

# Xiao-Ju Wen

## List of Publications by Year in descending order

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83  
papers

8,057  
citations

24978

57  
h-index

56606

83  
g-index

83  
all docs

83  
docs citations

83  
times ranked

5653  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.1	406
2	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.	10.8	389
3	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.	3.2	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. <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118465.	10.8	219
5	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.	6.5	206
6	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.	3.1	195
7	Co-Mn layered double hydroxide as an effective heterogeneous catalyst for degradation of organic dyes by activation of peroxymonosulfate. <i>Chemosphere</i> , 2018, 204, 11-21.	4.2	193
8	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.	3.1	189
9	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.	2.2	172
10	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 <i>Escherichia coli</i> Inactivation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8003-8018.	3.2	171
11	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.	3.1	165
12	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.	6.6	165
13	Visible-light-driven activation of peroxymonosulfate for accelerating ciprofloxacin degradation using CeO <sub>2</sub> /Co <sub>3</sub> O <sub>4</sub> p-n heterojunction photocatalysts. <i>Chemical Engineering Journal</i> , 2020, 391, 123612.	6.6	159
14	Recent developments on AgI based heterojunction photocatalytic systems in photocatalytic application. <i>Chemical Engineering Journal</i> , 2020, 383, 123083.	6.6	147
15	Highly efficient activation of peroxymonosulfate by Co <sub>3</sub> O <sub>4</sub> /Bi <sub>2</sub> WO <sub>6</sub> p-n heterojunction composites for the degradation of ciprofloxacin under visible light irradiation. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 19-30.	5.0	147
16	Fluorescence water sensor based on covalent immobilization of chalcone derivative. <i>Analytica Chimica Acta</i> , 2006, 577, 264-270.	2.6	141
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.	6.5	132
18	Novel p-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.	1.6	123

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19	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.	6.6	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. <i>Chemical Engineering Journal</i> , 2020, 385, 123919.	6.6	123
21	Silver-based semiconductor Z-scheme photocatalytic systems for environmental purification. <i>Journal of Hazardous Materials</i> , 2020, 390, 122128.	6.5	122
22	Highly enhanced visible light photocatalytic activity of CeO <sub>2</sub> through fabricating a novel p-n junction BiOBr/CeO <sub>2</sub> . <i>Catalysis Communications</i> , 2017, 90, 51-55.	1.6	121
23	Enhanced activation of peroxydisulfate by magnetic Co <sub>3</sub> MnFeO <sub>6</sub> nanoparticles for removal of carbamazepine: Efficiency, synergetic mechanism and stability. <i>Chemical Engineering Journal</i> , 2019, 362, 851-864.	6.6	121
24	Highly efficient activation of peroxydisulfate by Co <sub>3</sub> O <sub>4</sub> /Bi <sub>2</sub> MoO <sub>6</sub> p-n heterostructure composites for the degradation of norfloxacin under visible light irradiation. <i>Separation and Purification Technology</i> , 2021, 259, 118109.	3.9	118
25	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.	6.6	115
26	Constructing a plasma-based Schottky heterojunction for near-infrared-driven photothermal synergistic water disinfection: Synergetic effects and antibacterial mechanisms. <i>Chemical Engineering Journal</i> , 2021, 426, 131902.	6.6	112
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.	5.0	110
28	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.	3.1	109
29	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.	5.0	109
30	Efficient photocatalytic H <sub>2</sub> evolution and Cr(VI) reduction under visible light using a novel Z-scheme SnIn <sub>4</sub> S <sub>8</sub> /CeO <sub>2</sub> heterojunction photocatalysts. <i>Journal of Hazardous Materials</i> , 2021, 416, 126217.	6.5	107
31	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.	1.9	106
32	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.	5.0	106
33	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.	3.1	105
34	Photo-removal of 2,2,4,4-tetrabromodiphenyl ether in liquid medium by reduced graphene oxide bridged artificial Z-scheme system of Ag@Ag <sub>3</sub> PO <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> . <i>Chemical Engineering Journal</i> , 2019, 361, 373-386.	6.6	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. <i>Catalysis Science and Technology</i> , 2018, 8, 1161-1175.	2.1	99
36	Few-layer graphitic carbon nitride nanosheet with controllable functionalization as an effective metal-free activator for peroxydisulfate photocatalytic activation: Role of the energy band bending. <i>Chemical Engineering Journal</i> , 2020, 401, 126072.	6.6	99

