

# Cheng-Gang Niu

## List of Publications by Year in descending order

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67  
papers

6,042  
citations

61984

43  
h-index

98798

67  
g-index

67  
all docs

67  
docs citations

67  
times ranked

5097  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-organic framework-derived CuCo/carbon as an efficient magnetic heterogeneous catalyst for persulfate activation and ciprofloxacin degradation. <i>Journal of Hazardous Materials</i> , 2022, 424, 127196.	12.4	85
2	Integrating the Z-scheme heterojunction and hot electrons injection into a plasmonic-based Zn <sub>2</sub> In <sub>2</sub> S <sub>5</sub> /W <sub>18</sub> O <sub>49</sub> composite induced improved molecular oxygen activation for photocatalytic degradation and antibacterial performance. <i>Journal of Colloid and Interface Science</i> , 2022, 610, 953-969.	9.4	59
3	2D/2D Heterojunction systems for the removal of organic pollutants: A review. <i>Advances in Colloid and Interface Science</i> , 2021, 297, 102540.	14.7	51
4	A dual transfer strategy for boosting reactive oxygen species generation in ultrathin Z-scheme heterojunction driven by electronic field. <i>Chemical Engineering Journal</i> , 2020, 384, 123236.	12.7	60
5	Efficient degradation of Levofloxacin with magnetically separable ZnFe <sub>2</sub> O <sub>4</sub> /NCDs/Ag <sub>2</sub> CO <sub>3</sub> Z-scheme heterojunction photocatalyst: Vis-NIR light response ability and mechanism insight. <i>Chemical Engineering Journal</i> , 2020, 383, 123192.	12.7	123
6	Recent developments on AgI based heterojunction photocatalytic systems in photocatalytic application. <i>Chemical Engineering Journal</i> , 2020, 383, 123083.	12.7	147
7	Photocatalytic degradation of sulfamethazine using a direct Z-Scheme AgI/Bi <sub>4</sub> V <sub>2</sub> O <sub>11</sub> photocatalyst: Mineralization activity, degradation pathways and promoted charge separation mechanism. <i>Journal of Hazardous Materials</i> , 2020, 385, 121508.	12.4	206
8	Steering exciton dissociation and charge migration in green synthetic oxygen-substituted ultrathin porous graphitic carbon nitride for boosted photocatalytic reactive oxygen species generation. <i>Chemical Engineering Journal</i> , 2020, 385, 123919.	12.7	123
9	Lanthanum hydroxides modified poly(epichlorohydrin)-ethylenediamine composites for highly efficient phosphate removal and bacteria disinfection. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 588, 124344.	4.7	9
10	Dual-channel charges transfer strategy with synergistic effect of Z-scheme heterojunction and LSPR effect for enhanced quasi-full-spectrum photocatalytic bacterial inactivation: new insight into interfacial charge transfer and molecular oxygen activation. <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118465.	20.2	219
11	In situ constructing 2D/1D MgIn <sub>2</sub> S <sub>4</sub> /CdS heterojunction system with enhanced photocatalytic activity towards treatment of wastewater and H <sub>2</sub> production. <i>Journal of Colloid and Interface Science</i> , 2020, 576, 264-279.	9.4	109
12	Attachment of Ag/AgCl nanoparticles on CdMoO <sub>4</sub> microspheres for effective degradation of doxycycline under visible light irradiation: Degradation pathways and mineralization activity. <i>Journal of Molecular Liquids</i> , 2019, 288, 111063.	4.9	42
13	Boosting molecular oxygen activation ability in self-assembled plasmonic p-n semiconductor photocatalytic heterojunction of WO <sub>3</sub> /Ag@Ag <sub>2</sub> O. <i>Chemical Engineering Journal</i> , 2019, 372, 12-25.	12.7	78
14	Fabrication of a zinc tungstate-based p-n heterojunction photocatalysts towards refractory pollutants degradation under visible light irradiation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 573, 137-145.	4.7	28
15	Construction of a high-performance photocatalytic fuel cell (PFC) based on plasmonic silver modified Cr-BiOCl nanosheets for simultaneous electricity production and pollutant removal. <i>Nanoscale</i> , 2019, 11, 6662-6676.	5.6	44
16	Constructing magnetic and high-efficiency AgI/CuFe <sub>2</sub> O <sub>4</sub> photocatalysts for inactivation of <i>Escherichia coli</i> and <i>Staphylococcus aureus</i> under visible light: Inactivation performance and mechanism analysis. <i>Science of the Total Environment</i> , 2019, 668, 730-742.	8.0	42
17	Construction of 2D heterojunction system with enhanced photocatalytic performance: Plasmonic Bi and reduced graphene oxide co-modified Bi <sub>5</sub> O <sub>7</sub> I with high-speed charge transfer channels. <i>Journal of Hazardous Materials</i> , 2019, 361, 245-258.	12.4	132
18	Fabrication of visible-light-driven silver iodide modified iodine-deficient bismuth oxyiodides Z-scheme heterojunctions with enhanced photocatalytic activity for <i>Escherichia coli</i> inactivation and tetracycline degradation. <i>Journal of Colloid and Interface Science</i> , 2019, 533, 636-648.	9.4	79

