Yunho Lee

List of Publications by Year in Descending Order

85 papers	4,471 citations	35 h-index	66 g-index
93 ext. papers	5,379 ext. citations	9.5 avg, IF	6.03 L-index

#	Paper	IF	Citations
85	Dye adsorptive thin-film composite membrane with magnetite decorated sulfonated graphene oxide for efficient dye/salt mixture separation. *Desalination*, **2022**, 524, 115462	10.3	4
84	Binding of carbon monoxide at a single nickel center and its oxidative reactivity toward CO 2 and O 2 . *Bulletin of the Korean Chemical Society*, **2022**, 43, 222-226	1.2	
83	Photochemistry of Water Treatment Oxidants for Advanced Oxidation Processes. *Springer Handbooks*, **2022**, 1685-1718	1.3	
82	Nitriles as main products from the oxidation of primary amines by ferrate(VI): Kinetics, mechanisms and toxicological implications for nitrogenous disinfection byproduct control. *Water Research*, **2021** , 209, 117881	12.5	3
81	Reaction kinetics and degradation efficiency of halogenated methylparabens during ozonation and UV/HO treatment of drinking water and wastewater effluent. *Journal of Hazardous Materials*, **2021**, 127878	12.8	1
80	Linkage between bacterial community-mediated hydrogen peroxide detoxification and the growth of Microcystis aeruginosa. *Water Research*, **2021**, 207, 117784	12.5	0
79	Kinetic and mechanistic investigations of the decomposition of bromamines in the presence of Cu(II). *Water Research*, **2021**, 207, 117791	12.5	0
78	Removal efficiency of organic micropollutants in successive wastewater treatment steps in a full-scale wastewater treatment plant: Bench-scale application of tertiary treatment processes to improve removal of organic micropollutants persisting after secondary treatment. *Chemosphere*, **2021**, 288, 132629	8.4	2
77	Efficient degradation of ethanolamine by UV/chlorine process via organic chloramine photolysis: Kinetics, products, and implications for ethanolamine wastewater treatment. *Chemical Engineering Journal*, **2021**, 412, 128631	14.7	2
76	Prediction of Photolysis Kinetics of Viral Genomes under UV Irradiation to Estimate Virus Infectivity Loss. *Water Research*, **2021**, 198, 117165	12.5	2
75	Facile recovery of gold from e-waste by integrating chlorate leaching and selective adsorption using chitosan-based bioadsorbent. *Journal of Environmental Chemical Engineering*, **2021**, 9, 104661	6.8	2
74	Photosensitizer-peptoid conjugates for photoinactivation of Gram-negative bacteria: structure-activity relationship and mechanistic studies. *Organic and Biomolecular Chemistry*, **2021**, 19, 6546-6557	3.9	1
73	Degradation Kinetics of Antibiotic Resistance Gene of Methicillin-Resistant (MRSA) during Water Disinfection with Chlorine, Ozone, and Ultraviolet Light. *Environmental Science & Technology*, **2021**, 55, 2541-2552	10.3	14
72	Axial Redox Tuning at a Tetragonal Cobalt Center. *Inorganic Chemistry*, **2021**, 60, 5647-5659	5.1	1
71	Degradation and deactivation of plasmid-encoded antibiotic resistance genes during exposure to ozone and chlorine. *Water Research*, **2021**, 202, 117408	12.5	1
70	Conformational Adaptation of β-Peptide Foldamers for the Formation of Metal-Peptide Frameworks. *Angewandte Chemie - International Edition*, **2021**,	16.4	1
69	Recent Update on UV Disinfection to Fulfill the Disinfection Credit Value for Enteric Viruses in Water. *Environmental Science & Technology*, **2021**,	10.3	4

