Hee-Deung Park

List of Publications by Year in descending order

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HEE-DELINC PARK

#	Article	IF	CITATIONS
1	Current understanding and perspectives in anaerobic digestion based on genome-resolved metagenomic approaches. Bioresource Technology, 2022, 344, 126350.	9.6	23
2	Recent Advance in Small Molecules Targeting RhlR of PseudomonasÂaeruginosa. Antibiotics, 2022, 11, 274.	3.7	7
3	Deciphering the Role of Amine Concentration on Polyamide Formation toward Enhanced RO Performance. ACS ES&T Engineering, 2022, 2, 903-912.	7.6	23
4	Enrichment of Ca. Jettenia in sequencing batch reactors operated with low nitrogen loading rate and high influent nitrogen concentration. Bioresource Technology, 2022, 352, 127079.	9.6	5
5	Electrically conductive carbon nanotube/graphene composite membrane for self-cleaning of biofouling via bubble generation. Desalination, 2022, 535, 115841.	8.2	13
6	Raffinose Inhibits Streptococcus mutans Biofilm Formation by Targeting Glucosyltransferase. Microbiology Spectrum, 2022, 10, e0207621.	3.0	10
7	Enhancing biogas and electricity recovery using an iron-manganese oxide catalyzed bioanode in an integrated submersible microbial fuel cell-anaerobic digester. Sustainable Energy Technologies and Assessments, 2022, 52, 102276.	2.7	3
8	Effect of broad-spectrum biofilm inhibitor raffinose, a plant galactoside, on the inhibition of co-culture biofilm on the microfiltration membrane. Journal of Hazardous Materials, 2021, 402, 123501.	12.4	10
9	Synergistic control of membrane biofouling using linoleic acid and sodium hypochlorite. Chemosphere, 2021, 268, 128802.	8.2	8
10	Linoleic acid inhibits <i>Pseudomonas aeruginosa</i> biofilm formation by activating diffusible signal factorâ€mediated quorum sensing. Biotechnology and Bioengineering, 2021, 118, 82-93.	3.3	18
11	Transient-rare Bacterial Taxa Are Assembled Neutrally across Temporal Scales. Microbes and Environments, 2021, 36, n/a.	1.6	5
12	Recent advances in methanogenesis through direct interspecies electron transfer via conductive materials: A molecular microbiological perspective. Bioresource Technology, 2021, 322, 124587.	9.6	52
13	Novel Positively Charged Metal-Coordinated Nanofiltration Membrane for Lithium Recovery. ACS Applied Materials & Interfaces, 2021, 13, 16906-16915.	8.0	70
14	Investigation of critical sludge characteristics for membrane fouling in a submerged membrane bioreactor: Role of soluble microbial products and extracted extracellular polymeric substances. Chemosphere, 2021, 271, 129879.	8.2	24
15	Unique Approach of a Telemedicine System for CBD-Infused Foods. Processes, 2021, 9, 936.	2.8	4
16	Effect of microbial community structure in inoculum on the stimulation of direct interspecies electron transfer for methanogenesis. Bioresource Technology, 2021, 332, 125100.	9.6	21
17	Interlayered Forward Osmosis Membranes with Ti ₃ C ₂ T _{<i>x</i>} MXene and Carbon Nanotubes for Enhanced Municipal Wastewater Concentration. Environmental Science & Technology, 2021, 55, 13219-13230.	10.0	16
18	Recent developments of the mainstream anammox processes: Challenges and opportunities. Journal of Environmental Chemical Engineering, 2021, 9, 105583.	6.7	64

