

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	Photocatalytic degradation of ciprofloxacin by a novel Z-scheme CeO ₂ @Ag/AgBr photocatalyst: Influencing factors, possible degradation pathways, and mechanism insight. Journal of Catalysis, 2018, 358, 141-154.	6.2	406
2	A novel Ag ₂ O/CeO ₂ heterojunction photocatalysts for photocatalytic degradation of enrofloxacin: possible degradation pathways, mineralization activity and an in depth mechanism insight. Applied Catalysis B: Environmental, 2018, 221, 701-714.	20.2	389
3	Fabrication of SnO ₂ Nanoparticles/BiOI n-p Heterostructure for Wider Spectrum Visible-Light Photocatalytic Degradation of Antibiotic Oxytetracycline Hydrochloride. ACS Sustainable Chemistry and Engineering, 2017, 5, 5134-5147.	6.7	223
4	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. Applied Catalysis B: Environmental, 2020, 264, 118465.	20.2	219
5	Photocatalytic degradation of sulfamethazine using a direct Z-Scheme AgI/Bi ₄ V ₂ O ₁₁ photocatalyst: Mineralization activity, degradation pathways and promoted charge separation mechanism. Journal of Hazardous Materials, 2020, 385, 121508.	12.4	206
6	Study of the photocatalytic degradation pathway of norfloxacin and mineralization activity using a novel ternary Ag/AgCl-CeO ₂ photocatalyst. Journal of Catalysis, 2017, 355, 73-86.	6.2	195
7	Photocatalytic degradation of levofloxacin by ternary Ag ₂ CO ₃ /CeO ₂ /AgBr photocatalyst under visible-light irradiation: Degradation pathways, mineralization ability, and an accelerated interfacial charge transfer process study. Journal of Catalysis, 2018, 358, 211-223.	6.2	189
8	SrTiO ₃ nanocubes decorated with Ag/AgCl nanoparticles as photocatalysts with enhanced visible-light photocatalytic activity towards the degradation of dyes, phenol and bisphenol A. Environmental Science: Nano, 2017, 4, 585-595.	4.3	172
9	Construction of Direct Z-Scheme AgI/Bi ₂ Sn ₂ O ₇ Nanojunction System with Enhanced Photocatalytic Activity: Accelerated Interfacial Charge Transfer Induced Efficient Cr(VI) Reduction, Tetracycline Degradation and <i>Escherichia coli</i> Inactivation. ACS Sustainable Chemistry and Engineering, 2018, 6, 8003-8018.	6.7	171
10	Insight into the energy band alignment of magnetically separable Ag ₂ O/ZnFe ₂ O ₄ p-n heterostructure with rapid charge transfer assisted visible light photocatalysis. Journal of Catalysis, 2019, 370, 289-303.	6.2	165
11	Integrating the plasmonic effect and p-n heterojunction into a novel Ag/Ag ₂ O/PbBiO ₂ Br photocatalyst: Broadened light absorption and accelerated charge separation co-mediated highly efficient visible/NIR light photocatalysis. Chemical Engineering Journal, 2019, 360, 349-363.	12.7	165
12	Efficient removal of Cd ²⁺ and Pb ²⁺ from aqueous solution with amino- and thiol-functionalized activated carbon: Isotherm and kinetics modeling. Science of the Total Environment, 2018, 635, 1331-1344.	8.0	162
13	Recent developments on AgI based heterojunction photocatalytic systems in photocatalytic application. Chemical Engineering Journal, 2020, 383, 123083.	12.7	147
14	Fluorescence water sensor based on covalent immobilization of chalcone derivative. Analytica Chimica Acta, 2006, 577, 264-270.	5.4	141
15	Construction of 2D heterojunction system with enhanced photocatalytic performance: Plasmonic Bi and reduced graphene oxide co-modified Bi ₅ O ₇ I with high-speed charge transfer channels. Journal of Hazardous Materials, 2019, 361, 245-258.	12.4	132
16	Novel n-p heterojunction BiOI/CeO ₂ photocatalyst for wider spectrum visible-light photocatalytic degradation of refractory pollutants. Dalton Transactions, 2017, 46, 4982-4993.	3.3	123
17	Efficient degradation of Levofloxacin with magnetically separable ZnFe ₂ O ₄ /NCDs/Ag ₂ CO ₃ Z-scheme heterojunction photocatalyst: Vis-NIR light response ability and mechanism insight. Chemical Engineering Journal, 2020, 383, 123192.	12.7	123
