

Artificial photosynthesis over graphene – “semiconduc better?

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Citation Report

#	ARTICLE	IF	CITATIONS
1	The Rational Design of a Single-Component Photocatalyst for Gas-Phase CO ₂ Reduction Using Both UV and Visible Light. <i>Advanced Science</i> , 2014, 1, 1400013.	5.6	182
2	Synthesis of Multiwalled Carbon Nanotubes-Titania Nanomaterial for Desulfurization of Model Fuel. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-6.	1.5	25
3	Enhancing the visible light photocatalytic performance of ternary CdS-(graphene-Pd) nanocomposites via a facile interfacial mediator and co-catalyst strategy. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19156-19166.	5.2	130
4	In situ synthesis of hierarchical In ₂ S ₃ -graphene nanocomposite photocatalyst for selective oxidation. <i>RSC Advances</i> , 2014, 4, 64484-64493.	1.7	28
5	The encapsulation of CdS in carbon nanotubes for stable and efficient photocatalysis. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20939-20946.	5.2	88
6	Surface charge modification for improvement of photocatalytic H ₂ production over a La ₂ Ti ₂ O ₇ /graphene nanocomposite. <i>RSC Advances</i> , 2014, 4, 60437-60444.	1.7	16
7	A novel quinone/reduced graphene oxide composite as a solid-phase redox mediator for chemical and biological Acid Yellow 36 reduction. <i>RSC Advances</i> , 2014, 4, 47297-47303.	1.7	36
8	Noncovalently Functionalized Graphene-Directed Synthesis of Ultralarge Graphene-Based TiO ₂ Nanosheet Composites: Tunable Morphology and Photocatalytic Applications. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27325-27335.	1.5	54
9	Palladium nanoparticles on noncovalently functionalized graphene-based heterogeneous catalyst for the Suzuki-Miyaura and Heck-Mizoroki reactions in water. <i>RSC Advances</i> , 2014, 4, 48322-48330.	1.7	34
10	Multifunctional Single-Phase Photocatalysts: Extended Near Infrared Photoactivity and Reliable Magnetic Recyclability. <i>Scientific Reports</i> , 2015, 5, 15511.	1.6	28
12	Photocatalytically Renewable Micro-electrochemical Sensor for Real-Time Monitoring of Cells. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14402-14406.	7.2	44
13	Structural and Functional Hierarchy in Photosynthetic Energy Conversion—from Molecules to Nanostructures. <i>Nanoscale Research Letters</i> , 2015, 10, 458.	3.1	15
14	Design of a Metal Oxide-Organic Framework (MOF) Foam Microreactor: Solar-Induced Direct Pollutant Degradation and Hydrogen Generation. <i>Advanced Materials</i> , 2015, 27, 7713-7719.	11.1	86
15	Cl-Doped ZnO Nanowire Arrays on 3D Graphene Foam with Highly Efficient Field Emission and Photocatalytic Properties. <i>Small</i> , 2015, 11, 4785-4792.	5.2	71
17	3D Networked Tin Oxide/Graphene Aerogel with a Hierarchically Porous Architecture for High-Rate Performance Sodium-Ion Batteries. <i>ChemSusChem</i> , 2015, 8, 2948-2955.	3.6	70
18	Rapid Formation of 1D Titanate Nanotubes Using Alkaline Hydrothermal Treatment and Its Photocatalytic Performance. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-7.	1.5	6
19	Enhanced visible-light photocatalytic activity for selective oxidation of amines into imines over TiO ₂ (B)/anatase mixed-phase nanowires. <i>Applied Surface Science</i> , 2015, 349, 343-352.	3.1	58
20	Photocatalytic fabrics based on reduced graphene oxide and TiO ₂ coatings. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 199, 62-76.	1.7	26