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19	Microbiome degrading linear alkylbenzene sulfonate in activated sludge. Journal of Hazardous Materials, 2021, 418, 126365.	12.4	9
20	Development of a new method to evaluate critical flux and system reliability based on particle properties in a membrane bioreactor. Chemosphere, 2021, 280, 130763.	8.2	3
21	Combined Treatment of 6-Gingerol Analog and Tobramycin for Inhibiting Pseudomonas aeruginosa Infections. Microbiology Spectrum, 2021, 9, e0019221.	3.0	9
22	2-Methylisoborneol (2-MIB) Excretion by PseudanabaenaÂyagii under Low Temperature. Microorganisms, 2021, 9, 2486.	3.6	6
23	Specific enrichment of different Geobacter sp. in anode biofilm by varying interspatial distance of electrodes in air-cathode microbial fuel cell (MFC). Electrochimica Acta, 2020, 331, 135388.	5.2	45
24	Vertically Aligned Carbon Nanotube Membranes: Water Purification and Beyond. Membranes, 2020, 10, 273.	3.0	14
25	Draft Genome Sequence of Putative 2-Methylisoborneol-Producing Pseudanabaena yagii Strain GIHE-NHR1, Isolated from the North Han River in South Korea. Microbiology Resource Announcements, 2020, 9, .	0.6	3
26	A Critical Review on Thin-Film Nanocomposite Membranes with Interlayered Structure: Mechanisms, Recent Developments, and Environmental Applications. Environmental Science & Technology, 2020, 54, 15563-15583.	10.0	308
27	Magnetite and granular activated carbon improve methanogenesis via different metabolic routes. Fuel, 2020, 281, 118768.	6.4	32
28	Discovery and Characterization of Pure RhlR Antagonists against <i>Pseudomonas aeruginosa</i> Infections. Journal of Medicinal Chemistry, 2020, 63, 8388-8407.	6.4	12
29	Photosensitized Production of Singlet Oxygen via C60 Fullerene Covalently Attached to Functionalized Silica-coated Stainless-Steel Mesh: Remote Bacterial and Viral Inactivation. Applied Catalysis B: Environmental, 2020, 270, 118862.	20.2	41
30	Metabolic flux and functional potential of microbial community in an acidogenic dynamic membrane bioreactor. Bioresource Technology, 2020, 305, 123060.	9.6	28
31	Improved anti-biofouling performance of pressure retarded osmosis (PRO) by dosing with chlorhexidine gluconate. Desalination, 2020, 481, 114376.	8.2	16
32	Photocatalytic degradation of microcystin-LR and anatoxin-a with presence of natural organic matter using UV-light emitting diodes/TiO2 process. Journal of Water Process Engineering, 2020, 34, 101163.	5.6	16
33	Oxidation of tetracycline and oxytetracycline for the photo-Fenton process: Their transformation products and toxicity assessment. Water Research, 2020, 172, 115514.	11.3	193
34	Draft Genome Sequence of Raphidiopsis raciborskii Strain GIHE 2018, Isolated from a Shallow Freshwater Pond in South Korea. Microbiology Resource Announcements, 2020, 9, .	0.6	2
35	Effect of inoculum concentration on methanogenesis by direct interspecies electron transfer: Performance and microbial community composition. Bioresource Technology, 2019, 291, 121881.	9.6	25
36	Effects of atomic layer deposition conditions on the formation of thin ZnO films and their photocatalytic characteristics. Ceramics International, 2019, 45, 18823-18830.	4.8	31

