

Yu Liu

List of Publications by Year in descending order

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349
papers

23,752
citations

7561

77
h-index

10724

138
g-index

367
all docs

367
docs citations

367
times ranked

16011
citing authors

#	ARTICLE	IF	CITATIONS
1	Biosorption isotherms, kinetics and thermodynamics. <i>Separation and Purification Technology</i> , 2008, 61, 229-242.	3.9	905
2	Is the Free Energy Change of Adsorption Correctly Calculated?. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 1981-1985.	1.0	885
3	The essential role of hydrodynamic shear force in the formation of biofilm and granular sludge. <i>Water Research</i> , 2002, 36, 1653-1665.	5.3	791
4	Principle and applications of microbubble and nanobubble technology for water treatment. <i>Chemosphere</i> , 2011, 84, 1175-1180.	4.2	695
5	State of the art of biogranulation technology for wastewater treatment. <i>Biotechnology Advances</i> , 2004, 22, 533-563.	6.0	670
6	Bioconversion of food waste to energy: A review. <i>Fuel</i> , 2014, 134, 389-399.	3.4	534
7	A comprehensive review on food waste anaerobic digestion: Research updates and tendencies. <i>Bioresource Technology</i> , 2018, 247, 1069-1076.	4.8	432
8	The effects of extracellular polymeric substances on the formation and stability of biogranules. <i>Applied Microbiology and Biotechnology</i> , 2004, 65, 143-8.	1.7	389
9	The effects of shear force on the formation, structure and metabolism of aerobic granules. <i>Applied Microbiology and Biotechnology</i> , 2001, 57, 227-233.	1.7	388
10	Microscopic observation of aerobic granulation in sequential aerobic sludge blanket reactor. <i>Journal of Applied Microbiology</i> , 2001, 91, 168-175.	1.4	335
11	High organic loading influences the physical characteristics of aerobic sludge granules. <i>Letters in Applied Microbiology</i> , 2002, 34, 407-412.	1.0	325
12	From Langmuir Kinetics to First- and Second-Order Rate Equations for Adsorption. <i>Langmuir</i> , 2008, 24, 11625-11630.	1.6	301
13	Causes and control of filamentous growth in aerobic granular sludge sequencing batch reactors. <i>Biotechnology Advances</i> , 2006, 24, 115-127.	6.0	293
14	Application of constructed wetlands for wastewater treatment in developing countries – A review of recent developments (2000–2013). <i>Journal of Environmental Management</i> , 2014, 141, 116-131.	3.8	264
15	Mechanisms and models for anaerobic granulation in upflow anaerobic sludge blanket reactor. <i>Water Research</i> , 2003, 37, 661-673.	5.3	250
16	Impacts of salinity on the performance of high retention membrane bioreactors for water reclamation: A review. <i>Water Research</i> , 2010, 44, 21-40.	5.3	231
17	Turning food waste to energy and resources towards a great environmental and economic sustainability: An innovative integrated biological approach. <i>Biotechnology Advances</i> , 2019, 37, 107414.	6.0	218
18	The role of cellular polysaccharides in the formation and stability of aerobic granules. <i>Letters in Applied Microbiology</i> , 2001, 33, 222-226.	1.0	215

