

Ahn Youngho

List of Publications by Year in descending order

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60
papers

3,726
citations

218381

26
h-index

128067

60
g-index

64
all docs

64
docs citations

64
times ranked

4876
citing authors

#	ARTICLE	IF	CITATIONS
1	Current State of Knowledge in Microbial Degradation of Polycyclic Aromatic Hydrocarbons (PAHs): A Review. <i>Frontiers in Microbiology</i> , 2016, 7, 1369.	1.5	595
2	Sustainable nitrogen elimination biotechnologies: A review. <i>Process Biochemistry</i> , 2006, 41, 1709-1721.	1.8	485
3	Comparative process stability and efficiency of anaerobic digestion; mesophilic vs. thermophilic. <i>Water Research</i> , 2002, 36, 4369-4385.	5.3	397
4	Effectiveness of domestic wastewater treatment using microbial fuel cells at ambient and mesophilic temperatures. <i>Bioresource Technology</i> , 2010, 101, 469-475.	4.8	363
5	Application of sulfonic acid group functionalized graphene oxide to improve hydrophilicity, permeability, and antifouling of PVDF nanocomposite ultrafiltration membranes. <i>Journal of Membrane Science</i> , 2017, 525, 210-219.	4.1	349
6	Constructed wetlands as sustainable ecotechnologies in decentralization practices: a review. <i>Environmental Science and Pollution Research</i> , 2016, 23, 180-197.	2.7	95
7	Continuous electricity generation in stacked air cathode microbial fuel cell treating domestic wastewater. <i>Journal of Environmental Management</i> , 2013, 130, 146-152.	3.8	82
8	Nanocomposite membranes based on sulfonated polystyrene ethylene butylene polystyrene (SSEBS) and sulfonated SiO ₂ for microbial fuel cell application. <i>Chemical Engineering Journal</i> , 2016, 289, 442-451.	6.6	77
9	Enhanced antifouling performance of PVDF ultrafiltration membrane by blending zinc oxide with support of graphene oxide nanoparticle. <i>Chemosphere</i> , 2020, 241, 125068.	4.2	77
10	Effectiveness of Domestic Wastewater Treatment Using a Bio-Hedge Water Hyacinth Wetland System. <i>Water (Switzerland)</i> , 2015, 7, 329-347.	1.2	69
11	Microbial community analysis of bulk sludge/cake layers and biofouling-causing microbial consortia in a full-scale aerobic membrane bioreactor. <i>Bioresource Technology</i> , 2017, 227, 133-141.	4.8	65
12	Application of graphene-based nanomaterials as novel cathode catalysts for improving power generation in single chamber microbial fuel cells. <i>Journal of Power Sources</i> , 2016, 327, 548-556.	4.0	58
13	Autotrophic nitrogen removal from sludge digester liquids in upflow sludge bed reactor with external aeration. <i>Process Biochemistry</i> , 2006, 41, 1945-1950.	1.8	52
14	Improved visible light photocatalytic activity of rGO@Fe ₃ O ₄ @NiO hybrid nanocomposites synthesized by <i>in situ</i> facile method for industrial wastewater treatment applications. <i>New Journal of Chemistry</i> , 2018, 42, 4372-4383.	1.4	49
15	Fabrication and separation performance of polyethersulfone/sulfonated TiO ₂ (PES@STiO ₂) ultrafiltration membranes for fouling mitigation. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 67, 199-209.	2.9	49
16	Impedance and Thermodynamic Analysis of Bioanode, Abiotic Anode, and Riboflavin-Amended Anode in Microbial Fuel Cells. <i>Bulletin of the Korean Chemical Society</i> , 2012, 33, 3349-3354.	1.0	47
17	Antibacterial and photocatalytic activity of hydrothermally synthesized SnO ₂ doped GO and CNT under visible light irradiation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019, 191, 18-25.	1.7	45
18	A non-noble V ₂ O ₅ nanorods as an alternative cathode catalyst for microbial fuel cell applications. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 4974-4984.	3.8	42