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37	Effect of biofilm inhibitor on biofouling resistance in RO processes. Fuel, 2019, 253, 823-832.	6.4	19
38	Linoleic acid, a plant fatty acid, controls membrane biofouling via inhibition of biofilm formation. Fuel, 2019, 253, 754-761.	6.4	20
39	Implications of Chemical Reduction Using Hydriodic Acid on the Antimicrobial Properties of Graphene Oxide and Reduced Graphene Oxide Membranes. Small, 2019, 15, e1901023.	10.0	56
40	Control of membrane biofouling by 6-gingerol analogs: Quorum sensing inhibition. Fuel, 2019, 250, 79-87.	6.4	34
41	Formation of a dynamic membrane altered the microbial community and metabolic flux in fermentative hydrogen production. Bioresource Technology, 2019, 282, 63-68.	9.6	36
42	Antibacterial application of covalently immobilized photosensitizers on a surface. Environmental Research, 2019, 172, 34-42.	7.5	16
43	Granular activated carbon supplementation alters the metabolic flux of Clostridium butyricum for enhanced biohydrogen production. Bioresource Technology, 2019, 281, 318-325.	9.6	25
44	Triclosan-immobilized polyamide thin film composite membranes with enhanced biofouling resistance. Applied Surface Science, 2018, 443, 458-466.	6.1	38
45	Mitigation of membrane biofouling by a quorum quenching bacterium for membrane bioreactors. Bioresource Technology, 2018, 258, 220-226.	9.6	39
46	Special Issue on Current Trends in Biotechnology for Waste Conversion (ETBWC-2017). Bioresource Technology, 2018, 259, 475.	9.6	0
47	Direct interspecies electron transfer via conductive materials: A perspective for anaerobic digestion applications. Bioresource Technology, 2018, 254, 300-311.	9.6	316
48	Kinetic modeling and microbial community analysis for high-rate biohydrogen production using a dynamic membrane. Bioresource Technology, 2018, 262, 59-64.	9.6	19
49	Metagenomic insight into methanogenic reactors promoting direct interspecies electron transfer via granular activated carbon. Bioresource Technology, 2018, 259, 414-422.	9.6	108
50	Ultrasonic spray pyrolysis synthesis of reduced graphene oxide/anatase TiO2 composite and its application in the photocatalytic degradation of methylene blue in water. Chemosphere, 2018, 191, 738-746.	8.2	34
51	Effect of substrate concentration on the competition between Clostridium and Lactobacillus during biohydrogen production. International Journal of Hydrogen Energy, 2018, 43, 11460-11469.	7.1	46
52	Sharkskin-mimetic desalination membranes with ultralow biofouling. Journal of Materials Chemistry A, 2018, 6, 23034-23045.	10.3	78
53	Comparison of DNA Extraction Efficiency and Reproducibility of Different Aeration Diffuser Biofilms Using Bead-Beating Protocol. Journal of Molecular Microbiology and Biotechnology, 2018, 28, 293-304.	1.0	2
54	Identifying the Nonradical Mechanism in the Peroxymonosulfate Activation Process: Singlet Oxygenation Versus Mediated Electron Transfer. Environmental Science & Technology, 2018, 52, 7032-7042.	10.0	777

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55	Impact of fouling on the decline of aeration efficiency under different operational conditions at WRRFs. Science of the Total Environment, 2018, 639, 248-257.	8.0	13
56	Enhanced electrochemical oxidation of phenol by boron-doped diamond nanowire electrode. RSC Advances, 2017, 7, 6229-6235.	3.6	44
57	Biohydrogen production integrated with an external dynamic membrane: A novel approach. International Journal of Hydrogen Energy, 2017, 42, 27543-27549.	7.1	40
58	Antibacterial activity of the thin ZnO film formed by atomic layer deposition under UV-A light. Chemical Engineering Journal, 2017, 328, 988-996.	12.7	48
59	Structure–Activity Relationships of 6- and 8-Gingerol Analogs as Anti-Biofilm Agents. Journal of Medicinal Chemistry, 2017, 60, 9821-9837.	6.4	45
60	Mesophilic biogenic H2 production using galactose in a fixed bed reactor. International Journal of Hydrogen Energy, 2017, 42, 3658-3666.	7.1	37
61	Microbial responses to various process disturbances in a continuous hydrogen reactor fed with galactose. Journal of Bioscience and Bioengineering, 2017, 123, 216-222.	2.2	17
62	Polyvinylidene Fluoride Alters Inflammatory Responses by Activation-induced Cell Death in Macrophages. Immune Network, 2017, 17, 402.	3.6	3
63	Effects of an applied voltage on direct interspecies electron transfer via conductive materials for methane production. Waste Management, 2017, 68, 165-172.	7.4	27
64	Expression of the <i>nirS</i> , <i>hzsA,</i> and <i>hdh</i> Genes in Response to Nitrite Shock and Recovery in <i>Candidatus</i> Kuenenia stuttgartiensis. Environmental Science & Technology, 2016, 50, 6940-6947.	10.0	75
65	Direct incorporation of silver nanoparticles onto thin-film composite membranes via arc plasma deposition for enhanced antibacterial and permeation performance. Journal of Membrane Science, 2016, 513, 226-235.	8.2	72
66	Effect of transmembrane pressure, linear velocity, and temperature on permeate water flux of high-density vertically aligned carbon nanotube membranes. Desalination and Water Treatment, 2016, 57, 26706-26717.	1.0	15
67	Raffinose, a plant galactoside, inhibits Pseudomonas aeruginosa biofilm formation via binding to LecA and decreasing cellular cyclic diguanylate levels. Scientific Reports, 2016, 6, 25318.	3.3	39
68	Effect of different salinity adaptation on the performance and microbial community in a sequencing batch reactor. Bioresource Technology, 2016, 216, 808-816.	9.6	109
69	A survey of biofilms on wastewater aeration diffusers suggests bacterial community composition and function vary by substrate type and time. Applied Microbiology and Biotechnology, 2016, 100, 6361-6373.	3.6	9
70	The most densified vertically-aligned carbon nanotube membranes and their normalized water permeability and high pressure durability. Journal of Membrane Science, 2016, 501, 144-151.	8.2	41
71	High antibiofouling property of vertically aligned carbon nanotube membranes at a low cross-flow velocity operation in different bacterial solutions. Desalination and Water Treatment, 2016, 57, 23505-23515.	1.0	5
72	Lauroyl arginate ethyl: An effective antibiofouling agent applicable for reverse osmosis processes producing potable water. Journal of Membrane Science, 2016, 507, 24-33.	8.2	36

