777	32
280	Transparent and Hydrophobic Reduced Graphene Oxide/Titanium Dioxide Nanocomposites for Nonwetting Device Applications. <b>2018</b> , 1, 5691-5701	11
279	Efficient Noble-Metal-Free Co-NG/TiO <sub>2</sub> Photocatalyst for H <sub>2</sub> Evolution: Synergistic Effect between Single-Atom Co and N-Doped Graphene for Enhanced Photocatalytic Activity. <b>2018</b> , 6, 12766-12775	45
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276	Efficient adsorption and sustainable degradation of gaseous acetaldehyde and o-xylene using rGO-TiO <sub>2</sub> photocatalyst. <b>2018</b> , 349, 708-718	67
275	Rapid thermally processed hierarchical titania-based hollow fibres with tunable physicochemical and photocatalytic properties. <b>2018</b> , 206, 99-106	5
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261	High-rate solar-light photoconversion of CO <sub>2</sub> to fuel: controllable transformation from C <sub>1</sub> to C <sub>2</sub> products. <b>2018</b> , 11, 3183-3193	100
260	Multidimensional TiO <sub>2</sub> nanostructured catalysts for sustainable H <sub>2</sub> generation. <b>2018</b> , 237-288	
259	One-Step Hydrothermal Synthesis of ZnS Quantum Dots-Reduced Graphene Oxide Composites with Enhanced Photocatalytic Activity. <b>2018</b> , 215, 1800082	11
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254	Facile Synthesis of NaBiS <sub>2</sub> Nanoribbons as a Promising Visible Light-Driven Photocatalyst. <b>2018</b> , 12, 1800135	12
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249	Morphology, Photocatalytic and Antimicrobial Properties of TiO <sub>2</sub> Modified with Mono- and Bimetallic Copper, Platinum and Silver Nanoparticles. <b>2019</b> , 9,	15
248	Onion-like carbon-modified TiO <sub>2</sub> coating by suspension plasma spray with enhanced photocatalytic performances. <b>2019</b> , 21, 1	6
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241	Enhanced heat transfer properties of RGO-TiO <sub>2</sub> based Ethylene Glycol Nanofluids. <b>2019</b> , 18, 1096-1107	4
240	Synergistic Adsorption and Photocatalytic Activity under Visible Irradiation Using Ag-ZnO/GO Nanoparticles Derived at Low Temperature. <b>2019</b> , 2019, 1-13	9
239	Highly Efficient UV/Visible Photocatalyst from Monolithic 3D Titania/Graphene Quantum Dot Heterostructure Linked by Aminosilane. <b>2019</b> , 3, 1900084	12
238	Graphene/TiO <sub>2</sub> Nanocomposites: Synthesis Routes, Characterization, and Solar Cell Applications. <b>2019</b> , 353-394	1
237	Graphene Nanomaterials in Energy and Environment Applications. <b>2019</b> , 1-25	1
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235	Optical and highly enhanced solar light-driven photocatalytic activity of reduced graphene oxide wrapped Bi <sub>2</sub> MoO <sub>3</sub> nanoplates. <b>2019</b> , 194, 1-10	16
234	Ultra-light and compressible 3D BiOCl/ RGO aerogel with enriched synergistic effect of adsorption and photocatalytic degradation of oxytetracycline. <b>2019</b> , 8, 4577-4587	29
233	Facile direct synthesis of graphene-wrapped ZnO nanospheres from cyanobacterial cells. <b>2019</b> , 55, 11410-11413	
232	Electrochemical sensor study of TiO <sub>2</sub> nanoparticle/graphene composite produced by mechanical milling and sonication-assisted exfoliation. <b>2019</b> , 125, 1	2
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228	Hierarchical metal-semiconductor-graphene ternary heteronanostructures for plasmon-enhanced wide-range visible-light photocatalysis. <b>2019</b> , 7, 15831-15840	19
227	Enhanced Removal of Toxic Cr(VI) in Wastewater by Synthetic TiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> Microspheres/rGO Photocatalyst under Irradiation of Visible Light. <b>2019</b> , 58, 8979-8989	21
226	The hierarchical TiO <sub>2</sub> hollow microspheres with exposed high-energy {001} crystal facets composite reduced graphene oxide and its photocatalytic activity. <b>2019</b> , 30, 10944-10952	5
225	In-situ synthesis of self Ti <sup>3+</sup> doped TiO <sub>2</sub> /RGO nanocomposites as efficient photocatalyst to remove organic dyes from wastewater under direct sunlight irradiation. <b>2019</b> , 6, 0850d2	5
224	Sunlight-Mediated Antibacterial Activity Enhancement of Gold Nanoclusters and Graphene Co-decorated Titanium Dioxide Nanocomposites. <b>2019</b> , 30, 985-994	10
223	growth of carbon dots on TiO nanotube arrays for PEC enzyme biosensors with visible light response.. <b>2019</b> , 9, 15084-15091	9
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221	Strategies to improve the photocatalytic activity of TiO: 3D nanostructuring and heterostructuring with graphitic carbon nanomaterials. <b>2019</b> , 11, 7025-7040	97
220	Graphene-Based Materials as Efficient Photocatalysts for Water Splitting. <b>2019</b> , 24,	48
219	Solid-State, Low-Cost, and Green Synthesis and Robust Photochemical Hydrogen Evolution Performance of Ternary TiO/MgTiO/C Photocatalysts. <b>2019</b> , 14, 15-26	13
218	Superior dielectric properties and bandgap modulation in hydrothermally grown Gr/MgO nanocomposite. <b>2019</b> , 383, 1671-1676	12
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215	Hydrogen production from bio-derived biphasic photoreforming over a raspberry-like amphiphilic Ag <sub>2</sub> O-TiO <sub>2</sub> /SiO <sub>2</sub> catalyst. <b>2019</b> , 370, 646-657	22
214	Ultrasound assisted synthesis of CaF <sub>2</sub> :Eu phosphor nanoparticles. <b>2019</b> , 34, 426-431	6
213	Photodecomposition and adsorption of hazardous organic pollutants by Ce-doped ZnO@Ce-doped TiO <sub>2</sub> -N/S-dual doped RGO ternary nano-composites photocatalyst for water remediation. <b>2019</b> , 1185, 191-199	33
212	Ablation of TiO <sub>2</sub> surface with a double-pulse femtosecond laser. <b>2019</b> , 441, 49-54	7
211	Morphology- and Size-Controlled Fabrication of CdS from Flower-Like to Spherical Structures and their Application for High-Performance Photoactivity. <b>2019</b> , 2019, 2086-2092	4

