Sungpyo Kim

List of Publications by Year
in descending order

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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	Comparison of the occurrence of antibiotics in four full-scale wastewater treatment plants with varying designs and operations. Chemosphere, 2007, 68, 428-435.	4.2	437
2	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
3	Potential Ecological and Human Health Impacts of Antibiotics and Antibiotic-Resistant Bacteria from Wastewater Treatment Plants. Journal of Toxicology and Environmental Health - Part B: Critical Reviews, 2007, 10, 559-573.	2.9	374
4	N₂O Emissions from Activated Sludge Processes, 2008â"2009: Results of a National Monitoring Survey in the United States. Environmental Science & Technology, 2010, 44, 4505-4511.	4.6	345
5	Enhanced Biodegradation of Iopromide and Trimethoprim in Nitrifying Activated Sludge. Environmental Science & Technology, 2006, 40, 7367-7373.	4.6	239
6	Nitrous Oxide (N₂O) Emission from Aquaculture: A Review. Environmental Science & Technology, 2012, 46, 6470-6480.	4.6	227
7	Effect of plant species on nitrogen recovery in aquaponics. Bioresource Technology, 2015, 188, 92-98.	4.8	161
8	Quantitative and qualitative changes in antibiotic resistance genes after passing through treatment processes in municipal wastewater treatment plants. Science of the Total Environment, 2017, 605-606, 906-914.	3.9	130
9	Biodiesel Production from Sewage Sludge: New Paradigm for Mining Energy from Municipal Hazardous Material. Environmental Science & Technology, 2012, 46, 10222-10228.	4.6	107
10	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
11	Tetracycline as a selector for resistant bacteria in activated sludge. Chemosphere, 2007, 66, 1643-1651.	4.2	98
12	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
13	Comparison of Antibiotic Resistance Removal Efficiencies Using Ozone Disinfection under Different pH and Suspended Solids and Humic Substance Concentrations. Environmental Science & Technology, 2016, 50, 7590-7600.	4.6	91
14	Impact of varying electron donors on the molecular microbial ecology and biokinetics of methylotrophic denitrifying bacteria. Biotechnology and Bioengineering, 2009, 102, 1527-1536.	1.7	79
15	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
16	Influences of NOM composition and bacteriological characteristics on biological stability in a full-scale drinking water treatment plant. Chemosphere, 2016, 160, 189-198.	4.2	67
17	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
18	Synergetic Sustainability Enhancement via Utilization of Carbon Dioxide as Carbon Neutral Chemical Feedstock in the Thermo-Chemical Processing of Biomass. Environmental Science & Technology, 2015, 49, 5028-5034.	4.6	60

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19	Propensity of activated sludge to amplify or attenuate tetracycline resistance genes and tetracycline resistant bacteria: A mathematical modeling approach. Chemosphere, 2010, 78, 1071-1077.	4.2	59
20	Sub-lethal pharmaceutical hazard tracking in adult zebrafish using untargeted LCâ€“MS environmental metabolomics. Journal of Hazardous Materials, 2017, 339, 63-72.	6.5	51
21	Molecular and biokinetic characterization of methylotrophic denitrification using nitrate and nitrite as terminal electron acceptors. Water Science and Technology, 2008, 58, 359-365.	1.2	50
22	Effects of nanoscale zero valent iron (nZVI) concentration on the biochemical conversion of gaseous carbon dioxide (CO2) into methane (CH4). Bioresource Technology, 2019, 275, 314-320.	4.8	48
23	Effects of temperature on nitrous oxide (N2O) emission from intensive aquaculture system. Science of the Total Environment, 2015, 518-519, 16-23.	3.9	46
24	Treatment of highly saline RO concentrate using Scenedesmus quadricauda for enhanced removal of refractory organic matter. Desalination, 2018, 430, 128-135.	4.0	41
25	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
26	Spatial and Temporal Variability in Atmospheric Nitrous Oxide Generation and Emission from Fullâ€Scale Biological Nitrogen Removal and Nonâ€BNR Processes. Water Environment Research, 2010, 82, 2362-2372.	1.3	39
27	Transforming duck tallow into biodiesel via noncatalytic transesterification. Applied Energy, 2014, 116, 20-25.	5.1	34
28	Simultaneously photocatalytic treatment of hexavalent chromium (Cr(VI)) and endocrine disrupting compounds (EDCs) using rotating reactor under solar irradiation. Journal of Hazardous Materials, 2015, 288, 124-133.	6.5	33
29	The effects of antibiotics on the biofilm formation and antibiotic resistance gene transfer. Desalination and Water Treatment, 2015, 54, 3582-3588.	1.0	33
30	Treatment of reverse osmosis concentrate using an algal-based MBR combined with ozone pretreatment. Water Research, 2019, 159, 164-175.	5.3	33
31	The difference of morphological characteristics and population structure in PAO and DPAOgranular sludges. Journal of Environmental Sciences, 2019, 76, 388-402.	3.2	32
32	Fate of tetracycline resistant bacteria as a function of activated sludge process organic loading and growth rate. Water Science and Technology, 2007, 55, 291-297.	1.2	29
33	Assessment of porous pavement effectiveness on runoff reduction under climate change scenarios. Desalination and Water Treatment, 2015, 53, 3142-3147.	1.0	28
34	Seasonal Changes in Antibiotic Resistance Genes in Rivers and Reservoirs in South Korea. Journal of Environmental Quality, 2018, 47, 1079-1085.	1.0	27
35	Energy density enhancement via pyrolysis of paper mill sludge using CO2. Journal of CO2 Utilization, 2017, 17, 305-311.	3.3	26
36	The effect of tetracycline in the antibiotic resistance gene transfer before and after ozone disinfection. Desalination and Water Treatment, 2016, 57, 646-650.	1.0	24