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73	Linking biofilm growth to fouling and aeration performance ofÂfine-pore diffuser in activated sludge. Water Research, 2016, 90, 317-328.	11.3	36
74	Metagenomes reveal microbial structures, functional potentials, and biofouling-related genes in a membrane bioreactor. Applied Microbiology and Biotechnology, 2016, 100, 5109-5121.	3.6	46
75	Enrichment of specific electro-active microorganisms and enhancement of methane production by adding granular activated carbon in anaerobic reactors. Bioresource Technology, 2016, 205, 205-212.	9.6	259
76	HRT dependent performance and bacterial community population of granular hydrogen-producing mixed cultures fed with galactose. Bioresource Technology, 2016, 206, 188-194.	9.6	66
77	Failure of biohydrogen production by low levels of substrate and lactic acid accumulation. Renewable Energy, 2016, 86, 889-894.	8.9	33
78	Feasibility of enriched mixed cultures obtained by repeated batch transfer in continuous hydrogen fermentation. International Journal of Hydrogen Energy, 2016, 41, 4393-4403.	7.1	39
79	The effect of morphologies of carbon nanotube-based membranes and their leachates on antibacterial property. Desalination and Water Treatment, 2016, 57, 7562-7573.	1.0	3
80	Inhibition of biofouling by modification of forward osmosis membrane using quaternary ammonium cation. Water Science and Technology, 2015, 72, 738-745.	2.5	9
81	6-Gingerol reduces Pseudomonas aeruginosa biofilm formation and virulence via quorum sensing inhibition. Scientific Reports, 2015, 5, 8656.	3.3	229
82	Use of rhamnolipid biosurfactant for membrane biofouling prevention and cleaning. Biofouling, 2015, 31, 211-220.	2.2	27
83	Design, synthesis and biological evaluation of 4-(alkyloxy)-6-methyl-2H-pyran-2-one derivatives as quorum sensing inhibitors. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 2913-2917.	2.2	41
84	The effect of hydrodynamic cavitation on Microcystis aeruginosa: Physical and chemical factors. Chemosphere, 2015, 136, 245-251.	8.2	18
85	Influence of influent wastewater communities on temporal variation of activated sludge communities. Water Research, 2015, 73, 132-144.	11.3	115
86	Evidence of syntrophic acetate oxidation by Spirochaetes during anaerobic methane production. Bioresource Technology, 2015, 190, 543-549.	9.6	89
87	Tributyl tetradecyl phosphonium chloride for biofouling control in reverse osmosis processes. Desalination, 2015, 372, 39-46.	8.2	21
88	Changes in performance and bacterial communities in response to various process disturbances in a high-rate biohydrogen reactor fed with galactose. Bioresource Technology, 2015, 188, 109-116.	9.6	55
89	Polyvinylchloride Ultrafiltration Membranes Modified with Different SiO2 Particles and Their Antifouling Mechanism for Oil Extraction Wastewater. Journal of Environmental Engineering, ASCE, 2015, 141, 04015009.	1.4	7
90	Protein immobilization onto various surfaces using a polymer-bound isocyanate. Applied Surface Science, 2015, 324, 198-204.	6.1	10

