

Kyung-Duk Zoh

List of Publications by Year in descending order

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120
papers

5,857
citations

71102

41
h-index

82547

72
g-index

123
all docs

123
docs citations

123
times ranked

7311
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption characteristics of selected hydrophilic and hydrophobic micropollutants in water using activated carbon. <i>Journal of Hazardous Materials</i> , 2014, 270, 144-152.	12.4	357
2	Photocatalytic degradation of azo dye (Reactive Red 120) in TiO ₂ /UV system: Optimization and modeling using a response surface methodology (RSM) based on the central composite design. <i>Dyes and Pigments</i> , 2007, 75, 533-543.	3.7	238
3	Removal of endocrine disrupting compounds, pharmaceuticals, and personal care products in water using carbon nanotubes: A review. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 27, 1-11.	5.8	235
4	Adsorption characteristics of diclofenac and sulfamethoxazole to graphene oxide in aqueous solution. <i>Chemosphere</i> , 2015, 136, 20-26.	8.2	221
5	Distribution of phthalate esters in air, water, sediments, and fish in the Asan Lake of Korea. <i>Environment International</i> , 2019, 126, 635-643.	10.0	180
6	Occurrence of microplastics in the Han River and riverine fish in South Korea. <i>Science of the Total Environment</i> , 2020, 708, 134535.	8.0	170
7	Kinetics and mechanism of TNT degradation in TiO ₂ photocatalysis. <i>Chemosphere</i> , 2004, 57, 309-317.	8.2	146
8	Occurrence and removals of micropollutants in water environment. <i>Environmental Engineering Research</i> , 2016, 21, 319-332.	2.5	122
9	Occurrence and removal of selected micropollutants in a water treatment plant. <i>Chemosphere</i> , 2014, 95, 156-165.	8.2	120
10	Inactivation and UV Disinfection of Murine Norovirus with TiO ₂ under Various Environmental Conditions. <i>Applied and Environmental Microbiology</i> , 2008, 74, 2111-2117.	3.1	119
11	Kinetics and mechanism of photolysis and TiO ₂ photocatalysis of triclosan. <i>Journal of Hazardous Materials</i> , 2009, 166, 954-960.	12.4	113
12	Removal characteristics and mechanism of antibiotics using constructed wetlands. <i>Ecological Engineering</i> , 2016, 91, 85-92.	3.6	111
13	Characteristics of trihalomethane (THM) production and associated health risk assessment in swimming pool waters treated with different disinfection methods. <i>Science of the Total Environment</i> , 2009, 407, 1990-1997.	8.0	110
14	Concentration and distribution of per- and polyfluoroalkyl substances (PFAS) in the Asan Lake area of South Korea. <i>Journal of Hazardous Materials</i> , 2020, 381, 120909.	12.4	109
15	Modeling of highway stormwater runoff. <i>Science of the Total Environment</i> , 2005, 348, 1-18.	8.0	108
16	Removal mechanism of heavy metal (Cu, Ni, Zn, and Cr) in the presence of cyanide during electrocoagulation using Fe and Al electrodes. <i>Journal of Water Process Engineering</i> , 2020, 33, 101109.	5.6	106
17	Optimization of carbamazepine removal in O ₃ /UV/H ₂ O ₂ system using a response surface methodology with central composite design. <i>Desalination</i> , 2012, 285, 306-314.	8.2	98
18	Wastewater treatment plants (WWTPs)-derived national discharge loads of perfluorinated compounds (PFCs). <i>Journal of Hazardous Materials</i> , 2012, 201-202, 82-91.	12.4	97