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19	Fabrication and characterization of anti-fouling and non-toxic polyvinylidene fluoride -Sulphonated carbon nanotube ultrafiltration membranes for membrane bioreactors applications. <i>Chemical Engineering Research and Design</i> , 2019, 142, 176-188.	2.7	42
20	Characterization of <i>Trichoderma asperellum</i> RM-28 for its sodic/saline-alkali tolerance and plant growth promoting activities to alleviate toxicity of red mud. <i>Science of the Total Environment</i> , 2019, 662, 462-469.	3.9	41
21	Effectiveness of piggery waste treatment using microbial fuel cells coupled with elutriated-phased acid fermentation. <i>Bioresource Technology</i> , 2017, 244, 650-657.	4.8	40
22	Enhanced bioelectricity harvesting in microbial fuel cells treating food waste leachate produced from biohydrogen fermentation. <i>Bioresource Technology</i> , 2015, 183, 53-60.	4.8	39
23	Effectiveness of phase- and morphology-controlled MnO ₂ nanomaterials derived from flower-like γ-MnO ₂ as alternative cathode catalyst in microbial fuel cells. <i>Dalton Transactions</i> , 2019, 48, 5429-5443.	1.6	39
24	Pre-acidification in an anaerobic sludge bed process treating brewery wastewater. <i>Water Research</i> , 2001, 35, 4267-4276.	5.3	32
25	Performance of high-rate constructed phytoremediation process with attached growth for domestic wastewater treatment: Effect of high TDS and Cu. <i>Journal of Environmental Management</i> , 2014, 145, 1-8.	3.8	31
26	Biofouling reduction in a MBR by the application of a lytic phage on a modified nanocomposite membrane. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 1624-1638.	1.2	28
27	Performance evaluation of highly conductive graphene (rGO/HI ⁺ AcOH ⁻) and graphene/metal nanoparticle composites (rGO/Ni) coated on carbon cloth for supercapacitor applications. <i>RSC Advances</i> , 2015, 5, 92970-92979.	1.7	27
28	Antibacterial and photocatalytic activities of 5-nitroindole capped bimetal nanoparticles against multidrug resistant bacteria. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 188, 110825.	2.5	25
29	Bacterial Communities and Antibiotic Resistance Communities in a Full-Scale Hospital Wastewater Treatment Plant by High-Throughput Pyrosequencing. <i>Water (Switzerland)</i> , 2016, 8, 580.	1.2	24
30	Facile one-pot microwave assisted synthesis of rGO-CuS-ZnS hybrid nanocomposite cathode catalysts for microbial fuel cell application. <i>Chemosphere</i> , 2021, 278, 130426.	4.2	23
31	Characteristics of biohydrogen fermentation from various substrates. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 3152-3159.	3.8	21
32	Biohydrogen Fermentation from Sucrose and Piggery Waste with High Levels of Bicarbonate Alkalinity. <i>Energies</i> , 2015, 8, 1716-1729.	1.6	21
33	Enhanced cathode performance of a rGO ⁺ V ₂ O ₅ nanocomposite catalyst for microbial fuel cell applications. <i>Dalton Transactions</i> , 2018, 47, 16777-16788.	1.6	19
34	Increased power generation from primary sludge in microbial fuel cells coupled with prefermentation. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 2549-2557.	1.7	18
35	Non-toxic properties of TiO ₂ and STiO ₂ nanocomposite PES ultrafiltration membranes for application in membrane-based environmental biotechnology. <i>Ecotoxicology and Environmental Safety</i> , 2018, 158, 248-255.	2.9	18
36	Enhanced Photocatalytic Degradation of Synthetic Dyes and Industrial Dye Wastewater by Hydrothermally Synthesized Ga ⁺ CuO ⁺ Co ₃ O ₄ Hybrid Nanocomposites Under Visible Light Irradiation. <i>Journal of Cluster Science</i> , 2018, 29, 235-250.	1.7	17

