Dae Sung Lee

List of Publications by Year
in descending order

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162 papers	8,590 citations	26630 56 h-index	53230 85 g-index
164 all docs	164 docs citations	164 times ranked	9118 citing authors

#	Article	IF	Citations
1	Two-Dimensional Ti₃C₂T_x MXene Nanosheets for Efficient Copper Removal from Water. ACS Sustainable Chemistry and Engineering, 2017, 5, 11481-11488.	6.7	319
2	Heterostructural TiO2/Ti3C2Tx (MXene) for photocatalytic degradation of antiepileptic drug carbamazepine. Chemical Engineering Journal, 2018, 349, 748-755.	12.7	311
3	One-step hydrothermal synthesis of porous 3D reduced graphene oxide/TiO2 aerogel for carbamazepine photodegradation in aqueous solution. Applied Catalysis B: Environmental, 2017, 203, 85-95.	20.2	236
4	Inhibitory effects of toxic compounds on nitrification process for cokes wastewater treatment. Journal of Hazardous Materials, 2008, 152, 915-921.	12.4	235
5	Biological nitrogen removal with enhanced phosphate uptake in a sequencing batch reactor using single sludge system. Water Research, 2001, 35, 3968-3976.	11.3	176
6	Mechanistic antimicrobial approach of extracellularly synthesized silver nanoparticles against gram positive and gram negative bacteria. Journal of Hazardous Materials, 2013, 260, 878-884.	12.4	169
7	Mercuric ion capturing by recoverable titanium carbide magnetic nanocomposite. Journal of Hazardous Materials, 2018, 344, 811-818.	12.4	159
8	Heavy metals removal by EDTA-functionalized chitosan graphene oxide nanocomposites. RSC Advances, 2017, 7, 9764-9771.	3.6	156
9	Hazardous phytotoxic nature of cobalt and zinc oxide nanoparticles assessed using Allium cepa. Journal of Hazardous Materials, 2011, 186, 952-955.	12.4	146
10	Ti3C2Tx MXene core-shell spheres for ultrahigh removal of mercuric ions. Chemical Engineering Journal, 2019, 368, 400-408.	12.7	146
11	Biological hydrogen production by immobilized cells of Clostridium tyrobutyricum JM1 isolated from a food waste treatment process. Bioresource Technology, 2008, 99, 6666-6672.	9.6	138
12	Optimization of key process variables for enhanced hydrogen production by Enterobacter aerogenes using statistical methods. Bioresource Technology, 2008, 99, 2061-2066.	9.6	132
13	Comprehensive study on a two-stage anaerobic digestion process for the sequential production of hydrogen and methane from cost-effective molasses. International Journal of Hydrogen Energy, 2010, 35, 6194-6202.	7.1	120
14	Characterization of the Denitrification-Associated Phosphorus Uptake Properties of â€œCandidatus Accumulibacter phosphatisâ€•Clades in Sludge Subjected to Enhanced Biological Phosphorus Removal. Applied and Environmental Microbiology, 2013, 79, 1969-1979.	3.1	119
15	Supermagnetically Tuned Halloysite Nanotubes Functionalized with Aminosilane for Covalent Laccase Immobilization. ACS Applied Materials & Interfaces, 2017, 9, 15492-15501.	8.0	119
16	Enhanced adsorption of cesium on PVA-alginate encapsulated Prussian blue-graphene oxide hydrogel beads in a fixed-bed column system. Bioresource Technology, 2016, 218, 294-300.	9.6	118
17	Hybrid neural network modeling of a full-scale industrial wastewater treatment process. Biotechnology and Bioengineering, 2002, 78, 670-682.	3.3	105
18	Process stability and microbial community structure in anaerobic hydrogen-producing microflora from food waste containing kimchi. Journal of Biotechnology, 2007, 131, 300-308.	3.8	104

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19	Conversion of orange peel waste biomass to bioelectricity using a mediator-less microbial fuel cell. Science of the Total Environment, 2016, 547, 197-205.	8.0	104
