Haiping Yuan

List of Publications by Year
in descending order

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80 papers	3,046 citations	136885 32 h-index	182361 51 g-index
80 all docs	80 docs citations	80 times ranked	2685 citing authors

#	Article	IF	Citations
1	Enhanced waste activated sludge dewaterability by the ozone-peroxymonosulfate oxidation process: Performance, sludge characteristics, and implication. Science of the Total Environment, 2022, 807, 151025.	3.9	20
2	A comprehensive study on simultaneous enhancement of sludge dewaterability and elimination of polycyclic aromatic hydrocarbons by Fe2+ catalyzing O3 process. Science of the Total Environment, 2022, 819, 152015.	3.9	10
3	Application of CaO2-enhanced peroxone process to adjust waste activated sludge characteristics for dewaterability amelioration: Molecular transformation of dissolved organic matters and realized mechanism of deep-dewatering. Chemical Engineering Journal, 2022, 437, 135306.	6.6	50
4	A new environment-friendly polyferric sulfate-catalyzed ozonation process for sludge conditioning to achieve deep dewatering and simultaneous detoxification. Journal of Cleaner Production, 2022, 359, 132049.	4.6	31
5	Quantifying the thermochemical pathways of soluble organics in sewage sludge flocs during pyrolysis for precursor optimization and by-product control. Chemical Engineering Journal, 2022, 444, 136627.	6.6	11
6	A novel conditioning approach for amelioration of sludge dewaterability using activated carbon strengthening electrochemical oxidation and realized mechanism. Water Research, 2022, 220, 118704.	5.3	72
7	Variation of dissolved organic matter during excess sludge reduction in microbubble ozonation system. Environmental Science and Pollution Research, 2021, 28, 6090-6098.	2.7	9
8	Particle size-dependent behavior of redox-active biochar to promote anaerobic ammonium oxidation (anammox). Chemical Engineering Journal, 2021, 410, 127925.	6.6	46
9	Near-infrared responsive upconversion glass-ceramic@BiOBr heterojunction for enhanced photodegradation performances of norfloxacin. Journal of Hazardous Materials, 2021, 403, 123981.	6.5	57
10	Enhancement of waste activated sludge dewaterability by ultrasound-activated persulfate oxidation: Operation condition, sludge properties, and mechanisms. Chemosphere, 2021, 262, 128385.	4.2	62
11	Exogenous pH Buffer System with K2HPO4/KH2PO4 Addition Improving Thermophilic High-Solid Anaerobic Digestion of Waste-Activated Sludge. Journal of Environmental Engineering, ASCE, 2021, 147, .	0.7	1
12	A sodium dichloroisocyanurate-based conditioning process for the improvement of sludge dewaterability and mechanism studies. Journal of Environmental Management, 2021, 284, 112020.	3.8	14
13	Towards efficient elimination of polycyclic aromatic hydrocarbons (PAHs) from waste activated sludge by ozonation. Environmental Research, 2021, 195, 110783.	3.7	13
14	How does choline change methanogenesis pathway in anaerobic digestion of waste activated sludge?. Energy, 2021, 224, 120171.	4.5	2
15	Alleviating the nitrite stress on anaerobic ammonium oxidation by pyrolytic biochar. Science of the Total Environment, 2021, 774, 145800.	3.9	16
16	Insights into the enhancement of waste activated sludge dewaterability using sodium dichloroisocyanurate and dodecyl dimethyl ammonium chloride: Performance, mechanism, and implication. Science of the Total Environment, 2021, 778, 146302.	3.9	20
17	The extent of sludge solubilization allows to estimate the efficacy of ozonation for removal of polycyclic aromatic hydrocarbons (PAHs) in municipal sewage sludge. Journal of Hazardous Materials, 2021, 413, 125404.	6.5	19
18	Identifying the key sludge properties characteristics in Fe2+-activated persulfate conditioning for dewaterability amelioration and engineering implementation. Journal of Environmental Management, 2021, 296, 113204.	3.8	24