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37	Enhanced cathode performance of Fe ₂ O ₃ , boron nitride-doped rGO nanosheets for microbial fuel cell applications. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1454-1468.	2.5	16
38	Hormones induce the metabolic growth and cytotoxin production of <i>Microcystis aeruginosa</i> under terpinolene stress. <i>Science of the Total Environment</i> , 2021, 769, 145083.	3.9	14
39	Layered KTO/BiOCl nanostructures for the efficient visible light photocatalytic degradation of harmful dyes. <i>Chemosphere</i> , 2022, 306, 135659.	4.2	14
40	Synthesis and application of graphene-MoO ₃ nanocomposite for improving visible light irradiated photocatalytic decolorization of methylene blue dye. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 80, 276-285.	2.7	13
41	Reductive dechlorination of perchloroethene (PCE) and bacterial community changes in a continuous-flow, two-stage anaerobic column. <i>International Biodeterioration and Biodegradation</i> , 2019, 138, 41-49.	1.9	12
42	Self-healing functionalization of sulfonated hafnium oxide and copper oxide nanocomposite for effective biocidal control of multidrug-resistant bacteria. <i>New Journal of Chemistry</i> , 2021, 45, 9506-9517.	1.4	12
43	Enhanced Performance of Sulfonated GO in SPEEK Proton-Exchange Membrane for Microbial Fuel-Cell Application. <i>Journal of Environmental Engineering, ASCE</i> , 2021, 147, .	0.7	12
44	Auto-cleaning functionalization of the polyvinylidene fluoride membrane by the biocidal oxine/TiO ₂ nanocomposite for anti-biofouling properties. <i>New Journal of Chemistry</i> , 2020, 44, 807-816.	1.4	11
45	Effect of hydrogen producing mixed culture on performance of microbial fuel cells. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 9482-9489.	3.8	10
46	Green phytoextracts as natural photosensitizers in LED-based photodynamic disinfection of multidrug-resistant bacteria in wastewater effluent. <i>Chemosphere</i> , 2022, 297, 134157.	4.2	10
47	Fabrication of a Novel Nanocomposite Ultrafiltration Membrane with Improved Antifouling Properties Using Functionalized HfO ₂ and Polyvinylidene Fluoride for Organic Foulant Mitigation. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 19272-19284.	1.8	9
48	Growth characteristics of lytic cyanophages newly isolated from the Nakdong River, Korea. <i>Virus Research</i> , 2021, 306, 198600.	1.1	7
49	Terpinolene as an enhancer for ultrasonic disinfection of multi-drug-resistant bacteria in hospital wastewater. <i>Environmental Science and Pollution Research</i> , 2022, 29, 34500-34514.	2.7	7
50	Fabrication and application of novel high strength sulfonated PVDF ultrafiltration membrane for production of reclamation water. <i>Chemosphere</i> , 2022, 305, 135416.	4.2	7
51	Comparative performance of air-lift partial nitrification processes with attached growth and suspended growth without biomass retention. <i>Environmental Technology (United Kingdom)</i> , 2014, 35, 1328-1337.	1.2	6
52	Influence of Abiotic Factors on the Growth of Cyanobacteria Isolated from Nakdong River, South Korea 1. <i>Journal of Phycology</i> , 2021, 57, 874-885.	1.0	6
53	Synthesis and characterization of sulfonated hafnium oxide nanoparticles for energy storage devices. <i>Inorganic Chemistry Communication</i> , 2022, 141, 109615.	1.8	6
54	Increased hydrazine during partial nitrification process in upflow air-lift reactor fed with supernatant of anaerobic digester effluent. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 1235-1240.	1.2	5

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55	Antibacterial and Adsorption Properties of Sulfonated GO-PVDF Nanocomposite Ultrafiltration Membranes for Environmental Applications. <i>Journal of Environmental Engineering, ASCE</i> , 2021, 147, .	0.7	5
56	A Review and Perspective of Constructed Wetlands as a Green Technology in Decentralization Practices. , 2017, , 1-43.		4
57	Nanocomposite membrane integrated phage enrichment process for the enhancement of high rate phage infection and productivity. <i>Biochemical Engineering Journal</i> , 2020, 163, 107740.	1.8	4
58	Comment on "Sustainable Power Generation in Microbial Fuel Cells Using Bicarbonate Buffer and Proton Transfer Mechanisms". <i>Environmental Science & Technology</i> , 2008, 42, 6303-6305.	4.6	3
59	Comparative growth characteristics and interspecific competitive interaction of two cyanobacteria, <i>Phormidium autumnale</i> and <i>Nostoc</i> sp.. <i>Journal of Environmental Quality</i> , 2022, 51, 78-89.	1.0	2
60	Desalination of Basal Water by Mesoporous Carbons Nanocomposite Membrane. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 2084-2087.	0.9	1