68	Divergent Strategies for the Extension of Heteroaryl Halides Using Norbornadiene as an Acetylene Synthon. *Organic Letters*, **2020**, 22, 9670-9676	6.2	8
67	Enhanced Gold(III) adsorption using glutaraldehyde-crosslinked chitosan beads: Effect of crosslinking degree on adsorption selectivity, capacity, and mechanism. *Separation and Purification Technology*, **2020**, 248, 116989	8.3	38
66	Chlorination of N,N-dimethylhydrazine compounds: reaction kinetics, mechanisms, and implications for controlling N-nitrosodimethylamine formation during ozonation. *Environmental Science: Water Research and Technology*, **2020**, 6, 2567-2579	4.2	4
65	Occurrence and transformation of gabapentin in urban water quality engineering: Rapid formation of nitrile from amine during drinking water chlorination. *Water Research*, **2020**, 184, 116123	12.5	6
64	Antibiotics in coastal aquaculture waters: Occurrence and elimination efficiency in oxidative water treatment processes. *Journal of Hazardous Materials*, **2020**, 396, 122585	12.8	35
63	Kinetics of the reaction between hydrogen peroxide and aqueous iodine: Implications for technical and natural aquatic systems. *Water Research*, **2020**, 179, 115852	12.5	11
62	Degradation and deactivation of a plasmid-encoded extracellular antibiotic resistance gene during separate and combined exposures to UV and radicals. *Water Research*, **2020**, 182, 115921	12.5	20
61	Coexposure Degradation of Purine Derivatives in the Sulfate Radical-Mediated Oxidation Process. *Environmental Science & Technology*, **2020**, 54, 1186-1195	10.3	12
60	A global multinational survey of cefotaxime-resistant coliforms in urban wastewater treatment plants. *Environment International*, **2020**, 144, 106035	12.9	17
59	Relationships among Permeability, Membrane Roughness, and Eukaryote Inhabitation during Submerged Gravity-Driven Membrane (GDM) Filtration. *Applied Sciences (Switzerland)*, **2020**, 10, 8111	2.6	1
58	Mechanistic and Kinetic Understanding of the UV Photolysis of Chlorine and Bromine Species in Water and Formation of Oxyhalides. *Environmental Science & Technology*, **2020**, 54, 11546-11555	10.3	22
57	PIP/TMC Interfacial Polymerization with Electrospray: Novel Loose Nanofiltration Membrane for Dye Wastewater Treatment. *ACS Applied Materials & Interfaces*, **2020**, 12, 36148-36158	9.5	47
56	Degradation and Deactivation of Bacterial Antibiotic Resistance Genes during Exposure to Free Chlorine, Monochloramine, Chlorine Dioxide, Ozone, Ultraviolet Light, and Hydroxyl Radical. *Environmental Science & Technology*, **2019**, 53, 2013-2026	10.3	81
55	Impacts of advanced oxidation processes on disinfection byproducts from dissolved organic matter upon post-chlor(am)ination: A critical review. *Chemical Engineering Journal*, **2019**, 375, 121929	14.7	35
54	Transformation of an Amine Moiety of Atenolol during Water Treatment with Chlorine/UV: Reaction Kinetics, Products, and Mechanisms. *Environmental Science & Technology*, **2019**, 53, 7653-7662	10.3	14
53	Elimination efficiency of organic UV filters during ozonation and UV/HO treatment of drinking water and wastewater effluent. *Chemosphere*, **2019**, 230, 248-257	8.4	9
52	Oxidation of Sulfonamide Antibiotics of Six-Membered Heterocyclic Moiety by Ferrate(VI): Kinetics and Mechanistic Insight into SO Extrusion. *Environmental Science & Technology*, **2019**, 53, 2695-2704	10.3	58
51	Effect of membrane property and feed water organic matter quality on long-term performance of the gravity-driven membrane filtration process. *Environmental Science and Pollution Research*, **2019**, 26, 1152-1162	5.1	17