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19	Source apportionment of PM _{2.5} at the coastal area in Korea. <i>Science of the Total Environment</i> , 2013, 447, 370-380.	8.0	95
20	A Fenton-like degradation mechanism for 1,4-dioxane using zero-valent iron (Fe ⁰) and UV light. <i>Water Research</i> , 2009, 43, 1457-1463.	11.3	92
21	Production of various disinfection byproducts in indoor swimming pool waters treated with different disinfection methods. <i>International Journal of Hygiene and Environmental Health</i> , 2010, 213, 465-474.	4.3	91
22	Review of MXene-based nanocomposites for photocatalysis. <i>Chemosphere</i> , 2021, 270, 129478.	8.2	88
23	Release of phosphate in a wetland by changes in hydrological regime. <i>Science of the Total Environment</i> , 2007, 380, 13-18.	8.0	84
24	Benzophenone-3 degradation via UV/H ₂ O ₂ and UV/persulfate reactions. <i>Journal of Hazardous Materials</i> , 2021, 403, 123591.	12.4	81
25	Chemical characteristics of PM _{2.5} aerosol in Incheon, Korea. <i>Atmospheric Environment</i> , 2012, 60, 583-592.	4.1	80
26	Fenton oxidation of hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) and octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX). <i>Water Research</i> , 2002, 36, 1331-1341.	11.3	79
27	Degradation mechanism and the toxicity assessment in TiO ₂ photocatalysis and photolysis of parathion. <i>Chemosphere</i> , 2006, 62, 926-933.	8.2	79
28	Effect of nitrate, carbonate/bicarbonate, humic acid, and H ₂ O ₂ on the kinetics and degradation mechanism of Bisphenol-A during UV photolysis. <i>Chemosphere</i> , 2018, 204, 148-155.	8.2	77
29	Enhanced ultrasonic degradation of acetaminophen and naproxen in the presence of powdered activated carbon and biochar adsorbents. <i>Separation and Purification Technology</i> , 2014, 123, 96-105.	7.9	72
30	Removal of 1,4-dioxane from water using sonication: Effect of adding oxidants on the degradation kinetics. <i>Water Research</i> , 2006, 40, 692-698.	11.3	71
31	Nanostructured Raman substrates for the sensitive detection of submicrometer-sized plastic pollutants in water. <i>Journal of Hazardous Materials</i> , 2021, 402, 123499.	12.4	71
32	Fate and Transport of Mercury in Environmental Media and Human Exposure. <i>Journal of Preventive Medicine and Public Health</i> , 2012, 45, 335-343.	1.9	69
33	Methane concentrations and methanotrophic community structure influence the response of soil methane oxidation to nitrogen content in a temperate forest. <i>Soil Biology and Biochemistry</i> , 2011, 43, 620-627.	8.8	65
34	Ultrasonic degradation of acetaminophen and naproxen in the presence of single-walled carbon nanotubes. <i>Journal of Hazardous Materials</i> , 2013, 254-255, 284-292.	12.4	65
35	Degradation mechanisms of geosmin and 2-MIB during UV photolysis and UV/chlorine reactions. <i>Chemosphere</i> , 2016, 162, 157-164.	8.2	63
36	Effects of natural water constituents on the photo-decomposition of methylmercury and the role of hydroxyl radical. <i>Science of the Total Environment</i> , 2013, 449, 95-101.	8.0	62

