Xiao-Ju Wen

List of Publications by Year
in descending order

83	8,057	25034 57	56724 83
papers	citations	h-index	g-index

83	83	83	5653
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photocatalytic degradation of ciprofloxacin by a novel Z-scheme CeO2â€“Ag/AgBr photocatalyst: Influencing factors, possible degradation pathways, and mechanism insight. Journal of Catalysis, 2018, 358, 141-154.	6.2	406
2	A novel Ag2O/CeO2 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 SnO₂ Nanopaticles/BiOI nâ€“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/Bi4V2O11 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	Co-Mn layered double hydroxide as an effective heterogeneous catalyst for degradation of organic dyes by activation of peroxymonosulfate. Chemosphere, 2018, 204, 11-21.	8.2	193
8	Photocatalytic degradation of levofloxacin by ternary Ag2CO3/CeO2/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
9	SrTiO₃ 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
10	Construction of Direct Z-Scheme AgI/Bi₂Sn₂O₇ Nanojunction System with Enhanced Photocatalytic Activity: Accelerated Interfacial Charge Transfer Induced Efficient Cr(VI) Reduction, Tetracycline Degradation and Escherichia coli Inactivation. ACS Sustainable Chemistry and Engineering, 2018, 6, 8003-8018.	6.7	171
11	Insight into the energy band alignment of magnetically separable Ag2O/ZnFe2O4 p-n heterostructure with rapid charge transfer assisted visible light photocatalysis. Journal of Catalysis, 2019, 370, 289-303.	6.2	165
12	Integrating the plasmonic effect and p-n heterojunction into a novel Ag/Ag2O/PbBiO2Br 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
13	Visible-light-driven activation of peroxymonosulfate for accelerating ciprofloxacin degradation using CeO2/Co3O4 p-n heterojunction photocatalysts. Chemical Engineering Journal, 2020, 391, 123612.	12.7	159
14	Recent developments on AgI based heterojunction photocatalytic systems in photocatalytic application. Chemical Engineering Journal, 2020, 383, 123083.	12.7	147
15	Highly efficient activation of peroxymonosulfate by Co3O4/Bi2WO6 p-n heterojunction composites for the degradation of ciprofloxacin under visible light irradiation. Journal of Colloid and Interface Science, 2021, 588, 19-30.	9.4	147
16	Fluorescence water sensor based on covalent immobilization of chalcone derivative. Analytica Chimica Acta, 2006, 577, 264-270.	5.4	141
17	Construction of 2D heterojunction system with enhanced photocatalytic performance: Plasmonic Bi and reduced graphene oxide co-modified Bi5O7I with high-speed charge transfer channels. Journal of Hazardous Materials, 2019, 361, 245-258.	12.4	132
18	Novel pâ€“n heterojunction BiOI/CeO₂ photocatalyst for wider spectrum visible-light photocatalytic degradation of refractory pollutants. Dalton Transactions, 2017, 46, 4982-4993.	3.3	123

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19	Efficient degradation of Levofloxacin with magnetically separable ZnFe2O4/NCDs/Ag2CO3 Z-scheme heterojunction photocatalyst: Vis-NIR light response ability and mechanism insight. Chemical Engineering Journal, 2020, 383, 123192.	12.7	123
20	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
21	Silver-based semiconductor Z-scheme photocatalytic systems for environmental purification. Journal of Hazardous Materials, 2020, 390, 122128.	12.4	122
22	Highly enhanced visible light photocatalytic activity of CeO2 through fabricating a novel pâ€“n junction BiOBr/CeO2. Catalysis Communications, 2017, 90, 51-55.	3.3	121
23	Enhanced activation of peroxymonosulfate by magnetic Co3MnFeO6 nanoparticles for removal of carbamazepine: Efficiency, synergetic mechanism and stability. Chemical Engineering Journal, 2019, 362, 851-864.	12.7	121
24	Highly efficient activation of peroxymonosulfate by Co3O4/Bi2MoO6 p-n heterostructure composites for the degradation of norfloxacin under visible light irradiation. Separation and Purification Technology, 2021, 259, 118109.	7.9	118
25	One-step in situ synthesis of CdS/SnO2 heterostructure with excellent photocatalytic performance for Cr(VI) reduction and tetracycline degradation. Chemical Engineering Journal, 2018, 352, 863-875.	12.7	115
26	Constructing a plasma-based Schottky heterojunction for near-infrared-driven photothermal synergistic water disinfection: Synergetic effects and antibacterial mechanisms. Chemical Engineering Journal, 2021, 426, 131902.	12.7	112
27	Construction of highly efficient and stable ternary AgBr/Ag/PbBiO2Br Z-scheme photocatalyst under visible light irradiation: Performance and mechanism insight. Journal of Colloid and Interface Science, 2018, 513, 852-865.	9.4	110
28	Facile assembly of g-C3N4/Ag2CO3/graphene oxide with a novel dual Z-scheme system for enhanced photocatalytic pollutant degradation. Applied Surface Science, 2019, 475, 421-434.	6.1	109
29	In suit constructing 2D/1D MgIn2S4/CdS heterojunction system with enhanced photocatalytic activity towards treatment of wastewater and H2 production. Journal of Colloid and Interface Science, 2020, 576, 264-279.	9.4	109
30	Efficient photocatalytic H2 evolution and Cr(VI) reduction under visible light using a novel Z-scheme SnIn4S8/CeO2 heterojunction photocatalysts. Journal of Hazardous Materials, 2021, 416, 126217.	12.4	107
31	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
32	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
33	An in depth mechanism insight of the degradation of multiple refractory pollutants via a novel SrTiO3/BiOI heterojunction photocatalysts. Journal of Catalysis, 2017, 356, 283-299.	6.2	105
34	Photo-removal of 2,2â€²4,4â€²-tetrabromodiphenyl ether in liquid medium by reduced graphene oxide bridged artificial Z-scheme system of Ag@Ag3PO4/g-C3N4. Chemical Engineering Journal, 2019, 361, 373-386.	12.7	101
35	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
36	Few-layer graphitic carbon nitride nanosheet with controllable functionalization as an effective metal-free activator for peroxymonosulfate photocatalytic activation: Role of the energy band bending. Chemical Engineering Journal, 2020, 401, 126072.	12.7	99

