

Chulwhan Park

List of Publications by Year in descending order

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Version: 2024-02-01

156
papers

3,520
citations

126907

33
h-index

223800

46
g-index

157
all docs

157
docs citations

157
times ranked

3981
citing authors

#	ARTICLE	IF	CITATIONS
1	Biodiesel production by a mixture of <i>Candida rugosa</i> and <i>Rhizopus oryzae</i> lipases using a supercritical carbon dioxide process. <i>Bioresource Technology</i> , 2011, 102, 2105-2108.	9.6	102
2	Pretreatment of rice straw with combined process using dilute sulfuric acid and aqueous ammonia. <i>Biotechnology for Biofuels</i> , 2013, 6, 109.	6.2	101
3	Recent Advances in Sustainable Plastic Upcycling and Biopolymers. <i>Biotechnology Journal</i> , 2020, 15, e1900489.	3.5	92
4	Fabrication of electrochemical biosensor consisted of multi-functional DNA structure/porous au nanoparticle for avian influenza virus (H5N1) in chicken serum. <i>Materials Science and Engineering C</i> , 2019, 99, 511-519.	7.3	87
5	Current states and prospects of organic waste utilization for biorefineries. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 49, 335-349.	16.4	85
6	Enzymatic coproduction of biodiesel and glycerol carbonate from soybean oil and dimethyl carbonate. <i>Enzyme and Microbial Technology</i> , 2011, 48, 505-509.	3.2	81
7	Soft, skin-interfaced microfluidic systems with integrated enzymatic assays for measuring the concentration of ammonia and ethanol in sweat. <i>Lab on A Chip</i> , 2020, 20, 84-92.	6.0	67
8	Label-free localized surface plasmon resonance biosensor composed of multi-functional DNA 3 way junction on hollow Au spike-like nanoparticles (HAuSN) for avian influenza virus detection. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 182, 110341.	5.0	56
9	Enzymatic production of glycerol carbonate from by-product after biodiesel manufacturing process. <i>Enzyme and Microbial Technology</i> , 2012, 51, 143-147.	3.2	54
10	Fabrication of electrochemical biosensor composed of multi-functional DNA structure/Au nanoparticle on micro-gap/PCB system for detecting troponin I in human serum. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 175, 343-350.	5.0	54
11	Fabrication of ultrasensitive electrochemical biosensor for dengue fever viral RNA Based on CRISPR/Cpf1 reaction. <i>Sensors and Actuators B: Chemical</i> , 2021, 326, 128677.	7.8	54
12	Enzymatic fuel cells based on electrodeposited graphite oxide/cobalt hydroxide/chitosan compositeâ€“enzyme electrode. <i>Biosensors and Bioelectronics</i> , 2013, 42, 342-348.	10.1	53
13	Biodiesel Production from Various Oils Under Supercritical Fluid Conditions by <i>Candida antarctica</i> Lipase B Using a Stepwise Reaction Method. <i>Applied Biochemistry and Biotechnology</i> , 2009, 156, 24-34.	2.9	51
14	Improved production of bacterial cellulose from waste glycerol through investigation of inhibitory effects of crude glycerol-derived compounds by <i>Gluconacetobacter xylinus</i> . <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 75, 158-163.	5.8	50
15	Biorefinery of instant noodle waste to biofuels. <i>Bioresource Technology</i> , 2014, 159, 17-23.	9.6	49
16	Overexpression of c-type cytochrome, <i>CymA</i> in <i>Shewanella oneidensis</i> MR-1 for enhanced bioelectricity generation and cell growth in a microbial fuel cell. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 2115-2122.	3.2	44
17	Silver Nanowire Networks: Mechano-Electric Properties and Applications. <i>Materials</i> , 2019, 12, 2526.	2.9	43
18	Co-immobilization of <i>Candida rugosa</i> and <i>Rhizopus oryzae</i> lipases and biodiesel production. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 1335-1338.	2.7	42