20	Biodegradation of the sulfonamide antibiotic sulfamethoxazole by sulfamethoxazole acclimatized cultures in microbial fuel cells. Science of the Total Environment, 2018, 627, 1058-1065.	8.0	103
21	Bioaugmentation of cyanide-degrading microorganisms in a full-scale cokes wastewater treatment facility. Bioresource Technology, 2008, 99, 2092-2096.	9.6	102
22	Magnetic Prussian Blue Nanocomposites for Effective Cesium Removal from Aqueous Solution. Industrial & Engineering Chemistry Research, 2016, 55, 3852-3860.	3.7	101
23	Photocatalytic degradation of methylene blue with P25/graphene/polyacrylamide hydrogels: Optimization using response surface methodology. Journal of Hazardous Materials, 2020, 400, 123314.	12.4	101
24	Unique selectivity and rapid uptake of molybdenum-disulfide-functionalized MXene nanocomposite for mercury adsorption. Environmental Research, 2020, 182, 109005.	7.5	99
25	Phytotoxicity of Carbon Nanotubes Assessed by <I>Brassica Juncea</I> and <I>Phaseolus Mungo</I>. Journal of Nanoelectronics and Optoelectronics, 2010, 5, 157-160.	0.5	97
26	Photo-Fenton reaction for the degradation of sulfamethoxazole using a multi-walled carbon nanotube-NiFe2O4 composite. Chemical Engineering Journal, 2020, 382, 123053.	12.7	96
27	Effect of HRT on the biological pre-denitrification process for the simultaneous removal of toxic pollutants from cokes wastewater. Bioresource Technology, 2008, 99, 8824-8832.	9.6	94
28	Influence of operational parameters on nitrogen removal efficiency and microbial communities in a full-scale activated sludge process. Water Research, 2011, 45, 5785-5795.	11.3	93
29	Effective phosphorus removal using chitosan/Ca-organically modified montmorillonite beads in batch and fixed-bed column studies. Journal of Hazardous Materials, 2019, 375, 9-18.	12.4	91
30	Neural network modeling for on-line estimation of nutrient dynamics in a sequentially-operated batch reactor. Journal of Biotechnology, 1999, 75, 229-239.	3.8	88
31	Mixed sulfate-reducing bacteria-enriched microbial fuel cells for the treatment of wastewater containing copper. Chemosphere, 2017, 189, 134-142.	8.2	87
32	Decolorization of cationic and anionic dye-laden wastewater by steam-activated biochar produced at an industrial-scale from spent mushroom substrate. Bioresource Technology, 2019, 277, 77-86.	9.6	86
33	Rice straw-based biochar beads for the removal of radioactive strontium from aqueous solution. Science of the Total Environment, 2018, 615, 698-707.	8.0	85
34	Reduced graphene oxideâ^'TiO2/sodium alginate 3-dimensional structure aerogel for enhanced photocatalytic degradation of ibuprofen and sulfamethoxazole. Chemosphere, 2020, 261, 127702.	8.2	85
35	Adaptive multiscale principal component analysis for on-line monitoring of a sequencing batch reactor. Journal of Biotechnology, 2005, 116, 195-210.	3.8	81
36	Monitoring of a sequencing batch reactor using adaptive multiblock principal component analysis. Biotechnology and Bioengineering, 2003, 82, 489-497.	3.3	80

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37	Effects of free cyanide on microbial communities and biological carbon and nitrogen removal performance in the industrial activated sludge process. Water Research, 2011, 45, 1267-1279.	11.3	79
38	Biological Synthesis of Gold Nanoparticles Using the Aqueous Extract of the Brown Algae Laminaria Japonica. Journal of Nanoelectronics and Optoelectronics, 2011, 6, 268-271.	0.5	75
39	Glutaraldehyde cross-linked magnetic chitosan nanocomposites: Reduction precipitation synthesis, characterization, and application for removal of hazardous textile dyes. Bioresource Technology, 2015, 193, 563-567.	9.6	74
