

In Seop Chang

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142
papers

10,540
citations

47
h-index

101
g-index

147
ext. papers

11,453
ext. citations

7.1
avg, IF

6.02
L-index

#	Paper	IF	Citations
142	Electrically conductive bacterial nanowires produced by <i>Shewanella oneidensis</i> strain MR-1 and other microorganisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 11358-63	11.5	1359
141	Operational parameters affecting the performance of a mediator-less microbial fuel cell. <i>Biosensors and Bioelectronics</i> , 2003 , 18, 327-34	11.8	764
140	A mediator-less microbial fuel cell using a metal reducing bacterium, <i>Shewanella putrefaciens</i> . <i>Enzyme and Microbial Technology</i> , 2002 , 30, 145-152	3.8	702
139	Current production and metal oxide reduction by <i>Shewanella oneidensis</i> MR-1 wild type and mutants. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 7003-12	4.8	436
138	A Novel Electrochemically Active and Fe(III)-reducing Bacterium Phylogenetically Related to <i>Clostridium butyricum</i> Isolated from a Microbial Fuel Cell. <i>Anaerobe</i> , 2001 , 7, 297-306	2.8	430
137	Construction and operation of a novel mediator- and membrane-less microbial fuel cell. <i>Process Biochemistry</i> , 2004 , 39, 1007-1012	4.8	357
136	Enrichment of microbial community generating electricity using a fuel-cell-type electrochemical cell. <i>Applied Microbiology and Biotechnology</i> , 2004 , 63, 672-81	5.7	352
135	Mass Transport through a Proton Exchange Membrane (Nafion) in Microbial Fuel Cells. <i>Energy & Fuels</i> , 2008 , 22, 169-176	4.1	324
134	A novel electrochemically active and Fe(III)-reducing bacterium phylogenetically related to <i>Aeromonas hydrophila</i> , isolated from a microbial fuel cell. <i>FEMS Microbiology Letters</i> , 2003 , 223, 129-34	2.9	318
133	Continuous determination of biochemical oxygen demand using microbial fuel cell type biosensor. <i>Biosensors and Bioelectronics</i> , 2004 , 19, 607-13	11.8	317
132	Challenges in microbial fuel cell development and operation. <i>Applied Microbiology and Biotechnology</i> , 2007 , 76, 485-94	5.7	302
131	Novel BOD (biological oxygen demand) sensor using mediator-less microbial fuel cell. <i>Biotechnology Letters</i> , 2003 , 25, 541-5	3	274
130	Continuous electricity production from artificial wastewater using a mediator-less microbial fuel cell. <i>Bioresource Technology</i> , 2006 , 97, 621-7	11	232
129	Improvement of a microbial fuel cell performance as a BOD sensor using respiratory inhibitors. <i>Biosensors and Bioelectronics</i> , 2005 , 20, 1856-9	11.8	196
128	Biological treatment of acid mine drainage under sulphate-reducing conditions with solid waste materials as substrate. <i>Water Research</i> , 2000 , 34, 1269-1277	12.5	196
127	Use of acetate for enrichment of electrochemically active microorganisms and their 16S rDNA analyses. <i>FEMS Microbiology Letters</i> , 2003 , 223, 185-91	2.9	169
126	Analysis of microbial diversity in oligotrophic microbial fuel cells using 16S rDNA sequences. <i>FEMS Microbiology Letters</i> , 2004 , 233, 77-82	2.9	155