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21	Facile synthesis of CdS@TiO ₂ core-shell nanorods with controllable shell thickness and enhanced photocatalytic activity under visible light irradiation. <i>Applied Surface Science</i> , 2015, 349, 279-286.	3.1	93
22	Olefin difunctionalizations via visible light photocatalysis. <i>Tetrahedron Letters</i> , 2015, 56, 3732-3742.	0.7	196
23	Excellent visible-light-driven photocatalytic performance of Cu ₂ O sensitized NaNbO ₃ heterostructures. <i>New Journal of Chemistry</i> , 2015, 39, 6171-6177.	1.4	36
24	A highly photoactive, visible-light-driven graphene/2D mesoporous TiO ₂ photocatalyst. <i>Green Chemistry</i> , 2015, 17, 3972-3978.	4.6	84
25	Improved light absorption and photocatalytic activity of Zn,N-TiO ₂ rich in oxygen vacancies synthesized by nitridation and hydrogenation. <i>New Journal of Chemistry</i> , 2015, 39, 2417-2420.	1.4	9
26	Enhanced photocatalytic activity exhibited by PTh/[Fe(CN) ₃ (NO)(bpy)]·4H ₂ O nanocomposite fibers via a synergistic approach. <i>RSC Advances</i> , 2015, 5, 107209-107221.	1.7	16
27	Construction of multifunctional films based on graphene-TiO ₂ composite materials for strain sensing and photodegradation. <i>RSC Advances</i> , 2015, 5, 104785-104791.	1.7	18
28	What if the Electrical Conductivity of Graphene Is Significantly Deteriorated for the Graphene-Semiconductor Composite-Based Photocatalysis?. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27948-27958.	4.0	50
29	Patterning two-dimensional free-standing surfaces with mesoporous conducting polymers. <i>Nature Communications</i> , 2015, 6, 8817.	5.8	193
30	Strategies for engineering metal-organic frameworks as efficient photocatalysts. <i>Chinese Journal of Catalysis</i> , 2015, 36, 2071-2088.	6.9	113
31	Photocatalytic treatment of pharmaceutical wastewater using new multiwall-carbon nanotubes/TiO ₂ /SiO ₂ nanocomposites. <i>Environmental Research</i> , 2015, 137, 176-184.	3.7	89
32	Yolk-shell Au@CeO ₂ microspheres: Synthesis and application in the photocatalytic degradation of methylene blue dye. <i>Surface and Coatings Technology</i> , 2015, 271, 119-126.	2.2	32
33	Photocatalytic synthesis of anilides from nitrobenzenes under visible light irradiation: 2 in 1 reaction. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 152, 58-62.	1.7	4
34	Plasmon-enhanced photocatalytic properties of nano Ag@AgBr on single-crystalline octahedral Cu ₂ O (1 1 1) microcrystals composite photocatalyst. <i>Applied Surface Science</i> , 2015, 330, 94-103.	3.1	38
35	Facile fabrication of CdS-metal-organic framework nanocomposites with enhanced visible-light photocatalytic activity for organic transformation. <i>Nano Research</i> , 2015, 8, 1834-1846.	5.8	114
36	Facile Fabrication of S-TiO ₂ /β-SiC Nanocomposite Photocatalyst for Hydrogen Evolution under Visible Light Irradiation. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 245-253.	3.2	50
37	Graphene-Templated Bottom-up Fabrication of Ultralarge Binary CdS-TiO ₂ Nanosheets for Photocatalytic Selective Reduction. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7184-7194.	1.5	59
38	From a polyoxotitanium cage to TiO ₂ /C composites, a novel strategy for nanoporous materials. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1837-1840.	5.2	10

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41	Two-Dimensional MoS ₂ Nanosheet-Coated Bi ₂ S ₃ Discoids: Synthesis, Formation Mechanism, and Photocatalytic Application. <i>Langmuir</i> , 2015, 31, 4314-4322.	1.6	178
42	1D CdS nanowire@2D BiVO ₄ nanosheet heterostructures toward photocatalytic selective fine-chemical synthesis. <i>RSC Advances</i> , 2015, 5, 16476-16483.	1.7	60
43	Fabrication of Au/Graphene-Wrapped ZnO-Nanoparticle-Assembled Hollow Spheres with Effective Photoinduced Charge Transfer for Photocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3524-3531.	4.0	123
44	In Situ Dissolution@Diffusion toward Homogeneous Multiphase Ag/Ag ₂ S@ZnS Core@Shell Heterostructures for Enhanced Photocatalytic Performance. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1667-1675.	1.5	37
45	Throwing New Light on the Reduction of CO ₂ . <i>Advanced Materials</i> , 2015, 27, 1957-1963.	11.1	145
46	A comparative investigation on the effects of nitrogen-doping into graphene on enhancing the electrochemical performance of SnO ₂ /graphene for sodium-ion batteries. <i>Nanoscale</i> , 2015, 7, 3164-3172.	2.8	130
47	Tuning the charge transfer route by p-n junction catalysts embedded with CdS nanorods for simultaneous efficient hydrogen and oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4803-4810.	5.2	87
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49	Synthesis of Ag ₃ PO ₄ @Bi ₂ O ₂ CO ₃ composites with high visible-light photocatalytic activity. <i>Materials Letters</i> , 2015, 147, 69-71.	1.3	20
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51	Self-Assembly of Semiconductor Nanoparticles/Reduced Graphene Oxide (RGO) Composite Aerogels for Enhanced Photocatalytic Performance and Facile Recycling in Aqueous Photocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 277-282.	3.2	117
52	Synthesis of bismuth oxyiodides and their composites: characterization, photocatalytic activity, and degradation mechanisms. <i>RSC Advances</i> , 2015, 5, 23450-23463.	1.7	176
53	Component-Controlled Synthesis and Assembly of Cu@Pd Nanocrystals on Graphene for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 5347-5357.	4.0	60
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55	Pt-TiO ₂ /graphene photocatalysts for degradation of AO7 dye under visible light. <i>Applied Surface Science</i> , 2015, 340, 9-17.	3.1	75
56	Promoting Visible-Light Photocatalysis with Palladium Species as Cocatalyst. <i>ChemCatChem</i> , 2015, 7, 2047-2054.	1.8	24