40	Facile synthesis of pectin-stabilized magnetic graphene oxide Prussian blue nanocomposites for selective cesium removal from aqueous solution. Bioresource Technology, 2016, 216, 391-398.	9.6	73
41	Unprecedented environmental and energy impacts and challenges of COVID-19 pandemic. Environmental Research, 2021, 193, 110443.	7.5	73
42	Microbial communities in activated sludge performing enhanced biological phosphorus removal in a sequencing batch reactor. Water Research, 2003, 37, 2195-2205.	11.3	70
43	Chemically synthesized nanoflakes-like NiCo2S4 electrodes for high-performance supercapacitor application. Applied Surface Science, 2019, 466, 822-829.	6.1	70
44	Instability of biological nitrogen removal in a cokes wastewater treatment facility during summer. Journal of Hazardous Materials, 2007, 141, 27-32.	12.4	69
45	Sulfate-reducing mixed communities with the ability to generate bioelectricity and degrade textile diazo dye in microbial fuel cells. Journal of Hazardous Materials, 2018, 352, 70-79.	12.4	69
46	Chitosan-functionalized supermagnetic halloysite nanotubes for covalent laccase immobilization. Carbohydrate Polymers, 2018, 194, 208-216.	10.2	68
47	Effect of rGO loading on Fe3O4: A visible light assisted catalyst material for carbamazepine degradation. Science of the Total Environment, 2019, 667, 741-750.	8.0	68
48	Parallel hybrid modeling methods for a full-scale cokes wastewater treatment plant. Journal of Biotechnology, 2005, 115, 317-328.	3.8	67
49	Monitoring of sequencing batch reactor for nitrogen and phosphorus removal using neural networks. Biochemical Engineering Journal, 2007, 35, 365-370.	3.6	66
50	The effects of pH on carbon material and energy balances in hydrogen-producing Clostridium tyrobutyricum JM1. Bioresource Technology, 2008, 99, 8485-8491.	9.6	66
51	Nonlinear dynamic partial least squares modeling of a full-scale biological wastewater treatment plant. Process Biochemistry, 2006, 41, 2050-2057.	3.7	65
52	Magnetic Ti3C2Tx (Mxene) for diclofenac degradation via the ultraviolet/chlorine advanced oxidation process. Environmental Research, 2020, 182, 108990.	7.5	65
53	Microbial community structure in a dual chamber microbial fuel cell fed with brewery waste for azo dye degradation and electricity generation. Environmental Science and Pollution Research, 2015, 22, 13477-13485.	5.3	64
54	Application of multiway ICA for on-line process monitoring of a sequencing batch reactor. Water Research, 2004, 38, 1715-1732.	11.3	63

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55	A novel MXene-coated biocathode for enhanced microbial electrosynthesis performance. Chemical Engineering Journal, 2020, 381, 122687.	12.7	63
56	Casein hydrolytic peptides mediated green synthesis of antibacterial silver nanoparticles. Colloids and Surfaces B: Biointerfaces, 2013, 108, 147-151.	5.0	60
57	Adsorption and electrochemical regeneration of intercalated Ti3C2Tx MXene for the removal of ciprofloxacin from wastewater. Chemical Engineering Journal, 2021, 421, 127780.	12.7	59
58	Sustainable electricity generation by biodegradation of low-cost lemon peel biomass in a dual chamber microbial fuel cell. International Biodeterioration and Biodegradation, 2016, 106, 75-79.	3.9	58
59	Effect of water washing pretreatment on property and adsorption capacity of macroalgae-derived biochar. Journal of Environmental Management, 2019, 233, 165-174.	7.8	58
60	Modeling and Optimization of Photosynthetic Hydrogen Gas Production by Green Alga Chlamydomonas reinhardtii in Sulfur-Deprived Circumstance. Biotechnology Progress, 2006, 22, 431-437.	2.6	56
61	Chlorinated phenol treatment and in situ hydrogen peroxide production in a sulfate-reducing bacteria enriched bioelectrochemical system. Water Research, 2017, 117, 198-206.	11.3	56