210	Platinum Nanoparticles to Enable Electrodynamical Therapy for Effective Cancer Treatment. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806803	24	70
209	Z-scheme carbon-bridged Bi <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> nanotube arrays to boost photoelectrochemical detection performance. <b>2019</b> , 248, 255-263		62
208	A loose NF membrane by grafting TiO <sub>2</sub> -HMDI nanoparticles on PES/ECD substrate for dye/salt separation. <b>2019</b> , 218, 8-19		58
207	Photo-generation of cyclic carbonates using hyper-branched Ru-TiO. <b>2019</b> , 215, 407-421		5
206	Ni/Si-Codoped TiO Nanostructure Photoanode for Enhanced Photoelectrochemical Water Splitting. <b>2019</b> , 12,		7
205	Visible light efficient and photo stable nanostructure of GO/CuO/m-TiO <sub>2</sub> ternary composite. <b>2019</b> , 6, 1250d8		7
204	Water Remediation by G-/GO-Based Photocatalysts. <b>2019</b> ,		
203	Designing cotton fibers impregnated with photocatalytic graphene oxide/Fe, N-doped TiO particles as prospective industrial self-cleaning and biocompatible textiles. <b>2019</b> , 94, 318-332		35
202	Preparation and characterization of Pt, N-TiO <sub>2</sub> -graphene nanocomposites for hydrogen production. <b>2019</b> , 45, 6058-6065		11
201	Photoelectrochemical, photocatalytic and photochromic performance of rGO-TiO <sub>2</sub> WO <sub>3</sub> composites. <b>2019</b> , 224, 217-228		18
200	High-efficiency and environment-friendly sterilization PEVE coatings modified with Bi <sub>2</sub> WO <sub>6</sub> /TiO <sub>2</sub> composites. <b>2019</b> , 715, 173-180		9
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194	Hydrothermal preparation of Ag-TiO <sub>2</sub> -reduced graphene oxide ternary microspheres structure composite for enhancing photocatalytic activity. <b>2019</b> , 112, 128-136		31
193	Ultrathin sub-3 nm nitrogen-doped graphene quantum dot layers coated TiO <sub>2</sub> nanocomposites as high-performance photocatalysts. <b>2019</b> , 714, 1-5		8

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190	Highly Efficient Visible Light Catalysts Driven by Ti <sup>3+</sup> -VO <sub>2</sub> -Ti <sup>4+</sup> -N <sub>3</sub> Defect Clusters. <b>2019</b> , 5, 169-174	2
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180	Au <sub>2</sub> Cu nanoalloy/TiO <sub>2</sub> /MoS <sub>2</sub> ternary hybrid with enhanced photocatalytic hydrogen production. <b>2020</b> , 820, 153440	22
179	Construction of Cu <sub>2</sub> O-reduced graphene oxide composites with enhanced photoelectric and photocatalytic properties. <b>2020</b> , 100, 109612	26
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176	Recent advances in MOF-based photocatalysis: environmental remediation under visible light. <b>2020</b> , 7, 300-339	188
175	N-doped graphene-wrapped TiO <sub>2</sub> nanotubes with stable surface Ti <sup>3+</sup> for visible-light photocatalysis. <b>2020</b> , 512, 144549	19

174	TiO nanosheet/NiO nanorod hierarchical nanostructures: p-n heterojunctions towards efficient photocatalysis. <b>2020</b> , 562, 313-321	45
173	Highly repeatable and sensitive three-dimensional Fe <sub>2</sub> O <sub>3</sub> @reduced graphene oxide gas sensors by magnetic-field assisted assembly process. <b>2020</b> , 306, 127546	29
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171	Assembling polydopamine on TiO <sub>2</sub> for visible light photocatalytic selective oxidation of sulfides with aerial O <sub>2</sub> . <b>2020</b> , 392, 123632	23
170	Nanoporous TiO <sub>2</sub> spheres with tailored textural properties: Controllable synthesis, formation mechanism, and photochemical applications. <b>2020</b> , 109, 100620	61
169	Efficient solar-to-acetate conversion from CO <sub>2</sub> through microbial electrosynthesis coupled with stable photoanode. <b>2020</b> , 278, 115684	13
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162	Defect-rich MoS <sub>2</sub> /r-GO hybrid via microwave-assisted solvothermal process for efficient electrocatalytic hydrogen evolution. <b>2020</b> , 45, 22459-22468	5
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129	A review of recent progress in gas phase CO <sub>2</sub> reduction and suggestions on future advancement. <b>2020</b> , 16, 100264	15
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122	Ferroelectric polarization-enhanced charge separation in quantum dots sensitized semiconductor hybrid for photoelectrochemical hydrogen production. <b>2021</b> , 81, 105626	9
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