

# Hui Gong

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

935

citations

18

h-index

29

g-index

69

ext. papers

1,283

ext. citations

7.8

avg, IF

4.81

L-index

#	Paper	IF	Citations
62	Municipal wastewater treatment in China: Development history and future perspectives. <i>Frontiers of Environmental Science and Engineering</i> , <b>2019</b> , 13, 1	5.8	127
61	Introduction to the CDEX experiment. <i>Frontiers of Physics</i> , <b>2013</b> , 8, 412-437	3.7	70
60	Nitrogen recovery from low-strength wastewater by combined membrane capacitive deionization (MCDI) and ion exchange (IE) process. <i>Chemical Engineering Journal</i> , <b>2017</b> , 316, 1-6	14.7	69
59	Recovering ammonia from municipal wastewater by flow-electrode capacitive deionization. <i>Chemical Engineering Journal</i> , <b>2018</b> , 348, 301-309	14.7	63
58	Concentrating process of liquid digestate by disk tube-reverse osmosis system. <i>Desalination</i> , <b>2013</b> , 326, 30-36	10.3	40
57	Organics and nitrogen recovery from sewage via membrane-based pre-concentration combined with ion exchange process. <i>Chemical Engineering Journal</i> , <b>2017</b> , 311, 13-19	14.7	39
56	An overview of removing heavy metals from sewage sludge: Achievements and perspectives. <i>Environmental Pollution</i> , <b>2020</b> , 266, 115375	9.3	35
55	Efficient sewage pre-concentration with combined coagulation microfiltration for organic matter recovery. <i>Chemical Engineering Journal</i> , <b>2016</b> , 292, 130-138	14.7	34
54	Application of hybrid coagulation microfiltration with air backflushing to direct sewage concentration for organic matter recovery. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 283, 824-31	12.8	33
53	Enhanced membrane-based pre-concentration improves wastewater organic matter recovery: Pilot-scale performance and membrane fouling. <i>Journal of Cleaner Production</i> , <b>2019</b> , 206, 307-314	10.3	30
52	Strategies to improve aerobic granular sludge stability and nitrogen removal based on feeding mode and substrate. <i>Journal of Environmental Sciences</i> , <b>2019</b> , 84, 144-154	6.4	29
51	Aerobic granules cultivated with simultaneous feeding/draw mode and low-strength wastewater: Performance and bacterial community analysis. <i>Bioresource Technology</i> , <b>2018</b> , 261, 232-239	11	27
50	Effects of adsorbent cake layer on membrane fouling during hybrid coagulation/adsorption microfiltration for sewage organic recovery. <i>Chemical Engineering Journal</i> , <b>2017</b> , 317, 751-757	14.7	26
49	Application of in-situ H-assisted biogas upgrading in high-rate anaerobic wastewater treatment. <i>Bioresource Technology</i> , <b>2020</b> , 299, 122598	11	25
48	Membrane fouling controlled by coagulation/adsorption during direct sewage membrane filtration (DSMF) for organic matter concentration. <i>Journal of Environmental Sciences</i> , <b>2015</b> , 32, 1-7	6.4	24
47	Improved low-carbon-consuming fouling control in long-term membrane-based sewage pre-concentration: The role of enhanced coagulation process and air backflushing in sustainable sewage treatment. <i>Journal of Membrane Science</i> , <b>2017</b> , 529, 252-262	9.6	19
46	Direct sewage filtration for concentration of organic matters by dynamic membrane. <i>Water Science and Technology</i> , <b>2014</b> , 70, 1434-40	2.2	19

