

Jae-Hoon Hwang

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,762
citations

279798

23
h-index

302126

39
g-index

41
all docs

41
docs citations

41
times ranked

2287
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of microalgal species isolated from fresh water bodies as a potential source for biodiesel production. <i>Applied Energy</i> , 2011, 88, 3300-3306.	10.1	146
2	Biodegradation of bisphenol A by the freshwater microalgae <i>Chlamydomonas mexicana</i> and <i>Chlorella vulgaris</i> . <i>Ecological Engineering</i> , 2014, 73, 260-269.	3.6	129
3	Effect of salt type and concentration on the growth and lipid content of <i>Chlorella vulgaris</i> in synthetic saline wastewater for biofuel production. <i>Bioresource Technology</i> , 2017, 243, 147-153.	9.6	119
4	Use of Microalgae for Advanced Wastewater Treatment and Sustainable Bioenergy Generation. <i>Environmental Engineering Science</i> , 2016, 33, 882-897.	1.6	105
5	Photoautotrophic hydrogen production by eukaryotic microalgae under aerobic conditions. <i>Nature Communications</i> , 2014, 5, 3234.	12.8	92
6	Microbial Symbiosis: A Network towards Biomethanation. <i>Trends in Microbiology</i> , 2020, 28, 968-984.	7.7	83
7	Enhancement of fermentative bioenergy (ethanol/hydrogen) production using ultrasonication of <i>Scenedesmus obliquus</i> YSW15 cultivated in swine wastewater effluent. <i>Energy and Environmental Science</i> , 2011, 4, 3513.	30.8	82
8	Improving Electrochemical Pb ²⁺ Detection Using a Vertically Aligned 2D MoS ₂ Nanofilm. <i>Analytical Chemistry</i> , 2019, 91, 11770-11777.	6.5	73
9	A novel nanoporous bismuth electrode sensor for in situ heavy metal detection. <i>Electrochimica Acta</i> , 2019, 298, 440-448.	5.2	72
10	Effect of pH and sulfate concentration on hydrogen production using anaerobic mixed microflora. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 9702-9710.	7.1	66
11	Removal of Nitrogen and Phosphorus from Piggery Wastewater Effluent Using the Green Microalga <i>Scenedesmus obliquus</i> . <i>Journal of Environmental Engineering, ASCE</i> , 2013, 139, 1198-1205.	1.4	66
12	Ultrasonic disintegration of microalgal biomass and consequent improvement of bioaccessibility/bioavailability in microbial fermentation. <i>Biotechnology for Biofuels</i> , 2013, 6, 37.	6.2	63
13	Recent Developments of PFAS-Detecting Sensors and Future Direction: A Review. <i>Micromachines</i> , 2020, 11, 667.	2.9	57
14	A novel Fe-Chitosan-coated carbon electrode sensor for in situ As(III) detection in mining wastewater and soil leachate. <i>Sensors and Actuators B: Chemical</i> , 2019, 294, 89-97.	7.8	51
15	Enhancement of microalgal growth and biocomponent-based transformations for improved biofuel recovery: A review. <i>Bioresource Technology</i> , 2018, 258, 365-375.	9.6	49
16	Surfactant addition to enhance bioavailability of bilge water in single chamber microbial fuel cells (MFCs). <i>Journal of Hazardous Materials</i> , 2019, 368, 732-738.	12.4	49
17	Photoheterotrophic microalgal hydrogen production using acetate- and butyrate-rich wastewater effluent. <i>Energy</i> , 2014, 78, 887-894.	8.8	46
18	Feasibility of hydrogen production from ripened fruits by a combined two-stage (dark/dark) fermentation system. <i>Bioresource Technology</i> , 2011, 102, 1051-1058.	9.6	44

