

# Min-Quan Yang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Mesoporous CoWO <sub>4</sub> nanoparticles for efficient and stable visible-light-driven photocatalytic CO <sub>2</sub> reduction. <i>Materials Today Energy</i> , <b>2022</b> , 100943	7	6
58	Amorphous nickel borate as a high-efficiency cocatalyst for H <sub>2</sub> generation and fine chemical synthesis. <i>Catalysis Communications</i> , <b>2022</b> , 162, 106389	3.2	2
57	Recent advances in ZnIn <sub>2</sub> S <sub>4</sub> -based materials towards photocatalytic purification, solar fuel production and organic transformations. <i>Journal of Materials Chemistry C</i> , <b>2022</b> , 10, 5400-5424	7.1	4
56	Photocatalytic Anaerobic Oxidation of Aromatic Alcohols Coupled With H <sub>2</sub> Production Over CsPbBr <sub>3</sub> /GO-Pt Catalysts.. <i>Frontiers in Chemistry</i> , <b>2022</b> , 10, 833784	5	3
55	Photothermal Suzuki Coupling Over a Metal Halide Perovskite/Pd Nanocube Composite Catalyst.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	4
54	Construction of Chemically Bonded Interface of Organic/Inorganic g-CN/LDH Heterojunction for Z-Schematic Photocatalytic H <sub>2</sub> Generation. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	1
53	Construction of TiO <sub>2</sub> -Eggshell for Efficient Degradation of Tetracycline Hydrochloride: Sunlight Induced In-Situ Formation of Carbonate Radical. <i>Materials</i> , <b>2021</b> , 14,	3.5	2
52	Recent Advancements in Photocatalytic Valorization of Plastic Waste to Chemicals and Fuels. <i>Frontiers in Nanotechnology</i> , <b>2021</b> , 3,	5.5	9
51	Facet Engineering of Pd Nanocrystals for Enhancing Photocatalytic Hydrogenation: Modulation of the Schottky Barrier Height and Enrichment of Surface Reactants. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 13044-13054	9.5	21
50	Insight into the Real Efficacy of Graphene for Enhancing Photocatalytic Efficiency: A Case Study on CVD Graphene-TiO <sub>2</sub> Composites. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 8755-8764	6.1	2
49	Alkaline Co(OH) <sub>2</sub> -Decorated 2D Monolayer Titanic Acid Nanosheets for Enhanced Photocatalytic Syngas Production from CO. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 38239-38247	9.5	6
48	Highly stable Pd/HNbO <sub>4</sub> -based flexible humidity sensor for perdurable wireless wearable applications. <i>Nanoscale Horizons</i> , <b>2021</b> , 6, 260-270	10.8	13
47	A hybrid of MIL-53(Fe) and conductive sulfide as a synergistic electrocatalyst for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 14574-14582	13	16
46	In situ fabrication of ultrathin few-layered WSe <sub>2</sub> anchored on N, P dual-doped carbon by bioreactor for half/full sodium/potassium-ion batteries with ultralong cycling lifespan. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 574, 217-228	9.3	42
45	Spectrum Tailored Defective 2D Semiconductor Nanosheets Aerogel for Full-Spectrum-Driven Photothermal Water Evaporation and Photochemical Degradation. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2004460	15.6	78
44	Titelbild: Disorder Engineering in Monolayer Nanosheets Enabling Photothermic Catalysis for Full Solar Spectrum (250–500 nm) Harvesting (Angew. Chem. 10/2019). <i>Angewandte Chemie</i> , <b>2019</b> , 131, 2933-2933	3.6	
43	Rational design of few-layer MoSe <sub>2</sub> confined within ZnSe-C hollow porous spheres for high-performance lithium-ion and sodium-ion batteries. <i>Nanoscale</i> , <b>2019</b> , 11, 6766-6775	7.7	92

42	A Novel Photosensitizer ZnInS Mediated Photodynamic Therapy Induced-HepG2 Cell Apoptosis. <i>Radiation Research</i> , <b>2019</b> , 192, 422-430	3.1	4
41	An Sn doped 1T-2H MoS few-layer structure embedded in N/P co-doped bio-carbon for high performance sodium-ion batteries. <i>Chemical Communications</i> , <b>2019</b> , 55, 3614-3617	5.8	50