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19	Chemically reduced excess sludge production in the activated sludge process. <i>Chemosphere</i> , 2003, 50, 1-7.	4.2	209
20	New insights into pseudo-second-order kinetic equation for adsorption. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 320, 275-278.	2.3	206
21	Strategy for minimization of excess sludge production from the activated sludge process. <i>Biotechnology Advances</i> , 2001, 19, 97-107.	6.0	199
22	Some consideration on the Langmuir isotherm equation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 274, 34-36.	2.3	186
23	Effect of settling time on aerobic granulation in sequencing batch reactor. <i>Biochemical Engineering Journal</i> , 2004, 21, 47-52.	1.8	184
24	Improved stability of aerobic granules by selecting slow-growing nitrifying bacteria. <i>Journal of Biotechnology</i> , 2004, 108, 161-169.	1.9	184
25	Distribution of EPS and cell surface hydrophobicity in aerobic granules. <i>Applied Microbiology and Biotechnology</i> , 2005, 69, 469-473.	1.7	180
26	Equilibrium, thermodynamics and mechanisms of Ni ²⁺ biosorption by aerobic granules. <i>Biochemical Engineering Journal</i> , 2007, 35, 174-182.	1.8	180
27	Biological control of microbial attachment: a promising alternative for mitigating membrane biofouling. <i>Applied Microbiology and Biotechnology</i> , 2010, 86, 825-837.	1.7	177
28	Fouling and wetting in membrane distillation (MD) and MD-bioreactor (MDBR) for wastewater reclamation. <i>Desalination</i> , 2013, 323, 39-47.	4.0	175
29	The influence of cell and substratum surface hydrophobicities on microbial attachment. <i>Journal of Biotechnology</i> , 2004, 110, 251-256.	1.9	170
30	A general model for biosorption of Cd ²⁺ , Cu ²⁺ and Zn ²⁺ by aerobic granules. <i>Journal of Biotechnology</i> , 2003, 102, 233-239.	1.9	167
31	Selection pressure is a driving force of aerobic granulation in sequencing batch reactors. <i>Process Biochemistry</i> , 2004, 39, 579-584.	1.8	163
32	Effect of shear stress and growth conditions on detachment and physical properties of biofilms. <i>Water Research</i> , 2012, 46, 5499-5508.	5.3	161
33	A self-sustaining synergetic microalgal-bacterial granular sludge process towards energy-efficient and environmentally sustainable municipal wastewater treatment. <i>Water Research</i> , 2020, 179, 115884.	5.3	160
34	The challenges of mainstream deammonification process for municipal used water treatment. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 2485-2490.	1.7	158
35	Enzymatic pretreatment of activated sludge, food waste and their mixture for enhanced bioenergy recovery and waste volume reduction via anaerobic digestion. <i>Applied Energy</i> , 2016, 179, 1131-1137.	5.1	157
36	Selection pressure-driven aerobic granulation in a sequencing batch reactor. <i>Applied Microbiology and Biotechnology</i> , 2005, 67, 26-32.	1.7	153

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37	Towards mainstream deammonification of municipal wastewater: Partial nitrification-anammox versus partial denitrification-anammox. <i>Science of the Total Environment</i> , 2019, 692, 393-401.	3.9	149
38	COD capture: a feasible option towards energy self-sufficient domestic wastewater treatment. <i>Scientific Reports</i> , 2016, 6, 25054.	1.6	148
39	Characteristics of Aerobic Granules Grown on Glucose and Acetate in Sequential Aerobic Sludge Blanket Reactors. <i>Environmental Technology (United Kingdom)</i> , 2002, 23, 931-936.	1.2	147
40	Decontamination of radioactive wastewater: State of the art and challenges forward. <i>Chemosphere</i> , 2019, 215, 543-553.	4.2	141
41	Study of integration of forward osmosis and biological process: Membrane performance under elevated salt environment. <i>Desalination</i> , 2011, 283, 123-130.	4.0	139
42	Ca ²⁺ augmentation for enhancement of aerobically grown microbial granules in sludge blanket reactors. <i>Biotechnology Letters</i> , 2003, 25, 95-99.	1.1	134
43	Inhibition of free ammonia to the formation of aerobic granules. <i>Biochemical Engineering Journal</i> , 2004, 17, 41-48.	1.8	134
44	Migration and potential risk of trace phthalates in bottled water: A global situation. <i>Water Research</i> , 2018, 147, 362-372.	5.3	134
45	The role of transparent exopolymer particles (TEP) in membrane fouling: A critical review. <i>Water Research</i> , 2020, 181, 115930.	5.3	128
46	Cell hydrophobicity is a triggering force of biogranulation. <i>Enzyme and Microbial Technology</i> , 2004, 34, 371-379.	1.6	127
47	Fouling propensity of forward osmosis: investigation of the slower flux decline phenomenon. <i>Water Science and Technology</i> , 2010, 61, 927-936.	1.2	127
48	Bioremediation of wastewaters with recalcitrant organic compounds and metals by aerobic granules. <i>Biotechnology Advances</i> , 2011, 29, 111-123.	6.0	123
49	A novel granular sludge sequencing batch reactor for removal of organic and nitrogen from wastewater. <i>Journal of Biotechnology</i> , 2003, 106, 77-86.	1.9	121
50	Biodiesels from microbial oils: Opportunity and challenges. <i>Bioresource Technology</i> , 2018, 263, 631-641.	4.8	121
51	Factors affecting flux performance of forward osmosis systems. <i>Journal of Membrane Science</i> , 2012, 394-395, 151-168.	4.1	118
52	Mainstream anammox in a novel A-2B process for energy-efficient municipal wastewater treatment with minimized sludge production. <i>Water Research</i> , 2018, 138, 1-6.	5.3	117
53	Insights into removal mechanisms of bisphenol A and its analogues in municipal wastewater treatment plants. <i>Science of the Total Environment</i> , 2019, 692, 107-116.	3.9	116
54	Bioethanol production from mixed food waste by an effective enzymatic pretreatment. <i>Fuel</i> , 2015, 159, 463-469.	3.4	114

