

Sungpyo Kim

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

4,064
citations

159358

30
h-index

114278

63
g-index

78
all docs

78
docs citations

78
times ranked

5005
citing authors

#	ARTICLE	IF	CITATIONS
1	Reduction in mercury bioavailability to Asian clams (<i>Corbicula fluminea</i>) and changes in bacterial communities in sediments with activated carbon amendment. <i>Chemosphere</i> , 2022, 291, 132700.	4.2	3
2	Toxicity impact of hydrogen peroxide on the fate of zebrafish and antibiotic resistant bacteria. <i>Journal of Environmental Management</i> , 2022, 302, 114072.	3.8	3
3	Seasonal trends of mercury bioaccumulation and assessment of toxic effects in Asian clams and microbial community from field study of estuarine sediment. <i>Environmental Research</i> , 2022, 212, 113439.	3.7	14
4	Algal softening followed by ozonation: The fate of persistent micropollutants and natural organic matter in groundwater. <i>Journal of Hazardous Materials</i> , 2021, 402, 123480.	6.5	3
5	Effects of powdered activated carbon and calcium on trihalomethane toxicity of zebrafish embryos and larvae in hybrid membrane bioreactors. <i>Journal of Hazardous Materials</i> , 2021, 409, 124530.	6.5	2
6	A high-rate and stable nitrogen removal from reject water in a full-scale two-stage AMX [®] system. <i>Water Science and Technology</i> , 2021, 83, 652-663.	1.2	5
7	Long-term seasonal and temporal changes of hydrogen peroxide from cyanobacterial blooms in fresh waters. <i>Journal of Environmental Management</i> , 2021, 298, 113515.	3.8	9
8	Removal of heavy metals using sorbents derived from bark. <i>Journal of Porous Materials</i> , 2020, 27, 319-328.	1.3	7
9	Emerging investigator series: quaternary treatment with algae-assisted oxidation for antibiotics removal and refractory organics degradation in livestock wastewater effluent. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 3262-3275.	1.2	12
10	The difference of morphological characteristics and population structure in PAO and DPAO granular sludges. <i>Journal of Environmental Sciences</i> , 2019, 76, 388-402.	3.2	32
11	A proof of concept study for wastewater reuse using bioelectrochemical processes combined with complementary post-treatment technologies. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 1489-1498.	1.2	11
12	Evaluation of organic migration and biomass formation on polymeric components in a point-of-use water dispenser. <i>Water Research</i> , 2019, 165, 115025.	5.3	12
13	Metabolite tracking to elucidate the effects of environmental pollutants. <i>Journal of Hazardous Materials</i> , 2019, 376, 112-124.	6.5	11
14	Treatment of reverse osmosis concentrate using an algal-based MBR combined with ozone pretreatment. <i>Water Research</i> , 2019, 159, 164-175.	5.3	33
15	Effects of nanoscale zero valent iron (nZVI) concentration on the biochemical conversion of gaseous carbon dioxide (CO ₂) into methane (CH ₄). <i>Bioresource Technology</i> , 2019, 275, 314-320.	4.8	48
16	Treatment of highly saline RO concentrate using <i>Scenedesmus quadricauda</i> for enhanced removal of refractory organic matter. <i>Desalination</i> , 2018, 430, 128-135.	4.0	41
17	Selective sorption of strontium using two different types of nanostructured manganese oxides. <i>Journal of Porous Materials</i> , 2018, 25, 321-328.	1.3	9
18	Seasonal Changes in Antibiotic Resistance Genes in Rivers and Reservoirs in South Korea. <i>Journal of Environmental Quality</i> , 2018, 47, 1079-1085.	1.0	27