45	High-solid anaerobic digestion of sewage sludge: achievements and perspectives. <i>Frontiers of Environmental Science and Engineering</i> , <b>2021</b> , 15, 1	5.8	18
44	Redesigning C and N mass flows for energy-neutral wastewater treatment by coagulation adsorption enhanced membrane (CAEM)-based pre-concentration process. <i>Chemical Engineering Journal</i> , <b>2018</b> , 342, 304-309	14.7	17
43	Finding better draw solutes for osmotic heat engines: Understanding transport of ions during pressure retarded osmosis. <i>Desalination</i> , <b>2017</b> , 421, 32-39	10.3	16
42	Revealing the effect of preparation parameters on zeolite adsorption performance for low and medium concentrations of ammonium. <i>Journal of Environmental Sciences</i> , <b>2019</b> , 85, 177-188	6.4	13
41	Metagenomic analysis and characterization of acidogenic microbiome and effect of pH on organic acid production. <i>Archives of Microbiology</i> , <b>2019</b> , 201, 1163-1171	3	12
40	Evaluation of bacterial association in methane generation pathways of an anaerobic digesting sludge via metagenomic sequencing. <i>Archives of Microbiology</i> , <b>2020</b> , 202, 31-41	3	12
39	Insight into the benefits of anammox bacteria living as aggregates. <i>Bioresource Technology</i> , <b>2020</b> , 318, 124103	11	11
38	Optimizing dry anaerobic digestion at pilot scale for start-up strategy and long-term operation: Organic loading rate, temperature and co-digestion. <i>Bioresource Technology</i> , <b>2020</b> , 316, 123828	11	11
37	Integrating floc, aggregate and carrier to reap high-quality anammox biofilm. <i>Bioresource Technology</i> , <b>2020</b> , 309, 123325	11	11
36	Imbalanced Development and Economic Burden for Urban and Rural Wastewater Treatment in China Discharge Limit Legislation. <i>Sustainability</i> , <b>2018</b> , 10, 2597	3.6	10
35	First results on 76Ge neutrinoless double beta decay from CDEX-1 experiment. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2017</b> , 60, 1	3.6	9
34	Expected Rural Wastewater Treatment Promoted by Provincial Local Discharge Limit Legislation in China. <i>Sustainability</i> , <b>2019</b> , 11, 2756	3.6	6
33	Aerobic granular sludge formation based on substrate availability: Effects of flow pattern and fermentation pretreatment. <i>Frontiers of Environmental Science and Engineering</i> , <b>2020</b> , 14, 1	5.8	5
32	Pilot-Scale Hydrolysis-Aerobic Treatment for Actual Municipal Wastewater: Performance and Microbial Community Analysis. <i>International Journal of Environmental Research and Public Health</i> , <b>2018</b> , 15,	4.6	5
31	Time-resolved XAFS measurement using quick-scanning techniques at BSRF. <i>Journal of Synchrotron Radiation</i> , <b>2017</b> , 24, 674-678	2.4	5
30	Design of Giga bit Ethernet readout module based on ZYNQ for HPGc <b>2014</b> ,		5
29	Revealing the intrinsic differences between static and flow electrode capacitive deionization by introducing semi-flow electrodes. <i>Environmental Science: Water Research and Technology</i> , <b>2020</b> , 6, 362-372	4.2	5
28	Not-in-My-Backyard: Legislation Requirements and Economic Analysis for Developing Underground Wastewater Treatment Plant in China. <i>International Journal of Environmental Research and Public Health</i> , <b>2018</b> , 15,	4.6	5