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37	Incorporating Fe3C into B, N co-doped CNTs: Non-radical-dominated peroxymonosulfate catalytic activation mechanism. Chemical Engineering Journal, 2021, 405, 126686.	12.7	94
38	Insight into photocatalytic nitrogen fixation on graphitic carbon nitride: Defect-dopant strategy of nitrogen defect and boron dopant. Chemical Engineering Journal, 2020, 396, 125395.	12.7	92
39	Anchoring CuFe2O4 nanoparticles into N-doped carbon nanosheets for peroxymonosulfate activation: Built-in electric field dominated radical and non-radical process. Chemical Engineering Journal, 2021, 426, 130850.	12.7	91
40	Hollow tubular graphitic carbon nitride catalyst with adjustable nitrogen vacancy: Enhanced optical absorption and carrier separation for improving photocatalytic activity. Chemical Engineering Journal, 2020, 402, 126185.	12.7	89
41	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
42	In situ synthesis of visible-light-driven Z-scheme AgI/Bi2WO6 heterojunction photocatalysts with enhanced photocatalytic activity. Ceramics International, 2019, 45, 6340-6349.	4.8	85
43	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
44	Efficient photocatalytic nitrogen fixation to ammonia over bismuth monoxide quantum dots-modified defective ultrathin graphitic carbon nitride. Chemical Engineering Journal, 2021, 406, 126868.	12.7	84
45	Construction of dual S-scheme Ag2CO3/Bi4O5I2/g-C3N4 heterostructure photocatalyst with enhanced visible-light photocatalytic degradation for tetracycline. Chemical Engineering Journal, 2022, 438, 135471.	12.7	82
46	A novel fluorescence ratiometric pH sensor based on covalently immobilized piperazinyl-1,8-napthalimide and benzothioxanthene. Sensors and Actuators B: Chemical, 2006, 114, 308-315.	7.8	79
47	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
48	Boosting molecular oxygen activation ability in self-assembled plasmonic p-n semiconductor photocatalytic heterojunction of WO3/Ag@Ag2O. Chemical Engineering Journal, 2019, 372, 12-25.	12.7	78
49	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
50	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
51	Novel Z-scheme W18O49/CeO2 heterojunction for improved photocatalytic hydrogen evolution. Journal of Colloid and Interface Science, 2020, 579, 297-306.	9.4	73
52	Synthesis of fern-like Ag/AgCl/CaTiO₃ plasmonic photocatalysts and their enhanced visible-light photocatalytic properties. RSC Advances, 2016, 6, 47873-47882.	3.6	65
53	A study on advanced oxidation mechanism of MnCo2O4/g-C3N4 degradation of nitrobenzene: Sacrificial oxidation and radical oxidation. Chemical Engineering Journal, 2021, 403, 126400.	12.7	64
54	A ratiometric fluorescence sensor with broad dynamic range based on two pH-sensitive fluorophores. Analyst, The, 2005, 130, 1551.	3.5	60