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19	Sequential production of pyrolytic oil and biodiesel from oil-bearing biomass. <i>Journal of Material Cycles and Waste Management</i> , 2017, 19, 38-45.	1.6	2
20	Energy density enhancement via pyrolysis of paper mill sludge using CO ₂ . <i>Journal of CO₂ Utilization</i> , 2017, 17, 305-311.	3.3	26
21	Fate of tetracycline resistance in synthetic livestock carcass leachate for two years. <i>Journal of Environmental Management</i> , 2017, 187, 220-228.	3.8	7
22	Sub-lethal pharmaceutical hazard tracking in adult zebrafish using untargeted LC-MS environmental metabolomics. <i>Journal of Hazardous Materials</i> , 2017, 339, 63-72.	6.5	51
23	Quantitative and qualitative changes in antibiotic resistance genes after passing through treatment processes in municipal wastewater treatment plants. <i>Science of the Total Environment</i> , 2017, 605-606, 906-914.	3.9	130
24	Influences of NOM composition and bacteriological characteristics on biological stability in a full-scale drinking water treatment plant. <i>Chemosphere</i> , 2016, 160, 189-198.	4.2	67
25	Comparison of Antibiotic Resistance Removal Efficiencies Using Ozone Disinfection under Different pH and Suspended Solids and Humic Substance Concentrations. <i>Environmental Science & Technology</i> , 2016, 50, 7590-7600.	4.6	91
26	Effects of solids retention time on the fate of tetracycline resistance in SBRs for the treatment of carcass leachate. <i>Journal of Environmental Management</i> , 2016, 181, 298-303.	3.8	7
27	The effect of tetracycline in the antibiotic resistance gene transfer before and after ozone disinfection. <i>Desalination and Water Treatment</i> , 2016, 57, 646-650.	1.0	24
28	Significance of metabolite extraction method for evaluating sulfamethazine toxicity in adult zebrafish using metabolomics. <i>Ecotoxicology and Environmental Safety</i> , 2016, 127, 127-134.	2.9	16
29	Assessment of Metals Loading in an Acid Mine Drainage Watershed. <i>Mine Water and the Environment</i> , 2016, 35, 44-54.	0.9	1
30	Development of Domestic Rainwater Treatment System and its Application in the Field. <i>Journal of Wetlands Research</i> , 2016, 18, 24-31.	0.2	1
31	Characteristics of hydrochemical variations and contaminant load during rainfall in an acid mine drainage-impacted watershed, Korea. <i>Desalination and Water Treatment</i> , 2015, 54, 3511-3522.	1.0	4
32	Simultaneously photocatalytic treatment of hexavalent chromium (Cr(VI)) and endocrine disrupting compounds (EDCs) using rotating reactor under solar irradiation. <i>Journal of Hazardous Materials</i> , 2015, 288, 124-133.	6.5	33
33	Effect of plant species on nitrogen recovery in aquaponics. <i>Bioresource Technology</i> , 2015, 188, 92-98.	4.8	161
34	The 4-stage anoxic membrane bioreactor for simultaneous nitrogen and phosphorus removal, and its strengths and weaknesses. <i>Desalination and Water Treatment</i> , 2015, 54, 3616-3624.	1.0	2
35	Assessment of porous pavement effectiveness on runoff reduction under climate change scenarios. <i>Desalination and Water Treatment</i> , 2015, 53, 3142-3147.	1.0	28
36	Synergetic Sustainability Enhancement via Utilization of Carbon Dioxide as Carbon Neutral Chemical Feedstock in the Thermo-Chemical Processing of Biomass. <i>Environmental Science & Technology</i> , 2015, 49, 5028-5034.	4.6	60

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37	Effects of temperature on nitrous oxide (N ₂ O) emission from intensive aquaculture system. Science of the Total Environment, 2015, 518-519, 16-23.	3.9	46
38	The effects of antibiotics on the biofilm formation and antibiotic resistance gene transfer. Desalination and Water Treatment, 2015, 54, 3582-3588.	1.0	33
39	The Removal of Nutrients and Heavy Metals Using Household Rain garden. Journal of Wetlands Research, 2015, 17, 38-44.	0.2	3
40	Influence of carbohydrate addition on nitrogen transformations and greenhouse gas emissions of intensive aquaculture system. Science of the Total Environment, 2014, 470-471, 193-200.	3.9	75
41	Biogeochemical changes at early stage after the closure of radioactive waste geological repository in South Korea. Annals of Nuclear Energy, 2014, 71, 6-10.	0.9	9
42	Transfer of antibiotic resistance plasmids in pure and activated sludge cultures in the presence of environmentally representative micro-contaminant concentrations. Science of the Total Environment, 2014, 468-469, 813-820.	3.9	92
43	Achieving enhanced nitrification in communities of nitrifying bacteria in full-scale wastewater treatment plants via optimal temperature and pH. Separation and Purification Technology, 2014, 132, 697-703.	3.9	40
44	Removal of inorganic pollutants in rainwater by a peat-derived porous material. Journal of Porous Materials, 2014, 21, 387-394.	1.3	5
45	Transforming duck tallow into biodiesel via noncatalytic transesterification. Applied Energy, 2014, 116, 20-25.	5.1	34
46	Comparison of different disinfection processes in the effective removal of antibiotic-resistant bacteria and genes. Journal of Environmental Sciences, 2014, 26, 1238-1242.	3.2	100
47	Anoxic gas recirculation system for fouling control in anoxic membrane reactor. Journal of Environmental Sciences, 2014, 26, 1289-1293.	3.2	2
48	The Study for the Long-Term Rainwater Storage Quality Effect after Chlorination. Journal of Wetlands Research, 2014, 16, 33-39.	0.2	3
49	A Study on Performance Estimation and Operation Strategy of Biological Aerated Filter Using Semi-Empirical Biofilm Model. Journal of Korean Neuropsychiatric Association, 2014, 30, 269-282.	0.2	0
50	The CT values Comparisons for Antibiotic Resistant Bacteria and Resistant Genes by Chlorination. Journal of Wetlands Research, 2014, 16, 269-274.	0.2	0
51	Nitrogen transformations in intensive aquaculture system and its implication to climate change through nitrous oxide emission. Bioresource Technology, 2013, 130, 314-320.	4.8	60
52	The Comparison of Disinfection Technologies for Managing Antibiotic Resistance ; Chlorination, Ozonation and Electron Beam. Journal of the Korean Society of Water and Wastewater, 2013, 27, 797-803.	0.3	1
53	Biodiesel Production from Sewage Sludge: New Paradigm for Mining Energy from Municipal Hazardous Material. Environmental Science & Technology, 2012, 46, 10222-10228.	4.6	107
54	Nitrous Oxide (N ₂ O) Emission from Aquaculture: A Review. Environmental Science & Technology, 2012, 46, 6470-6480.	4.6	227