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55	Metabolic response of biofilm to shear stress in fixed-film culture. <i>Journal of Applied Microbiology</i> , 2001, 90, 337-342.	1.4	111
56	Anaerobic granulation technology for wastewater treatment. <i>World Journal of Microbiology and Biotechnology</i> , 2002, 18, 99-113.	1.7	110
57	Application of constructed wetlands for wastewater treatment in tropical and subtropical regions (2000–2013). <i>Journal of Environmental Sciences</i> , 2015, 30, 30-46.	3.2	110
58	Enhancing the hydrolysis and methane production potential of mixed food waste by an effective enzymatic pretreatment. <i>Bioresource Technology</i> , 2015, 183, 47-52.	4.8	109
59	Development and characteristics of phosphorus-accumulating microbial granules in sequencing batch reactors. <i>Applied Microbiology and Biotechnology</i> , 2003, 62, 430-435.	1.7	107
60	State of the art of biological processes for coal gasification wastewater treatment. <i>Biotechnology Advances</i> , 2016, 34, 1064-1072.	6.0	103
61	Effect of pH on nickel biosorption by aerobic granular sludge. <i>Bioresource Technology</i> , 2006, 97, 359-363.	4.8	100
62	Dissolved Methane: A Hurdle for Anaerobic Treatment of Municipal Wastewater. <i>Environmental Science & Technology</i> , 2014, 48, 889-890.	4.6	100
63	Mechanisms of Cd ²⁺ , Cu ²⁺ and Ni ²⁺ biosorption by aerobic granules. <i>Separation and Purification Technology</i> , 2008, 58, 400-411.	3.9	97
64	A general rate law equation for biosorption. <i>Biochemical Engineering Journal</i> , 2008, 38, 390-394.	1.8	94
65	Hydraulic selection pressure-induced nitrifying granulation in sequencing batch reactors. <i>Applied Microbiology and Biotechnology</i> , 2002, 59, 332-337.	1.7	92
66	New insight into enhanced production of short-chain fatty acids from waste activated sludge by cation exchange resin-induced hydrolysis. <i>Chemical Engineering Journal</i> , 2020, 388, 124235.	6.6	92
67	Denitrification on poly- β -hydroxybutyrate in microbial granular sludge sequencing batch reactor. <i>Water Research</i> , 2005, 39, 1503-1510.	5.3	91
68	Energy self-sufficient biological municipal wastewater reclamation: Present status, challenges and solutions forward. <i>Bioresource Technology</i> , 2018, 269, 513-519.	4.8	89
69	State of the art of osmotic membrane bioreactors for water reclamation. <i>Bioresource Technology</i> , 2012, 122, 217-222.	4.8	88
70	Bisphenol analogues in Chinese bottled water: Quantification and potential risk analysis. <i>Science of the Total Environment</i> , 2020, 713, 136583.	3.9	88
71	Substrate concentration-independent aerobic granulation in sequential aerobic sludge blanket reactor. <i>Environmental Technology (United Kingdom)</i> , 2003, 24, 1235-1242.	1.2	87
72	Role and significance of extracellular polymeric substances from granular sludge for simultaneous removal of organic matter and ammonia nitrogen. <i>Bioresource Technology</i> , 2015, 179, 460-466.	4.8	87

