Min-Quan Yang

List of Publications by Citations

59 papers	8,282 citations	39 h-index	65 g-index
65 ext. papers	9,195 ext. citations	9.9 avg, IF	6.64 L-index

#	Paper	IF	Citations
59	Defective TiO2 with oxygen vacancies: synthesis, properties and photocatalytic applications. *Nanoscale*, **2013**, 5, 3601-14	7.7	1426
58	Waltzing with the Versatile Platform of Graphene to Synthesize Composite Photocatalysts. *Chemical Reviews*, **2015**, 115, 10307-77	68.1	903
57	Artificial photosynthesis over graphene-semiconductor composites. Are we getting better?. *Chemical Society Reviews*, **2014**, 43, 8240-54	58.5	477
56	Toward improving the graphene-semiconductor composite photoactivity via the addition of metal ions as generic interfacial mediator. *ACS Nano*, **2014**, 8, 623-33	16.7	336
55	Improving the photocatalytic activity and anti-photocorrosion of semiconductor ZnO by coupling with versatile carbon. *Physical Chemistry Chemical Physics*, **2014**, 16, 16891-903	3.6	334
54	Synthesis of fullerene-, carbon nanotube-, and graphene-TiO2 nanocomposite photocatalysts for selective oxidation: a comparative study. *ACS Applied Materials & Interfaces*, **2013**, 5, 1156-64	9.5	307
53	Constructing Ternary CdS–Graphene–TiO2 Hybrids on the Flatland of Graphene Oxide with Enhanced Visible-Light Photoactivity for Selective Transformation. *Journal of Physical Chemistry C*, **2012**, 116, 18023-18031	3.8	281
52	Selective photoredox using graphene-based composite photocatalysts. *Physical Chemistry Chemical Physics*, **2013**, 15, 19102-18	3.6	273
51	Self-surface charge exfoliation and electrostatically coordinated 2D hetero-layered hybrids. *Nature Communications*, **2017**, 8, 14224	17.4	243
50	Insight into the Effect of Highly Dispersed MoS2 versus Layer-Structured MoS2 on the Photocorrosion and Photoactivity of CdS in Graphene–CdS–MoS2 Composites. *Journal of Physical Chemistry C*, **2015**, 119, 27234-27246	3.8	210
49	Synthesis of uniform CdS nanospheres/graphene hybrid nanocomposites and their application as visible light photocatalyst for selective reduction of nitro organics in water. *ACS Applied Materials & Interfaces*, **2013**, 5, 4309-19	9.5	209
48	Photocatalytic water splitting for solar hydrogen generation: fundamentals and recent advancements. *International Reviews in Physical Chemistry*, **2016**, 35, 1-36	7	201
47	CdS–graphene nanocomposites as visible light photocatalyst for redox reactions in water: A green route for selective transformation and environmental remediation. *Journal of Catalysis*, **2013**, 303, 60-69	7.3	190
46	Noble Metal-Free Nanocatalysts with Vacancies for Electrochemical Water Splitting. *Small*, **2018**, 14, e1703323	11	187
45	Toward the enhanced photoactivity and photostability of ZnO nanospheres via intimate surface coating with reduced graphene oxide. *Journal of Materials Chemistry A*, **2014**, 2, 9380	13	183
44	Visible-to-NIR Photon Harvesting: Progressive Engineering of Catalysts for Solar-Powered Environmental Purification and Fuel Production. *Advanced Materials*, **2018**, 30, e1802894	24	158
43	A critical and benchmark comparison on graphene-, carbon nanotube-, and fullerene-semiconductor nanocomposites as visible light photocatalysts for selective oxidation. *Journal of Catalysis*, **2013**, 299, 210-221	7.3	154