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55	Assessing the activity and diversity of fumarate-fed denitrifying bacteria by performing field single-well push-pull tests. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2011, 46, 33-41.	0.9	5
56	Uptake of cadmium, copper, and lead by microporous synthetic Na-birnessite. <i>Journal of Porous Materials</i> , 2011, 18, 125-131.	1.3	15
57	Natural Gradient Drift Tests for Assessing the Feasibility of In Situ Aerobic Cometabolism of Trichloroethylene and Evaluating the Microbial Community Change. <i>Water, Air, and Soil Pollution</i> , 2011, 219, 353-364.	1.1	8
58	Nitrous Oxide Emissions from Activated Sludge at Full-scale Wastewater Treatment Facilities in the United States. <i>Proceedings of the Water Environment Federation</i> , 2010, 2010, 686-696.	0.0	1
59	Spatial and Temporal Variability in Atmospheric Nitrous Oxide Generation and Emission from Full-scale Biological Nitrogen Removal and Non-BNR Processes. <i>Water Environment Research</i> , 2010, 82, 2362-2372.	1.3	39
60	N ₂ O Emissions from Activated Sludge Processes, 2008~2009: Results of a National Monitoring Survey in the United States. <i>Environmental Science & Technology</i> , 2010, 44, 4505-4511.	4.6	345
61	Propensity of activated sludge to amplify or attenuate tetracycline resistance genes and tetracycline resistant bacteria: A mathematical modeling approach. <i>Chemosphere</i> , 2010, 78, 1071-1077.	4.2	59
62	Spatial and temporal variability in N ₂ O generation and emission from wastewater treatment facilities. <i>Proceedings of the Water Environment Federation</i> , 2009, 2009, 401-409.	0.0	3
63	Impact of varying electron donors on the molecular microbial ecology and biokinetics of methylophilic denitrifying bacteria. <i>Biotechnology and Bioengineering</i> , 2009, 102, 1527-1536.	1.7	79
64	Formation of <i>N</i> -Ethylmaleimide (NEM)-Glutathione Conjugate and <i>N</i> -Ethylmaleamic Acid Revealed by Mass Spectral Characterization of Intracellular and Extracellular Microbial Metabolites of NEM. <i>Applied and Environmental Microbiology</i> , 2008, 74, 323-326.	1.4	8
65	Molecular and biokinetic characterization of methylophilic denitrification using nitrate and nitrite as terminal electron acceptors. <i>Water Science and Technology</i> , 2008, 58, 359-365.	1.2	50
66	The Fate of Tetracycline Resistant Bacteria in Wastewater Treatment Plants as a Function of Operating Characteristics. <i>Proceedings of the Water Environment Federation</i> , 2008, 2008, 7508-7516.	0.0	1
67	Fate of tetracycline resistant bacteria as a function of activated sludge process organic loading and growth rate. <i>Water Science and Technology</i> , 2007, 55, 291-297.	1.2	29
68	MICROBIAL ECOLOGY, BIOKINETICS AND THERMODYNAMICS OF METHYLOPHILIC DENITRIFICATION. <i>Proceedings of the Water Environment Federation</i> , 2007, 2007, 5056-5063.	0.0	0
69	Effect of Sequencing Batch Reactor Operation on Presence and Concentration of Tetracycline-Resistant Organisms. <i>Water Environment Research</i> , 2007, 79, 2287-2297.	1.3	4
70	Tetracycline as a selector for resistant bacteria in activated sludge. <i>Chemosphere</i> , 2007, 66, 1643-1651.	4.2	98
71	Comparison of the occurrence of antibiotics in four full-scale wastewater treatment plants with varying designs and operations. <i>Chemosphere</i> , 2007, 68, 428-435.	4.2	437
72	Potential Ecological and Human Health Impacts of Antibiotics and Antibiotic-Resistant Bacteria from Wastewater Treatment Plants. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 2007, 10, 559-573.	2.9	374

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73	Removal of Pharmaceuticals in Biological Wastewater Treatment Plants. , 2007, , 349-361.		2
74	Enhanced Biodegradation of Iopromide and Trimethoprim in Nitrifying Activated Sludge. Environmental Science & Technology, 2006, 40, 7367-7373.	4.6	239
75	Removal of Antibiotics in Wastewater:Â Effect of Hydraulic and Solid Retention Times on the Fate of Tetracycline in the Activated Sludge Process. Environmental Science & Technology, 2005, 39, 5816-5823.	4.6	428
76	Gas analysis reveals novel aerobic deammonification in thermophilic aerobic digestion. Water Science and Technology, 2003, 47, 131-138.	1.2	10