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37	Incorporating Fe <sub>3</sub> C into B, N co-doped CNTs: Non-radical-dominated peroxymonosulfate catalytic activation mechanism. <i>Chemical Engineering Journal</i> , 2021, 405, 126686.	6.6	94
38	Insight into photocatalytic nitrogen fixation on graphitic carbon nitride: Defect-dopant strategy of nitrogen defect and boron dopant. <i>Chemical Engineering Journal</i> , 2020, 396, 125395.	6.6	92
39	Anchoring CuFe <sub>2</sub> O <sub>4</sub> nanoparticles into N-doped carbon nanosheets for peroxymonosulfate activation: Built-in electric field dominated radical and non-radical process. <i>Chemical Engineering Journal</i> , 2021, 426, 130850.	6.6	91
40	Hollow tubular graphitic carbon nitride catalyst with adjustable nitrogen vacancy: Enhanced optical absorption and carrier separation for improving photocatalytic activity. <i>Chemical Engineering Journal</i> , 2020, 402, 126185.	6.6	89
41	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.	6.5	87
42	In situ synthesis of visible-light-driven Z-scheme AgI/Bi <sub>2</sub> WO <sub>6</sub> heterojunction photocatalysts with enhanced photocatalytic activity. <i>Ceramics International</i> , 2019, 45, 6340-6349.	2.3	85
43	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.	6.5	85
44	Efficient photocatalytic nitrogen fixation to ammonia over bismuth monoxide quantum dots-modified defective ultrathin graphitic carbon nitride. <i>Chemical Engineering Journal</i> , 2021, 406, 126868.	6.6	84
45	Construction of dual S-scheme Ag <sub>2</sub> CO <sub>3</sub> /Bi <sub>4</sub> O <sub>5</sub> I <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> heterostructure photocatalyst with enhanced visible-light photocatalytic degradation for tetracycline. <i>Chemical Engineering Journal</i> , 2022, 438, 135471.	6.6	82
46	A novel fluorescence ratiometric pH sensor based on covalently immobilized piperazinyl-1,8-naphthalimide and benzothioxanthene. <i>Sensors and Actuators B: Chemical</i> , 2006, 114, 308-315.	4.0	79
47	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.	5.0	79
48	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.	6.6	78
49	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.	3.2	76
50	Enhanced <i>Escherichia coli</i> 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.	5.0	73
51	Novel Z-scheme W <sub>18</sub> O <sub>49</sub> /CeO <sub>2</sub> heterojunction for improved photocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2020, 579, 297-306.	5.0	73
52	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.	1.7	65
53	A study on advanced oxidation mechanism of MnCo <sub>2</sub> O <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> degradation of nitrobenzene: Sacrificial oxidation and radical oxidation. <i>Chemical Engineering Journal</i> , 2021, 403, 126400.	6.6	64
54	A ratiometric fluorescence sensor with broad dynamic range based on two pH-sensitive fluorophores. <i>Analyst</i> , 2005, 130, 1551.	1.7	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. <i>Chemical Engineering Journal</i> , 2020, 384, 123236.	6.6	60
56	Highly crystalline porous carbon nitride with electron accumulation capacity: Promoting exciton dissociation and charge carrier generation for photocatalytic molecular oxygen activation. <i>Chemical Engineering Journal</i> , 2021, 409, 128030.	6.6	60
57	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.	5.0	59
58	In-situ synthesis of visible-light-driven plasmonic Ag/AgCl-CdWO <sub>4</sub> photocatalyst. <i>Ceramics International</i> , 2017, 43, 1922-1929.	2.3	54
59	Interfacial Co-N bond bridged CoB/g-C <sub>3</sub> N <sub>4</sub> Schottky junction with modulated charge transfer dynamics for highly efficient photocatalytic <i>Staphylococcus aureus</i> inactivation. <i>Chemical Engineering Journal</i> , 2021, 422, 130029.	6.6	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. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 39723-39734.	4.0	51
61	2D/2D Heterojunction systems for the removal of organic pollutants: A review. <i>Advances in Colloid and Interface Science</i> , 2021, 297, 102540.	7.0	51
62	High-efficiency visible-light AgI/Ag <sub>2</sub> MoO <sub>6</sub> as a Z-scheme photocatalyst for environmental applications. <i>RSC Advances</i> , 2016, 6, 10221-10228.	1.7	46
63	Facile synthesis of a visible light $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> /BiOBr composite with high photocatalytic performance. <i>RSC Advances</i> , 2016, 6, 4035-4042.	1.7	44
64	A fluorescent ratiometric sensor based on covalent immobilization of chalcone derivative and porphyrin Zinc for detecting water content in organic solvents. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 1046-1056.	4.0	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. <i>Nanoscale</i> , 2019, 11, 6662-6676.	2.8	44
66	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.	2.3	42
67	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.	3.9	42
68	Template-free synthesis of three-dimensional porous CdS/TiO <sub>2</sub> with high stability and excellent visible photocatalytic activity. <i>Materials Chemistry and Physics</i> , 2018, 212, 69-77.	2.0	40
69	Insights into the role of reactive oxygen species in photocatalytic H <sub>2</sub> O <sub>2</sub> generation and OTC removal over a novel BN/Zn <sub>3</sub> In <sub>2</sub> S <sub>6</sub> heterojunction. <i>Journal of Hazardous Materials</i> , 2022, 438, 129483.	6.5	39
70	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.	1.4	38
71	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.	5.0	37
72	Covalently immobilized aminonaphthalimide as fluorescent carrier for the preparation of optical sensors. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 372, 519-524.	1.9	35

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73	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.	5.0	33
74	Enhanced visible light photocatalytic activity of CdMoO <sub>4</sub> microspheres modified with AgI nanoparticles. <i>Catalysis Communications</i> , 2016, 86, 124-128.	1.6	31
75	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.	5.0	29
76	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.	2.3	28
77	Synthesis of Ag/AgCl hollow spheres based on the Cu <sub>2</sub> O nanospheres as template and their excellent photocatalytic property. <i>Molecular Catalysis</i> , 2017, 436, 100-110.	1.0	22
78	Facile fabrication of BiOIO <sub>3</sub> /BiOBr composites with enhanced visible light photocatalytic activity. <i>RSC Advances</i> , 2016, 6, 64617-64625.	1.7	20
79	An internal reference fluorescent pH sensor with two pH-sensitive fluorophores carrier. <i>Sensors and Actuators B: Chemical</i> , 2016, 234, 593-601.	4.0	19
80	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.	1.4	17
81	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.	1.1	15
82	Effective adsorption of chloroanilines from aqueous solution by m-phenylenediamine modified hyper-cross-linked resin: Kinetic, equilibrium, and thermodynamic studies. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 601, 124996.	2.3	12
83	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.	2.3	9