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19	Defect-rich heterojunction photocatalyst originated from the removal of chloride ions and its degradation mechanism of norfloxacin. Chemical Engineering Journal, 2021, 421, 127852.	6.6	24
20	Treatment of fresh leachate by microaeration pretreatment combined with IC-AO2 process: Performance and mechanistic insight. Science of the Total Environment, 2021, 789, 147939.	3.9	8
21	Insight into the roles of electrolysis-activated persulfate oxidation in the waste activated sludge dewaterability: Effects and mechanism. Journal of Environmental Management, 2021, 297, 113342.	3.8	22
22	Influence of sludge organic matter on elimination of polycyclic aromatic hydrocarbons (PAHs) from waste activated sludge by ozonation: Controversy over aromatic compounds. Science of the Total Environment, 2021, 797, 149232.	3.9	12
23	Occurrence of banned and commonly used pesticide residues in concentrated leachate: Implications for ecological risk assessment. Science of the Total Environment, 2020, 710, 136287.	3.9	24
24	Molecular insight into variations of dissolved organic matters in leachates along Chinaâ€™s largest A/O-MBR-NF process to improve the removal efficiency. Chemosphere, 2020, 243, 125354.	4.2	35
25	Improved understanding of dissolved organic matter transformation in concentrated leachate induced by hydroxyl radicals and reactive chlorine species. Journal of Hazardous Materials, 2020, 387, 121702.	6.5	37
26	Anammox process dosed with biochars for enhanced nitrogen removal: Role of surface functional groups. Science of the Total Environment, 2020, 748, 141367.	3.9	47
27	Redox-Active Biochar and Conductive Graphite Stimulate Methanogenic Metabolism in Anaerobic Digestion of Waste-Activated Sludge: Beyond Direct Interspecies Electron Transfer. ACS Sustainable Chemistry and Engineering, 2020, 8, 12626-12636.	3.2	50
28	Integrated anaerobic digestion and CO2 sequestration for energy recovery from waste activated sludge by calcium addition: Timing matters. Energy, 2020, 199, 117421.	4.5	12
29	A novel Fe2+/persulfate/tannic acid process with strengthened efficacy on enhancing waste activated sludge dewaterability and mechanism insight. Science of the Total Environment, 2020, 733, 139146.	3.9	35
30	Waste activated sludge conditioning in a new Fe2+/persulfate/tannic acid process: Effectiveness and optimization study to enhance dewaterability. Journal of Environmental Chemical Engineering, 2020, 8, 103785.	3.3	7
31	Exploring the efficacy and mechanism of tannic acid/Fe3+ conditioning for enhancing waste activated sludge dewaterability. Separation and Purification Technology, 2020, 240, 116643.	3.9	18
32	An in-depth study on the deep-dewatering mechanism of waste activated sludge by ozonation pre-oxidation and chitosan re-flocculation conditioning. Science of the Total Environment, 2020, 714, 136627.	3.9	33
33	Efficient and regenerative near-infrared glass-ceramic photocatalyst fabricated by a facile in-situ etching method. Chemical Engineering Journal, 2020, 394, 124877.	6.6	17
34	Enhanced waste activated sludge dewaterability by tannic acid conditioning: Efficacy, process parameters, role and mechanism studies. Journal of Cleaner Production, 2019, 241, 118287.	4.6	39
35	Insight into a new two-step approach of ozonation and chitosan conditioning for sludge deep-dewatering. Science of the Total Environment, 2019, 697, 134032.	3.9	39
36	Pretreatment-promoted sludge fermentation liquor improves biological nitrogen removal: Molecular insight into the role of dissolved organic matter. Bioresource Technology, 2019, 293, 122082.	4.8	26