42	Photocatalytic conversion of CO over graphene-based composites: current status and future perspective. *Nanoscale Horizons*, **2016**, 1, 185-200	10.8	153
41	A facile one-step way to anchor noble metal (Au, Ag, Pd) nanoparticles on a reduced graphene oxide mat with catalytic activity for selective reduction of nitroaromatic compounds. *CrystEngComm*, **2013**, 15, 6819	3.3	148
40	Improving the visible light photoactivity of In2S3-graphene nanocomposite via a simple surface charge modification approach. *Langmuir*, **2013**, 29, 10549-58	4	136
39	Basic Principles for Observing the Photosensitizer Role of Graphene in the Graphene–Semiconductor Composite Photocatalyst from a Case Study on Graphene–ZnO. *Journal of Physical Chemistry C*, **2013**, 117, 21724-21734	3.8	128
38	Tuning the surface charge of graphene for self-assembly synthesis of a SnNb2O6 nanosheet-graphene (2D-2D) nanocomposite with enhanced visible light photoactivity. *Nanoscale*, **2014**, 6, 6335-45	7.7	127
37	Enhancing the visible light photocatalytic performance of ternary CdS–(graphene–Pd) nanocomposites via a facile interfacial mediator and co-catalyst strategy. *Journal of Materials Chemistry A*, **2014**, 2, 19156-19166	13	118
36	Morphology control, defect engineering and photoactivity tuning of ZnO crystals by graphene oxide--a unique 2D macromolecular surfactant. *Physical Chemistry Chemical Physics*, **2014**, 16, 5589-99	3.6	111
35	Surface charge promotes the synthesis of large, flat structured graphene–(CdS nanowire)–TiO2 nanocomposites as versatile visible light photocatalysts. *Journal of Materials Chemistry A*, **2014**, 2, 430-440	13	106
34	Visible-light-driven oxidation of primary C-H bonds over CdS with dual co-catalysts graphene and TiO2. *Scientific Reports*, **2013**, 3, 3314	4.9	106
33	Rational design of few-layer MoSe confined within ZnSe-C hollow porous spheres for high-performance lithium-ion and sodium-ion batteries. *Nanoscale*, **2019**, 11, 6766-6775	7.7	92
32	Ultrathin nickel boron oxide nanosheets assembled vertically on graphene: a new hybrid 2D material for enhanced photo/electro-catalysis. *Materials Horizons*, **2017**, 4, 885-894	14.4	90
31	A nanotree-like CdS/ZnO nanocomposite with spatially branched hierarchical structure for photocatalytic fine-chemical synthesis. *Nanoscale*, **2014**, 6, 7193-8	7.7	89
30	Synthesis of In2S3–CNT nanocomposites for selective reduction under visible light. *Journal of Materials Chemistry A*, **2014**, 2, 1710-1720	13	87
29	A low-temperature and one-step method for fabricating ZnIn2S4–RR nanocomposites with enhanced visible light photoactivity. *Journal of Materials Chemistry A*, **2014**, 2, 14401	13	79
28	Spectrum Tailored Defective 2D Semiconductor Nanosheets Aerogel for Full-Spectrum-Driven Photothermal Water Evaporation and Photochemical Degradation. *Advanced Functional Materials*, **2020**, 30, 2004460	15.6	78
27	Metal-free, robust, and regenerable 3D graphene–organics aerogel with high and stable photosensitization efficiency. *Journal of Catalysis*, **2017**, 346, 21-29	7.3	76
26	Commercialization of graphene-based technologies: a critical insight. *Chemical Communications*, **2015**, 51, 7090-5	5.8	63
25	Precursor chemistry matters in boosting photoredox activity of graphene/semiconductor composites. *Nanoscale*, **2015**, 7, 18062-70	7.7	63