62	Photodegradation of microcystin-LR using graphene-TiO2/sodium alginate aerogels. Carbohydrate Polymers, 2018, 199, 109-118.	10.2	56
63	Real-time remote monitoring of small-scaled biological wastewater treatment plants by a multivariate statistical process control and neural network-based software sensors. Process Biochemistry, 2008, 43, 1107-1113.	3.7	53
64	Sudden failure of biological nitrogen and carbon removal in the full-scale pre-denitrification process treating cokes wastewater. Bioresource Technology, 2009, 100, 4340-4347.	9.6	53
65	Exfoliation of Titanium Aluminum Carbide (211 MAX Phase) to Form Nanofibers and Two-Dimensional Nanosheets and Their Application in Aqueous-Phase Cadmium Sequestration. ACS Applied Materials & Interfaces, 2019, 11, 19156-19166.	8.0	53
66	Flower-like NiCo2O4/NiCo2S4 electrodes on Ni mesh for higher supercapacitor applications. Ceramics International, 2019, 45, 17192-17203.	4.8	52
67	Chemical synthesis of hierarchical NiCo2S4 nanosheets like nanostructure on flexible foil for a high performance supercapacitor. Scientific Reports, 2017, 7, 9764.	3.3	51
68	Morphological enhancement to CuO nanostructures by electron beam irradiation for biocompatibility and electrochemical performance. Ultrasonics Sonochemistry, 2018, 40, 314-322.	8.2	51
69	Magnetite nanoparticles supported on organically modified montmorillonite for adsorptive removal of iodide from aqueous solution: Optimization using response surface methodology. Science of the Total Environment, 2018, 615, 549-557.	8.0	50
70	Enhanced Biological Phosphorus Removal in an Anaerobic-Aerobic Sequencing Batch Reactor: Effect of pH. Water Environment Research, 2001, 73, 301-306.	2.7	49
71	Nickel ferrite/MXene-coated carbon felt anodes for enhanced microbial fuel cell performance. Chemosphere, 2021, 268, 128784.	8.2	49
72	MnCo2O4 coated carbon felt anode for enhanced microbial fuel cell performance. Chemosphere, 2021, 265, 129098.	8.2	47

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73	A calibration methodology and model-based systems analysis for SBRs removing nutrients under limited aeration conditions. Journal of Chemical Technology and Biotechnology, 2006, 81, 679-687.	3.2	45
74	Statistical optimization of key process variables for enhanced hydrogen production by newly isolated Clostridium tyrobutyricum JM1. International Journal of Hydrogen Energy, 2008, 33, 5176-5183.	7.1	44
75	Reduced graphene oxide-loaded-magnetite: A Fenton-like heterogeneous catalyst for photocatalytic degradation of 2-methylisoborneol. Chemical Engineering Journal, 2019, 370, 855-865.	12.7	44
76	Pseudoxanthomonas sacheonensis sp. nov., isolated from BTEX-contaminated soil in Korea, transfer of Stenotrophomonas dokdonensis Yoon et al. 2006 to the genus Pseudoxanthomonas as Pseudoxanthomonas dokdonensis comb. nov. and emended description of the genus Pseudoxanthomonas. International Journal of Systematic and Evolutionary Microbiology, 2008, 58, 2235-2240.	1.7	43
77	Molecular characterization and homologous overexpression of [FeFe]-hydrogenase in Clostridium tyrobutyricum JM1. International Journal of Hydrogen Energy, 2010, 35, 1065-1073.	7.1	43
78	Analysis of microbial communities using culture-dependent and culture-independent approaches in an anaerobic/aerobic SBR reactor. Journal of Microbiology, 2006, 44, 155-61.	2.8	43
79	Highly effective prussian blue-coated MXene aerogel spheres for selective removal of cesium ions. Journal of Nuclear Materials, 2020, 539, 152277.	2.7	40
80	Adaptive Consensus Principal Component Analysis for On-Line Batch Process Monitoring. Environmental Monitoring and Assessment, 2004, 92, 119-135.	2.7	38