40	Disorder Engineering in Monolayer Nanosheets Enabling Photothermal Catalysis for Full Solar Spectrum (250-2500 nm) Harvesting. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 3109-3113	3.6	8
39	Disorder Engineering in Monolayer Nanosheets Enabling Photothermal Catalysis for Full Solar Spectrum (250-2500 nm) Harvesting. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 3077-3081	16.4	61
38	Noble Metal-Free Nanocatalysts with Vacancies for Electrochemical Water Splitting. <i>Small</i> , <b>2018</b> , 14, e1703323	11	187
37	Visible-to-NIR Photon Harvesting: Progressive Engineering of Catalysts for Solar-Powered Environmental Purification and Fuel Production. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802894	24	158
36	Solar-Energy Capture: Visible-to-NIR Photon Harvesting: Progressive Engineering of Catalysts for Solar-Powered Environmental Purification and Fuel Production (Adv. Mater. 47/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870363	24	4
35	Self-surface charge exfoliation and electrostatically coordinated 2D hetero-layered hybrids. <i>Nature Communications</i> , <b>2017</b> , 8, 14224	17.4	243
34	Metal-free, robust, and regenerable 3D graphene/organics aerogel with high and stable photosensitization efficiency. <i>Journal of Catalysis</i> , <b>2017</b> , 346, 21-29	7.3	76
33	Ultrathin nickel boron oxide nanosheets assembled vertically on graphene: a new hybrid 2D material for enhanced photo/electro-catalysis. <i>Materials Horizons</i> , <b>2017</b> , 4, 885-894	14.4	90
32	Photocatalytic conversion of CO over graphene-based composites: current status and future perspective. <i>Nanoscale Horizons</i> , <b>2016</b> , 1, 185-200	10.8	153
31	Photocatalytic water splitting for solar hydrogen generation: fundamentals and recent advancements. <i>International Reviews in Physical Chemistry</i> , <b>2016</b> , 35, 1-36	7	201
30	The Applications of Graphene-based Nanocomposites in the Field of Photocatalytic Selective Organic Transformations. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , <b>2016</b> , 81-115	0.1	
29	Commercialization of graphene-based technologies: a critical insight. <i>Chemical Communications</i> , <b>2015</b> , 51, 7090-5	5.8	63
28	Insight into the Effect of Highly Dispersed MoS <sub>2</sub> versus Layer-Structured MoS <sub>2</sub> on the Photocorrosion and Photoactivity of CdS in Graphene/CdS/MoS <sub>2</sub> Composites. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 27234-27246	3.8	210
27	Precursor chemistry matters in boosting photoredox activity of graphene/semiconductor composites. <i>Nanoscale</i> , <b>2015</b> , 7, 18062-70	7.7	63
26	Waltzing with the Versatile Platform of Graphene to Synthesize Composite Photocatalysts. <i>Chemical Reviews</i> , <b>2015</b> , 115, 10307-77	68.1	903
25	Toward improving the graphene-semiconductor composite photoactivity via the addition of metal ions as generic interfacial mediator. <i>ACS Nano</i> , <b>2014</b> , 8, 623-33	16.7	336

24	Tuning the surface charge of graphene for self-assembly synthesis of a SnNb <sub>2</sub> O <sub>6</sub> nanosheet-graphene (2D-2D) nanocomposite with enhanced visible light photoactivity. <i>Nanoscale</i> , <b>2014</b> , 6, 6335-45	7.7	127
23	Nanocomposites of graphene-CdS as photoactive and reusable catalysts for visible-light-induced selective reduction process. <i>Journal of Energy Chemistry</i> , <b>2014</b> , 23, 145-155	12	21
22	Synthesis of In <sub>2</sub> S <sub>3</sub> /TiO <sub>2</sub> nanocomposites for selective reduction under visible light. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 1710-1720	13	87
21	Surface charge promotes the synthesis of large, flat structured graphene(CdS nanowire)/TiO <sub>2</sub> nanocomposites as versatile visible light photocatalysts. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 430-440	12	106