125	Enrichment, performance, and microbial diversity of a thermophilic mediatorless microbial fuel cell. <i>Environmental Science & Technology</i> , 2006 , 40, 6449-54	10.3	141
124	Selective inhibition of methanogens for the improvement of biohydrogen production in microbial electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 13379-13386	6.7	111
123	A solar-powered microbial electrolysis cell with a platinum catalyst-free cathode to produce hydrogen. <i>Environmental Science & Technology</i> , 2009 , 43, 9525-30	10.3	107
122	Experimental evaluation of influential factors for electricity harvesting from sediment using microbial fuel cell. <i>Bioresource Technology</i> , 2009 , 100, 3029-35	11	106
121	Microbial fuel cells for energy self-sufficient domestic wastewater treatment-a review and discussion from energetic consideration. <i>Applied Microbiology and Biotechnology</i> , 2011 , 89, 259-70	5.7	97
120	Bifunctional silver nanoparticle cathode in microbial fuel cells for microbial growth inhibition with comparable oxygen reduction reaction activity. <i>Environmental Science & Technology</i> , 2011 , 45, 5441-6	10.3	94
119	Effect of shear rate on the response of microbial fuel cell toxicity sensor to Cu(II). <i>Bioresource Technology</i> , 2013 , 136, 707-10	11	91
118	Treatment of alcohol distillery wastewater using a Bacteroidetes-dominant thermophilic microbial fuel cell. <i>Environmental Science & Technology</i> , 2012 , 46, 3022-30	10.3	87
117	A microbial fuel cell with improved cathode reaction as a low biochemical oxygen demand sensor. <i>Biotechnology Letters</i> , 2003 , 25, 1357-61	3	85
116	Improving the dynamic response of a mediator-less microbial fuel cell as a biochemical oxygen demand (BOD) sensor. <i>Biotechnology Letters</i> , 2004 , 26, 1717-21	3	84
115	Microbial synthesis gas utilization and ways to resolve kinetic and mass-transfer limitations. <i>Bioresource Technology</i> , 2015 , 177, 361-74	11	81
114	Effect of CO partial pressure on cell-recycled continuous CO fermentation by <i>Eubacterium limosum</i> KIST612. <i>Process Biochemistry</i> , 2001 , 37, 411-421	4.8	76
113	Determination of charge transfer resistance and capacitance of microbial fuel cell through a transient response analysis of cell voltage. <i>Biosensors and Bioelectronics</i> , 2010 , 25, 1629-34	11.8	72
112	Residence time distribution in microbial fuel cell and its influence on COD removal with electricity generation. <i>Biochemical Engineering Journal</i> , 2005 , 27, 59-65	4.2	71
111	Scaling-up microbial fuel cells: configuration and potential drop phenomenon at series connection of unit cells in shared anolyte. <i>ChemSusChem</i> , 2012 , 5, 1086-91	8.3	70
110	Performance and Bacterial Consortium of Microbial Fuel Cell Fed with Formate. <i>Energy & Fuels</i> , 2008 , 22, 164-168	4.1	67
109	Coupling of anaerobic digester and microbial fuel cell for COD removal and ammonia recovery. <i>Bioresource Technology</i> , 2015 , 195, 217-22	11	60
108	Membrane separation processes for dehydration of bioethanol from fermentation broths: Recent developments, challenges, and prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 105, 427-443	16.2	59