81	Simultaneous removal of COD and Direct Red 80 in a mixed anaerobic sulfate-reducing bacteria culture. Chemical Engineering Journal, 2013, 223, 611-616.	12.7	38
82	Graphene to Advanced MoS2: A Review of Structure, Synthesis, and Optoelectronic Device Application. Crystals, 2020, 10, 902.	2.2	38
83	On-line estimation of key process variables based on kernel partial least squares in an industrial cokes wastewater treatment plant. Journal of Hazardous Materials, 2009, 161, 538-544.	12.4	37
84	Response of nitrifying bacterial communities to the increased thiocyanate concentration in pre-denitrification process. Bioresource Technology, 2011, 102, 913-922.	9.6	36
85	Designed synthesis of sulfide-rich bimetallic-assembled graphene oxide sheets as flexible materials and self-tuning adsorption cum oxidation mechanisms of arsenic from water. Journal of Materials Chemistry A, 2019, 7, 12253-12265.	10.3	36
86	Effect of bentonite-mineral co-pyrolysis with macroalgae on physicochemical property and dye uptake capacity of bentonite/biochar composite. Journal of the Taiwan Institute of Chemical Engineers, 2019, 104, 106-113.	5.3	34
87	Exploring the potential of anaerobic sulfate reduction process in treating sulfonated diazo dye: Microbial community analysis using bar-coded pyrosequencing. Journal of Hazardous Materials, 2016, 318, 641-649.	12.4	31
88	Effect of ZnO nanoparticles on biodegradation and biotransformation of co-substrate and sulphonated azo dye in anaerobic biological sulfate reduction processes. International Biodeterioration and Biodegradation, 2016, 109, 150-156.	3.9	31
89	Caenimonas koreensis gen. nov., sp. nov., isolated from activated sludge. International Journal of Systematic and Evolutionary Microbiology, 2008, 58, 1064-1068.	1.7	30
90	Nanorods to hexagonal nanosheets of CuO-doped manganese oxide nanostructures for higher electrochemical supercapacitor performance. Colloids and Surfaces B: Biointerfaces, 2019, 184, 110500.	5.0	30

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91	Multivariate Online Monitoring of a Full-Scale Biological Anaerobic Filter Process Using Kernel-Based Algorithms. Industrial & Engineering Chemistry Research, 2006, 45, 4335-4344.	3.7	29
92	Column study on Cr(VI)-reduction using the brown seaweed Ecklonia biomass. Journal of Hazardous Materials, 2006, 137, 1377-1384.	12.4	28
93	List-Based Threshold-Accepting Algorithm for Zero-Wait Scheduling of Multiproduct Batch Plants. Industrial & Engineering Chemistry Research, 2002, 41, 6579-6588.	3.7	25
94	A novel threshold accepting meta-heuristic for the job-shop scheduling problem. Computers and Operations Research, 2004, 31, 2199-2213.	4.0	25
95	Influence of co-substrate on textile wastewater treatment and microbial community changes in the anaerobic biological sulfate reduction process. Journal of Hazardous Materials, 2015, 299, 453-461.	12.4	25
96	Stabilization of Pickering emulsion with surface-modified titanium dioxide for enhanced photocatalytic degradation of Direct Red 80. Catalysis Today, 2017, 282, 38-47.	4.4	25
97	Structural and morphological changes in binder-free MnCo2O4 electrodes for supercapacitor applications: effect of deposition parameters. Journal of Materials Science: Materials in Electronics, 2019, 30, 3729-3743.	2.2	25
98	One-step green synthesis of gold nanoparticles using casein hydrolytic peptides and their anti-cancer assessment using the DU145 cell line. Journal of Industrial and Engineering Chemistry, 2016, 33, 185-189.	5.8	23
99	Three-dimensional barium-sulfate-impregnated reduced graphene oxide aerogel for removal of strontium from aqueous solutions. Journal of Nuclear Materials, 2018, 504, 206-214.	2.7	23