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37	Sonocatalytic-TiO ₂ nanotube, Fenton, and CCl ₄ reactions for enhanced oxidation, and their applications to acetaminophen and naproxen degradation. <i>Separation and Purification Technology</i> , 2015, 141, 1-9.	7.9	60
38	Degradation of ciprofloxacin and inactivation of ciprofloxacin resistant <i>E. faecium</i> during UV-LED (275Ånm)/chlorine process. <i>Chemical Engineering Journal</i> , 2020, 394, 124803.	12.7	52
39	Degradation characteristics of metoprolol during UV/chlorination reaction and a factorial design optimization. <i>Journal of Hazardous Materials</i> , 2015, 285, 453-463.	12.4	51
40	Estimating Pollutant Mass Accumulation on Highways during Dry Periods. <i>Journal of Environmental Engineering, ASCE</i> , 2006, 132, 985-993.	1.4	47
41	Degradation mechanism of perfluorooctanoic acid (PFOA) during electrocoagulation using Fe electrode. <i>Separation and Purification Technology</i> , 2020, 247, 116911.	7.9	47
42	Distributions of Microplastics in Surface Water, Fish, and Sediment in the Vicinity of a Sewage Treatment Plant. <i>Water (Switzerland)</i> , 2020, 12, 3333.	2.7	45
43	Emission of greenhouse gases from waste incineration in Korea. <i>Journal of Environmental Management</i> , 2017, 196, 710-718.	7.8	43
44	A novel host containing both binding site and nucleophile prepared by attachment of .beta.-cyclodextrin to poly(ethylenimine). <i>Journal of the American Chemical Society</i> , 1992, 114, 7916-7917.	13.7	41
45	Carbamazepine Degradation by Photolysis and Titanium Dioxide Photocatalysis. <i>Water Environment Research</i> , 2012, 84, 554-561.	2.7	39
46	Characteristics of methane and nitrous oxide emissions from the wastewater treatment plant. <i>Bioresource Technology</i> , 2016, 214, 881-884.	9.6	39
47	Distributions of total mercury and methylmercury in surface sediments and fishes in Lake Shihwa, Korea. <i>Science of the Total Environment</i> , 2010, 408, 1059-1068.	8.0	38
48	Occurrence of disinfection by-products in tap water distribution systems and their associated health risk. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 7675-7691.	2.7	38
49	Degradation mechanism of cyanide in water using a UV-LED/H ₂ O ₂ /Cu ²⁺ system. <i>Chemosphere</i> , 2018, 208, 441-449.	8.2	38
50	Degradation kinetics and pathway of 1H-benzotriazole during UV/chlorination process. <i>Chemical Engineering Journal</i> , 2019, 359, 1502-1508.	12.7	38
51	Application of a membrane bioreactor for treating explosives process wastewater. <i>Water Research</i> , 2002, 36, 1018-1024.	11.3	37
52	Development of water quality criteria of ammonia for protecting aquatic life in freshwater using species sensitivity distribution method. <i>Science of the Total Environment</i> , 2018, 634, 934-940.	8.0	37
53	Energy-efficient erythromycin degradation using UV-LED (275Ånm)/chlorine process: Radical contribution, transformation products, and toxicity evaluation. <i>Water Research</i> , 2020, 185, 116159.	11.3	37
54	Spectroscopic analysis of microplastic contaminants in an urban wastewater treatment plant from Seoul, South Korea. <i>Chemosphere</i> , 2021, 263, 127812.	8.2	37