107	Dissimilatory Fe(III) reduction by an electrochemically active lactic acid bacterium phylogenetically related to <i>Enterococcus gallinarum</i> isolated from submerged soil. <i>Journal of Applied Microbiology</i> , 2005 , 99, 978-87	4.7	59
106	Responses from freshwater sediment during electricity generation using microbial fuel cells. <i>Bioprocess and Biosystems Engineering</i> , 2009 , 32, 389-95	3.7	58
105	The biocathode of microbial electrochemical systems and microbially-influenced corrosion. <i>Bioresource Technology</i> , 2015 , 190, 395-401	11	57
104	Comparison in performance of sediment microbial fuel cells according to depth of embedded anode. <i>Bioresource Technology</i> , 2013 , 127, 138-42	11	57
103	T-RFLP reveals high Proteobacteria diversity in microbial fuel cells enriched with domestic wastewater. <i>Journal of Applied Microbiology</i> , 2010 , 109, 839-50	4.7	54
102	Biocatalytic conversion of methane to methanol as a key step for development of methane-based biorefineries. <i>Journal of Microbiology and Biotechnology</i> , 2014 , 24, 1597-605	3.3	54
101	Complete genome sequence of a carbon monoxide-utilizing acetogen, <i>Eubacterium limosum</i> KIST612. <i>Journal of Bacteriology</i> , 2011 , 193, 307-8	3.5	53
100	A comparison of membranes and enrichment strategies for microbial fuel cells. <i>Bioresource Technology</i> , 2011 , 102, 6291-4	11	52
99	Energy Conservation Model Based on Genomic and Experimental Analyses of a Carbon Monoxide-Utilizing, Butyrate-Forming Acetogen, <i>Eubacterium limosum</i> KIST612. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 4782-90	4.8	51
98	Effect of sulfate reduction activity on biological treatment of hexavalent chromium [Cr(VI)] contaminated electroplating wastewater under sulfate-rich condition. <i>Chemosphere</i> , 2007 , 68, 218-26	8.4	50
97	Batch conversion of methane to methanol using <i>Methylosinus trichosporium</i> OB3b as biocatalyst. <i>Journal of Microbiology and Biotechnology</i> , 2015 , 25, 375-80	3.3	50
96	Full-loop operation and cathodic acidification of a microbial fuel cell operated on domestic wastewater. <i>Bioresource Technology</i> , 2011 , 102, 5841-8	11	48
95	Metabolically engineered glucose-utilizing <i>Shewanella</i> strains under anaerobic conditions. <i>Bioresource Technology</i> , 2014 , 154, 59-66	11	46
94	Shift of voltage reversal in stacked microbial fuel cells. <i>Journal of Power Sources</i> , 2015 , 278, 534-539	8.9	46
93	Effect of internal pressure and gas/liquid interface area on the CO mass transfer coefficient using hollow fibre membranes as a high mass transfer gas diffusing system for microbial syngas fermentation. <i>Bioresource Technology</i> , 2014 , 169, 637-643	11	43
92	Comparison of performance and ionic concentration gradient of two-chamber microbial fuel cell using ceramic membrane (CM) and cation exchange membrane (CEM) as separators. <i>Electrochimica Acta</i> , 2018 , 259, 365-376	6.7	42
91	Characterization of uncharged and sulfonated porous poly(vinylidene fluoride) membranes and their performance in microbial fuel cells. <i>Journal of Membrane Science</i> , 2014 , 463, 205-214	9.6	41
90	Study of hydrogen production in light assisted microbial electrolysis cell operated with dye sensitized solar cell. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 9297-9304	6.7	40

89	Controlling Voltage Reversal in Microbial Fuel Cells. <i>Trends in Biotechnology</i> , 2020 , 38, 667-678	15.1	38
88	Floating-type microbial fuel cell (FT-MFC) for treating organic-contaminated water. <i>Environmental Science & Technology</i> , 2009 , 43, 1642-7	10.3	37
87	New architecture for modulization of membraneless and single-chambered microbial fuel cell using a bipolar plate-electrode assembly (BEA). <i>Biosensors and Bioelectronics</i> , 2014 , 59, 28-34	11.8	35
86	Comparative study of the airborne microbial communities and their functional composition in fine particulate matter (PM2.5) under non-extreme and extreme PM2.5 conditions. <i>Atmospheric Environment</i> , 2018 , 194, 82-92	5.3	33
85	Microbial community differences between propionate-fed microbial fuel cell systems under open and closed circuit conditions. <i>Applied Microbiology and Biotechnology</i> , 2011 , 89, 605-12	5.7	30
84	Interface resistances of anion exchange membranes in microbial fuel cells with low ionic strength. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 3266-71	11.8	30
83	Development of anode zone using dual-anode system to reduce organic matter crossover in membraneless microbial fuel cells. <i>Bioresource Technology</i> , 2016 , 213, 140-145	11	29
82	Assistance Current Effect for Prevention of Voltage Reversal in Stacked Microbial Fuel Cell Systems. <i>ChemElectroChem</i> , 2015 , 2, 755-760	4.3	29
81	Electricity generation from synthesis gas by microbial processes: CO fermentation and microbial fuel cell technology. <i>Bioresource Technology</i> , 2009 , 100, 4527-30	11	29
80	Bioelectronic platforms for optimal bio-anode of bio-electrochemical systems: From nano- to macro scopes. <i>Bioresource Technology</i> , 2015 , 195, 2-13	11	28
79	Decadal and seasonal scale changes of an artificial lake environment after blocking tidal flows in the Yeongsan Estuary region, Korea. <i>Science of the Total Environment</i> , 2009 , 407, 6063-72	10.2	27
78	Acetate-assisted increase of butyrate production by <i>Eubacterium limosum</i> KIST612 during carbon monoxide fermentation. <i>Bioresource Technology</i> , 2017 , 245, 560-566	11	26
77	Construction of Uniform Monolayer- and Orientation-Tunable Enzyme Electrode by a Synthetic Glucose Dehydrogenase without Electron-Transfer Subunit via Optimized Site-Specific Gold-Binding Peptide Capable of Direct Electron Transfer. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 28615-28626	9.5	25
76	Voltage increase of microbial fuel cells with multiple membrane electrode assemblies by in series connection. <i>Electrochemistry Communications</i> , 2013 , 28, 131-134	5.1	25
75	Optimization studies of bio-hydrogen production in a coupled microbial electrolysis-dye sensitized solar cell system. <i>Photochemical and Photobiological Sciences</i> , 2010 , 9, 349-56	4.2	25
74	Selection of the most problematic biofoulant in fouled RO membrane and the seawater intake to develop biosensors for membrane biofouling. <i>Desalination</i> , 2009 , 247, 125-136	10.3	25
73	pH-dependent ammonia removal pathways in microbial fuel cell system. <i>Bioresource Technology</i> , 2016 , 215, 290-295	11	25
72	Rapid enrichment of (homo)acetogenic consortia from animal feces using a high mass-transfer gas-lift reactor fed with syngas. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2013 , 40, 995-1003	4.2	24