50	Use of a filtering process to remove solid waste and antibiotic resistance genes from effluent of a flow-through fish farm. *Science of the Total Environment*, **2018**, 615, 289-296	10.2	18
49	Prevalence of antibiotic resistance genes from effluent of coastal aquaculture, South Korea. *Environmental Pollution*, **2018**, 233, 1049-1057	9.3	78
48	Elimination of transforming activity and gene degradation during UV and UV/H2O2 treatment of plasmid-encoded antibiotic resistance genes. *Environmental Science: Water Research and Technology*, **2018**, 4, 1239-1251	4.2	36
47	Oxidation kinetics of algal-derived taste and odor compounds during water treatment with ferrate(VI). *Chemical Engineering Journal*, **2018**, 334, 1065-1073	14.7	21
46	Contribution of dissolved organic matter to the photolysis of methylmercury in estuarine water. *Marine Chemistry*, **2018**, 207, 13-20	3.7	3
45	Transformation of microcystin-LR and olefinic compounds by ferrate(VI): Oxidative cleavage of olefinic double bonds as the primary reaction pathway. *Water Research*, **2018**, 141, 268-278	12.5	14
44	Transformation of methylparaben during water chlorination: Effects of bromide and dissolved organic matter on reaction kinetics and transformation pathways. *Science of the Total Environment*, **2018**, 634, 677-686	10.2	20
43	Reactions of Ferrate(VI) with Iodide and Hypoiodous Acid: Kinetics, Pathways, and Implications for the Fate of Iodine during Water Treatment. *Environmental Science & Technology*, **2018**, 52, 7458-7467	10.3	51
42	Elimination of trace organic contaminants during enhanced wastewater treatment with horseradish peroxidase/hydrogen peroxide (HRP/H2O2) catalytic process. *Catalysis Today*, **2017**, 282, 86-94	5.3	20
41	Inactivation efficiency of plasmid-encoded antibiotic resistance genes during water treatment with chlorine, UV, and UV/HO. *Water Research*, **2017**, 123, 783-793	12.5	122
40	Developing and applying a site-specific multimedia fate model to address ecological risk of oxytetracycline discharged with aquaculture effluent in coastal waters off Jangheung, Korea. *Ecotoxicology and Environmental Safety*, **2017**, 145, 221-226	7	11
39	Surface Water Organophosphorus Pesticides Concentration and Distribution in the Langat River, Selangor, Malaysia. *Exposure and Health*, **2016**, 8, 497-511	8.8	29
38	Influence of Seasonal Variation of Water Temperature and Dissolved Organic Matter on Ozone and OH Radical Reaction Kinetics During Ozonation of a Lake Water. *Ozone: Science and Engineering*, **2016**, 38, 100-114	2.4	12
37	Tin porphyrin immobilization significantly enhances visible-light-photosensitized degradation of Microcystins: Mechanistic implications. *Applied Catalysis B: Environmental*, **2016**, 199, 33-44	21.8	10
36	Inactivation efficiency of Escherichia coli and autochthonous bacteria during ozonation of municipal wastewater effluents quantified with flow cytometry and adenosine tri-phosphate analyses. *Water Research*, **2016**, 101, 617-627	12.5	49
35	Organic Contaminant Abatement in Reclaimed Water by UV/H2O2 and a Combined Process Consisting of O3/H2O2 Followed by UV/H2O2: Prediction of Abatement Efficiency, Energy Consumption, and Byproduct Formation. *Environmental Science & Technology*, **2016**, 50, 3809-19	10.3	102
34	Advances in predicting organic contaminant abatement during ozonation of municipal wastewater effluent: reaction kinetics, transformation products, and changes of biological effects. *Environmental Science: Water Research and Technology*, **2016**, 2, 421-442	4.2	103
33	Transformation of ranitidine during water chlorination and ozonation: Moiety-specific reaction kinetics and elimination efficiency of NDMA formation potential. *Journal of Hazardous Materials*, **2016**, 318, 802-809	12.8	25

32	Elimination of Organic Contaminants during Oxidative Water Treatment with Ferrate(VI): Reaction Kinetics and Transformation Products. *ACS Symposium Series*, **2016**, 255-273	0.4	1
31	Emerging investigators series: prediction of trace organic contaminant abatement with UV/H2O2: development and validation of semi-empirical models for municipal wastewater effluents. *Environmental Science: Water Research and Technology*, **2016**, 2, 460-473	4.2	20
30	N-nitrosodimethylamine (NDMA) formation during ozonation of N,N-dimethylhydrazine compounds: Reaction kinetics, mechanisms, and implications for NDMA formation control. *Water Research*, **2016**, 105, 119-128	12.5	43
29	A multi-parametric approach assessing microbial viability and organic matter characteristics during managed aquifer recharge. *Science of the Total Environment*, **2015**, 524-525, 290-9	10.2	13
28	Substrate-immobilized electrospun TiO2 nanofibers for photocatalytic degradation of pharmaceuticals: The effects of pH and dissolved organic matter characteristics. *Water Research*, **2015**, 86, 25-34	12.5	51
27	Ferrate(VI) oxidation of β-lactam antibiotics: reaction kinetics, antibacterial activity changes, and transformation products. *Environmental Science & Technology*, **2014**, 48, 10380-9	10.3	91
26	Prediction of micropollutant elimination during ozonation of a hospital wastewater effluent. *Water Research*, **2014**, 64, 134-148	12.5	158
25	Reaction of ferrate(VI) with ABTS and self-decay of ferrate(VI): kinetics and mechanisms. *Environmental Science & Technology*, **2014**, 48, 5154-62	10.3	163
24	Effects of hydrodynamic conditions (diffusion vs. convection) and solution chemistry on effective molecular weight cut-off of negatively charged nanofiltration membranes. *Desalination*, **2014**, 352, 136-141	10.3	11
23	Analysis of N-nitrosamines and other nitro(so) compounds in water by high-performance liquid chromatography with post-column UV photolysis/Griess reaction. *Water Research*, **2013**, 47, 4893-903	12.5	34
22	Quantification and characterization of dissolved organic nitrogen in wastewater effluents by electrodialysis treatment followed by size-exclusion chromatography with nitrogen detection. *Water Research*, **2013**, 47, 5381-91	12.5	37
21	Prediction of micropollutant elimination during ozonation of municipal wastewater effluents: use of kinetic and water specific information. *Environmental Science & Technology*, **2013**, 47, 5872-81	10.3	278
20	Development of surrogate correlation models to predict trace organic contaminant oxidation and microbial inactivation during ozonation. *Water Research*, **2012**, 46, 6257-72	12.5	147
19	Quantitative structure-activity relationships (QSARs) for the transformation of organic micropollutants during oxidative water treatment. *Water Research*, **2012**, 46, 6177-95	12.5	228
18	Changes in the sorption and rate of 17β-estradiol biodegradation by dissolved organic matter collected from different water sources. *Journal of Environmental Monitoring*, **2012**, 14, 543-51		7
17	Oxidative transformation of micropollutants during municipal wastewater treatment: comparison of kinetic aspects of selective (chlorine, chlorine dioxide, ferrate VI, and ozone) and non-selective oxidants (hydroxyl radical). *Water Research*, **2010**, 44, 555-66	12.5	519
16	Assessment of zero-valent iron as a permeable reactive barrier for long-term removal of arsenic compounds from synthetic water. *Environmental Technology (United Kingdom)*, **2009**, 30, 1425-34	2.6	20
15	Transformation of 17alpha-ethinylestradiol during water chlorination: effects of bromide on kinetics, products, and transformation pathways. *Environmental Science & Technology*, **2009**, 43, 480-7	10.3	54