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55	1-Hydroxypyrene as a biomarker of PAH exposure among subjects living in two separate regions from a steel mill. <i>International Archives of Occupational and Environmental Health</i> , 2007, 80, 671-678.	2.3	36
56	Application of a microbial toxicity assay for monitoring treatment effectiveness of pentachlorophenol in water using UV photolysis and TiO ₂ photocatalysis. <i>Journal of Hazardous Materials</i> , 2007, 148, 281-286.	12.4	35
57	Molecular marker characterization and source appointment of particulate matter and its organic aerosols. <i>Chemosphere</i> , 2015, 134, 482-491.	8.2	35
58	Seasonal variation in dissolved gaseous mercury and total mercury concentrations in Juam Reservoir, Korea. <i>Environmental Pollution</i> , 2008, 154, 12-20.	7.5	30
59	Degradation of triclosan in the combined reaction of Fe ²⁺ and UV- γ : Comparison with the Fenton and photolytic reactions. <i>Environmental Progress and Sustainable Energy</i> , 2010, 29, 415-420.	2.3	29
60	Analysis of black carbon, particulate matter, and gaseous pollutants in an industrial area in Korea. <i>Atmospheric Environment</i> , 2011, 45, 7698-7704.	4.1	28
61	Effects of 2-ethylhexyl-4-methoxycinnamate (EHMC) on thyroid hormones and genes associated with thyroid, neurotoxic, and nephrotoxic responses in adult and larval zebrafish (<i>Danio rerio</i>). <i>Chemosphere</i> , 2021, 263, 128176.	8.2	28
62	Perchlorate removal in Fe ₀ /H ₂ O systems: Impact of oxygen availability and UV radiation. <i>Journal of Hazardous Materials</i> , 2011, 192, 457-464.	12.4	26
63	Degradation mechanisms of Microcystin-LR during UV-B photolysis and UV/H ₂ O ₂ processes: Byproducts and pathways. <i>Chemosphere</i> , 2017, 185, 1039-1047.	8.2	26
64	Kinetics and degradation mechanism of Benzophenone-3 in chlorination and UV/chlorination reactions. <i>Chemical Engineering Journal</i> , 2020, 393, 124780.	12.7	26
65	Kinetics and degradation mechanism of clofibric acid and diclofenac in UV photolysis and UV/H ₂ O ₂ reaction. <i>Desalination and Water Treatment</i> , 2014, 52, 6211-6218.	1.0	25
66	Effects of molecular size fraction of DOM on photodegradation of aqueous methylmercury. <i>Chemosphere</i> , 2017, 174, 739-746.	8.2	25
67	Removal of tetramethylammonium hydroxide (TMAH) in semiconductor wastewater using the nano-ozone H ₂ O ₂ process. <i>Journal of Hazardous Materials</i> , 2021, 409, 123759.	12.4	24
68	Effects of ultraviolet intensity and wavelength on the photolysis of triclosan. <i>Water Science and Technology</i> , 2007, 55, 209-216.	2.5	23
69	Occurrence and characteristics of microplastics in fish of the Han River, South Korea: Factors affecting microplastic abundance in fish. <i>Environmental Research</i> , 2022, 206, 112647.	7.5	22
70	Removal of heavy metals in electroplating wastewater by powdered activated carbon (PAC) and sodium diethyldithiocarbamate-modified PAC. <i>Environmental Engineering Research</i> , 2018, 23, 301-308.	2.5	21
71	Degradation mechanism of anatoxin-a in UV-C/H ₂ O ₂ reaction. <i>Chemical Engineering Journal</i> , 2018, 334, 1016-1022.	12.7	20
72	Kinetics and degradation mechanism of tris (1-chloro-2-propyl) phosphate in the UV/H ₂ O ₂ reaction. <i>Chemosphere</i> , 2020, 260, 127461.	8.2	20