71	Exploring microbial communities and differences of cartridge filters (CFs) and reverse osmosis (RO) membranes for seawater desalination processes. <i>Desalination</i> , 2012 , 298, 85-92	10.3	24
70	Bubble coalescence suppression driven carbon monoxide (CO)-water mass transfer increase by electrolyte addition in a hollow fiber membrane bioreactor (HFMBR) for microbial CO conversion to ethanol. <i>Bioresource Technology</i> , 2018 , 263, 375-384	11	24
69	Gas-liquid mass transfer coefficient of methane in bubble column reactor. <i>Korean Journal of Chemical Engineering</i> , 2015 , 32, 1060-1063	2.8	22
68	Proof-of-concept experiments of an acid-base junction flow battery by reverse bipolar electro dialysis for an energy conversion system. <i>Electrochemistry Communications</i> , 2016 , 72, 157-161	5.1	22
67	Elimination of Power Overshoot at Bioanode through Assistance Current in Microbial Fuel Cells. <i>ChemSusChem</i> , 2017 , 10, 612-617	8.3	20
66	Nitrilotriacetic acid degradation under microbial fuel cell environment. <i>Biotechnology and Bioengineering</i> , 2006 , 95, 772-4	4.9	20
65	Elimination of voltage reversal in multiple membrane electrode assembly installed microbial fuel cells (mMEA-MFCs) stacking system by resistor control. <i>Bioresource Technology</i> , 2018 , 262, 338-341	11	19
64	Tracking of <i>Shewanella oneidensis</i> MR-1 biofilm formation of a microbial electrochemical system via differential pulse voltammetry. <i>Bioresource Technology</i> , 2018 , 254, 357-361	11	18
63	High performance enzyme fuel cells using a genetically expressed FAD-dependent glucose dehydrogenase β subunit of <i>Burkholderia cepacia</i> immobilized in a carbon nanotube electrode for low glucose conditions. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 9508-12	3.6	17
62	Bioreactors, gas delivery systems and supporting technologies for microbial synthesis gas conversion process. <i>Bioresource Technology Reports</i> , 2019 , 7, 100207	4.1	16
61	Enhanced mass transfer rate of methane in aqueous phase via methyl-functionalized SBA-15. <i>Journal of Molecular Liquids</i> , 2016 , 215, 154-160	6	16
60	Use of red algae, Ceylon moss (<i>Gelidium amansii</i>), hydrolyzate for clostridial fermentation. <i>Biomass and Bioenergy</i> , 2013 , 56, 38-42	5.3	16
59	Complete genome sequencing of <i>Lactobacillus acidophilus</i> 30SC, isolated from swine intestine. <i>Journal of Bacteriology</i> , 2011 , 193, 2882-3	3.5	16
58	Electricity generation coupled to oxidation of propionate in a microbial fuel cell. <i>Biotechnology Letters</i> , 2010 , 32, 79-85	3	16
57	Ammonia Nitrogen Removal and Recovery from Swine Wastewater by Microwave Radiation. <i>Environmental Engineering Research</i> , 2014 , 19, 381-385	3.6	16
56	Performance variation according to anode-embedded orientation in a sediment microbial fuel cell employing a chessboard-like hundred-piece anode. <i>Bioresource Technology</i> , 2015 , 190, 175-81	11	15
55	Multiphase electrode microbial fuel cell system that simultaneously converts organics coexisting in water and sediment phases into electricity. <i>Environmental Science & Technology</i> , 2010 , 44, 7145-50	10.3	15
54	Differential expression of <i>Desulfovibrio vulgaris</i> genes in response to Cu(II) and Hg(II) toxicity. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 1847-51	4.8	15