18	Steering exciton dissociation and charge migration in green synthetic oxygen-substituted ultrathin porous graphitic carbon nitride for boosted photocatalytic reactive oxygen species generation. Chemical Engineering Journal, 2020, 385, 123919.	12.7	123

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19	Highly enhanced visible light photocatalytic activity of CeO ₂ through fabricating a novel p-n junction BiOBr/CeO ₂ . Catalysis Communications, 2017, 90, 51-55.	3.3	121
20	One-step in situ synthesis of CdS/SnO ₂ heterostructure with excellent photocatalytic performance for Cr(VI) reduction and tetracycline degradation. Chemical Engineering Journal, 2018, 352, 863-875.	12.7	115
21	Construction of highly efficient and stable ternary AgBr/Ag/PbBiO ₂ Br Z-scheme photocatalyst under visible light irradiation: Performance and mechanism insight. Journal of Colloid and Interface Science, 2018, 513, 852-865.	9.4	110
22	Facile assembly of g-C ₃ N ₄ /Ag ₂ CO ₃ /graphene oxide with a novel dual Z-scheme system for enhanced photocatalytic pollutant degradation. Applied Surface Science, 2019, 475, 421-434.	6.1	109
23	In situ constructing 2D/1D MgIn ₂ S ₄ /CdS heterojunction system with enhanced photocatalytic activity towards treatment of wastewater and H ₂ production. Journal of Colloid and Interface Science, 2020, 576, 264-279.	9.4	109
24	Fluorescence sensor for water in organic solvents prepared from covalent immobilization of 4-morpholinyl-1, 8-naphthalimide. Analytical and Bioanalytical Chemistry, 2007, 387, 1067-1074.	3.7	106
25	AgI nanoparticles-decorated CeO ₂ microsheets photocatalyst for the degradation of organic dye and tetracycline under visible-light irradiation. Journal of Colloid and Interface Science, 2017, 497, 368-377.	9.4	106
26	An in depth mechanism insight of the degradation of multiple refractory pollutants via a novel SrTiO ₃ /BiOI heterojunction photocatalysts. Journal of Catalysis, 2017, 356, 283-299.	6.2	105
27	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. Catalysis Science and Technology, 2018, 8, 1161-1175.	4.1	99
28	Inactivation performance and mechanism of Escherichia coli in aqueous system exposed to iron oxide loaded graphene nanocomposites. Journal of Hazardous Materials, 2014, 276, 66-76.	12.4	87
29	Metal-organic framework-derived CuCo/carbon as an efficient magnetic heterogeneous catalyst for persulfate activation and ciprofloxacin degradation. Journal of Hazardous Materials, 2022, 424, 127196.	12.4	85
30	Fabrication of visible-light-driven silver iodide modified iodine-deficient bismuth oxyiodides Z-scheme heterojunctions with enhanced photocatalytic activity for Escherichia coli inactivation and tetracycline degradation. Journal of Colloid and Interface Science, 2019, 533, 636-648.	9.4	79
31	Boosting molecular oxygen activation ability in self-assembled plasmonic p-n semiconductor photocatalytic heterojunction of WO ₃ /Ag@Ag ₂ O. Chemical Engineering Journal, 2019, 372, 12-25.	12.7	78
32	Controlled Growth of BiOCl with Large {010} Facets for Dye Self-Photosensitization Photocatalytic Fuel Cells Application. ACS Sustainable Chemistry and Engineering, 2017, 5, 4619-4629.	6.7	76
33	Enhanced Escherichia coli inactivation and oxytetracycline hydrochloride degradation by a Z-scheme silver iodide decorated bismuth vanadate nanocomposite under visible light irradiation. Journal of Colloid and Interface Science, 2018, 512, 272-281.	9.4	73
34	Synthesis of fern-like Ag/AgCl/CaTiO ₃ plasmonic photocatalysts and their enhanced visible-light photocatalytic properties. RSC Advances, 2016, 6, 47873-47882.	3.6	65
35	A ratiometric fluorescence sensor with broad dynamic range based on two pH-sensitive fluorophores. Analyst, The, 2005, 130, 1551.	3.5	60
