

Sang-Eun Oh

List of Publications by Year in descending order

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73
papers

6,161
citations

117453

34
h-index

91712

69
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73
all docs

73
docs citations

73
times ranked

5375
citing authors

#	ARTICLE	IF	CITATIONS
1	Power Generation Using Different Cation, Anion, and Ultrafiltration Membranes in Microbial Fuel Cells. <i>Environmental Science & Technology</i> , 2007, 41, 1004-1009.	4.6	613
2	Microbial fuel cell as new technology for bioelectricity generation: A review. <i>AEJ - Alexandria Engineering Journal</i> , 2015, 54, 745-756.	3.4	580
3	Biological Hydrogen Production Measured in Batch Anaerobic Respirometers. <i>Environmental Science & Technology</i> , 2002, 36, 2530-2535.	4.6	477
4	The Relative Effectiveness of pH Control and Heat Treatment for Enhancing Biohydrogen Gas Production. <i>Environmental Science & Technology</i> , 2003, 37, 5186-5190.	4.6	427
5	Proton exchange membrane and electrode surface areas as factors that affect power generation in microbial fuel cells. <i>Applied Microbiology and Biotechnology</i> , 2006, 70, 162-169.	1.7	423
6	Biohydrogen gas production from food processing and domestic wastewaters. <i>International Journal of Hydrogen Energy</i> , 2005, 30, 1535-1542.	3.8	334
7	Hydrogen and methane production from swine wastewater using microbial electrolysis cells. <i>Water Research</i> , 2009, 43, 1480-1488.	5.3	257
8	Nano-structured carbon as electrode material in microbial fuel cells: A comprehensive review. <i>Journal of Alloys and Compounds</i> , 2013, 580, 245-255.	2.8	192
9	Effects of natural and calcined oyster shells on Cd and Pb immobilization in contaminated soils. <i>Environmental Earth Sciences</i> , 2010, 61, 1301-1308.	1.3	178
10	Biological hydrogen production using a membrane bioreactor. <i>Biotechnology and Bioengineering</i> , 2004, 87, 119-127.	1.7	175
11	Overview of Recent Advancements in the Microbial Fuel Cell from Fundamentals to Applications: Design, Major Elements, and Scalability. <i>Energies</i> , 2019, 12, 3390.	1.6	145
12	Carbon nanotube as an alternative cathode support and catalyst for microbial fuel cells. <i>Applied Energy</i> , 2013, 102, 1050-1056.	5.1	133
13	Removal of Headspace CO ₂ Increases Biological Hydrogen Production. <i>Environmental Science & Technology</i> , 2005, 39, 4416-4420.	4.6	127
14	Application of eggshell waste for the immobilization of cadmium and lead in a contaminated soil. <i>Environmental Geochemistry and Health</i> , 2011, 33, 31-39.	1.8	119
15	Toxicity assessment using different bioassays and microbial biosensors. <i>Environment International</i> , 2016, 92-93, 106-118.	4.8	114
16	Electricity generation from rice straw using a microbial fuel cell. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 9490-9496.	3.8	104
17	Power generation from cellulose using mixed and pure cultures of cellulose-degrading bacteria in a microbial fuel cell. <i>Enzyme and Microbial Technology</i> , 2012, 51, 269-273.	1.6	102
18	Application of Co-naphthalocyanine (CoNpc) as alternative cathode catalyst and support structure for microbial fuel cells. <i>Bioresource Technology</i> , 2011, 102, 342-347.	4.8	99