53	Significance of maximum current for voltage boosting of microbial fuel cells in series. <i>Journal of Power Sources</i> , 2016 , 323, 23-28	8.9	14
52	Determination of optimum electrical connection mode for multi-electrode-embedded microbial fuel cells coupled with anaerobic digester for enhancement of swine wastewater treatment efficiency and energy recovery. <i>Bioresource Technology</i> , 2020 , 297, 122464	11	13
51	Biosensing and electrochemical properties of flavin adenine dinucleotide (FAD)-Dependent glucose dehydrogenase (GDH) fused to a gold binding peptide. <i>Biosensors and Bioelectronics</i> , 2020 , 165, 112427	11.8	12
50	Concurrent Control of Power Overshoot and Voltage Reversal with Series Connection of Parallel-Connected Microbial Fuel Cells. <i>Energy Technology</i> , 2016 , 4, 729-736	3.5	12
49	Intrinsic kinetic parameters of <i>Thermococcus onnurineus</i> NA1 strains and prediction of optimum carbon monoxide level for ideal bioreactor operation. <i>Bioresource Technology</i> , 2016 , 201, 74-9	11	12
48	Enhanced mass transfer rate of methane via hollow fiber membrane modules for <i>Methylosinus trichosporium</i> OB3b fermentation. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 39, 149-152	6.3	12
47	Effects of azide on electron transport of exoelectrogens in air-cathode microbial fuel cells. <i>Bioresource Technology</i> , 2014 , 169, 265-270	11	12
46	Immobilisation of Flavin-Adenine-Dinucleotide-Dependent Glucose Dehydrogenase β Subunit in Free-Standing Graphitised Carbon Nanofiber Paper Using a Bifunctional Cross-Linker for an Enzymatic Biofuel Cell. <i>ChemElectroChem</i> , 2014 , 1, 1844-1848	4.3	12
45	Determination of effects of turbulence flow in a cathode environment on electricity generation using a tidal mud-based cylindrical-type sediment microbial fuel cell. <i>Journal of Environmental Management</i> , 2010 , 91, 2478-82	7.9	12
44	Current Production and Metal Oxide Reduction by <i>Shewanella oneidensis</i> MR-1 Wild Type and Mutants. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 553-553	4.8	12
43	Construction of bacterial artificial chromosome library from electrochemical microorganisms. <i>FEMS Microbiology Letters</i> , 2004 , 238, 65-70	2.9	12
42	Increased Power in Sediment Microbial Fuel Cell: Facilitated Mass Transfer via a Water-Layer Anode Embedded in Sediment. <i>PLoS ONE</i> , 2015 , 10, e0145430	3.7	12
41	Emerging trends in microbial fuel cell diversification-Critical analysis. <i>Bioresource Technology</i> , 2021 , 326, 124676	11	12
40	Self-recoverable voltage reversal in stacked microbial fuel cells due to biofilm capacitance. <i>Bioresource Technology</i> , 2017 , 245, 1286-1289	11	11
39	Power density enhancement of anion-exchange membrane-installed microbial fuel cell under bicarbonate-buffered cathode condition. <i>Journal of Microbiology and Biotechnology</i> , 2013 , 23, 36-9	3.3	11
38	Purification and characterization of complement-activating acidic polysaccharides from the fruits of <i>Capsicum annum</i> . <i>BMB Reports</i> , 2003 , 36, 230-6	5.5	11
37	Significant enhancement of direct electric communication across enzyme-electrode interface via nano-patterning of synthetic glucose dehydrogenase on spatially tunable gold nanoparticle (AuNP)-modified electrode. <i>Biosensors and Bioelectronics</i> , 2019 , 126, 170-177	11.8	11
36	Determination of volumetric gas-liquid mass transfer coefficient of carbon monoxide in a batch cultivation system using kinetic simulations. <i>Bioresource Technology</i> , 2017 , 239, 387-393	11	10