36	A dual transfer strategy for boosting reactive oxygen species generation in ultrathin Z-scheme heterojunction driven by electronic field. Chemical Engineering Journal, 2020, 384, 123236.	12.7	60

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37	Integrating the Z-scheme heterojunction and hot electrons injection into a plasmonic-based Zn ₂ In ₂ S ₅ /W ₁₈ O ₄₉ 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
38	In-situ synthesis of visible-light-driven plasmonic Ag/AgCl-CdWO ₄ photocatalyst. <i>Ceramics International</i> , 2017, 43, 1922-1929.	4.8	54
39	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
40	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 & Interfaces</i> , 2018, 10, 39723-39734.	8.0	51
41	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
42	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
43	High-efficiency visible-light AgI/Ag ₂ MoO ₆ as a Z-scheme photocatalyst for environmental applications. <i>RSC Advances</i> , 2016, 6, 10221-10228.	3.6	46
44	Fluorescence ratiometric pH sensor prepared from covalently immobilized porphyrin and benzothioxanthene. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 383, 349-357.	3.7	44
45	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
46	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
47	Attachment of Ag/AgCl nanoparticles on CdMoO ₄ 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
48	Constructing magnetic and high-efficiency AgI/CuFe ₂ O ₄ 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
49	Effective removal of colourless pollutants and organic dyes by Ag@AgCl nanoparticle-modified CaSn(OH) ₆ composite under visible light irradiation. <i>New Journal of Chemistry</i> , 2017, 41, 5334-5346.	2.8	38
50	Magnetic separate "turn-on" fluorescent biosensor for Bisphenol A based on magnetic oxidation graphene. <i>Talanta</i> , 2017, 168, 196-202.	5.5	37
51	Enhanced photocatalytic activity of CdS/SnS ₂ 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
52	Ag/AgCl nanoparticles-modified CdSnO ₃ ·3H ₂ 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
53	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
54	Fabrication of a zinc tungstate-based a 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

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55	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
56	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
57	Facile fabrication of BiOIO ₃ /BiOBr composites with enhanced visible light photocatalytic activity. <i>RSC Advances</i> , 2016, 6, 64617-64625.	3.6	20
58	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
59	Controllable fabrication of a novel heterojunction composite: AgBr and Ag@Ag ₂ O co-modified Ag ₂ CO ₃ with excellent photocatalytic performance towards refractory pollutant degradation. <i>New Journal of Chemistry</i> , 2018, 42, 3270-3281.	2.8	17
60	DTC-GO as Effective Adsorbent for the Removal of Cu ²⁺ and Cd ²⁺ from Aqueous Solution. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	2.4	15
61	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
62	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
63	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
64	Sensitive and renewable picloram immunosensor based on paramagnetic immobilisation. <i>International Journal of Environmental Analytical Chemistry</i> , 2012, 92, 729-741.	3.3	8
65	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
66	Aminobenzothiazole Schiff Base as a Fluorescence Carrier for Sensor Preparation and Furazolidone Assay. <i>Analytical Letters</i> , 2003, 36, 2609-2622.	1.8	5
67	A novel pyrene-switching aptasensor for the detection of bisphenol A. <i>Analytical Methods</i> , 2018, 10, 4750-4755.	2.7	2