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19	Facile assembly of g-C <sub>3</sub> N <sub>4</sub> /Ag <sub>2</sub> CO <sub>3</sub> /graphene oxide with a novel dual Z-scheme system for enhanced photocatalytic pollutant degradation. <i>Applied Surface Science</i> , 2019, 475, 421-434.	6.1	109
20	Insight into the energy band alignment of magnetically separable Ag <sub>2</sub> O/ZnFe <sub>2</sub> O <sub>4</sub> p-n heterostructure with rapid charge transfer assisted visible light photocatalysis. <i>Journal of Catalysis</i> , 2019, 370, 289-303.	6.2	165
21	Integrating the plasmonic effect and p-n heterojunction into a novel Ag/Ag <sub>2</sub> O/PbBiO <sub>2</sub> Br photocatalyst: Broadened light absorption and accelerated charge separation co-mediated highly efficient visible/NIR light photocatalysis. <i>Chemical Engineering Journal</i> , 2019, 360, 349-363.	12.7	165
22	A fluorescent DNA based probe for Hg(II) based on thymine-Hg(II)-thymine interaction and enrichment via magnetized graphene oxide. <i>Mikrochimica Acta</i> , 2018, 185, 207.	5.0	14
23	Controllable fabrication of a novel heterojunction composite: AgBr and Ag@Ag <sub>2</sub> O co-modified Ag <sub>2</sub> CO <sub>3</sub> with excellent photocatalytic performance towards refractory pollutant degradation. <i>New Journal of Chemistry</i> , 2018, 42, 3270-3281.	2.8	17
24	Combination of efficient charge separation with the assistance of novel dual Z-scheme system: self-assembly photocatalyst Ag@AgI/BiOI modified oxygen-doped carbon nitride nanosheet with enhanced photocatalytic performance. <i>Catalysis Science and Technology</i> , 2018, 8, 1161-1175.	4.1	99
25	Photocatalytic degradation of ciprofloxacin by a novel Z-scheme CeO <sub>2</sub> @Ag/AgBr photocatalyst: Influencing factors, possible degradation pathways, and mechanism insight. <i>Journal of Catalysis</i> , 2018, 358, 141-154.	6.2	406
26	A facile strategy to fabricate hollow cadmium sulfide nanospheres with nanoparticles-textured surface for hexavalent chromium reduction and bacterial inactivation. <i>Journal of Colloid and Interface Science</i> , 2018, 514, 396-406.	9.4	29
27	Construction of highly efficient and stable ternary AgBr/Ag/PbBiO <sub>2</sub> Br Z-scheme photocatalyst under visible light irradiation: Performance and mechanism insight. <i>Journal of Colloid and Interface Science</i> , 2018, 513, 852-865.	9.4	110
28	Photocatalytic degradation of levofloxacin by ternary Ag <sub>2</sub> CO <sub>3</sub> /CeO <sub>2</sub> /AgBr photocatalyst under visible-light irradiation: Degradation pathways, mineralization ability, and an accelerated interfacial charge transfer process study. <i>Journal of Catalysis</i> , 2018, 358, 211-223.	6.2	189
29	Efficient removal of Cd <sup>2+</sup> and Pb <sup>2+</sup> from aqueous solution with amino- and thiol-functionalized activated carbon: Isotherm and kinetics modeling. <i>Science of the Total Environment</i> , 2018, 635, 1331-1344.	8.0	162
30	Enhanced Escherichia coli inactivation and oxytetracycline hydrochloride degradation by a Z-scheme silver iodide decorated bismuth vanadate nanocomposite under visible light irradiation. <i>Journal of Colloid and Interface Science</i> , 2018, 512, 272-281.	9.4	73
31	A novel Ag <sub>2</sub> O/CeO <sub>2</sub> heterojunction photocatalysts for photocatalytic degradation of enrofloxacin: possible degradation pathways, mineralization activity and an in depth mechanism insight. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 701-714.	20.2	389
32	A novel pyrene-switching aptasensor for the detection of bisphenol A. <i>Analytical Methods</i> , 2018, 10, 4750-4755.	2.7	2
33	Ultrathin BiOCl Single-Crystalline Nanosheets with Large Reactive Facets Area and High Electron Mobility Efficiency: A Superior Candidate for High-Performance Dye Self-Photosensitization Photocatalytic Fuel Cell. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 39723-39734.	8.0	51
34	One-step in situ synthesis of CdS/SnO <sub>2</sub> heterostructure with excellent photocatalytic performance for Cr(VI) reduction and tetracycline degradation. <i>Chemical Engineering Journal</i> , 2018, 352, 863-875.	12.7	115
35	Construction of Direct Z-Scheme AgI/Bi <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> Nanojunction System with Enhanced Photocatalytic Activity: Accelerated Interfacial Charge Transfer Induced Efficient Cr(VI) Reduction, Tetracycline Degradation and Escherichia coli Inactivation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8003-8018.	6.7	171
36	Enhanced photocatalytic activity of CdS/SnS <sub>2</sub> nanocomposite with highly-efficient charge transfer and visible light utilization for selective reduction of 4-nitroaniline. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 557-570.	9.4	37