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73	Thyroid disrupting effects of perfluoroundecanoic acid and perfluorotridecanoic acid in zebrafish (<i>Danio rerio</i>) and rat pituitary (GH3) cell line. <i>Chemosphere</i> , 2021, 262, 128012.	8.2	19
74	Degradation of cyclophosphamide during UV/chlorine reaction: Kinetics, byproducts, and their toxicity. <i>Chemosphere</i> , 2021, 268, 128817.	8.2	19
75	Cooperation of β -Cyclodextrin with Macrocyclic Metal Centers in the Action of Artificial Metalloesterases Built on Poly(ethylenimine). <i>Bioorganic Chemistry</i> , 1994, 22, 242-252.	4.1	18
76	Degradation Kinetics and Mechanism of RDX and HMX in TiO ₂ Photocatalysis. <i>Environmental Technology (United Kingdom)</i> , 2006, 27, 219-232.	2.2	18
77	Distribution of brominated flame retardants and phthalate esters in house dust in Korea. <i>Environmental Engineering Research</i> , 2018, 23, 354-363.	2.5	18
78	Solar photocatalytic degradation of groundwater contaminated with petroleum hydrocarbons. <i>Environmental Progress</i> , 2006, 25, 99-109.	0.7	17
79	Degradation and mineralization of violet-3B dye using C-N-codoped TiO ₂ photocatalyst. <i>Environmental Engineering Research</i> , 2020, 25, 529-535.	2.5	17
80	Occurrence and Sources of Synthetic Musk Fragrances in the Sewage Treatment Plants and the Han River, Korea. <i>Water (Switzerland)</i> , 2021, 13, 392.	2.7	16
81	Treatment of Hydrolysates of the High Explosives Hexahydro-1,3,5-Trinitro-1,3,5-Triazine and Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine Using Biological Denitrification. <i>Water Environment Research</i> , 1999, 71, 148-155.	2.7	15
82	The production of dissolved gaseous mercury from methylmercury photodegradation at different salinity. <i>Desalination and Water Treatment</i> , 2016, 57, 610-619.	1.0	15
83	Interaction between Diethyldithiocarbamate and Cu(II) on Gold in Non-Cyanide Wastewater. <i>Sensors</i> , 2017, 17, 2628.	3.8	15
84	Characteristics of litter waste in highway storm runoff. <i>Water Science and Technology</i> , 2006, 53, 225-234.	2.5	14
85	Streaming current titration for coagulation of high turbidity water. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 419, 133-139.	4.7	13
86	Removal of Selected Micropollutants During Conventional and Advanced Water Treatment Processes. <i>Environmental Engineering Science</i> , 2017, 34, 752-761.	1.6	13
87	Degradation kinetics and pathways of β -cyclocitral and β -ionone during UV photolysis and UV/chlorination reactions. <i>Journal of Environmental Management</i> , 2019, 239, 8-16.	7.8	13
88	The influence of geometrical characteristics on the photocatalytic activity of TiO ₂ nanotube arrays for degradation of refractory organic pollutants in wastewater. <i>Water Science and Technology</i> , 2015, 71, 1301-1309.	2.5	12
89	In situ Raman spectroscopic monitoring of organic dyes and ferric ions in Fenton reactions on sharp-edged gold nanostar surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 551, 1-8.	4.7	12
90	Rapid screening for ecotoxicity of plating and semiconductor wastewater employing the heartbeat of <i>Daphnia magna</i> . <i>Ecotoxicology and Environmental Safety</i> , 2019, 186, 109721.	6.0	12

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91	Contribution of diffuse inputs to the aqueous mass load of perfluoroalkyl acids in river and stream catchments in Korea. <i>Science of the Total Environment</i> , 2014, 470-471, 1430-1440.	8.0	11
92	Effects of Methanol and Carbon Tetrachloride on Sonolysis of 1,4-Dioxane in Relation to Temperature. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 8939-8944.	3.7	10
93	Source identification of total mercury (TM) wet deposition using a Lagrangian particle dispersion model (LPDM). <i>Atmospheric Environment</i> , 2015, 104, 102-111.	4.1	9
94	Desorption of micropollutant from spent carbon filters used for water purifier. <i>Environmental Science and Pollution Research</i> , 2017, 24, 17606-17615.	5.3	9
95	Degradation of iopromide during the UV-LED/chlorine reaction: Effect of wavelength, radical contribution, transformation products, and toxicity. <i>Journal of Hazardous Materials</i> , 2022, 437, 129371.	12.4	9
96	Parathion degradation and toxicity reduction in solar photocatalysis and photolysis. <i>Water Science and Technology</i> , 2006, 53, 1-8.	2.5	8
97	Effect of Abiotic and Biotic Factors on the Photo-Induced Production of Dissolved Gaseous Mercury. <i>Water, Air, and Soil Pollution</i> , 2011, 220, 353-363.	2.4	8
98	Spatial and temporal variation of total mercury and methylmercury in lacustrine wetland in Korea. <i>Environmental Science and Pollution Research</i> , 2015, 22, 6578-6589.	5.3	8
99	Identification of environmental determinants for spatio-temporal patterns of norovirus outbreaks in Korea using a geographic information system and binary response models. <i>Science of the Total Environment</i> , 2016, 569-570, 291-299.	8.0	8
100	Occurrence and Fate of Micropollutants in Private Wastewater Treatment Facility (WTF) and Their Impact on Receiving Water. <i>Environmental Management</i> , 2019, 64, 650-660.	2.7	8
101	The Estimation of Emission Factor of N ₂ O and CH ₄ by Measurement from Stacks in the Waste Incinerators and Cement Production Plants. <i>Korean Journal of Environmental Health Sciences</i> , 2007, 33, 217-226.	0.3	8
102	Effect of Bulk Temperature and Frequency on the Sonolytic Degradation of 1,4-Dioxane with Fe ⁰ . <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 5394-5400.	3.7	7
103	Characteristics of total and methyl mercury in precipitation in Seoul, Korea. <i>Atmospheric Pollution Research</i> , 2019, 10, 493-500.	3.8	7
104	Analysis of semi-volatile organic compounds in indoor dust and organic thin films by house type in South Korea. <i>Environmental Research</i> , 2022, 214, 113782.	7.5	7
105	DETOXIFICATION OF TRICHLOROETHYLENE (TCE) USING SOLAR LIGHT/TiO ₂ IN A UV CONCENTRATING RADIATION SYSTEM. <i>Journal of Water and Environment Technology</i> , 2003, 1, 37-42.	0.7	6
106	Optimization of naproxen and ibuprofen removal in photolysis using a Box-Behnken design: Effect of Fe(III), NO ₃ ⁻ , and humic acid. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2014, 49, 422-433.	1.7	6
107	Direct Mass Spectrometry with Online Headspace Sample Pretreatment for Continuous Water Quality Monitoring. <i>Water (Switzerland)</i> , 2020, 12, 1843.	2.7	6
108	Behavioral characteristics to airborne particles generated from commercial spray products. <i>Environment International</i> , 2020, 140, 105747.	10.0	6