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19	Repeated batch production of 1,3-propanediol from biodiesel derived waste glycerol by <i>Klebsiella pneumoniae</i> . <i>Chemical Engineering Journal</i> , 2017, 314, 660-669.	12.7	42
20	Enhanced ethanol production from deacetylated yellow poplar acid hydrolysate by <i>Pichia stipitis</i> . <i>Bioresource Technology</i> , 2010, 101, 4947-4951.	9.6	41
21	Biodiesel production by lipases co-immobilized on the functionalized activated carbon. <i>Bioresource Technology Reports</i> , 2019, 7, 100248.	2.7	40
22	Production of bioethanol and biodiesel using instant noodle waste. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 1627-1635.	3.4	39
23	Tolerance of <i>Saccharomyces cerevisiae</i> K35 to lignocellulose-derived inhibitory compounds. <i>Biotechnology and Bioprocess Engineering</i> , 2011, 16, 755-760.	2.6	38
24	Sugar recovery from rice straw by dilute acid pretreatment. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 183-187.	5.8	38
25	Ethanol production from acid hydrolysates based on the construction and demolition wood waste using <i>Pichia stipitis</i> . <i>Bioresource Technology</i> , 2011, 102, 4439-4443.	9.6	37
26	Optimization of medium composition for enhanced cellulase production by mutant <i>Penicillium brasilianum</i> KUEB15 using statistical method. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 25, 145-150.	5.8	37
27	5-Aminolevulinic acid production in engineered <i>Corynebacterium glutamicum</i> via C5 biosynthesis pathway. <i>Enzyme and Microbial Technology</i> , 2015, 81, 1-7.	3.2	36
28	Rapid electrochemical dual-target biosensor composed of an Aptamer/MXene hybrid on Au microgap electrodes for cytokines detection. <i>Biosensors and Bioelectronics</i> , 2022, 207, 114159.	10.1	36
29	Improvement of electrical properties via glucose oxidase-immobilization by actively turning over glucose for an enzyme-based biofuel cell modified with DNA-wrapped single walled nanotubes. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2685-2688.	10.1	35
30	Development of electrochemical biosensor for detection of pathogenic microorganism in Asian dust events. <i>Chemosphere</i> , 2017, 175, 269-274.	8.2	35
31	Enzymatic coproduction of biodiesel and glycerol carbonate from soybean oil in solvent-free system. <i>Enzyme and Microbial Technology</i> , 2013, 53, 154-158.	3.2	34
32	Recent advances in metabolic engineering of <i>Corynebacterium glutamicum</i> as a potential platform microorganism for biorefinery. <i>Biofuels, Bioproducts and Biorefining</i> , 2018, 12, 899-925.	3.7	34
33	Recent Advances in the Metabolic Engineering of <i>Klebsiella pneumoniae</i> : A Potential Platform Microorganism for Biorefineries. <i>Biotechnology and Bioprocess Engineering</i> , 2019, 24, 48-64.	2.6	34
34	Fabrication of MERS-nanovesicle biosensor composed of multi-functional DNA aptamer/graphene-MoS ₂ nanocomposite based on electrochemical and surface-enhanced Raman spectroscopy. <i>Sensors and Actuators B: Chemical</i> , 2022, 352, 131060.	7.8	34
35	Enhancement of glucose yield from canola agricultural residue by alkali pretreatment based on multi-regression models. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 51, 303-311.	5.8	33
36	Enhancement of enzymatic digestibility of <i>Miscanthus</i> by electron beam irradiation and chemical combined treatments for bioethanol production. <i>Chemical Engineering Journal</i> , 2015, 275, 227-234.	12.7	31

