

Gongduan Fan

List of Publications by Year in descending order

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87
papers

2,381
citations

172457

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docs citations

87
times ranked

1812
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid synthesis of Ag/AgCl@ZIF-8 as a highly efficient photocatalyst for degradation of acetaminophen under visible light. <i>Chemical Engineering Journal</i> , 2018, 351, 782-790.	12.7	163
2	Stable Ag ₂ O/g-C ₃ N ₄ p-n heterojunction photocatalysts for efficient inactivation of harmful algae under visible light. <i>Applied Catalysis B: Environmental</i> , 2020, 265, 118610.	20.2	128
3	Double photoelectron-transfer mechanism in Ag ⁺ /AgCl/WO ₃ /g-C ₃ N ₄ photocatalyst with enhanced visible-light photocatalytic activity for trimethoprim degradation. <i>Journal of Hazardous Materials</i> , 2021, 403, 123964.	12.4	116
4	Fabrication of heterostructured Ag/AgCl@g-C ₃ N ₄ @UIO-66(NH ₂) nanocomposite for efficient photocatalytic inactivation of <i>Microcystis aeruginosa</i> under visible light. <i>Journal of Hazardous Materials</i> , 2021, 404, 124062.	12.4	113
5	Mussel-inspired polydopamine modification of polymeric membranes for the application of water and wastewater treatment: A review. <i>Chemical Engineering Research and Design</i> , 2020, 157, 195-214.	5.6	87
6	Effect of biopolymers and humic substances on gypsum scaling and membrane wetting during membrane distillation. <i>Journal of Membrane Science</i> , 2021, 617, 118638.	8.2	78
7	Growth inhibition of harmful cyanobacteria by nanocrystalline Cu-MOF-74: Efficiency and its mechanisms. <i>Journal of Hazardous Materials</i> , 2019, 367, 529-538.	12.4	66
8	Efficient integration of plasmonic Ag/AgCl with perovskite-type LaFeO ₃ : Enhanced visible-light photocatalytic activity for removal of harmful algae. <i>Journal of Hazardous Materials</i> , 2021, 409, 125018.	12.4	66
9	Inactivation of harmful cyanobacteria by Ag/AgCl@ZIF-8 coating under visible light: Efficiency and its mechanisms. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117866.	20.2	63
10	DOM removal by flocculation process: Fluorescence excitation-emission matrix spectroscopy (EEMs) characterization. <i>Desalination</i> , 2014, 346, 38-45.	8.2	62
11	Nitrogen removal from urban stormwater runoff by stepped bioretention systems. <i>Ecological Engineering</i> , 2017, 106, 340-348.	3.6	60
12	Porous self-floating 3D Ag ₂ O/g-C ₃ N ₄ hydrogel and photocatalytic inactivation of <i>Microcystis aeruginosa</i> under visible light. <i>Chemical Engineering Journal</i> , 2021, 404, 126509.	12.7	60
13	Magnetically separable ZnFe ₂ O ₄ /Ag ₃ PO ₄ /g-C ₃ N ₄ photocatalyst for inactivation of <i>Microcystis aeruginosa</i> : Characterization, performance and mechanism. <i>Journal of Hazardous Materials</i> , 2022, 421, 126703.	12.4	60
14	Occurrence and risk assessment of steroid estrogens in environmental water samples: A five-year worldwide perspective. <i>Environmental Pollution</i> , 2020, 267, 115405.	7.5	57
15	Doping Ag/AgCl in zeolitic imidazolate framework-8 (ZIF-8) to enhance the performance of photodegradation of methylene blue. <i>Chemosphere</i> , 2018, 209, 44-52.	8.2	56
16	Migration and transformation of nitrogen in bioretention system during rainfall runoff. <i>Chemosphere</i> , 2019, 232, 54-62.	8.2	48
17	Sono-photo hybrid process for the synergistic degradation of levofloxacin by FeVO ₄ /BiVO ₄ : Mechanisms and kinetics. <i>Environmental Research</i> , 2022, 204, 112032.	7.5	46
18	Photocatalytic inactivation of harmful algae and degradation of cyanotoxins microcystin-LR using GO-based Z-scheme nanocatalysts under visible light. <i>Chemical Engineering Journal</i> , 2020, 392, 123767.	12.7	45