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73	Biosorption kinetics of cadmium(II) on aerobic granular sludge. <i>Process Biochemistry</i> , 2003, 38, 997-1001.	1.8	86
74	Advanced treatment of biologically treated coking wastewater by membrane distillation coupled with pre-coagulation. <i>Desalination</i> , 2016, 380, 43-51.	4.0	85
75	The Role of Cell Hydrophobicity in the Formation of Aerobic Granules. <i>Current Microbiology</i> , 2003, 46, 270-274.	1.0	82
76	The role of SBR mixed liquor volume exchange ratio in aerobic granulation. <i>Chemosphere</i> , 2006, 62, 767-771.	4.2	82
77	Evaluation of anaerobic digestion of food waste and waste activated sludge: Soluble COD versus its chemical composition. <i>Science of the Total Environment</i> , 2018, 643, 21-27.	3.9	82
78	Intermolecular interactions of polysaccharides in membrane fouling during microfiltration. <i>Water Research</i> , 2018, 143, 38-46.	5.3	82
79	Characterization of soluble microbial products (SMPs) in a membrane bioreactor (MBR) treating synthetic wastewater containing pharmaceutical compounds. <i>Water Research</i> , 2016, 102, 594-606.	5.3	81
80	Utilization of a metabolic uncoupler, 3,3',4,4'-tetrachlorosalicylanilide (TCS) to reduce sludge growth in activated sludge culture. <i>Water Research</i> , 2002, 36, 2077-2083.	5.3	80
81	New insights into co-digestion of activated sludge and food waste: Biogas versus biofertilizer. <i>Bioresource Technology</i> , 2017, 241, 448-453.	4.8	80
82	Engineering feasibility, economic viability and environmental sustainability of energy recovery from nitrous oxide in biological wastewater treatment plant. <i>Bioresource Technology</i> , 2019, 282, 514-519.	4.8	78
83	Overview of some theoretical approaches for derivation of the Monod equation. <i>Applied Microbiology and Biotechnology</i> , 2007, 73, 1241-1250.	1.7	77
84	Remediation technologies for oil-contaminated sediments. <i>Marine Pollution Bulletin</i> , 2015, 101, 483-490.	2.3	77
85	Enhanced membrane biofouling potential by on-line chemical cleaning in membrane bioreactor. <i>Journal of Membrane Science</i> , 2016, 511, 84-91.	4.1	77
86	Microalgal-bacterial granular sludge process: A game changer of future municipal wastewater treatment?. <i>Science of the Total Environment</i> , 2021, 752, 141957.	3.9	77
87	Diffusion of substrate and oxygen in aerobic granule. <i>Biochemical Engineering Journal</i> , 2005, 27, 45-52.	1.8	76
88	Ultrafiltration behaviors of alginate blocks at various calcium concentrations. <i>Water Research</i> , 2015, 83, 248-257.	5.3	76
89	Platform chemical production from food wastes using a biorefinery concept. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1364-1379.	1.6	76
90	Effect of crude glycerol impurities on lipid preparation by <i>Rhodospiridium toruloides</i> yeast 32489. <i>Bioresource Technology</i> , 2016, 218, 373-379.	4.8	76