100	Comparative assessment of solar photovoltaic panels based on metal-derived hazardous waste, resource depletion, and toxicity potentials. International Journal of Green Energy, 2018, 15, 550-557.	3.8	23
101	Characterization and adsorption performance evaluation of waste char by-product from industrial gasification of solid refuse fuel from municipal solid waste. Waste Management, 2019, 91, 33-41.	7.4	23
102	Enhanced product selectivity in the microbial electrosynthesis of butyrate using a nickel ferrite-coated biocathode. Environmental Research, 2021, 196, 110907.	7.5	23
103	Comparative study of free cyanide inhibition on nitrification and denitrification in batch and continuous flow systems. Desalination, 2011, 279, 439-444.	8.2	22
104	Simultaneous organic carbon and nitrogen removal in an anoxicâ€“oxic activated sludge system under various operating conditions. Bioresource Technology, 2014, 162, 373-378.	9.6	21
105	Characteristics, kinetics and thermodynamics of Congo Red biosorption by activated sulfidogenic sludge from an aqueous solution. International Journal of Environmental Science and Technology, 2015, 12, 571-580.	3.5	21
106	Potential resource and toxicity impacts from metals in waste electronic devices. Integrated Environmental Assessment and Management, 2016, 12, 364-370.	2.9	21
107	MXene-coated biochar as potential biocathode for improved microbial electrosynthesis system. Science of the Total Environment, 2021, 773, 145677.	8.0	21
108	Zinc chloride as a coagulant for textile dyes and treatment of generated dye sludge under the solid state fermentation: Hybrid treatment strategy. Bioresource Technology, 2015, 176, 38-46.	9.6	20

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109	Investigating the role of anodic potential in the biodegradation of carbamazepine in bioelectrochemical systems. Science of the Total Environment, 2019, 688, 56-64.	8.0	20
110	Complete genome sequence of Rufibacter sp. DG31D, a bacterium resistant to gamma and UV radiation toxicity. Molecular and Cellular Toxicology, 2015, 11, 415-421.	1.7	19
111	Simultaneous electricity production and Direct Red 80 degradation using a dual chamber microbial fuel cell. Desalination and Water Treatment, 2016, 57, 9051-9059.	1.0	19
112	Synthesis of 3D nanoflower-like mesoporous NiCo2O4 N-doped CNTs nanocomposite for solid-state hybrid supercapacitor; efficient material for the positive electrode. Ceramics International, 2021, 47, 31650-31665.	4.8	19
113	Biochar from the co-pyrolysis of Saccharina japonica and goethite as an adsorbent for basic blue 41 removal from aqueous solution. Science of the Total Environment, 2021, 797, 149160.	8.0	19
114	Flexible thiourea-based covalent organic frameworks for ultrahigh mercury removal from aqueous solutions. Chemical Engineering Journal, 2022, 446, 137410.	12.7	18
115	Effect of technology development on potential environmental impacts from heavy metals in waste smartphones. Journal of Material Cycles and Waste Management, 2018, 20, 100-109.	3.0	17
116	In-situ Pt nanoparticles decorated BiOBr heterostructure for enhanced visible light-based photocatalytic activity: Synergistic effect. Chemosphere, 2022, 298, 134125.	8.2	17
117	Spirosoma terrae sp. nov., Isolated from Soil from Jeju Island, Korea. Current Microbiology, 2018, 75, 492-498.	2.2	16
118	Environmental Effects of the Technology Transition from Liquidâ€“Crystal Display (LCD) to Organic Light-Emitting Diode (OLED) Display from an E-Waste Management Perspective. International Journal of Environmental Research, 2018, 12, 479-488.	2.3	16
119	Green synthesis of gold nanostructures using pear extract as effective reducing and coordinating agent. Korean Journal of Chemical Engineering, 2011, 28, 2329-2335.	2.7	15