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55	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
56	Highly crystalline porous carbon nitride with electron accumulation capacity: Promoting exciton dissociation and charge carrier generation for photocatalytic molecular oxygen activation. Chemical Engineering Journal, 2021, 409, 128030.	12.7	60
57	Integrating the Z-scheme heterojunction and hot electrons injection into a plasmonic-based Zn2In2S5/W18O49 composite induced improved molecular oxygen activation for photocatalytic degradation and antibacterial performance. Journal of Colloid and Interface Science, 2022, 610, 953-969.	9.4	59
58	In-situ synthesis of visible-light-driven plasmonic Ag/AgCl-CdWO4 photocatalyst. Ceramics International, 2017, 43, 1922-1929.	4.8	54
59	Interfacial Co-N bond bridged CoB/g-C3N4 Schottky junction with modulated charge transfer dynamics for highly efficient photocatalytic Staphylococcus aureus inactivation. Chemical Engineering Journal, 2021, 422, 130029.	12.7	52
60	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. ACS Applied Materials & Interfaces, 2018, 10, 39723-39734.	8.0	51
61	2D/2D Heterojunction systems for the removal of organic pollutants: A review. Advances in Colloid and Interface Science, 2021, 297, 102540.	14.7	51
62	High-efficiency visible-light AgI/Ag/Bi₂MoO₆ as a Z-scheme photocatalyst for environmental applications. RSC Advances, 2016, 6, 10221-10228.	3.6	46
63	Facile synthesis of a visible light Î±-Fe₂O₃/BiOBr composite with high photocatalytic performance. RSC Advances, 2016, 6, 4035-4042.	3.6	44
64	A fluorescent ratiometric sensor based on covalent immobilization of chalcone derivative and porphyrin Zinc for detecting water content in organic solvents. Sensors and Actuators B: Chemical, 2017, 243, 1046-1056.	7.8	44
65	Construction of a high-performance photocatalytic fuel cell (PFC) based on plasmonic silver modified Cr-BiOCl nanosheets for simultaneous electricity production and pollutant removal. Nanoscale, 2019, 11, 6662-6676.	5.6	44
66	Attachment of Ag/AgCl nanoparticles on CdMoO4 microspheres for effective degradation of doxycycline under visible light irradiation: Degradation pathways and mineralization activity. Journal of Molecular Liquids, 2019, 288, 111063.	4.9	42
67	Constructing magnetic and high-efficiency AgI/CuFe2O4 photocatalysts for inactivation of Escherichia coli and Staphylococcus aureus under visible light: Inactivation performance and mechanism analysis. Science of the Total Environment, 2019, 668, 730-742.	8.0	42
68	Template-free synthesis of three-dimensional porous CdS/TiO2 with high stability and excellent visible photocatalytic activity. Materials Chemistry and Physics, 2018, 212, 69-77.	4.0	40
69	Insights into the role of reactive oxygen species in photocatalytic H2O2 generation and OTC removal over a novel BN/Zn3In2S6 heterojunction. Journal of Hazardous Materials, 2022, 438, 129483.	12.4	39
70	Effective removal of colourless pollutants and organic dyes by Ag@AgCl nanoparticle-modified CaSn(OH)6 composite under visible light irradiation. New Journal of Chemistry, 2017, 41, 5334-5346.	2.8	38
71	Enhanced photocatalytic activity of CdS/SnS2 nanocomposite with highly-efficient charge transfer and visible light utilization for selective reduction of 4-nitroaniline. Journal of Colloid and Interface Science, 2018, 532, 557-570.	9.4	37
72	Covalently immobilized aminonaphthalimide as fluorescent carrier for the preparation of optical sensors. Analytical and Bioanalytical Chemistry, 2002, 372, 519-524.	3.7	35

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73	Ag/AgCl nanoparticles-modified CdSnO3Â·3H2O nanocubes photocatalyst for the degradation of methyl orange and antibiotics under visible light irradiation. Journal of Colloid and Interface Science, 2017, 505, 96-104.	9.4	33
74	Enhanced visible light photocatalytic activity of CdMoO4 microspheres modified with AgI nanoparticles. Catalysis Communications, 2016, 86, 124-128.	3.3	31
75	A facile strategy to fabricate hollow cadmium sulfide nanospheres with nanoparticles-textured surface for hexavalent chromium reduction and bacterial inactivation. Journal of Colloid and Interface Science, 2018, 514, 396-406.	9.4	29
76	Fabrication of a zinc tungstate-based a p-n heterojunction photocatalysts towards refractory pollutants degradation under visible light irradiation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 573, 137-145.	4.7	28
77	Synthesis of Ag/AgCl hollow spheres based on the Cu2O nanospheres as template and their excellent photocatalytic property. Molecular Catalysis, 2017, 436, 100-110.	2.0	22
78	Facile fabrication of BiOIO₃/BiOBr composites with enhanced visible light photocatalytic activity. RSC Advances, 2016, 6, 64617-64625.	3.6	20
79	An internal reference fluorescent pH sensor with two pH-sensitive fluorophores carrier. Sensors and Actuators B: Chemical, 2016, 234, 593-601.	7.8	19
80	Controllable fabrication of a novel heterojunction composite: AgBr and Ag@Ag₂O co-modified Ag₂CO₃ with excellent photocatalytic performance towards refractory pollutant degradation. New Journal of Chemistry, 2018, 42, 3270-3281.	2.8	17
81	DTC-GO as Effective Adsorbent for the Removal of Cu2+ and Cd2+ from Aqueous Solution. Water, Air, and Soil Pollution, 2016, 227, 1.	2.4	15
82	Effective adsorption of chloroanilines from aqueous solution by m-phenylenediamine modified hyper-cross-linked resin: Kinetic, equilibrium, and thermodynamic studies. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 601, 124996.	4.7	12
83	Lanthanum hydroxides modified poly(epichlorohydrin)-ethylenediamine composites for highly efficient phosphate removal and bacteria disinfection. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 588, 124344.	4.7	9