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37	SrTiO <sub>3</sub> nanocubes decorated with Ag/AgCl nanoparticles as photocatalysts with enhanced visible-light photocatalytic activity towards the degradation of dyes, phenol and bisphenol A. <i>Environmental Science: Nano</i> , 2017, 4, 585-595.	4.3	172
38	AgI nanoparticles-decorated CeO <sub>2</sub> microsheets photocatalyst for the degradation of organic dye and tetracycline under visible-light irradiation. <i>Journal of Colloid and Interface Science</i> , 2017, 497, 368-377.	9.4	106
39	Controlled Growth of BiOCl with Large {010} Facets for Dye Self-Photosensitization Photocatalytic Fuel Cells Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4619-4629.	6.7	76
40	Fabrication of SnO <sub>2</sub> Nanoparticles/BiOI n-p Heterostructure for Wider Spectrum Visible-Light Photocatalytic Degradation of Antibiotic Oxytetracycline Hydrochloride. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 5134-5147.	6.7	223
41	Highly enhanced visible light photocatalytic activity of CeO <sub>2</sub> through fabricating a novel n junction BiOBr/CeO <sub>2</sub> . <i>Catalysis Communications</i> , 2017, 90, 51-55.	3.3	121
42	A Fluorescence Sensor for Lead (II) Ions Determination Based on Label-Free Gold Nanoparticles (GNPs)-DNAzyme Using Time-Gated Mode in Aqueous Solution. <i>Journal of Fluorescence</i> , 2017, 27, 643-649.	2.5	23
43	Effective removal of colourless pollutants and organic dyes by Ag@AgCl nanoparticle-modified CaSn(OH) <sub>6</sub> composite under visible light irradiation. <i>New Journal of Chemistry</i> , 2017, 41, 5334-5346.	2.8	38
44	Ag/AgCl nanoparticles-modified CdSnO <sub>3</sub> ·3H <sub>2</sub> O nanocubes photocatalyst for the degradation of methyl orange and antibiotics under visible light irradiation. <i>Journal of Colloid and Interface Science</i> , 2017, 505, 96-104.	9.4	33
45	Magnetic separate "turn-on" fluorescent biosensor for Bisphenol A based on magnetic oxidation graphene. <i>Talanta</i> , 2017, 168, 196-202.	5.5	37
46	Novel n heterojunction BiOI/CeO <sub>2</sub> photocatalyst for wider spectrum visible-light photocatalytic degradation of refractory pollutants. <i>Dalton Transactions</i> , 2017, 46, 4982-4993.	3.3	123
47	Facile preparation of magnetic chitosan modified with thiosemicarbazide for adsorption of copper ions from aqueous solution. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	6
48	Study of the photocatalytic degradation pathway of norfloxacin and mineralization activity using a novel ternary Ag/AgCl-CeO <sub>2</sub> photocatalyst. <i>Journal of Catalysis</i> , 2017, 355, 73-86.	6.2	195
49	An in depth mechanism insight of the degradation of multiple refractory pollutants via a novel SrTiO <sub>3</sub> /BiOI heterojunction photocatalysts. <i>Journal of Catalysis</i> , 2017, 356, 283-299.	6.2	105
50	In-situ synthesis of visible-light-driven plasmonic Ag/AgCl-CdWO <sub>4</sub> photocatalyst. <i>Ceramics International</i> , 2017, 43, 1922-1929.	4.8	54
51	Facile fabrication of BiOIO <sub>3</sub> /BiOBr composites with enhanced visible light photocatalytic activity. <i>RSC Advances</i> , 2016, 6, 64617-64625.	3.6	20
52	DTC-GO as Effective Adsorbent for the Removal of Cu <sup>2+</sup> and Cd <sup>2+</sup> from Aqueous Solution. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	2.4	15
53	Synthesis of fern-like Ag/AgCl/CaTiO <sub>3</sub> plasmonic photocatalysts and their enhanced visible-light photocatalytic properties. <i>RSC Advances</i> , 2016, 6, 47873-47882.	3.6	65
54	High-efficiency visible-light AgI/Ag/Bi <sub>2</sub> MoO <sub>6</sub> as a Z-scheme photocatalyst for environmental applications. <i>RSC Advances</i> , 2016, 6, 10221-10228.	3.6	46