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19	An innovative S-scheme AgCl/MIL-100(Fe) heterojunction for visible-light-driven degradation of sulfamethazine and mechanism insight. <i>Journal of Hazardous Materials</i> , 2022, 435, 129061.	12.4	45
20	Toward a better understanding of coagulation for dissolved organic nitrogen using polymeric zinc-iron-phosphate coagulant. <i>Water Research</i> , 2016, 100, 201-210.	11.3	42
21	Effect of residual commercial antiscalants on gypsum scaling and membrane wetting during direct contact membrane distillation. <i>Desalination</i> , 2020, 486, 114493.	8.2	39
22	Simultaneous removal of harmful algal cells and toxins by a Ag ₂ CO ₃ -N:GO photocatalyst coating under visible light. <i>Science of the Total Environment</i> , 2020, 741, 140341.	8.0	38
23	Fast photocatalytic inactivation of <i>Microcystis aeruginosa</i> by metal-organic frameworks under visible light. <i>Chemosphere</i> , 2020, 239, 124721.	8.2	37
24	The influence of land use on source apportionment and risk assessment of polycyclic aromatic hydrocarbons in road-deposited sediment. <i>Environmental Pollution</i> , 2017, 229, 705-714.	7.5	35
25	Degradation of acetaminophen in aqueous solution under visible light irradiation by Bi-modified titanate nanomaterials: morphology effect, kinetics and mechanism. <i>Catalysis Science and Technology</i> , 2018, 8, 5906-5919.	4.1	33
26	Evaluation of applying membrane distillation for landfill leachate treatment. <i>Desalination</i> , 2021, 520, 115358.	8.2	33
27	Recyclable self-floating A-GUN-coated foam as effective visible-light-driven photocatalyst for inactivation of <i>Microcystis aeruginosa</i> . <i>Journal of Hazardous Materials</i> , 2021, 419, 126407.	12.4	32
28	Photocatalytic degradation of naproxen by a H ₂ O ₂ -modified titanate nanomaterial under visible light irradiation. <i>Catalysis Science and Technology</i> , 2019, 9, 4614-4628.	4.1	31
29	Growth inhibition of <i>Microcystis aeruginosa</i> by metal-organic frameworks: effect of variety, metal ion and organic ligand. <i>RSC Advances</i> , 2018, 8, 35314-35326.	3.6	30
30	The influence of heavy metals in road dust on the surface runoff quality: Kinetic, isotherm, and sequential extraction investigations. <i>Ecotoxicology and Environmental Safety</i> , 2019, 176, 270-278.	6.0	30
31	Tertiary treatment of secondary effluent using ultrafiltration for wastewater reuse: correlating membrane fouling with rejection of effluent organic matter and hydrophobic pharmaceuticals. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 672-683.	2.4	30
32	Z-scheme Ag ₃ PO ₄ @polyaniline core-shell nanocomposite with high visible light photocatalytic performance for <i>Microcystis aeruginosa</i> inactivation. <i>Chemical Engineering Journal</i> , 2022, 427, 132005.	12.7	30
33	Growth Inhibition of <i>Microcystis aeruginosa</i> by Copper-based MOFs: Performance and Physiological Effect on Algal Cells. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4600.	3.5	29
34	Membrane distillation treatment of landfill leachate: Characteristics and mechanism of membrane fouling. <i>Separation and Purification Technology</i> , 2022, 289, 120787.	7.9	28
35	Membrane fouling control by UV/persulfate in tertiary wastewater treatment with ultrafiltration: A comparison with UV/hydroperoxide and role of free radicals. <i>Separation and Purification Technology</i> , 2021, 257, 117877.	7.9	27
36	Integration of seeding- and heating-induced crystallization with membrane distillation for membrane gypsum scaling and wetting control. <i>Desalination</i> , 2021, 511, 115115.	8.2	27