20	A low-temperature and one-step method for fabricating ZnIn <sub>2</sub> S <sub>4</sub> /TiO <sub>2</sub> nanocomposites with enhanced visible light photoactivity. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 14401	13	79
19	Toward the enhanced photoactivity and photostability of ZnO nanospheres via intimate surface coating with reduced graphene oxide. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 9380	13	183
18	Morphology control, defect engineering and photoactivity tuning of ZnO crystals by graphene oxide--a unique 2D macromolecular surfactant. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 5589-99	3.6	111
17	Artificial photosynthesis over graphene-semiconductor composites. Are we getting better?. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 8240-54	58.5	477
16	Improving the photocatalytic activity and anti-photocorrosion of semiconductor ZnO by coupling with versatile carbon. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 16891-903	3.6	334
15	Noncovalently Functionalized Graphene-Directed Synthesis of Ultralarge Graphene-Based TiO <sub>2</sub> Nanosheet Composites: Tunable Morphology and Photocatalytic Applications. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 27325-27335	3.8	49
14	A nanotree-like CdS/ZnO nanocomposite with spatially branched hierarchical structure for photocatalytic fine-chemical synthesis. <i>Nanoscale</i> , <b>2014</b> , 6, 7193-8	7.7	89
13	Enhancing the visible light photocatalytic performance of ternary CdS/graphene/Bd nanocomposites via a facile interfacial mediator and co-catalyst strategy. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 19156-19166	13	118
12	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. <i>CrystEngComm</i> , <b>2013</b> , 15, 6819	3.3	148
11	Improving the visible light photoactivity of In <sub>2</sub> S <sub>3</sub> -graphene nanocomposite via a simple surface charge modification approach. <i>Langmuir</i> , <b>2013</b> , 29, 10549-58	4	136
10	Selective photoredox using graphene-based composite photocatalysts. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 19102-18	3.6	273
9	Basic Principles for Observing the Photosensitizer Role of Graphene in the Graphene/Semiconductor Composite Photocatalyst from a Case Study on Graphene/ZnO. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 21724-21734	3.8	128
8	A critical and benchmark comparison on graphene-, carbon nanotube-, and fullerene-semiconductor nanocomposites as visible light photocatalysts for selective oxidation. <i>Journal of Catalysis</i> , <b>2013</b> , 299, 210-221	7.3	154
7	Synthesis of fullerene-, carbon nanotube-, and graphene-TiO <sub>2</sub> nanocomposite photocatalysts for selective oxidation: a comparative study. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 1156-64	9.5	307

6	CdS/graphene nanocomposites as visible light photocatalyst for redox reactions in water: A green route for selective transformation and environmental remediation. <i>Journal of Catalysis</i> , <b>2013</b> , 303, 60-69	7.3	190
5	Defective TiO <sub>2</sub> with oxygen vacancies: synthesis, properties and photocatalytic applications. <i>Nanoscale</i> , <b>2013</b> , 5, 3601-14	7.7	1426
4	Synthesis of uniform CdS nanospheres/graphene hybrid nanocomposites and their application as visible light photocatalyst for selective reduction of nitro organics in water. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 4309-19	9.5	209
3	Visible-light-driven oxidation of primary C-H bonds over CdS with dual co-catalysts graphene and TiO <sub>2</sub> . <i>Scientific Reports</i> , <b>2013</b> , 3, 3314	4.9	106
2	Progress on Graphene-Based Composite Photocatalysts for Selective Organic Synthesis. <i>Current Organic Chemistry</i> , <b>2013</b> , 17, 2503-2515	1.7	27
1	Constructing Ternary CdS/graphene/TiO <sub>2</sub> Hybrids on the Flatland of Graphene Oxide with Enhanced Visible-Light Photoactivity for Selective Transformation. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 18023-18031	3.8	281