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37	Significance of metabolite extraction method for evaluating sulfamethazine toxicity in adult zebrafish using metabolomics. Ecotoxicology and Environmental Safety, 2016, 127, 127-134.	2.9	16
38	Uptake of cadmium, copper, and lead by microporous synthetic Na-birnessite. Journal of Porous Materials, 2011, 18, 125-131.	1.3	15
39	Seasonal trends of mercury bioaccumulation and assessment of toxic effects in Asian clams and microbial community from field study of estuarine sediment. Environmental Research, 2022, 212, 113439.	3.7	14
40	Evaluation of organic migration and biomass formation on polymeric components in a point-of-use water dispenser. Water Research, 2019, 165, 115025.	5.3	12
41	Emerging investigator series: quaternary treatment with algae-assisted oxidation for antibiotics removal and refractory organics degradation in livestock wastewater effluent. Environmental Science: Water Research and Technology, 2020, 6, 3262-3275.	1.2	12
42	A proof of concept study for wastewater reuse using bioelectrochemical processes combined with complementary post-treatment technologies. Environmental Science: Water Research and Technology, 2019, 5, 1489-1498.	1.2	11
43	Metabolite tracking to elucidate the effects of environmental pollutants. Journal of Hazardous Materials, 2019, 376, 112-124.	6.5	11
44	Gas analysis reveals novel aerobic deammonification in thermophilic aerobic digestion. Water Science and Technology, 2003, 47, 131-138.	1.2	10
45	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
46	Selective sorption of strontium using two different types of nanostructured manganese oxides. Journal of Porous Materials, 2018, 25, 321-328.	1.3	9
47	Long-term seasonal and temporal changes of hydrogen peroxide from cyanobacterial blooms in fresh waters. Journal of Environmental Management, 2021, 298, 113515.	3.8	9
48	Formation of N -Ethylmaleimide (NEM)-Glutathione Conjugate and N -Ethylmaleamic Acid Revealed by Mass Spectral Characterization of Intracellular and Extracellular Microbial Metabolites of NEM. Applied and Environmental Microbiology, 2008, 74, 323-326.	1.4	8
49	Natural Gradient Drift Tests for Assessing the Feasibility of In Situ Aerobic Cometabolism of Trichloroethylene and Evaluating the Microbial Community Change. Water, Air, and Soil Pollution, 2011, 219, 353-364.	1.1	8
50	Effects of solids retention time on the fate of tetracycline resistance in SBRs for the treatment of carcass leachate. Journal of Environmental Management, 2016, 181, 298-303.	3.8	7
51	Fate of tetracycline resistance in synthetic livestock carcass leachate for two years. Journal of Environmental Management, 2017, 187, 220-228.	3.8	7
52	Removal of heavy metals using sorbents derived from bark. Journal of Porous Materials, 2020, 27, 319-328.	1.3	7
53	Assessing the activity and diversity of fumarate-fed denitrifying bacteria by performing field single-well push-pull tests. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2011, 46, 33-41.	0.9	5
54	Removal of inorganic pollutants in rainwater by a peat-derived porous material. Journal of Porous Materials, 2014, 21, 387-394.	1.3	5