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37	Visible-light-driven photocatalytic degradation of naproxen by Bi-modified titanate nanobulks: Synthesis, degradation pathway and mechanism. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 386, 112108.	3.9	26
38	Effects of low impact development on the stormwater runoff and pollution control. <i>Science of the Total Environment</i> , 2022, 805, 150404.	8.0	25
39	Enhancing the antifouling and rejection properties of PVDF membrane by Ag ₃ PO ₄ -GO modification. <i>Science of the Total Environment</i> , 2021, 801, 149611.	8.0	21
40	Mussel-Inspired Immobilization of Photocatalysts with Synergistic Photocatalytic-Photothermal Performance for Water Remediation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 31066-31076.	8.0	20
41	Concentration decline in response to source shift of trace metals in Elbe River, Germany: A long-term trend analysis during 1998-2016. <i>Environmental Pollution</i> , 2019, 250, 511-519.	7.5	18
42	Photocatalytic membrane for in situ enhanced removal of semi-volatile organic compounds in membrane distillation under visible light. <i>Separation and Purification Technology</i> , 2022, 292, 121068.	7.9	16
43	Characterizing the anthropogenic-induced trace elements in an urban aquatic environment: A source apportionment and risk assessment with uncertainty consideration. <i>Journal of Environmental Management</i> , 2020, 275, 111288.	7.8	15
44	Operating parameters optimization of combined UF/NF dual-membrane process for brackish water treatment and its application performance in municipal drinking water treatment plant. <i>Journal of Water Process Engineering</i> , 2020, 38, 101547.	5.6	15
45	Hydrologic characteristics and nitrogen removal performance by different formulated soil medium of bioretention system. <i>Journal of Cleaner Production</i> , 2021, 290, 125873.	9.3	15
46	Membrane Distillation for Wastewater Treatment: A Mini Review. <i>Water (Switzerland)</i> , 2021, 13, 3480.	2.7	15
47	Photocatalytic Removal of Harmful Algae in Natural Waters by Ag/AgCl@ZIF-8 Coating under Sunlight. <i>Catalysts</i> , 2019, 9, 698.	3.5	14
48	Oxidation-enhanced ferric coagulation for alleviating ultrafiltration membrane fouling by algal organic matter: A comparison of moderate and strong oxidation. <i>Algal Research</i> , 2022, 63, 102652.	4.6	14
49	Spatio-temporal distribution and transformation of 17 β - and 17 α -estradiol in sterilized soil: A column experiment. <i>Journal of Hazardous Materials</i> , 2020, 389, 122092.	12.4	13
50	Damaging effects of ultrasonic treatment on the photosynthetic system of <i>Microcystis aeruginosa</i> . , 0, 78, 350-359.		13
51	Metal-organic-framework-based photocatalysts for microorganism inactivation: a review. <i>Catalysis Science and Technology</i> , 2022, 12, 3767-3777.	4.1	13
52	Removal of Cr (VI) from aqueous solutions by titanate nanomaterials synthesized via hydrothermal method. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 717-723.	1.7	12
53	High removal of nitrogen and phosphorus from black-odorous water using a novel aeration-adsorption system. <i>Environmental Chemistry Letters</i> , 2022, 20, 2243-2251.	16.2	12
54	Self-floating photocatalytic hydrogel for efficient removal of <i>Microcystis aeruginosa</i> and degradation of microcystins-LR. <i>Chemosphere</i> , 2021, 284, 131283.	8.2	11

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55	Inhibitory Effects of Cu ₂ O/SiO ₂ on the Growth of <i>Microcystis aeruginosa</i> and Its Mechanism. <i>Nanomaterials</i> , 2019, 9, 1669.	4.1	10
56	Metagenomics reveals functional species and microbial mechanisms of an enriched thiosulfate-driven denitrification consortia. <i>Bioresource Technology</i> , 2021, 341, 125916.	9.6	10
57	Sonophotocatalytic degradation of 17 β -estradiol by Er ³⁺ -CdS/MoS ₂ : The role and transformation of reactive oxygen species. <i>Journal of Cleaner Production</i> , 2022, 333, 130203.	9.3	9
58	Enhanced photocatalytic performance of Z-scheme N-doped Ag ₂ CO ₃ /GO (AGON) for microcystin-LR remediation under visible light. <i>Journal of Water Process Engineering</i> , 2021, 39, 101882.	5.6	8
59	Preventive inhibition mechanism of algae by ultrasound based on analysis of physiological characteristics. , 0, 68, 70-79.		8
60	Microbial community and nitrogen transformation pathway in bioretention system for stormwater treatment in response to formulated soil medium. <i>Chemical Engineering Research and Design</i> , 2022, 161, 594-602.	5.6	8
61	Forecasting traffic-related nitrogen oxides within a street canyon by combining a genetic algorithm-back propagation artificial neural network and parametric models. <i>Atmospheric Pollution Research</i> , 2015, 6, 1087-1097.	3.8	7
62	Influence of Membrane Materials and Operational Modes on the Performance of Ultrafiltration Modules for Drinking Water Treatment. <i>International Journal of Polymer Science</i> , 2016, 2016, 1-8.	2.7	7
63	Impact of Extracellular Polymeric Substance in the Inactivation of Harmful Algae by Ag ₂ O/g-C ₃ N ₄ under Visible Light. <i>Particle and Particle Systems Characterization</i> , 2021, 38, 2000272.	2.3	7
64	A citrate-loaded nano-zero-valent iron heterogeneous Fenton system for steroid estrogens degradation under different acidity levels: The effects and mechanisms. <i>Chemical Engineering Journal</i> , 2021, 421, 129967.	12.7	7
65	Strategy of Rainwater Discharge in Combined Sewage Intercepting Manhole Based on Water Quality Control. <i>Water (Switzerland)</i> , 2019, 11, 898.	2.7	6
66	Algae-laden water treatment with ultrafiltration: effects of moderate oxidation by Fe(II)/permanganate on hydraulically irreversible fouling and deposition of iron and manganese oxides. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 122-133.	2.4	6
67	Water Quality-Based Double-Gates Control Strategy for Combined Sewer Overflows Pollution Control. <i>Water (Switzerland)</i> , 2021, 13, 529.	2.7	6
68	Response Surface Design for the Optimization of the Removal of <i>Chlorella pyrenoidosa</i> Low Frequency Ultrasonic Irradiation. <i>Asian Journal of Chemistry</i> , 2013, 25, 202-208.	0.3	4
69	Synthesis and Characterization of the Optical Properties of Pt-TiO ₂ Nanotubes. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-9.	2.7	3
70	Optimization of remedial nano-agent and its effect on dominant algal species succession in eutrophic water body. <i>Journal of Environmental Management</i> , 2021, 281, 111884.	7.8	3
71	Parameter Optimization of Ultrasound Technology for Algae Removal and its Application in Pengxi River of Three Gorges Reservoir. <i>Asian Journal of Chemistry</i> , 2014, 26, 1165-1170.	0.3	2
72	Optimization of Integrated Ultrafiltration Processes Using Response Surface Methodology. <i>Environmental Engineering Science</i> , 2017, 34, 165-176.	1.6	2

