

Yunho Lee

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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). <i>Water Research</i> , 2010 , 44, 555-66	12.5	519
84	Prediction of micropollutant elimination during ozonation of municipal wastewater effluents: use of kinetic and water specific information. <i>Environmental Science & Technology</i> , 2013 , 47, 5872-81	10.3	278
83	Ferrate (Fe(VI)) application for Municipal wastewater treatment: a novel process for simultaneous micropollutant oxidation and phosphate removal. <i>Environmental Science & Technology</i> , 2009 , 43, 3831-8	10.3	254
82	Quantitative structure-activity relationships (QSARs) for the transformation of organic micropollutants during oxidative water treatment. <i>Water Research</i> , 2012 , 46, 6177-95	12.5	228
81	Kinetics of the oxidation of phenols and phenolic endocrine disruptors during water treatment with ferrate (Fe(VI)). <i>Environmental Science & Technology</i> , 2005 , 39, 8978-84	10.3	226
80	Arsenic(III) oxidation by iron(VI) (ferrate) and subsequent removal of arsenic(V) by iron(III) coagulation. <i>Environmental Science & Technology</i> , 2003 , 37, 5750-6	10.3	225
79	Reaction of ferrate(VI) with ABTS and self-decay of ferrate(VI): kinetics and mechanisms. <i>Environmental Science & Technology</i> , 2014 , 48, 5154-62	10.3	163
78	Prediction of micropollutant elimination during ozonation of a hospital wastewater effluent. <i>Water Research</i> , 2014 , 48, 134-148	12.5	158
77	Spectrophotometric determination of ferrate (Fe(VI)) in water by ABTS. <i>Water Research</i> , 2005 , 39, 1946-53	12.5	152
76	Development of surrogate correlation models to predict trace organic contaminant oxidation and microbial inactivation during ozonation. <i>Water Research</i> , 2012 , 46, 6257-72	12.5	147
75	Inactivation efficiency of plasmid-encoded antibiotic resistance genes during water treatment with chlorine, UV, and UV/HO. <i>Water Research</i> , 2017 , 123, 783-793	12.5	122
74	Efficient removal of estrogenic activity during oxidative treatment of waters containing steroid estrogens. <i>Environmental Science & Technology</i> , 2008 , 42, 6333-9	10.3	119
73	Advances in predicting organic contaminant abatement during ozonation of municipal wastewater effluent: reaction kinetics, transformation products, and changes of biological effects. <i>Environmental Science: Water Research and Technology</i> , 2016 , 2, 421-442	4.2	103
72	Organic Contaminant Abatement in Reclaimed Water by UV/H ₂ O ₂ and a Combined Process Consisting of O ₃ /H ₂ O ₂ Followed by UV/H ₂ O ₂ : Prediction of Abatement Efficiency, Energy Consumption, and Byproduct Formation. <i>Environmental Science & Technology</i> , 2016 , 50, 3809-19	10.3	102
71	Ferrate(VI) oxidation of β -lactam antibiotics: reaction kinetics, antibacterial activity changes, and transformation products. <i>Environmental Science & Technology</i> , 2014 , 48, 10380-9	10.3	91
70	Oxidation of suspected N-nitrosodimethylamine (NDMA) precursors by ferrate (VI): kinetics and effect on the NDMA formation potential of natural waters. <i>Water Research</i> , 2008 , 42, 433-41	12.5	82
69	Degradation and Deactivation of Bacterial Antibiotic Resistance Genes during Exposure to Free Chlorine, Monochloramine, Chlorine Dioxide, Ozone, Ultraviolet Light, and Hydroxyl Radical. <i>Environmental Science & Technology</i> , 2019 , 53, 2013-2026	10.3	81

68	Prevalence of antibiotic resistance genes from effluent of coastal aquaculture, South Korea. <i>Environmental Pollution</i> , 2018 , 233, 1049-1057	9.3	78
67	Kinetics and mechanisms of DMSO (dimethylsulfoxide) degradation by UV/H ₂ O ₂ process. <i>Water Research</i> , 2004 , 38, 2579-88	12.5	73
66	Study on Fe(VI) species as a disinfectant: quantitative evaluation and modeling for inactivating <i>Escherichia coli</i> . <i>Water Research</i> , 2006 , 40, 3580-6	12.5	65
65	High temperature dependence of 2,4-dichlorophenoxyacetic acid degradation by Fe ³⁺ /H ₂ O ₂ system. <i>Chemosphere</i> , 2003 , 51, 963-71	8.4	59
64	Oxidation of Sulfonamide Antibiotics of Six-Membered Heterocyclic Moiety by Ferrate(VI): Kinetics and Mechanistic Insight into SO Extrusion. <i>Environmental Science & Technology</i> , 2019 , 53, 2695-2704 ^{10.3}	10.3	58