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91	Enzyme Production from Food Wastes Using a Biorefinery Concept. Waste and Biomass Valorization, 2014, 5, 903-917.	1.8	74
92	An integrated engineering system for maximizing bioenergy production from food waste. Applied Energy, 2017, 206, 83-89.	5.1	74
93	Biodegradability of extracellular polymeric substances produced by aerobic granules. Applied Microbiology and Biotechnology, 2007, 74, 462-466.	1.7	72
94	Generation of dissolved organic matter and byproducts from activated sludge during contact with sodium hypochlorite and its implications to on-line chemical cleaning in MBR. Water Research, 2016, 104, 44-52.	5.3	72
95	Phytotoxicity and bioaccumulation of ZnO nanoparticles in Schoenoplectus tabernaemontani. Chemosphere, 2015, 120, 211-219.	4.2	70
96	State of the art of straw treatment technology: Challenges and solutions forward. Bioresource Technology, 2020, 313, 123656.	4.8	69
97	Control and Cleaning of Membrane Biofouling by Energy Uncoupling and Cellular Communication. Environmental Science & Technology, 2011, 45, 595-601.	4.6	68
98	d-Amino acid mitigated membrane biofouling and promoted biofilm detachment. Journal of Membrane Science, 2011, 376, 266-274.	4.1	68
99	Is anaerobic digestion a reliable barrier for deactivation of pathogens in biosludge?. Science of the Total Environment, 2019, 668, 893-902.	3.9	68
100	Natural adsorption of methylene blue by waste fallen leaves of Magnoliaceae and its repeated thermal regeneration for reuse. Journal of Cleaner Production, 2020, 267, 121903.	4.6	68
101	Treatment of high salinity brines by direct contact membrane distillation: Effect of membrane characteristics and salinity. Chemosphere, 2015, 140, 143-149.	4.2	67
102	Harvesting of microalgae <i>Desmodesmus</i> sp. F51 by bioflocculation with bacterial bioflocculant. Algal Research, 2014, 6, 186-193.	2.4	66
103	Temperature-effect on the performance of non-aerated microalgal-bacterial granular sludge process in municipal wastewater treatment. Journal of Environmental Management, 2021, 282, 111955.	3.8	66
104	Impact of a biofouling layer on the vapor pressure driving force and performance of a membrane distillation process. Journal of Membrane Science, 2013, 438, 140-152.	4.1	65
105	A novel single-stage process integrating simultaneous COD oxidation, partial nitrification-denitrification and anammox (SCONDA) for treating ammonia-rich organic wastewater. Bioresource Technology, 2018, 254, 50-55.	4.8	65
106	An innovative anaerobic MBR-reverse osmosis-ion exchange process for energy-efficient reclamation of municipal wastewater to NEWater-like product water. Journal of Cleaner Production, 2019, 230, 1287-1293.	4.6	64
107	Chemical cleaning-associated generation of dissolved organic matter and halogenated byproducts in ceramic MBR: Ozone versus hypochlorite. Water Research, 2018, 140, 243-250.	5.3	63
108	Phytoextraction, phytotransformation and rhizodegradation of ibuprofen associated with <i>Typha angustifolia</i> in a horizontal subsurface flow constructed wetland. Water Research, 2016, 102, 294-304.	5.3	61

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109	An integrated AMBBR and IFAS-SBR process for municipal wastewater treatment towards enhanced energy recovery, reduced energy consumption and sludge production. <i>Water Research</i> , 2017, 110, 262-269.	5.3	61
110	A holistic approach for food waste management towards zero-solid disposal and energy/resource recovery. <i>Bioresource Technology</i> , 2017, 228, 56-61.	4.8	60
111	Fate of tetracycline in enhanced biological nutrient removal process. <i>Chemosphere</i> , 2018, 193, 998-1003.	4.2	60
112	Nanomaterials for radioactive wastewater decontamination. <i>Environmental Science: Nano</i> , 2020, 7, 1008-1040.	2.2	60
113	Growth kinetics of aerobic granules developed in sequencing batch reactors. <i>Letters in Applied Microbiology</i> , 2004, 38, 106-112.	1.0	59
114	Biodegradation of 2-chloroaniline, 3-chloroaniline, and 4-chloroaniline by a novel strain <i>Delftia tsuruhatensis</i> H1. <i>Journal of Hazardous Materials</i> , 2010, 179, 875-882.	6.5	59
115	Roles of ATP-dependent N-acylhomoserine lactones (AHLs) and extracellular polymeric substances (EPSs) in aerobic granulation. <i>Chemosphere</i> , 2012, 88, 1058-1064.	4.2	59
116	Electric energy production from food waste: Microbial fuel cells versus anaerobic digestion. <i>Bioresource Technology</i> , 2018, 255, 281-287.	4.8	59
117	Removal mechanisms of phosphorus in non-aerated microalgal-bacterial granular sludge process. <i>Bioresource Technology</i> , 2020, 312, 123531.	4.8	58
118	Detachment forces and their influence on the structure and metabolic behaviour of biofilms. <i>World Journal of Microbiology and Biotechnology</i> , 2001, 17, 111-117.	1.7	57
119	Metabolic uncouplers reduce excess sludge production in an activated sludge process. <i>Process Biochemistry</i> , 2003, 38, 1373-1377.	1.8	57
120	Alginate block fractions and their effects on membrane fouling. <i>Water Research</i> , 2013, 47, 6618-6627.	5.3	57
121	Relationship between size and mass transfer resistance in aerobic granules. <i>Letters in Applied Microbiology</i> , 2005, 40, 312-315.	1.0	56
122	Global review of phthalates in edible oil: An emerging and nonnegligible exposure source to human. <i>Science of the Total Environment</i> , 2020, 704, 135369.	3.9	56
123	Defensive responses of microalgal-bacterial granules to tetracycline in municipal wastewater treatment. <i>Bioresource Technology</i> , 2020, 312, 123605.	4.8	56
124	Effect of Pharmaceuticals on the Performance of a Novel Osmotic Membrane Bioreactor (OMBR). <i>Separation Science and Technology</i> , 2012, 47, 543-554.	1.3	55
125	Effect of tetracycline on microbial community structure associated with enhanced biological N&P removal in sequencing batch reactor. <i>Bioresource Technology</i> , 2018, 256, 414-420.	4.8	55
126	Bioenergetic interpretation on the SOXO ratio in substrate-sufficient batch culture. <i>Water Research</i> , 1996, 30, 2766-2770.	5.3	54