35	Electrical performance of low cost cathodes prepared by plasma sputtering deposition in microbial fuel cells. <i>Biosensors and Bioelectronics</i> , 2012 , 31, 164-9	11.8	10
34	Accurate measurement of internal resistance in microbial fuel cells by improved scanning electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 2021 , 366, 137388	6.7	10
33	Preparation and electrochemical properties of polyaniline nanofibers using ultrasonication. <i>Materials Research Bulletin</i> , 2014 , 58, 213-217	5.1	9
32	Use of an industrial grade medium and medium enhancing effects on high cell density CO fermentation by <i>Eubacterium limosum</i> KIST612. <i>Biotechnology Letters</i> , 2007 , 29, 1183-7	3	9
31	Genetic engineering system for syngas-utilizing acetogen, <i>Eubacterium limosum</i> KIST612. <i>Bioresource Technology Reports</i> , 2020 , 11, 100452	4.1	8
30	Methanol supply speeds up synthesis gas fermentation by methylotrophic-acetogenic bacterium, <i>Eubacterium limosum</i> KIST612. <i>Bioresource Technology</i> , 2021 , 321, 124521	11	7
29	Syngas Fermentation Into Biofuels and Biochemicals 2019 , 301-327		6
28	Microbial fuel cell driven mineral rich wastewater treatment process for circular economy by creating virtuous cycles. <i>Bioresource Technology</i> , 2021 , 320, 124254	11	6
27	Serially Connectable Sediment Microbial Fuel Cells using Dipole Graphite Solids and Voltage Reversal Suppression. <i>Energy Technology</i> , 2017 , 5, 1946-1952	3.5	5
26	Functionalized Polyacrylonitrile Nanofibrous Membranes for Covalent Immobilization of Glucose Oxidase. <i>Journal of Biomedical Nanotechnology</i> , 2015 , 11, 143-9	4	5
25	Current Generation from Microbial Fuel Cell Using Stainless Steel Wire as Anode Electrode. <i>Daehan Hwanlgyeong Gonghag Hoeji</i> , 2014 , 36, 753-757	0.6	5
24	Dissolved carbon monoxide concentration monitoring platform based on direct electrical connection of CO dehydrogenase with electrically accessible surface structure. <i>Bioresource Technology</i> , 2020 , 297, 122436	11	5
23	Fluorescence spectrum-based biofouling prediction method for RO membrane systems. <i>Desalination and Water Treatment</i> , 2012 , 43, 238-245		4
22	Evidence for chimeric sequences formed during random arbitrarily primed PCR. <i>Journal of Microbiological Methods</i> , 2003 , 54, 427-31	2.8	4
21	Effect of the Application of Microbubbles and/or Catalyst on the Sludge Reduction and Organic matter of Livestock Wastewater. <i>Daehan Hwanlgyeong Gonghag Hoeji</i> , 2015 , 37, 558-562	0.6	4
20	Prevention of Power Overshoot and Reduction of Cathodic Overpotential by Increasing Cathode Flow Rate in Microbial Fuel Cells used Stainless Steel Scrubber Electrode. <i>Daehan Hwanlgyeong Gonghag Hoeji</i> , 2017 , 39, 591-598	0.6	4
19	Electrocatalytic and Biosensing Properties of Aerobic Carbon Monoxide Dehydrogenase from <i>Hydrogenophaga Pseudoflava</i> Immobilized on Au Electrode towards Carbon Monoxide Oxidation. <i>Electroanalysis</i> , 2019 , 31, 1635-1640	3	3
18	Fluorescence imaging for biofoulants detection and monitoring of biofouled strength in reverse osmosis membrane. <i>Analytical Methods</i> , 2014 , 6, 993-1000	3.2	3