63	Transformation of 17alpha-ethinylestradiol during water chlorination: effects of bromide on kinetics, products, and transformation pathways. <i>Environmental Science & Technology</i> , 2009 , 43, 480-7	10.3	54
62	Inactivation of <i>Escherichia coli</i> by photochemical reaction of ferrioxalate at slightly acidic and near-neutral pHs. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 1129-34	4.8	54
61	Substrate-immobilized electrospun TiO ₂ nanofibers for photocatalytic degradation of pharmaceuticals: The effects of pH and dissolved organic matter characteristics. <i>Water Research</i> , 2015 , 86, 25-34	12.5	51
60	Reactions of Ferrate(VI) with Iodide and Hypoiodous Acid: Kinetics, Pathways, and Implications for the Fate of Iodine during Water Treatment. <i>Environmental Science & Technology</i> , 2018 , 52, 7458-7467 ^{10.3}	10.3	51
59	Inactivation efficiency of <i>Escherichia coli</i> and autochthonous bacteria during ozonation of municipal wastewater effluents quantified with flow cytometry and adenosine tri-phosphate analyses. <i>Water Research</i> , 2016 , 101, 617-627	12.5	49
58	PIP/TMC Interfacial Polymerization with Electrospray: Novel Loose Nanofiltration Membrane for Dye Wastewater Treatment. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36148-36158	9.5	47
57	Influence of various reaction parameters on 2,4-D removal in photo/ferrioxalate/H ₂ O ₂ process. <i>Chemosphere</i> , 2003 , 51, 901-12	8.4	43
56	N-nitrosodimethylamine (NDMA) formation during ozonation of N,N-dimethylhydrazine compounds: Reaction kinetics, mechanisms, and implications for NDMA formation control. <i>Water Research</i> , 2016 , 105, 119-128	12.5	43
55	Enhanced Gold(III) adsorption using glutaraldehyde-crosslinked chitosan beads: Effect of crosslinking degree on adsorption selectivity, capacity, and mechanism. <i>Separation and Purification Technology</i> , 2020 , 248, 116989	8.3	38
54	Quantification and characterization of dissolved organic nitrogen in wastewater effluents by electro dialysis treatment followed by size-exclusion chromatography with nitrogen detection. <i>Water Research</i> , 2013 , 47, 5381-91	12.5	37
53	Elimination of transforming activity and gene degradation during UV and UV/H ₂ O ₂ treatment of plasmid-encoded antibiotic resistance genes. <i>Environmental Science: Water Research and Technology</i> , 2018 , 4, 1239-1251	4.2	36
52	Impacts of advanced oxidation processes on disinfection byproducts from dissolved organic matter upon post-chlor(am)ination: A critical review. <i>Chemical Engineering Journal</i> , 2019 , 375, 121929	14.7	35
51	Antibiotics in coastal aquaculture waters: Occurrence and elimination efficiency in oxidative water treatment processes. <i>Journal of Hazardous Materials</i> , 2020 , 396, 122585	12.8	35

50	Analysis of N-nitrosamines and other nitro(so) compounds in water by high-performance liquid chromatography with post-column UV photolysis/Griess reaction. <i>Water Research</i> , 2013 , 47, 4893-903	12.5	34
49	Surface Water Organophosphorus Pesticides Concentration and Distribution in the Langat River, Selangor, Malaysia. <i>Exposure and Health</i> , 2016 , 8, 497-511	8.8	29
48	Oxidative degradation of dimethylsulfoxide by locally concentrated hydroxyl radicals in streamer corona discharge process. <i>Chemosphere</i> , 2006 , 65, 1163-70	8.4	26
47	Transformation of ranitidine during water chlorination and ozonation: Moiety-specific reaction kinetics and elimination efficiency of NDMA formation potential. <i>Journal of Hazardous Materials</i> , 2016 , 318, 802-809	12.8	25
46	Mechanistic and Kinetic Understanding of the UV Photolysis of Chlorine and Bromine Species in Water and Formation of Oxyhalides. <i>Environmental Science & Technology</i> , 2020 , 54, 11546-11555	10.3	22
45	Oxidation kinetics of algal-derived taste and odor compounds during water treatment with ferrate(VI). <i>Chemical Engineering Journal</i> , 2018 , 334, 1065-1073	14.7	21