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73	Migration and abiotic transformation of estrone (E1) and estrone-3-sulfate (E1-3S) during soil column transport. <i>Environmental Geochemistry and Health</i> , 2022, 44, 911-924.	3.4	2
74	Enhanced degradation capability of white-rot fungi after short-term pre-exposure to silver ion: Performance and selectively antimicrobial mechanisms. <i>Science of the Total Environment</i> , 2022, 818, 151672.	8.0	2
75	Optimization of <i>Chlorella pyrenoidosa</i> Removal by Low Frequency Ultrasonic Irradiation Using Response Surface Design. <i>Advanced Materials Research</i> , 2011, 295-297, 1860-1865.	0.3	1
76	Influence factors in kinetics during removal of harmful algae by ultrasonic irradiation process. <i>Desalination and Water Treatment</i> , 2014, 52, 7317-7322.	1.0	1
77	Removal of organics by combined process of coagulation-chlorination-ultrafiltration: optimization of overall operation parameters. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 2703-2714.	2.2	1
78	Impact of structure and morphology of titanate nanomaterials on Pb ²⁺ adsorption in aqueous solution. , 0, 136, 306-319.		1
79	Effects of ultrasonic irradiation on organic matter of <i>Microcystis aeruginosa</i> cells. , 0, 129, 101-115.		1
80	Photocatalytic inactivation of algae in a fluidized bed photoreactor with an external magnetic field. <i>Journal of Environmental Management</i> , 2022, 307, 114552.	7.8	1
81	Analysis of the Water Intake Technology of Open-Lakes Water Source Heat Pump System in Chongqing. <i>Advanced Materials Research</i> , 2011, 250-253, 3168-3172.	0.3	0
82	The Application of Low-Frequency and Low-Power Ultrasound Algae Removal Technology in Pengxi River in Three Gorges Area. <i>Advanced Materials Research</i> , 2011, 295-297, 1852-1855.	0.3	0
83	The Characteristics of Lakes of Water Source Heat Pump Systems in Chongqing. , 2011, , .		0
84	Response Surface Design for Optimization of <i>Microcystis aeruginosa</i> Removal by Ultrasonic Irradiation. <i>Asian Journal of Chemistry</i> , 2014, 26, 6967-6974.	0.3	0
85	Response surface methodology for optimization of ZIF-8 synthesis conditions to enhance its removing capability for Pb(II) in aqueous solutions. , 0, 135, 141-156.		0
86	Influence of H ⁺ and Na ⁺ ions on the morphology of titanate nanomaterial and its adsorption property of lead. , 0, 136, 320-331.		0
87	Spatio-temporal variations of salinity and analysis of desalination factors in a Chinese coastal storage reservoir. <i>Chemical Engineering Research and Design</i> , 2022, 159, 26-35.	5.6	0