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55	A high-rate and stable nitrogen removal from reject water in a full-scale two-stage AMXÂ® system. Water Science and Technology, 2021, 83, 652-663.	1.2	5
56	Effect of Sequencing Batch Reactor Operation on Presence and Concentration of Tetracyclineâ€Resistant Organisms. Water Environment Research, 2007, 79, 2287-2297.	1.3	4
57	Characteristics of hydrochemical variations and contaminant load during rainfall in an acid mine drainage-impacted watershed, Korea. Desalination and Water Treatment, 2015, 54, 3511-3522.	1.0	4
58	Spatial and temporal variability in N₂O generation and emission from wastewater treatment facilities. Proceedings of the Water Environment Federation, 2009, 2009, 401-409.	0.0	3
59	Algal softening followed by ozonation: The fate of persistent micropollutants and natural organic matter in groundwater. Journal of Hazardous Materials, 2021, 402, 123480.	6.5	3
60	The Removal of Nutrients and Heavy Metals Using Household Rain garden. Journal of Wetlands Research, 2015, 17, 38-44.	0.2	3
61	Reduction in mercury bioavailability to Asian clams (Corbicula fluminea) and changes in bacterial communities in sediments with activated carbon amendment. Chemosphere, 2022, 291, 132700.	4.2	3
62	The Study for the Long-Term Rainwater Storage Quality Effect after Chlorination. Journal of Wetlands Research, 2014, 16, 33-39.	0.2	3
63	Toxicity impact of hydrogen peroxide on the fate of zebrafish and antibiotic resistant bacteria. Journal of Environmental Management, 2022, 302, 114072.	3.8	3
64	Anoxic gas recirculation system for fouling control in anoxic membrane reactor. Journal of Environmental Sciences, 2014, 26, 1289-1293.	3.2	2
65	The 4-stage anoxic membrane bioreactor for simultaneous nitrogen and phosphorus removal, and its strengths and weaknesses. Desalination and Water Treatment, 2015, 54, 3616-3624.	1.0	2
66	Sequential production of pyrolytic oil and biodiesel from oil-bearing biomass. Journal of Material Cycles and Waste Management, 2017, 19, 38-45.	1.6	2
67	Effects of powdered activated carbon and calcium on trihalomethane toxicity of zebrafish embryos and larvae in hybrid membrane bioreactors. Journal of Hazardous Materials, 2021, 409, 124530.	6.5	2
68	Removal of Pharmaceuticals in Biological Wastewater Treatment Plants. , 2007, , 349-361.		2
69	The Fate of Tetracycline Resistant Bacteria in Wastewater Treatment Plants as a Function of Operating Characteristics. Proceedings of the Water Environment Federation, 2008, 2008, 7508-7516.	0.0	1
70	Nitrous Oxide Emissions from Activated Sludge at Full-scale Wastewater Treatment Facilities in the United States. Proceedings of the Water Environment Federation, 2010, 2010, 686-696.	0.0	1
71	Assessment of Metals Loading in an Acid Mine Drainage Watershed. Mine Water and the Environment, 2016, 35, 44-54.	0.9	1
72	The Comparison of Disinfection Technologies for Managing Antibiotic Resistance ; Chlrorination, Ozonation and Electron Beam. Journal of the Korean Society of Water and Wastewater, 2013, 27, 797-803.	0.3	1

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73	Development of Domestic Rainwater Treatment System and its Application in the Field. Journal of Wetlands Research, 2016, 18, 24-31.	0.2	1
74	MICROBIAL ECOLOGY, BIOKINETICS AND THERMODYNAMICS OF METHYLOTROPHIC DENITRIFICATION. Proceedings of the Water Environment Federation, 2007, 2007, 5056-5063.	0.0	0
75	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
76	The CT values Comparisons for Antibiotic Resistant Bacteria and Resistant Genes by Chlorination. Journal of Wetlands Research, 2014, 16, 269-274.	0.2	0