44	Elimination of trace organic contaminants during enhanced wastewater treatment with horseradish peroxidase/hydrogen peroxide (HRP/H ₂ O ₂) catalytic process. <i>Catalysis Today</i> , 2017 , 282, 86-94	5.3	20
43	Assessment of zero-valent iron as a permeable reactive barrier for long-term removal of arsenic compounds from synthetic water. <i>Environmental Technology (United Kingdom)</i> , 2009 , 30, 1425-34	2.6	20
42	Degradation and deactivation of a plasmid-encoded extracellular antibiotic resistance gene during separate and combined exposures to UV and radicals. <i>Water Research</i> , 2020 , 182, 115921	12.5	20
41	Emerging investigators series: prediction of trace organic contaminant abatement with UV/H ₂ O ₂ : development and validation of semi-empirical models for municipal wastewater effluents. <i>Environmental Science: Water Research and Technology</i> , 2016 , 2, 460-473	4.2	20
40	Transformation of methylparaben during water chlorination: Effects of bromide and dissolved organic matter on reaction kinetics and transformation pathways. <i>Science of the Total Environment</i> , 2018 , 634, 677-686	10.2	20
39	Use of a filtering process to remove solid waste and antibiotic resistance genes from effluent of a flow-through fish farm. <i>Science of the Total Environment</i> , 2018 , 615, 289-296	10.2	18
38	Inactivation of <i>Bacillus subtilis</i> spores during ozonation in water treatment plant: influence of pre-treatment and consequences for positioning of the ozonation step. <i>Chemosphere</i> , 2007 , 69, 675-81	8.4	17
37	A global multinational survey of cefotaxime-resistant coliforms in urban wastewater treatment plants. <i>Environment International</i> , 2020 , 144, 106035	12.9	17
36	Effect of membrane property and feed water organic matter quality on long-term performance of the gravity-driven membrane filtration process. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 1152-1162	5.1	17
35	Transformation of an Amine Moiety of Atenolol during Water Treatment with Chlorine/UV: Reaction Kinetics, Products, and Mechanisms. <i>Environmental Science & Technology</i> , 2019 , 53, 7653-7662	10.3	14
34	Degradation Kinetics of Antibiotic Resistance Gene of Methicillin-Resistant (MRSA) during Water Disinfection with Chlorine, Ozone, and Ultraviolet Light. <i>Environmental Science & Technology</i> , 2021 , 55, 2541-2552	10.3	14
33	Transformation of microcystin-LR and olefinic compounds by ferrate(VI): Oxidative cleavage of olefinic double bonds as the primary reaction pathway. <i>Water Research</i> , 2018 , 141, 268-278	12.5	14

32	A multi-parametric approach assessing microbial viability and organic matter characteristics during managed aquifer recharge. <i>Science of the Total Environment</i> , 2015 , 524-525, 290-9	10.2	13
31	Influence of Seasonal Variation of Water Temperature and Dissolved Organic Matter on Ozone and OH Radical Reaction Kinetics During Ozonation of a Lake Water. <i>Ozone: Science and Engineering</i> , 2016 , 38, 100-114	2.4	12
30	Coexposure Degradation of Purine Derivatives in the Sulfate Radical-Mediated Oxidation Process. <i>Environmental Science & Technology</i> , 2020 , 54, 1186-1195	10.3	12
29	Kinetics of the reaction between hydrogen peroxide and aqueous iodine: Implications for technical and natural aquatic systems. <i>Water Research</i> , 2020 , 179, 115852	12.5	11
28	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. <i>Ecotoxicology and Environmental Safety</i> , 2017 , 145, 221-226	7	11
27	Effects of hydrodynamic conditions (diffusion vs. convection) and solution chemistry on effective molecular weight cut-off of negatively charged nanofiltration membranes. <i>Desalination</i> , 2014 , 352, 136-141	10.3	11
26	Tin porphyrin immobilization significantly enhances visible-light-photosensitized degradation of Microcystins: Mechanistic implications. <i>Applied Catalysis B: Environmental</i> , 2016 , 199, 33-44	21.8	10
25	Elimination efficiency of organic UV filters during ozonation and UV/HO treatment of drinking water and wastewater effluent. <i>Chemosphere</i> , 2019 , 230, 248-257	8.4	9
24	Divergent Strategies for the Extension of Heteroaryl Halides Using Norbornadiene as an Acetylene Synthon. <i>Organic Letters</i> , 2020 , 22, 9670-9676	6.2	8