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37	An efficient and economical treatment for batik textile wastewater containing high levels of silicate and organic pollutants using a sequential process of acidification, magnesium oxide, and palm shell-based activated carbon application. <i>Journal of Environmental Management</i> , 2016, 184, 229-239.	7.8	31
38	Recent Advances in AIV Biosensors Composed of Nanobio Hybrid Material. <i>Micromachines</i> , 2018, 9, 651.	2.9	31
39	Improved production of 1,3-propanediol from biodiesel-derived crude glycerol by <i>Klebsiella pneumoniae</i> in fed-batch fermentation. <i>Chemical Engineering Journal</i> , 2018, 349, 25-36.	12.7	31
40	Improvement of enzymatic biodiesel production by controlled substrate feeding using silica gel in solvent free system. <i>Enzyme and Microbial Technology</i> , 2011, 49, 402-406.	3.2	30
41	Effect of crude glycerol-derived inhibitors on ethanol production by <i>Enterobacter aerogenes</i> . <i>Bioprocess and Biosystems Engineering</i> , 2012, 35, 85-92.	3.4	30
42	Single walled carbon nanotube based biosensor for detection of peanut allergy-inducing protein ara h1. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 172-178.	2.7	30
43	Fabrication of Troponin I Biosensor Composed of Multi-Functional DNA Structure/Au Nanocrystal Using Electrochemical and Localized Surface Plasmon Resonance Dual-Detection Method. <i>Nanomaterials</i> , 2019, 9, 1000.	4.1	30
44	Phenolic compounds: Strong inhibitors derived from lignocellulosic hydrolysate for 2,3-butanediol production by <i>Enterobacter aerogenes</i> . <i>Biotechnology Journal</i> , 2015, 10, 1920-1928.	3.5	29
45	Granular Mg-Fe layered double hydroxide prepared using dual polymers: Insights into synergistic removal of As(III) and As(V). <i>Journal of Hazardous Materials</i> , 2021, 403, 123883.	12.4	29
46	Fabrication of electrochemical biosensor composed of multi-functional DNA/rhodium nanoplate heterolayer for thyroxine detection in clinical sample. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 195, 111240.	5.0	28
47	A pretreatment-free electrical capacitance biosensor for exosome detection in undiluted serum. <i>Biosensors and Bioelectronics</i> , 2022, 199, 113872.	10.1	28
48	Bioelectrosynthetic Conversion of CO ₂ Using Different Redox Mediators: Electron and Carbon Balances in a Bioelectrochemical System. <i>Energies</i> , 2020, 13, 2572.	3.1	27
49	Enzymatic synthesis of phenethyl ester from phenethyl alcohol with acyl donors. <i>Enzyme and Microbial Technology</i> , 2017, 100, 37-44.	3.2	26
50	Biodiesel production by enzymatic process using <i>Jatropha</i> oil and waste soybean oil. <i>Biotechnology and Bioprocess Engineering</i> , 2013, 18, 703-708.	2.6	25
51	Improvement of lactulose synthesis through optimization of reaction conditions with immobilized β -galactosidase. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 160-165.	2.7	25
52	Improved Cordycepin Production by <i>Cordyceps militaris</i> KYL05 Using Casein Hydrolysate in Submerged Conditions. <i>Biomolecules</i> , 2019, 9, 461.	4.0	25
53	Fabrication of Functional Bioelastomer for Food Packaging from <i>Aronia</i> (<i>Aronia melanocarpa</i>) Juice Processing By-Products. <i>Foods</i> , 2020, 9, 1565.	4.3	25
54	Unique Noncontact Monitoring of Human Respiration and Sweat Evaporation Using a CsPb ₂ Br ₅ -Based Sensor. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5602-5613.	8.0	25

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55	Kinetic modeling of biodiesel production by mixed immobilized and co-immobilized lipase systems under two pressure conditions. Korean Journal of Chemical Engineering, 2013, 30, 1272-1276.	2.7	24
56	Epigallocatechin-3-gallate-mediated Tollip induction through the 67-kDa laminin receptor negatively regulating TLR4 signaling in endothelial cells. Immunobiology, 2014, 219, 866-872.	1.9	24
57	Improved bioethanol production from metabolic engineering of <i>Enterobacter aerogenes</i> ATCC 29007. Process Biochemistry, 2015, 50, 2051-2060.	3.7	24
58	Improved fermentation of lignocellulosic hydrolysates to 2,3-butanediol through investigation of effects of inhibitory compounds by <i>Enterobacter aerogenes</i> . Chemical Engineering Journal, 2016, 306, 916-924.	12.7	24
59	Enzymatic Biodiesel Synthesis in Semi-Pilot Continuous Process in Near-Critical Carbon Dioxide. Applied Biochemistry and Biotechnology, 2013, 171, 1118-1127.	2.9	23
60	Enzymatic Synthesis of Formate Ester through Immobilized Lipase and Its Reuse. Polymers, 2020, 12, 1802.	4.5	23
61	Statistical Optimization of Alkali Pretreatment to Improve Sugars Recovery from Spent Coffee Grounds and Utilization in Lactic Acid Fermentation. Processes, 2021, 9, 494.	2.8	23
62	Biosynthesis of organic photosensitizer Zn-porphyrin by diphtheria toxin repressor (DtxR)-mediated global upregulation of engineered heme biosynthesis pathway in <i>Corynebacterium glutamicum</i> . Scientific Reports, 2018, 8, 14460.	3.3	22
63	Adsorption Strategy for Removal of Harmful Cyanobacterial Species <i>Microcystis aeruginosa</i> Using Chitosan Fiber. Sustainability, 2020, 12, 4587.	3.2	22
64	Metabolic engineering of <i>Enterobacter aerogenes</i> to improve the production of 2,3-butanediol. Biochemical Engineering Journal, 2019, 143, 169-178.	3.6	21
65	Novel and Efficient Synthesis of Phenethyl Formate via Enzymatic Esterification of Formic Acid. Biomolecules, 2020, 10, 70.	4.0	21
66	Enhanced Production of Bacterial Cellulose from <i>Miscanthus</i> as Sustainable Feedstock through Statistical Optimization of Culture Conditions. International Journal of Environmental Research and Public Health, 2022, 19, 866.	2.6	21
67	Strain development and medium optimization for fumaric acid production. Biotechnology and Bioprocess Engineering, 2010, 15, 761-769.	2.6	20
68	Efficient simultaneous production of biodiesel and glycerol carbonate via statistical optimization. Journal of Industrial and Engineering Chemistry, 2017, 51, 49-53.	5.8	20
69	Establishment of a new strategy against <i>Microcystis</i> bloom using newly isolated lytic and toxin-degrading bacteria. Journal of Applied Phycology, 2018, 30, 1795-1806.	2.8	20
70	Assessment of peanut allergen Ara h1 in processed foods using a SWCNTs-based nanobiosensor. Bioscience, Biotechnology and Biochemistry, 2018, 82, 1134-1142.	1.3	20
71	Photothermal Cellulose-Patch with Gold-Spiked Silica Microrods Based on <i>Escherichia coli</i> . ACS Omega, 2018, 3, 5244-5251.	3.5	20
72	Enhanced electron transfer mediator based on biochar from microalgal sludge for application to bioelectrochemical systems. Bioresource Technology, 2018, 264, 387-390.	9.6	20