120	Hymenobacter daeguensis sp. nov. isolated from river water. Journal of Microbiology, 2017, 55, 253-259.	2.8	15
121	Decolorization of triarylmethane dyes, malachite green, and crystal violet, by sewage sludge biochar: Isotherm, kinetics, and adsorption mechanism comparison. Korean Journal of Chemical Engineering, 2021, 38, 531-539.	2.7	15
122	Synthesis and Î±-Glucosidase Inhibition Activity of 2-[3-(Benzoyl/4-bromobenzoyl)-4-hydroxy-1,1-dioxido-2H-benzo[e][1,2]thiazin-2-yl]-N-arylacetamides: An In Silico and Biochemical Approach. Molecules, 2021, 26, 3043.	3.8	15
123	MXsorption of mercury: Exceptional reductive behavior of titanium carbide/carbonitride MXenes. Environmental Research, 2022, 205, 112532.	7.5	15
124	Buckwheat hull-derived biochar immobilized in alginate beads for the adsorptive removal of cobalt from aqueous solutions. Journal of Hazardous Materials, 2022, 436, 129245.	12.4	15
125	Identification of a novel subgroup of uncultured gammaproteobacterial glycogen-accumulating organisms in enhanced biological phosphorus removal sludge. Microbiology (United Kingdom), 2011, 157, 2287-2296.	1.8	14
126	Effect of toluene, an immiscible pollutant, on the photocatalytic degradation of azo dye. Journal of Industrial and Engineering Chemistry, 2015, 30, 10-13.	5.8	14

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127	Effect of technology convergence for tablet PC on potential environmental impacts from heavy metals. International Journal of Sustainable Development and World Ecology, 2016, 23, 154-162.	5.9	14
128	Capacitive property studies of inexpensive SILAR synthesized polyaniline thin films for supercapacitor application. SN Applied Sciences, 2019, 1, 1.	2.9	14
129	Facial growth of Co(OH)2 nanoflakes on stainless steel for supercapacitors: effect of deposition potential. Journal of Materials Science: Materials in Electronics, 2019, 30, 5555-5566.	2.2	14
130	Deep eutectic solvent mediated nanostructured copper oxide as a positive electrode material for hybrid supercapacitor device. Journal of Molecular Liquids, 2021, 341, 117319.	4.9	14
131	Development of a three-dimensional macroporous sponge biocathode coated with carbon nanotubeâ€“MXene composite for high-performance microbial electrosynthesis systems. Bioelectrochemistry, 2022, 146, 108140.	4.6	14
132	Strontium ions capturing in aqueous media using exfoliated titanium aluminum carbide (Ti2AlC MAX) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.7	13
133	Hymenobacter knuensis sp. nov., IsolatedÂFrom River Water. Current Microbiology, 2017, 74, 515-521.	2.2	12
134	Enhanced photocatalytic degradation of bisphenol A by magnetically separable bismuth oxyiodide magnetite nanocomposites under solar light irradiation. Chemosphere, 2022, 289, 133040.	8.2	12
135	Amino-functionalized multi-walled carbon nanotubes for removal of cesium from aqueous solution. Journal of Radioanalytical and Nuclear Chemistry, 2018, 316, 691-701.	1.5	11
136	Spirosoma harenae sp. nov., a Bacterium Isolated from a Sandy Beach. Current Microbiology, 2018, 75, 179-185.	2.2	11
137	Larkinella harenae sp. nov., Isolated from Korean Beach Soil. Current Microbiology, 2017, 74, 798-802.	2.2	10
138	Spirosoma migulaei sp. nov., isolated from soil. Journal of Microbiology, 2017, 55, 927-932.	2.8	10
139	Selective strontium adsorption using synthesized sodium titanate in aqueous solution. RSC Advances, 2022, 12, 18936-18944.	3.6	10
140	Mathematical evaluation of intermediates accumulation during microbial phenanthrene degradation. Korean Journal of Chemical Engineering, 2006, 23, 415-418.	2.7	9
141	Spirosoma gilvum sp. nov., Isolated from Beach Soil. Current Microbiology, 2017, 74, 1425-1431.	2.2	9