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19	A review on the effect of proton exchange membranes in microbial fuel cells. <i>Biofuel Research Journal</i> , 2014, 01, 7-15.	7.2	97
20	Heavy metal immobilization in soil near abandoned mines using eggshell waste and rapeseed residue. <i>Environmental Science and Pollution Research</i> , 2013, 20, 1719-1726.	2.7	94
21	Modeling adsorption kinetics of trichloroethylene onto biochars derived from soybean stover and peanut shell wastes. <i>Environmental Science and Pollution Research</i> , 2013, 20, 8364-8373.	2.7	92
22	Thionine increases electricity generation from microbial fuel cell using <i>Saccharomyces cerevisiae</i> and exoelectrogenic mixed culture. <i>Journal of Microbiology</i> , 2012, 50, 575-580.	1.3	86
23	Whole conversion of microalgal biomass into biofuels through successive high-throughput fermentation. <i>Chemical Engineering Journal</i> , 2019, 360, 797-805.	6.6	74
24	The effect of Nafion membrane fouling on the power generation of a microbial fuel cell. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 13643-13651.	3.8	74
25	Evaluation of marine biomass as a source of methane in batch tests: A lab-scale study. <i>Energy</i> , 2012, 43, 396-401.	4.5	70
26	Overview of electroactive microorganisms and electron transfer mechanisms in microbial electrochemistry. <i>Bioresource Technology</i> , 2022, 347, 126579.	4.8	58
27	Physical and hydrodynamic properties of flocs produced during biological hydrogen production. <i>Biotechnology and Bioengineering</i> , 2004, 88, 854-860.	1.7	56
28	A novel biosensor for detecting toxicity in water using sulfur-oxidizing bacteria. <i>Sensors and Actuators B: Chemical</i> , 2011, 154, 17-21.	4.0	56
29	Nickel nanorods over nickel foam as standalone anode for direct alkaline methanol and ethanol fuel cell. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 5948-5959.	3.8	56
30	Hydrogen production by <i>Clostridium acetobutylicum</i> ATCC 824 and megaplasmid-deficient mutant M5 evaluated using a large headspace volume technique. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 9347-9353.	3.8	51
31	Utilization of Microalgal Biofractions for Bioethanol, Higher Alcohols, and Biodiesel Production: A Review. <i>Energies</i> , 2017, 10, 2110.	1.6	47
32	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
33	Use of artificial neural network for the prediction of bioelectricity production in a membrane less microbial fuel cell. <i>Fuel</i> , 2014, 117, 697-703.	3.4	45
34	Improved structures of stainless steel current collector increase power generation of microbial fuel cells by decreasing cathodic charge transfer impedance. <i>Environmental Engineering Research</i> , 2018, 23, 383-389.	1.5	36
35	Effects of substrate concentrations on performance of serially connected microbial fuel cells (MFCs) operated in a continuous mode. <i>Biotechnology Letters</i> , 2012, 34, 1833-1839.	1.1	35
36	Transition metal/carbon nanoparticle composite catalysts as platinum substitutes for bioelectrochemical hydrogen production using microbial electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2258-2265.	3.8	35

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37	Isolation and characterization of <i>Acidithiobacillus caldus</i> from a sulfur-oxidizing bacterial biosensor and its role in detection of toxic chemicals. <i>Journal of Microbiological Methods</i> , 2010, 82, 151-155.	0.7	33
38	Nitrate-contaminated groundwater remediation by combined autotrophic and heterotrophic denitrification for sulfate and pH control: batch tests. <i>Environmental Science and Pollution Research</i> , 2013, 20, 9084-9091.	2.7	32
39	Detecting endocrine disrupting compounds in water using sulfur-oxidizing bacteria. <i>Chemosphere</i> , 2010, 81, 294-297.	4.2	27
40	Detection of Cr ⁶⁺ by the Sulfur Oxidizing Bacteria Biosensor: Effect of Different Physical Factors. <i>Environmental Science & Technology</i> , 2012, 46, 7844-7848.	4.6	23
41	Comparison of chromium III and VI toxicities in water using sulfur-oxidizing bacterial bioassays. <i>Chemosphere</i> , 2016, 160, 342-348.	4.2	22
42	Detecting Oxidized Contaminants in Water Using Sulfur-Oxidizing Bacteria. <i>Environmental Science & Technology</i> , 2011, 45, 3739-3745.	4.6	21
43	Fouling behavior of marine organic matter in reverse osmosis membranes of a real-scale seawater desalination plant in South Korea. <i>Desalination</i> , 2020, 485, 114305.	4.0	21
44	Effect of organics and alkalinity on the sulfur oxidizing bacteria (SOB) biosensor. <i>Chemosphere</i> , 2013, 90, 965-970.	4.2	20
45	Rapid detection of heavy metal-induced toxicity in water using a fed-batch sulfur-oxidizing bacteria (SOB) bioreactor. <i>Journal of Microbiological Methods</i> , 2019, 161, 35-42.	0.7	20
46	Assessment of benzene, toluene, ethyl-benzene, and xylene (BTEX) toxicity in soil using sulfur-oxidizing bacterial (SOB) bioassay. <i>Chemosphere</i> , 2019, 220, 651-657.	4.2	20
47	Sequential effects of cleaning protocols on desorption of reverse osmosis membrane foulants: Autopsy results from a full-scale desalination plant. <i>Desalination</i> , 2021, 500, 114830.	4.0	20
48	A solid-phase direct contact bioassay using sulfur-oxidizing bacteria (SOB) to evaluate toxicity of soil contaminated with heavy metals. <i>Sensors and Actuators B: Chemical</i> , 2020, 305, 127510.	4.0	19
49	Real-time monitoring of water quality of stream water using sulfur-oxidizing bacteria as bio-indicator. <i>Chemosphere</i> , 2019, 223, 58-63.	4.2	18
50	Semi-continuous detection of toxic hexavalent chromium using a sulfur-oxidizing bacteria biosensor. <i>Journal of Environmental Management</i> , 2012, 106, 110-112.	3.8	17
51	Highly active Pt-Pd alloy catalyst for oxygen reduction reaction in buffer solution. <i>Electrochemistry Communications</i> , 2011, 13, 1300-1303.	2.3	15
52	Application of half-order kinetics to sulfur-utilizing autotrophic denitrification for groundwater remediation. <i>Environmental Earth Sciences</i> , 2015, 73, 3445-3450.	1.3	15
53	A simple and rapid algal assay kit to assess toxicity of heavy metal-contaminated water. <i>Environmental Pollution</i> , 2021, 269, 116135.	3.7	15
54	Toxicity assessment of selected heavy metals in water using a seven-chambered sulfur-oxidizing bacterial (SOB) bioassay reactor. <i>Sensors and Actuators B: Chemical</i> , 2018, 258, 1008-1014.	4.0	13