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37	Synthesis of an efficient lanthanide doped glass-ceramic based near-infrared photocatalyst by a completely waterless solid-state reaction method. Dalton Transactions, 2019, 48, 9925-9929.	1.6	10
38	Insight into the enhanced sludge dewaterability by tannic acid conditioning and pH regulation. Science of the Total Environment, 2019, 679, 298-306.	3.9	167
39	Improved sludge dewaterability by tannic acid conditioning: Temperature, thermodynamics and mechanism studies. Chemosphere, 2019, 230, 14-23.	4.2	31
40	Buffering phosphate mitigates ammonia emission in sewage sludge composting: Enhanced organics removal coupled with microbial ammonium assimilation. Journal of Cleaner Production, 2019, 227, 189-198.	4.6	45
41	Sludge-based biochar-assisted thermophilic anaerobic digestion of waste-activated sludge in microbial electrolysis cell for methane production. Bioresource Technology, 2019, 284, 315-324.	4.8	87
42	Enhancement of methane production from anaerobic digestion of waste activated sludge with choline supplement. Energy, 2019, 173, 1021-1029.	4.5	31
43	In-situ biogas upgrading by a stepwise addition of ash additives: Methanogen adaption and CO2 sequestration. Bioresource Technology, 2019, 282, 1-8.	4.8	22
44	Manganese-based catalysts recovered from spent ternary lithium-ion batteries and its catalytic activity enhanced by a mechanical method. Journal of Cleaner Production, 2019, 213, 1346-1352.	4.6	26
45	Improvement of the sludge dewaterability conditioned by biological treatment coupling with electrochemical pretreatment. Journal of the Taiwan Institute of Chemical Engineers, 2019, 96, 453-462.	2.7	8
46	Anaerobic digestion of waste activated sludge with incineration bottom ash: Enhanced methane production and CO2 sequestration. Applied Energy, 2018, 215, 503-511.	5.1	63
47	Nitrogen loss reduction by adding KH2PO4-K2HPO4 buffer solution during composting of sewage sludge. Bioresource Technology, 2018, 264, 116-122.	4.8	16
48	Mitigating inhibition of undissociated volatile fatty acids (VFAs) for enhanced sludge-rice bran composting with ferric nitrate amendment. Bioresource Technology, 2017, 244, 672-678.	4.8	27
49	The degradation processes of refractory substances in nanofiltration concentrated leachate using micro-ozonation. Waste Management, 2017, 69, 274-280.	3.7	45
50	Pilot-scale study of enhanced anaerobic digestion of waste activated sludge by electrochemical and sodium hypochlorite combination pretreatment. International Biodeterioration and Biodegradation, 2016, 110, 227-234.	1.9	34
51	Effect on ceramic grade CaF₂ recovery quality from the etching wastewater under the optimum sulfate content. RSC Advances, 2016, 6, 85870-85876.	1.7	5
52	Kinetics and microbial community analysis of sludge anaerobic digestion based on Micro-direct current treatment under different initial pH values. Energy, 2016, 116, 677-686.	4.5	25
53	Performance and microbial communities of a batch anaerobic reactor treating liquid and high-solid sludge at thermophilic conditions. RSC Advances, 2016, 6, 99524-99531.	1.7	4
54	Studies on affecting factors and mechanism of treating decentralized domestic sewage by a novel anti-clogging soil infiltration system. Environmental Technology (United Kingdom), 2016, 37, 3071-3077.	1.2	4