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91	Estrogenic Endocrine-Disrupting Chemicals Modulate the Production of Inflammatory Mediators and Cell Viability of Lipopolysaccharide-Stimulated Macrophages. Inflammation, 2015, 38, 595-605.	3.8	17
92	Diverse Influences of Androgen-Disrupting Chemicals on Immune Responses Mounted by Macrophages. Inflammation, 2014, 37, 649-656.	3.8	12
93	Bacterial communities in a bioelectrochemical denitrification system: The effects of supplemental electron acceptors. Water Research, 2014, 51, 25-36.	11.3	144
94	Simultaneous utilization of galactose and glucose by Saccharomyces cerevisiae mutant strain for ethanol production. Renewable Energy, 2014, 65, 213-218.	8.9	19
95	Comparison of bacterial communities of biofilms formed on different membrane surfaces. World Journal of Microbiology and Biotechnology, 2014, 30, 777-782.	3.6	18
96	Predominance of cluster I Clostridium in hydrogen fermentation of galactose seeded with various heat-treated anaerobic sludges. Bioresource Technology, 2014, 157, 98-106.	9.6	56
97	Rapid enrichment of (homo)acetogenic consortia from animal feces using a high mass-transfer gas-lift reactor fed with syngas. Journal of Industrial Microbiology and Biotechnology, 2013, 40, 995-1003.	3.0	26
98	Optimization of batch dilute-acid hydrolysis for biohydrogen production from red algal biomass. International Journal of Hydrogen Energy, 2013, 38, 6130-6136.	7.1	76
99	General and rare bacterial taxa demonstrating different temporal dynamic patterns in an activated sludge bioreactor. Applied Microbiology and Biotechnology, 2013, 97, 1755-1765.	3.6	96
100	Hydrodynamic effects on bacterial biofilm development in a microfluidic environment. Lab on A Chip, 2013, 13, 1846.	6.0	60
101	Ginger Extract Inhibits Biofilm Formation by Pseudomonas aeruginosa PA14. PLoS ONE, 2013, 8, e76106.	2.5	169
102	Biofouling control by quorum sensing inhibition and its dependence on membrane surface. Water Science and Technology, 2012, 66, 1424-1430.	2.5	25
103	Microfluidic Approaches to Bacterial Biofilm Formation. Molecules, 2012, 17, 9818-9834.	3.8	122
104	Preparation of single-walled carbon nanotubes/polyvinylchloride membrane and its antibacterial property. Water Science and Technology, 2012, 66, 2275-2283.	2.5	19
105	Monitoring bacterial community structure and variability in time scale in full-scale anaerobic digesters. Journal of Environmental Monitoring, 2012, 14, 1893.	2.1	122
106	Fine-scale bacterial community dynamics and the taxa–time relationship within a full-scale activated sludge bioreactor. Water Research, 2011, 45, 5476-5488.	11.3	136
107	Feasibility of biohydrogen production from Gelidium amansii. International Journal of Hydrogen Energy, 2011, 36, 13997-14003.	7.1	154
108	Microbial community analysis and identification of alternative host-specific fecal indicators in fecal and river water samples using pyrosequencing. Journal of Microbiology, 2011, 49, 585-594.	2.8	34

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109	Reduction of membrane fouling by simultaneous upward and downward air sparging in a pilot-scale submerged membrane bioreactor treating municipal wastewater. Desalination, 2010, 251, 75-82.	8.2	28
110	Ammoniaâ€oxidizing communities in a highly aerated fullâ€scale activated sludge bioreactor: betaproteobacterial dynamics and low relative abundance of Crenarchaea. Environmental Microbiology, 2009, 11, 2310-2328.	3.8	234
111	Evaluation of a low-pressure membrane filtration for drinking water treatment: pretreatment by coagulation/sedimentation for the MF membrane. Desalination, 2009, 247, 271-284.	8.2	41
112	Taking Advantage of Aerated-Anoxic Operation in a Full-Scale University of Cape Town Process. Water Environment Research, 2006, 78, 637-642.	2.7	14
113	Occurrence of Ammonia-Oxidizing Archaea in Wastewater Treatment Plant Bioreactors. Applied and Environmental Microbiology, 2006, 72, 5643-5647.	3.1	347
114	Evaluating the effect of dissolved oxygen on ammonia-oxidizing bacterial communities in activated sludge. Water Research, 2004, 38, 3275-3286.	11.3	280