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55	Effect of Dissolved Oxygen Tension and Agitation Rates on Sulfur-Utilizing Autotrophic Denitrification: Batch Tests. <i>Applied Biochemistry and Biotechnology</i> , 2013, 169, 181-191.	1.4	12
56	Assessing acute toxicity of effluent from a textile industry and nearby river waters using sulfur-oxidizing bacteria in continuous mode. <i>Environmental Technology (United Kingdom)</i> , 2011, 32, 1597-1604.	1.2	10
57	Improved toxicity analysis of heavy metal-contaminated water via a novel fermentative bacteria-based test kit. <i>Chemosphere</i> , 2020, 258, 127412.	4.2	9
58	Development of an Online Sulfur-Oxidizing Bacteria Biosensor for the Monitoring of Water Toxicity. <i>Applied Biochemistry and Biotechnology</i> , 2014, 174, 2585-2593.	1.4	7
59	Rapid assessment of heavy metal-induced toxicity in water using micro-algal bioassay based on photosynthetic oxygen evolution. <i>Environmental Engineering Research</i> , 2021, 26, 200391-0.	1.5	7
60	Assessing toxicities of industrial effluents and 1,4-dioxane using sulphur-oxidising bacteria in a batch test. <i>Water and Environment Journal</i> , 2012, 26, 224-234.	1.0	5
61	Assessment of chromium-contaminated groundwater using a thiosulfate-oxidizing bacteria (TOB) biosensor. <i>Chemosphere</i> , 2014, 104, 32-36.	4.2	5
62	A Non-Pt Catalyst for Improved Oxygen Reduction Reaction in Microbial Fuel Cells. <i>Journal of the Korean Electrochemical Society</i> , 2011, 14, 71-76.	0.1	5
63	A Microbial Bioassay for Direct Contact Assessment of Soil Toxicity Based on Oxygen Consumption of Sulfur Oxidizing Bacteria. <i>Bio-protocol</i> , 2020, 10, e3470.	0.2	4
64	A novel gas production bioassay of thiosulfate utilizing denitrifying bacteria (TUDB) for the toxicity assessment of heavy metals contaminated water. <i>Chemosphere</i> , 2022, 303, 134902.	4.2	4
65	A direct contact bioassay using sulfur-oxidizing bacteria (SOB) for toxicity assessment of contaminated field soils. <i>Chemosphere</i> , 2022, 286, 131599.	4.2	3
66	Influence of Reactive Media Composition and Chemical Oxygen Demand as Methanol on Autotrophic Sulfur Denitrification. <i>Journal of Microbiology and Biotechnology</i> , 2012, 22, 1155-1160.	0.9	3
67	Application of Biocathodes in Microbial Fuel Cells: Opportunities and Challenges. <i>Han'guk T'oyang Piryu Hakhoe Chi Han'guk T'oyang Piryu Hakhoe</i> , 2012, 45, 410-420.	0.1	3
68	Use of sulfur-oxidizing bacteria for assessment of chromium-contaminated soil. <i>Environmental Earth Sciences</i> , 2013, 70, 139-143.	1.3	2
69	Recovery of Sustainable Renewable Energy from Marine Biomass. <i>Han'guk T'oyang Piryu Hakhoe Chi Han'guk T'oyang Piryu Hakhoe</i> , 2012, 45, 156-161.	0.1	2
70	Effect of different air flow rate on operation of sulfur-oxidizing bacteria (SOB) biosensor. <i>Geosystem Engineering</i> , 2015, 18, 245-250.	0.7	1
71	Biological Toxicity Monitoring System using Sulfur Oxidizing Bacteria. , 2011, , .		0
72	Assessment of Biological Toxicity Monitoring in Water Using Sulfur Oxidizing Bacteria. <i>Korean Journal of Environmental Agriculture</i> , 2012, 31, 170-174.	0.0	0

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73	Toxicity Response of Biosensor Using Sulfur-Oxidizing Bacteria to Various Nitrogenous Compounds. Korean Journal of Environmental Agriculture, 2014, 33, 314-320.	0.0	0