23	Changes in the sorption and rate of 17 β -estradiol biodegradation by dissolved organic matter collected from different water sources. <i>Journal of Environmental Monitoring</i> , 2012 , 14, 543-51		7
22	Occurrence and transformation of gabapentin in urban water quality engineering: Rapid formation of nitrile from amine during drinking water chlorination. <i>Water Research</i> , 2020 , 184, 116123	12.5	6
21	Chlorination of N,N-dimethylhydrazine compounds: reaction kinetics, mechanisms, and implications for controlling N-nitrosodimethylamine formation during ozonation. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 2567-2579	4.2	4
20	Dye adsorptive thin-film composite membrane with magnetite decorated sulfonated graphene oxide for efficient dye/salt mixture separation. <i>Desalination</i> , 2022 , 524, 115462	10.3	4
19	Recent Update on UV Disinfection to Fulfill the Disinfection Credit Value for Enteric Viruses in Water. <i>Environmental Science & Technology</i> , 2021 ,	10.3	4
18	Nitriles as main products from the oxidation of primary amines by ferrate(VI): Kinetics, mechanisms and toxicological implications for nitrogenous disinfection byproduct control. <i>Water Research</i> , 2021 , 209, 117881	12.5	3
17	Contribution of dissolved organic matter to the photolysis of methylmercury in estuarine water. <i>Marine Chemistry</i> , 2018 , 207, 13-20	3.7	3
16	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. <i>Chemosphere</i> , 2021 , 288, 132629	8.4	2
15	Efficient degradation of ethanolamine by UV/chlorine process via organic chloramine photolysis: Kinetics, products, and implications for ethanolamine wastewater treatment. <i>Chemical Engineering Journal</i> , 2021 , 412, 128631	14.7	2

14	Prediction of Photolysis Kinetics of Viral Genomes under UV Irradiation to Estimate Virus Infectivity Loss. <i>Water Research</i> , 2021 , 198, 117165	12.5	2
13	Facile recovery of gold from e-waste by integrating chlorate leaching and selective adsorption using chitosan-based bioadsorbent. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104661	6.8	2
12	Reaction kinetics and degradation efficiency of halogenated methylparabens during ozonation and UV/HO treatment of drinking water and wastewater effluent. <i>Journal of Hazardous Materials</i> , 2021 , 127878	12.8	1
11	Relationships among Permeability, Membrane Roughness, and Eukaryote Inhabitation during Submerged Gravity-Driven Membrane (GDM) Filtration. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8111	2.6	1
10	Elimination of Organic Contaminants during Oxidative Water Treatment with Ferrate(VI): Reaction Kinetics and Transformation Products. <i>ACS Symposium Series</i> , 2016 , 255-273	0.4	1
9	Photosensitizer-peptoid conjugates for photoinactivation of Gram-negative bacteria: structure-activity relationship and mechanistic studies. <i>Organic and Biomolecular Chemistry</i> , 2021 , 19, 6546-6557	3.9	1
8	Axial Redox Tuning at a Tetragonal Cobalt Center. <i>Inorganic Chemistry</i> , 2021 , 60, 5647-5659	5.1	1
7	Degradation and deactivation of plasmid-encoded antibiotic resistance genes during exposure to ozone and chlorine. <i>Water Research</i> , 2021 , 202, 117408	12.5	1
6	Conformational Adaptation of β Peptide Foldamers for the Formation of Metal-Peptide Frameworks. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	1
5	Electrospray interfacial polymerization for a loose NF membrane: super-selective dye separation in saline dye wastewater treatment. <i>Environmental Science: Nano</i> ,	7.1	1
4	Linkage between bacterial community-mediated hydrogen peroxide detoxification and the growth of <i>Microcystis aeruginosa</i> . <i>Water Research</i> , 2021 , 207, 117784	12.5	0
3	Kinetic and mechanistic investigations of the decomposition of bromamines in the presence of Cu(II). <i>Water Research</i> , 2021 , 207, 117791	12.5	0
2	Binding of carbon monoxide at a single nickel center and its oxidative reactivity toward CO ₂ and O ₂ . <i>Bulletin of the Korean Chemical Society</i> , 2022 , 43, 222-226	1.2	
1	Photochemistry of Water Treatment Oxidants for Advanced Oxidation Processes. <i>Springer Handbooks</i> , 2022 , 1685-1718	1.3	