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109	Greenhouse gas emissions from advanced oxidation processes in the degradation of bisphenol A: a comparative study of the H ₂ O ₂ /UV, TiO ₂ /UV, and ozonation processes. <i>Environmental Science and Pollution Research</i> , 2020, 27, 12227-12236.	5.3	6
110	Photocatalytic degradation of explosives contaminated water. <i>Water Science and Technology</i> , 2002, 46, 139-45.	2.5	6
111	Propiconazole degradation and its toxicity removal during UV/H ₂ O ₂ and UV photolysis processes. <i>Chemosphere</i> , 2022, 302, 134876.	8.2	6
112	Biological denitrification of high explosives processing wastewaters. <i>Water Science and Technology</i> , 1997, 36, 47-54.	2.5	5
113	Risk assessment before and after solar photocatalytic degradation of BTEX contaminated groundwater at a gas station site in Korea. <i>Environmental Progress</i> , 2008, 27, 447-459.	0.7	5
114	A study on the removal of toxic metal-EDTA complex using solar light/TiO ₂ system. <i>Water Science and Technology: Water Supply</i> , 2002, 2, 299-304.	2.1	5
115	Biological denitrification of high explosives processing wastewaters. <i>Water Science and Technology</i> , 1997, 36, 47.	2.5	4
116	Surface-dependent gas equilibrium of semi-volatile organic compounds on glass, wood, and polyurethane foam using SPME-GC/MS. <i>Chemosphere</i> , 2022, 291, 132869.	8.2	4
117	Degradation of parathion and the reduction of acute toxicity in TiO ₂ photocatalysis. <i>Water Science and Technology</i> , 2005, 52, 45-52.	2.5	4
118	Application of response surface method to carbamazepine removal in photo-ozonation reaction under alkaline condition. <i>Water Science and Technology</i> , 2013, 67, 74-81.	2.5	3
119	Adsorption of benzalkonium chlorides onto powdered activated carbon: mechanisms and detoxification. <i>Environmental Engineering Research</i> , 2022, 27, 210496-0.	2.5	2
120	Optimization of photolysis of diclofenac using a response surface methodology. <i>Water Science and Technology</i> , 2013, 67, 907-914.	2.5	1