#	ARTICLE	IF	CITATIONS
19	Enhancement of continuous fermentative bioethanol production using combined treatment of mixed microalgal biomass. <i>Algal Research</i> , 2016, 17, 14-20.	4.6	39
20	Pretreatment of microalgal biomass for enhanced recovery/extraction of reducing sugars and proteins. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 95-103.	3.4	37
21	Effect of flue gas CO ₂ on the growth, carbohydrate and fatty acid composition of a green microalga <i>Scenedesmus obliquus</i> for biofuel production. <i>Environmental Technology (United Kingdom)</i> 11 0.724314 1314 33/Overl	11.3	15
22	A Novel Bismuth-Chitosan Nanocomposite Sensor for Simultaneous Detection of Pb(II), Cd(II) and Zn(II) in Wastewater. <i>Micromachines</i> , 2019, 10, 511.	2.9	32
23	Flexible copper-biopolymer nanocomposite sensors for trace level lead detection in water. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130263.	7.8	31
24	Lignocellulolytic microbiomes for augmenting lignocellulose degradation in anaerobic digestion. <i>Trends in Microbiology</i> , 2022, 30, 6-9.	7.7	25
25	Enhanced Electrochemical Detection of Multiheavy Metal Ions Using a Biopolymer-Coated Planar Carbon Electrode. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019, 68, 2387-2393.	4.7	22
26	Photosynthetic biohydrogen production in a wastewater environment and its potential as renewable energy. <i>Energy</i> , 2018, 149, 222-229.	8.8	21
27	Effect of COD/SO ₄ ²⁻ ratio and Fe(II) under the variable hydraulic retention time (HRT) on fermentative hydrogen production. <i>Water Research</i> , 2009, 43, 3525-3533.	11.3	15
28	Effect of permeate recycling and light intensity on growth kinetics of <i>Synechocystis</i> sp. PCC 6803. <i>Algal Research</i> , 2017, 27, 170-176.	4.6	13
29	Effects of LED-controlled spatially-averaged light intensity and wavelength on <i>Neochloris oleoabundans</i> growth and lipid composition. <i>Algal Research</i> , 2019, 41, 101573.	4.6	13
30	Hydrogen production from sulfate- and ferrous-enriched wastewater. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 13984-13990.	7.1	12
31	Renewable algal photo H ₂ production without S control using acetate enriched fermenter effluents. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 1740-1751.	7.1	12
32	Influence of CO ₂ and light spectra on the enhancement of microalgal growth and lipid content. <i>Journal of Renewable and Sustainable Energy</i> , 2014, 6, 063107.	2.0	10
33	A strategy for power generation from bilgewater using a photosynthetic microalgal fuel cell (MAFC). <i>Journal of Power Sources</i> , 2021, 484, 229222.	7.8	10
34	Continuous photosynthetic biohydrogen production from acetate-rich wastewater: Influence of light intensity. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 21812-21821.	7.1	10
35	Nanoparticle-embedded hydrogel synthesized electrodes for electrochemical oxidation of perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS). <i>Chemosphere</i> , 2022, 296, 134001.	8.2	10
36	Direct Mercury Detection in Landfill Leachate Using a Novel AuNP-Biopolymer Carbon Screen-Printed Electrode Sensor. <i>Micromachines</i> , 2021, 12, 649.	2.9	8

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37	Recycling urine for bioelectrochemical hydrogen production using a MoS ₂ nano carbon coated electrode in a microbial electrolysis cell. <i>Journal of Power Sources</i> , 2022, 527, 231209.	7.8	7
38	Perchlorate reduction from a highly concentrated aqueous solution by bacterium <i>Rhodococcus</i> sp. YSPW03. <i>Environmental Science and Pollution Research</i> , 2015, 22, 18839-18848.	5.3	3
39	Enhanced electrochemical detection of multi-heavy metal ions using a biopolymer-coated planar carbon electrode. , 2018, , .		3
40	Microalgae: An Eco-friendly Tool for the Treatment of Wastewaters for Environmental Safety. , 2020, , 283-304.		2
41	Bismuth-Chitosan Nanocomposite Sensors for Trace Level Detection of Ni(II) and Co(II) in Water Samples. <i>Water (Switzerland)</i> , 2022, 14, 302.	2.7	2