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55	Electrochemical pretreatment of waste activated sludge: effect of process conditions on sludge disintegration degree and methane production. Environmental Technology (United Kingdom), 2016, 37, 2935-2944.	1.2	19
56	Combined Electrochemical and Hypochlorite Pretreatment for Improving Solubilization and Anaerobic Digestion of Waste-Activated Sludge: Effect of Hypochlorite Dosage. Energy & Fuels, 2016, 30, 2990-2996.	2.5	22
57	Progress in inhibition mechanisms and process control of intermediates and by-products in sewage sludge anaerobic digestion. Renewable and Sustainable Energy Reviews, 2016, 58, 429-438.	8.2	248
58	Selective simplification and reinforcement of microbial community in autothermal thermophilic aerobic digestion to enhancing stabilization process of sewage sludge by conditioning with ferric nitrate. Bioresource Technology, 2016, 204, 106-113.	4.8	19
59	Biostimulation by direct voltage to enhance anaerobic digestion of waste activated sludge. RSC Advances, 2016, 6, 1581-1588.	1.7	98
60	The synthetic effect on volatile fatty acid disinhibition and methane production enhancement by dosing FeCl₃in a sludge thermophilic anaerobic digestion system. RSC Advances, 2016, 6, 21090-21098.	1.7	22
61	Response of sludge fermentation liquid and microbial community to nano zero-valent iron exposure in a mesophilic anaerobic digestion system. RSC Advances, 2016, 6, 24236-24244.	1.7	40
62	Methane-rich biogas production from waste-activated sludge with the addition of ferric chloride under a thermophilic anaerobic digestion system. RSC Advances, 2015, 5, 38538-38546.	1.7	31
63	Variations of organic matters and microbial community in thermophilic anaerobic digestion of waste activated sludge with the addition of ferric salts. Bioresource Technology, 2015, 179, 291-298.	4.8	69
64	Enhancing upconversion emissions of Er 3+ /Tm 3+ /Yb 3+ tridoped (NaY(WO 4) 2 /YF 3) through TiO 2 coating and Bi 3+ doping and its photocatalytic applications. Applied Catalysis B: Environmental, 2015, 168-169, 313-321.	10.8	30
65	Dosing time of ferric chloride to disinhibit the excessive volatile fatty acids in sludge thermophilic anaerobic digestion system. Bioresource Technology, 2015, 189, 154-161.	4.8	53
66	Determination of the optimal dosing time of ferric nitrate on disinhibition of excessive volatile fatty acids in autothermal thermophilic aerobic digestion for sewage sludge. RSC Advances, 2015, 5, 43949-43955.	1.7	5
67	Effects of ferric nitrate additions under different pH conditions on autothermal thermophilic aerobic digestion for sewage sludge. RSC Advances, 2015, 5, 90127-90134.	1.7	4
68	CaF₂-Based Near-Infrared Photocatalyst Using the Multifunctional CaTiO₃ Precursors as the Calcium Source. ACS Applied Materials & Interfaces, 2015, 7, 20170-20178.	4.0	33
69	Disinhibition of excessive volatile fatty acids to improve the efficiency of autothermal thermophilic aerobic sludge digestion by chemical approach. Bioresource Technology, 2015, 175, 120-127.	4.8	20
70	Disinhibition of the ammonium nitrogen in autothermal thermophilic aerobic digestion for sewage sludge by chemical precipitation. Bioresource Technology, 2014, 169, 686-691.	4.8	24
71	Heavy metal recovery from electroplating wastewater by synthesis of mixed-Fe₃O₄@SiO₂/metal oxide magnetite photocatalysts. Green Chemistry, 2014, 16, 2696-2705.	4.6	56
72	An efficient near infrared photocatalyst of Er³⁺/Tm³⁺/Yb³⁺ tridoped (CaWO₄@(TiO₂/CaF₂)) with multi-stage CaF₂ nanocrystal formation. Journal of Materials Chemistry A, 2014, 2, 16165-16174.	5.2	27

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73	Evaluation of thermal, thermal-alkaline, alkaline and electrochemical pretreatments on sludge to enhance anaerobic biogas production. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 2531-2536.	2.7	86
74	Enhancement of anaerobic digestion of waste activated sludge by electrochemical pretreatment. Fuel, 2014, 130, 279-285.	3.4	73
75	An effective method for decentralized wastewater treatment: addition of polyurethane foam to subsurface wastewater infiltration system. Desalination and Water Treatment, 2013, 51, 6592-6600.	1.0	9
76	Leaching behavior of heavy metals from sewage sludge solidified by cement-based binders. Chemosphere, 2013, 92, 344-350.	4.2	92
77	Adsorption and Fenton-like degradation of naphthalene dye intermediate on sewage sludge derived porous carbon. Journal of Hazardous Materials, 2013, 246-247, 145-153.	6.5	124
78	Near-infrared photocatalyst of Er3+/Yb3+ codoped (CaF2@TiO2) nanoparticles with active-core/active-shell structure. Journal of Materials Chemistry A, 2013, 1, 7874.	5.2	70
79	Dewaterability characteristics of sludge conditioned with surfactants pretreatment by electrolysis. Bioresource Technology, 2011, 102, 2308-2315.	4.8	107
80	Conditioning of sewage sludge with electrolysis: Effectiveness and optimizing study to improve dewaterability. Bioresource Technology, 2010, 101, 4285-4290.	4.8	53