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57	Raspberrylite SiO ₂ @Reduced Graphene Oxide@AgNP Composite Microspheres with High Aqueous Dispersity and Excellent Catalytic Activity. ACS Applied Materials & Interfaces, 2015, 7, 6041-6046.	4.0	44
58	Photocatalytic hydrogen production over CdS: effects of reaction atmosphere studied by in situ Raman spectroscopy. Journal of Materials Chemistry A, 2015, 3, 5701-5707.	5.2	51
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62	Efficient visible light photocatalytic activity and enhanced stability of BiOBr/Cd(OH) ₂ heterostructures. New Journal of Chemistry, 2015, 39, 7153-7163.	1.4	24
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76	Enhanced solar photodegradation of toxic pollutants by long-lived electrons in Ag@Ag ₂ O nanocomposites. <i>Applied Catalysis B: Environmental</i> , 2015, 176-177, 637-645.	10.8	38
77	You can't have an energy revolution without transforming advances in materials, chemistry and catalysis into policy change and action. <i>Energy and Environmental Science</i> , 2015, 8, 1682-1684.	15.6	22
78	Transformation of polymer-ZnO core-shell nanofibers into ZnO hollow nanofibers: Intrinsic defect reorganization in ZnO and its influence on the photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2015, 176-177, 646-653.	10.8	56
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80	A unique Z-scheme 2D/2D nanosheet heterojunction design to harness charge transfer for photocatalysis. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11006-11013.	5.2	117
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82	Preparation and characterization of Ag ₂ O/SWNTs photocatalysts and its photodegradation on tetracycline. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 30, 64-70.	2.9	50
83	CdS-decorated triptycene-based polymer: durable photocatalysts for hydrogen production under visible-light irradiation. <i>Catalysis Science and Technology</i> , 2015, 5, 3368-3374.	2.1	37
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95	One-dimension-based spatially ordered architectures for solar energy conversion. Chemical Society Reviews, 2015, 44, 5053-5075.	18.7	367
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105	Precursor chemistry matters in boosting photoredox activity of graphene/semiconductor composites. Nanoscale, 2015, 7, 18062-18070.	2.8	67
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114	RGO@TiO ₂ @ZnO composites: Synthesis, characterization, and application to photocatalysis. <i>Applied Catalysis A: General</i> , 2015, 491, 52-57.	2.2	93
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126	Effect of specific surface area on photoelectrochemical properties of TiO ₂ nanotubes, nanosheets and nanowires coated with TiC thin films. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 324, 126-133.	2.0	18
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134	Facile fabrication of reduced graphene oxide/CuI/PANI nanocomposites with enhanced visible-light photocatalytic activity. <i>RSC Advances</i> , 2016, 6, 44851-44858.	1.7	35
135	Heterostructured semiconductor nanowire arrays for artificial photosynthesis. <i>Materials Horizons</i> , 2016, 3, 270-282.	6.4	95
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137	Graphene oxide: Exploiting its unique properties toward visible-light-driven photocatalysis. <i>Applied Materials Today</i> , 2016, 4, 9-16.	2.3	110
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