17	Structural heterogeneity yet high similarity of the microbial community on reverse osmosis membrane-driven biofilms during seawater desalination. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 3066-3079	4.2	3
16	Behavior of CO-water mass transfer coefficient in membrane sparger-integrated bubble column for synthesis gas fermentation. <i>Bioresource Technology</i> , 2020 , 311, 123594	11	2
15	Gas circulation rate and medium exchange ratio as influential factors affecting ethanol production in carbon monoxide fermentation using a packed-bed reactor. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 1963-1973 ²	5.8	2
14	Graphitized-Carbon-Nanofiber Paper-Enzyme Electrode Fabrication Through Non-Covalent Modification for Enzyme Biofuel Cell Application. <i>Journal of Biomedical Nanotechnology</i> , 2015 , 11, 137-42 ⁴	4	2
13	Peptide sequence-driven direct electron transfer properties and binding behaviors of gold-binding peptide-fused glucose dehydrogenase on electrode. <i>IScience</i> , 2021 , 24, 103373	6.1	2
12	A simultaneous gas feeding and cell-recycled reaction (SGCR) system to achieve biomass boosting and high acetate titer in microbial carbon monoxide fermentation. <i>Bioresource Technology</i> , 2020 , 298, 122549	11	2
11	Metabolism perturbation Causedby the overexpression of carbon monoxide dehydrogenase/Acetyl-CoA synthase gene complex accelerated gas to acetate conversion rate of <i>Eubacterium limosum</i> KIST612. <i>Bioresource Technology</i> , 2021 , 341, 125879	11	2
10	Construction of bacterial artificial chromosome library from electrochemical microorganisms. <i>FEMS Microbiology Letters</i> , 2004 , 238, 65-70	2.9	2
9	Control of carbon monoxide dehydrogenase orientation by site-specific immobilization enables direct electrical contact between enzyme cofactor and solid surface.. <i>Communications Biology</i> , 2022 , 5, 390	6.7	2
8	Correlation of Overvoltages and Current Densities to Estimate Optimal Electrode Size for Sediment Microbial Fuel Cells. <i>Energy Technology</i> , 2016 , 4, 369-374	3.5	1
7	Microbial Communities of the Microbial Fuel Cell Using Swine Wastewater in the Enrichment Step with the Lapse of Time. <i>Daehan Hwanlgyeong Gonghag Hoeji</i> , 2013 , 35, 973-977	0.6	1
6	Functional Expression of a Mo-Cu-Dependent Carbon Monoxide Dehydrogenase (CODH) and Its Use as a Dissolved CO Bio-microsensor. <i>ACS Sensors</i> , 2021 , 6, 2772-2782	9.2	1
5	Adhesion potential of bacteria retrieved from intake seawater and membrane biofilms on full-scale reverse osmosis desalination process. <i>Desalination and Water Treatment</i> , 2016 , 57, 26629-26640		1
4	High performance acidBase junction flow batteries using an asymmetric bipolar membrane with an ion-channel aligned anion exchange layer. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 7955-7966	13	1
3	Direct electrical contact of NAD ⁺ /NADH-dependent dehydrogenase on electrode surface enabled by non-native solid-binding peptide as a molecular binder. <i>Electrochimica Acta</i> , 2022 , 421, 140480	6.7	1
2	Gene-Centric Metagenome Analysis Reveals Gene Clusters for Carbon Monoxide Conversion and Validates Isolation of a Clostridial Acetogen for C ₂ Chemical Production. <i>Biotechnology Journal</i> , 2019 , 14, e1800471	5.6	0
1	On Creating Multimedia Interfaces for Hybrid Biological-Digital Art Installations. <i>Lecture Notes in Computer Science</i> , 2020 , 139-150	0.9	