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127	Importance of extracellular proteins in maintaining structural integrity of aerobic granules. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 112, 435-440.	2.5	54
128	Single-stage versus two-stage anaerobic fluidized bed bioreactors in treating municipal wastewater: Performance, foulant characteristics, and microbial community. <i>Chemosphere</i> , 2017, 171, 158-167.	4.2	54
129	Effect of Substrate Nitrogen/Chemical Oxygen Demand Ratio on the Formation of Aerobic Granules. <i>Journal of Environmental Engineering, ASCE</i> , 2005, 131, 86-92.	0.7	53
130	Reduced microbial attachment by d-amino acid-inhibited AI-2 and EPS production. <i>Water Research</i> , 2011, 45, 5796-5804.	5.3	52
131	High-throughput pyrosequencing analysis of bacteria relevant to cometabolic and metabolic degradation of ibuprofen in horizontal subsurface flow constructed wetlands. <i>Science of the Total Environment</i> , 2016, 562, 604-613.	3.9	52
132	Enhanced methane production from waste activated sludge by combining calcium peroxide with ultrasonic: Performance, mechanism, and implication. <i>Bioresource Technology</i> , 2019, 279, 108-116.	4.8	52
133	Performance, membrane fouling control and cost analysis of an integrated anaerobic fixed-film MBR and reverse osmosis process for municipal wastewater reclamation to NEWater-like product water. <i>Journal of Membrane Science</i> , 2020, 593, 117442.	4.1	52
134	A review of 17 β -ethynylestradiol (EE2) in surface water across 32 countries: Sources, concentrations, and potential estrogenic effects. <i>Journal of Environmental Management</i> , 2021, 292, 112804.	3.8	52
135	Aerobic granulation for organic carbon and nitrogen removal in alternating aerobic/anaerobic sequencing batch reactor. <i>Chemosphere</i> , 2006, 63, 926-933.	4.2	51
136	Fate of dissolved organic matter and byproducts generated from on-line chemical cleaning with sodium hypochlorite in MBR. <i>Chemical Engineering Journal</i> , 2017, 323, 233-242.	6.6	50
137	Elemental compositions and characteristics of aerobic granules cultivated at different substrate N/C ratios. <i>Applied Microbiology and Biotechnology</i> , 2003, 61, 556-561.	1.7	49
138	DO diffusion profile in aerobic granule and its microbiological implications. <i>Enzyme and Microbial Technology</i> , 2008, 43, 349-354.	1.6	49
139	Effect of mechanical scouring by granular activated carbon (GAC) on membrane fouling mitigation. <i>Desalination</i> , 2017, 403, 80-87.	4.0	49
140	Occurrence and removal of 17 β -ethynylestradiol (EE2) in municipal wastewater treatment plants: Current status and challenges. <i>Chemosphere</i> , 2021, 271, 129551.	4.2	49
141	Degradation of paracetamol by <i>Pseudomonas aeruginosa</i> strain HJ1012. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2013, 48, 791-799.	0.9	48
142	Membrane Distillation Bioreactor (MDBR) – A lower Green-House-Gas (GHG) option for industrial wastewater reclamation. <i>Chemosphere</i> , 2015, 140, 129-142.	4.2	48
143	Biofilm detachment by self-collapsing air microbubbles: a potential chemical-free cleaning technology for membrane biofouling. <i>Journal of Materials Chemistry</i> , 2012, 22, 2203-2207.	6.7	47
144	Pretreatment of landfill leachate in near-neutral pH condition by persulfate activated Fe-C micro-electrolysis system. <i>Chemosphere</i> , 2019, 216, 749-756.	4.2	47