14	Ferrate (Fe(VI)) application for Municipal wastewater treatment: a novel process for simultaneous micropollutant oxidation and phosphate removal. *Environmental Science & Technology*, **2009**, 43, 3831-8	10.3	254
13	Oxidation of suspected N-nitrosodimethylamine (NDMA) precursors by ferrate (VI): kinetics and effect on the NDMA formation potential of natural waters. *Water Research*, **2008**, 42, 433-41	12.5	82
12	Efficient removal of estrogenic activity during oxidative treatment of waters containing steroid estrogens. *Environmental Science & Technology*, **2008**, 42, 6333-9	10.3	119
11	Inactivation of Bacillus subtilis spores during ozonation in water treatment plant: influence of pre-treatment and consequences for positioning of the ozonation step. *Chemosphere*, **2007**, 69, 675-81	8.4	17
10	Oxidative degradation of dimethylsulfoxide by locally concentrated hydroxyl radicals in streamer corona discharge process. *Chemosphere*, **2006**, 65, 1163-70	8.4	26
9	Study on Fe(VI) species as a disinfectant: quantitative evaluation and modeling for inactivating Escherichia coli. *Water Research*, **2006**, 40, 3580-6	12.5	65
8	Kinetics of the oxidation of phenols and phenolic endocrine disruptors during water treatment with ferrate (Fe(VI)). *Environmental Science & Technology*, **2005**, 39, 8978-84	10.3	226
7	Spectrophotometric determination of ferrate (Fe(VI)) in water by ABTS. *Water Research*, **2005**, 39, 1946-53	12.5	152
6	Inactivation of Escherichia coli by photochemical reaction of ferrioxalate at slightly acidic and near-neutral pHs. *Applied and Environmental Microbiology*, **2004**, 70, 1129-34	4.8	54
5	Kinetics and mechanisms of DMSO (dimethylsulfoxide) degradation by UV/H(2)O(2) process. *Water Research*, **2004**, 38, 2579-88	12.5	73
4	Arsenic(III) oxidation by iron(VI) (ferrate) and subsequent removal of arsenic(V) by iron(III) coagulation. *Environmental Science & Technology*, **2003**, 37, 5750-6	10.3	225
3	High temperature dependence of 2,4-dichlorophenoxyacetic acid degradation by Fe3+/H(2)O(2) system. *Chemosphere*, **2003**, 51, 963-71	8.4	59
2	Influence of various reaction parameters on 2,4-D removal in photo/ferrioxalate/H(2)O(2) process. *Chemosphere*, **2003**, 51, 901-12	8.4	43
1	Electrospray interfacial polymerization for a loose NF membrane: super-selective dye separation in saline dye wastewater treatment. *Environmental Science: Nano*,	7.1	1