27	Up-concentration processes of organics for municipal wastewater treatment: New trends in separation. <i>Science of the Total Environment</i> , <b>2021</b> , 787, 147690	10.2	5
26	Variations of heavy metals, nutrients, POPs and particle size distribution during "sludge anaerobic digestion-solar drying-land utilization process": Case study in China. <i>Science of the Total Environment</i> , <b>2021</b> , 801, 149609	10.2	5
25	Optimized scaling-up towards commercial ultrafiltration-pre-concentration-based integrated sewage resource recovery for cleaner production. <i>Journal of Cleaner Production</i> , <b>2020</b> , 269, 122275	10.3	4
24	Spontaneous mainstream anammox in a full-scale wastewater treatment plant with hybrid sludge retention time in a temperate zone of China. <i>Water Environment Research</i> , <b>2021</b> , 93, 854-864	2.8	4
23	Utilizing hydrolysis and acidification via liquid fraction of digestate (LFD-HA) for methane production enhancement of corn straw: Physicochemical and microbial community characterization. <i>Journal of Cleaner Production</i> , <b>2021</b> , 326, 129282	10.3	3
22	Performances of a prototype point-contact germanium detector immersed in liquid nitrogen for light dark matter search. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2019</b> , 62, 1	3.6	3
21	Advanced nitrogen removal in a fixed-bed anaerobic ammonia oxidation reactor following an anoxic/oxic reactor: Nitrogen removal contributions and mechanisms. <i>Bioresource Technology</i> , <b>2021</b> , 320, 124297	11	3
20	Unbalanced inhibition on granular and mixed anammox sludge by different molecular weight fractions of unbiodegradable proportion of sludge anaerobic digestion reject water. <i>Journal of Water Process Engineering</i> , <b>2021</b> , 42, 102197	6.7	3
19	The evaluation of GHG emissions from Shanghai municipal wastewater treatment plants based on IPCC and operational data integrated methods (ODIM). <i>Science of the Total Environment</i> , <b>2021</b> , 797, 148967	10.2	3
18	Fabrication of zeolite NaX-doped electrospun porous fiber membrane for simultaneous ammonium recovery and organic carbon enrichment. <i>Journal of Membrane Science</i> , <b>2020</b> , 603, 118030	9.6	2
17	Enhanced triallyl isocyanurate (TAIC) degradation through application of an O <sub>3</sub> /UV process: Performance optimization and degradation pathways. <i>Frontiers of Environmental Science and Engineering</i> , <b>2020</b> , 14, 1	5.8	2
16	A novel anammox aggregate nourished sustainably internal heterotrophic nitrate removal pathway with endogenous carbon source.. <i>Bioresource Technology</i> , <b>2021</b> , 346, 126525	11	2
15	Ammonia removal from low-strength municipal wastewater by powdered resin combined with simultaneous recovery as struvite. <i>Frontiers of Environmental Science and Engineering</i> , <b>2021</b> , 15, 1	5.8	2
14	Selective Ion Removal by Capacitive Deionization (CDI)-Based Technologies. <i>Processes</i> , <b>2022</b> , 10, 1075	2.9	2
13	Highly Sensitive Determination of Iron Ions in Water With Bromopyrogallol Red by Light Absorption Ratio Variation Spectrophotometry. <i>Instrumentation Science and Technology</i> , <b>2009</b> , 37, 204-217	1.4	1
12	Performance and microbial community evaluation of full-scale two-phase anaerobic digestion of waste activated sludge.. <i>Science of the Total Environment</i> , <b>2021</b> , 152525	10.2	1
11	First experimental constraints on WIMP couplings in the effective field theory framework from CDEX. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2021</b> , 64, 1	3.6	1
10	The transition temperature (42°C) from mesophilic to thermophilic micro-organisms enhances biomethane potential of corn stover. <i>Science of the Total Environment</i> , <b>2021</b> , 759, 143549	10.2	1

9	Conceptual design of the grazing-incidence focusing small-angle neutron scattering (gif-SANS) instrument at CPHS. <i>Journal of Neutron Research</i> , <b>2021</b> , 23, 201-205	0.5	1
8	Performance of partial nitrification - microfiltration-anammox (PN-MF-A) process with enhanced system stability via in-between membrane filtration for sludge anaerobic reject water treatment. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 106005	6.8	1
7	Hydrogenotrophic methanogenic granular sludge formation for highly efficient transforming hydrogen to CH <sub>4</sub> . <i>Journal of Environmental Management</i> , <b>2021</b> , 113999	7.9	0
6	Carbon-nitrogen nexus changed by improved organic carbon pre-concentration and autotrophic deammonification to improve wastewater treatment energy self-sufficiency. <i>Journal of Water Process Engineering</i> , <b>2021</b> , 44, 102432	6.7	0
5	Optimizing granular anammox retention via hydrocycloning during two-stage deammonification of high-solid sludge anaerobic digester supernatant. <i>Science of the Total Environment</i> , <b>2021</b> , 791, 148048	10.2	0
4	Advanced organic recovery from municipal wastewater with an enhanced magnetic separation (EMS) system: Pilot-scale verification.. <i>Water Research</i> , <b>2022</b> , 217, 118449	12.5	0
3	Modeling and optimization of the hydrolysis and acidification via liquid fraction of digestate from corn straw by response surface methodology and artificial neural network. <i>Journal of Cleaner Production</i> , <b>2022</b> , 132241	10.3	0
2	One-stage partial nitrification-anammox treatment of reject water from high-solid-sludge anaerobic digestion with thermal hydrolysis pretreatment: Inhibition and system recovery. <i>Journal of Environmental Chemical Engineering</i> , <b>2022</b> , 10, 107958	6.8	0
1	Design of the Online Integral Dose Monitor System for BESIII EMC. <i>Journal of Nuclear Science and Technology</i> , <b>2008</b> , 45, 253-255		1