24	Disorder Engineering in Monolayer Nanosheets Enabling Photothermic Catalysis for Full Solar Spectrum (250-2500 nm) Harvesting. *Angewandte Chemie - International Edition*, **2019**, 58, 3077-3081	16.4	61
23	An Sn doped 1T-2H MoS few-layer structure embedded in N/P co-doped bio-carbon for high performance sodium-ion batteries. *Chemical Communications*, **2019**, 55, 3614-3617	5.8	50
22	Noncovalently Functionalized Graphene-Directed Synthesis of Ultralarge Graphene-Based TiO2 Nanosheet Composites: Tunable Morphology and Photocatalytic Applications. *Journal of Physical Chemistry C*, **2014**, 118, 27325-27335	3.8	49
21	In situ fabrication of ultrathin few-layered WSe anchored on N, P dual-doped carbon by bioreactor for half/full sodium/potassium-ion batteries with ultralong cycling lifespan. *Journal of Colloid and Interface Science*, **2020**, 574, 217-228	9.3	42
20	Progress on Graphene-Based Composite Photocatalysts for Selective Organic Synthesis. *Current Organic Chemistry*, **2013**, 17, 2503-2515	1.7	27
19	Nanocomposites of graphene-CdS as photoactive and reusable catalysts for visible-light-induced selective reduction process. *Journal of Energy Chemistry*, **2014**, 23, 145-155	12	21
18	Facet Engineering of Pd Nanocrystals for Enhancing Photocatalytic Hydrogenation: Modulation of the Schottky Barrier Height and Enrichment of Surface Reactants. *ACS Applied Materials & Interfaces*, **2021**, 13, 13044-13054	9.5	21
17	A hybrid of MIL-53(Fe) and conductive sulfide as a synergistic electrocatalyst for the oxygen evolution reaction. *Journal of Materials Chemistry A*, **2020**, 8, 14574-14582	13	16
16	Highly stable Pd/HNbO-based flexible humidity sensor for perdurable wireless wearable applications. *Nanoscale Horizons*, **2021**, 6, 260-270	10.8	13
15	Recent Advancements in Photocatalytic Valorization of Plastic Waste to Chemicals and Fuels. *Frontiers in Nanotechnology*, **2021**, 3,	5.5	9
14	Disorder Engineering in Monolayer Nanosheets Enabling Photothermic Catalysis for Full Solar Spectrum (250□2500 nm) Harvesting. *Angewandte Chemie*, **2019**, 131, 3109-3113	3.6	8
13	Mesoporous CoWO4 nanoparticles for efficient and stable visible-light-driven photocatalytic CO2 reduction. *Materials Today Energy*, **2022**, 100943	7	6
12	Alkaline Co(OH)-Decorated 2D Monolayer Titanic Acid Nanosheets for Enhanced Photocatalytic Syngas Production from CO. *ACS Applied Materials & Interfaces*, **2021**, 13, 38239-38247	9.5	6
11	A Novel Photosensitizer ZnlnS Mediated Photodynamic Therapy Induced-HepG2 Cell Apoptosis. *Radiation Research*, **2019**, 192, 422-430	3.1	4
10	Solar-Energy Capture: Visible-to-NIR Photon Harvesting: Progressive Engineering of Catalysts for Solar-Powered Environmental Purification and Fuel Production (Adv. Mater. 47/2018). *Advanced Materials*, **2018**, 30, 1870363	24	4
9	Recent advances in ZnIn2S4-based materials towards photocatalytic purification, solar fuel production and organic transformations. *Journal of Materials Chemistry C*, **2022**, 10, 5400-5424	7.1	4
8	Photothermal Suzuki Coupling Over a Metal Halide Perovskite/Pd Nanocube Composite Catalyst.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	4
7	Photocatalytic Anaerobic Oxidation of Aromatic Alcohols Coupled With H Production Over CsPbBr/GO-Pt Catalysts.. *Frontiers in Chemistry*, **2022**, 10, 833784	5	3

6	Amorphous nickel borate as a high-efficiency cocatalyst for H2 generation and fine chemical synthesis. *Catalysis Communications*, **2022**, 162, 106389	3.2	2
5	Construction of TiO-Eggshell for Efficient Degradation of Tetracycline Hydrochloride: Sunlight Induced In-Situ Formation of Carbonate Radical. *Materials*, **2021**, 14,	3.5	2
4	Insight into the Real Efficacy of Graphene for Enhancing Photocatalytic Efficiency: A Case Study on CVD Graphene-TiO2 Composites. *ACS Applied Energy Materials*, **2021**, 4, 8755-8764	6.1	2
3	Construction of Chemically Bonded Interface of Organic/Inorganic g-CN/LDH Heterojunction for Z-Schematic Photocatalytic H Generation. *Nanomaterials*, **2021**, 11,	5.4	1
2	Titelbild: Disorder Engineering in Monolayer Nanosheets Enabling Photothermic Catalysis for Full Solar Spectrum (250–2500 nm) Harvesting (Angew. Chem. 10/2019). *Angewandte Chemie*, **2019**, 131, 2933-2933	3.6	
1	The Applications of Graphene-based Nanocomposites in the Field of Photocatalytic Selective Organic Transformations. *World Scientific Series in Nanoscience and Nanotechnology*, **2016**, 81-115	0.1	