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145	Specific activity of nitrifying biofilm in water nitrification process. <i>Water Research</i> , 1996, 30, 1645-1650.	5.3	46
146	Making waves: Improving removal performance of conventional wastewater treatment plants on endocrine disrupting compounds (EDCs): their conjugates matter. <i>Water Research</i> , 2021, 188, 116469.	5.3	46
147	Waste cooking oil used as carbon source for microbial lipid production: Promoter or inhibitor. <i>Environmental Research</i> , 2022, 203, 111881.	3.7	46
148	A unified theory for upscaling aerobic granular sludge sequencing batch reactors. <i>Biotechnology Advances</i> , 2005, 23, 335-344.	6.0	45
149	The influence of short-term starvation on aerobic granules. <i>Process Biochemistry</i> , 2006, 41, 2373-2378.	1.8	45
150	Correlating the hydrodynamics of fluidized granular activated carbon (GAC) with membrane-fouling mitigation. <i>Journal of Membrane Science</i> , 2016, 510, 38-49.	4.1	45
151	Circular economy-driven ammonium recovery from municipal wastewater: State of the art, challenges and solutions forward. <i>Bioresource Technology</i> , 2021, 334, 125231.	4.8	45
152	Toxicity effect of phenol on aerobic granules. <i>Environmental Technology (United Kingdom)</i> , 2009, 30, 69-74.	1.2	44
153	Uptake and accumulation of CuO nanoparticles and CdS/ZnS quantum dot nanoparticles by <i>Schoenoplectus tabernaemontani</i> in hydroponic mesocosms. <i>Ecological Engineering</i> , 2014, 70, 114-123.	1.6	43
154	Characterizing the scouring efficiency of Granular Activated Carbon (GAC) particles in membrane fouling mitigation via wavelet decomposition of accelerometer signals. <i>Journal of Membrane Science</i> , 2016, 498, 105-115.	4.1	43
155	A novel micro-ferrous dosing strategy for enhancing biological phosphorus removal from municipal wastewater. <i>Science of the Total Environment</i> , 2020, 704, 135453.	3.9	41
156	Aerobic granules: a novel zinc biosorbent. <i>Letters in Applied Microbiology</i> , 2002, 35, 548-551.	1.0	40
157	Bacterial community and eutrophic index analysis of the East Lake. <i>Environmental Pollution</i> , 2019, 252, 682-688.	3.7	40
158	Trace determination of eleven natural estrogens and insights from their occurrence in a municipal wastewater treatment plant and river water. <i>Water Research</i> , 2020, 182, 115976.	5.3	40
159	Assessment of Microalgal-Bacterial Granular Sludge Process for Environmentally Sustainable Municipal Wastewater Treatment. <i>ACS ES&T Water</i> , 2021, 1, 2459-2469.	2.3	40
160	Sample-preparation methods for direct and indirect analysis of natural estrogens. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 64, 149-164.	5.8	39
161	Environmental sustainability: a pressing challenge to biological sewage treatment processes. <i>Current Opinion in Environmental Science and Health</i> , 2019, 12, 1-5.	2.1	39
162	Simultaneous anti-fouling and flux-enhanced membrane distillation via incorporating graphene oxide on PTFE membrane for coking wastewater treatment. <i>Applied Surface Science</i> , 2020, 531, 147349.	3.1	39

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163	Involvement of ATP and autoinducer-2 in aerobic granulation. <i>Biotechnology and Bioengineering</i> , 2010, 105, 51-58.	1.7	38
164	Microbial community and biomass characteristics associated severe membrane fouling during start-up of a hybrid anoxic-oxic membrane bioreactor. <i>Bioresource Technology</i> , 2012, 103, 43-47.	4.8	38
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