142	Eco-Design of a Wastewater Treatment System Based on Process Integration. Industrial & Engineering Chemistry Research, 2013, 52, 2379-2388.	3.7	8
143	Low-Cost Magnetic Fe3O4/Chitosan Nanocomposites for Adsorptive Removal of Carcinogenic Diazo Dye. Theoretical Foundations of Chemical Engineering, 2020, 54, 655-663.	0.7	8
144	Larkinella ripae sp. nov., isolated from seashore soil. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 3759-3764.	1.7	8

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145	Spirosoma koreense sp. nov., a species of the family Cytophagaceae isolated from beach soil. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 5198-5204.	1.7	8
146	Consideration of the methods for evaluating the Cr(VI)-removing capacity of biomaterial. Korean Journal of Chemical Engineering, 2011, 28, 831-836.	2.7	7
147	Effect of wastewater containing multi-walled carbon nanotubes on dual-chamber microbial fuel cell performance. RSC Advances, 2016, 6, 91314-91319.	3.6	7
148	Complete genome sequence of Hymenobacter sp. DG25B, a novel bacterium with gamma-radiation resistance isolated from soil in South Korea. Journal of Biotechnology, 2016, 217, 98-99.	3.8	7
149	Deinococcus knuensis sp. nov., a bacterium isolated from river water. Antonie Van Leeuwenhoek, 2017, 110, 407-414.	1.7	7
150	Carbamazepine biodegradation and volatile fatty acids production by selectively enriched sulfateâ€reducing bacteria and fermentative acidogenic bacteria. Journal of Chemical Technology and Biotechnology, 2021, 96, 592-602.	3.2	7
151	Facile preparation of highly monodisperse poly(NIPAAm)â€“AuNP composite hollow microcapsules by simple tubular microfluidics. New Journal of Chemistry, 2013, 37, 877.	2.8	6
152	Effects of Sulfidation on ZnO Nanoparticle Dissolution and Aggregation in Sulfate-Containing Suspensions. Journal of Nanoscience and Nanotechnology, 2015, 15, 7334-7340.	0.9	6
153	Environmental effects of the technology transformation from hardâ€disk to solidâ€state drives from resource depletion and toxicity management perspectives. Integrated Environmental Assessment and Management, 2019, 15, 292-298.	2.9	6
154	Spirosoma flavus sp. nov., a novel bacterium from soil of Jeju Island. Journal of Microbiology, 2017, 55, 850-855.	2.8	5
155	Galvanostatic synthesis of MnCo2O4 nanoflakes like thin films: effect of deposition parameter on supercapacitive performance. Ionics, 2021, 27, 1677-1688.	2.4	5
156	Microbially catalyzed enhanced bioelectrochemical performance using covalent organic frameworkâ€modified anode in a microbial fuel cell. International Journal of Energy Research, 2022, 46, 17003-17014.	4.5	5
157	5â€Bromoâ€2,9â€bis(5,6â€diphenylâ€1,2,4â€triazinâ€3â€yl)â€1,10â€phenanthrolin as an Efficient Ligand for Selective Removal of Strontium and Cobalt from Aqueous Solution. Bulletin of the Korean Chemical Society, 2019, 40, 424-428.	1.9	3
158	Synthesis of enhanced corrosion resistant Feâ€“Bâ€“Câ€“Ti amorphous ribbons and evaluation of their photodegradation efficiency under light irradiation. Chemosphere, 2022, 287, 132175.	8.2	3
159	A Practical Methodology for Waste-to-Energy Facilities to Screen Toxic Combustible Wastes and Priority Metals. Waste and Biomass Valorization, 2021, 12, 3431-3442.	3.4	2
160	Adsorptive Removal of Cesium Ions Using Prussian Blue Immobilized Coffee Ground Biochar. Daehan Hwan gyeong Gonghag Hoeji, 2021, 43, 336-346.	1.1	2
161	Selectively enriched mixed sulfate-reducing bacteria for acrylamide biodegradation. International Journal of Environmental Science and Technology, 2020, 17, 4693-4702.	3.5	1
162	Molecular isolation of [FeFe]-hydrogenase from Clostridium tyrobutyricum JM1 and construction of recombinant plasmid. Journal of Biotechnology, 2008, 136, S622.	3.8	0