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55	Facile synthesis of a visible light $\text{Fe}_2\text{O}_3/\text{BiOBr}$ composite with high photocatalytic performance. <i>RSC Advances</i> , 2016, 6, 4035-4042.	3.6	44
56	Inactivation performance and mechanism of <i>Escherichia coli</i> in aqueous system exposed to iron oxide loaded graphene nanocomposites. <i>Journal of Hazardous Materials</i> , 2014, 276, 66-76.	12.4	87
57	Sensitive and renewable picloram immunosensor based on paramagnetic immobilisation. <i>International Journal of Environmental Analytical Chemistry</i> , 2012, 92, 729-741.	3.3	8
58	Decolorization of an azo dye Orange G in microbial fuel cells using Fe(II)-EDTA catalyzed persulfate. <i>Bioresource Technology</i> , 2012, 126, 101-106.	9.6	51
59	Rapid detection of <i>Staphylococcus aureus</i> via a sensitive DNA hybridization assay based on a long-lifetime luminescent europium marker. <i>Mikrochimica Acta</i> , 2011, 175, 105-112.	5.0	10
60	A novel bifunctional europium chelate applied in quantitative determination of human immunoglobulin G using time-resolved fluoroimmunoassay. <i>Analytical Biochemistry</i> , 2011, 409, 244-248.	2.4	21
61	Fluorescence sensor for water in organic solvents prepared from covalent immobilization of 4-morpholinyl-1, 8-naphthalimide. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1067-1074.	3.7	106
62	Fluorescence water sensor based on covalent immobilization of chalcone derivative. <i>Analytica Chimica Acta</i> , 2006, 577, 264-270.	5.4	141
63	Fluorescence ratiometric pH sensor prepared from covalently immobilized porphyrin and benzothioxanthene. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 383, 349-357.	3.7	44
64	Detection of phenylhydrazine based on lectin-glycoenzyme multilayer-film modified biosensor. <i>International Journal of Environmental Analytical Chemistry</i> , 2005, 85, 111-125.	3.3	18
65	A ratiometric fluorescence sensor with broad dynamic range based on two pH-sensitive fluorophores. <i>Analyst</i> , 2005, 130, 1551.	3.5	60
66	Determination of trace chromium(VI) by an inhibition-based enzyme biosensor incorporating an electropolymerized aniline membrane and ferrocene as electron transfer mediator. <i>International Journal of Environmental Analytical Chemistry</i> , 2004, 84, 761-774.	3.3	50
67	Aminobenzothiazole Schiff Base as a Fluorescence Carrier for Sensor Preparation and Furazolidone Assay. <i>Analytical Letters</i> , 2003, 36, 2609-2622.	1.8	5