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73	Efficient and simultaneous cleaner production of biodiesel and glycerol carbonate in solvent-free system via statistical optimization. <i>Journal of Cleaner Production</i> , 2019, 218, 985-992.	9.3	20
74	Fabrication of Electrochemical Influenza Virus (H1N1) Biosensor Composed of Multifunctional DNA Four-Way Junction and Molybdenum Disulfide Hybrid Material. <i>Materials</i> , 2021, 14, 343.	2.9	20
75	Effect of a buffer mixture system on the activity of lipases during immobilization process. <i>Bioresource Technology</i> , 2010, 101, S66-S70.	9.6	19
76	Co-fermentation of carbon sources by <i>Enterobacter aerogenes</i> ATCC 29007 to enhance the production of bioethanol. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 1073-1084.	3.4	19
77	Re-utilization of waste glycerol for continuous production of bioethanol by immobilized <i>Enterobacter aerogenes</i> . <i>Journal of Cleaner Production</i> , 2017, 161, 757-764.	9.3	19
78	Enhanced hydrolysis of lignocellulosic biomass: Multifunctional enzyme complexes expressed in <i>Pichia pastoris</i> improve bioethanol production from <i>Miscanthus sinensis</i> . <i>Biotechnology Journal</i> , 2015, 10, 1912-1919.	3.5	18
79	Production of L-lactic acid from metabolically engineered strain of <i>Enterobacter aerogenes</i> ATCC 29007. <i>Enzyme and Microbial Technology</i> , 2017, 102, 1-8.	3.2	18
80	A stretchable vertically stacked microsupercapacitor with kirigami-bridged island structure: MnO ₂ /graphene/Poly(3,4-ethylenedioxythiophene) nanocomposite electrode through pen lithography. <i>Journal of Power Sources</i> , 2020, 453, 227898.	7.8	18
81	Development of the Troponin Detection System Based on the Nanostructure. <i>Micromachines</i> , 2019, 10, 203.	2.9	17
82	Process design and evaluation of value-added chemicals production from biomass. <i>Biotechnology and Bioprocess Engineering</i> , 2012, 17, 1055-1061.	2.6	16
83	Improved production of bacterial cellulose through investigation of effects of inhibitory compounds from lignocellulosic hydrolysates. <i>GCB Bioenergy</i> , 2021, 13, 436-444.	5.6	16
84	Statistical optimization of medium components for the production of xylanase by <i>Aspergillus niger</i> KK2 in submerged cultivation. <i>Biotechnology and Bioprocess Engineering</i> , 2007, 12, 302-307.	2.6	15
85	Pretreatment of Rice Straw by Proton Beam Irradiation for Efficient Enzyme Digestibility. <i>Applied Biochemistry and Biotechnology</i> , 2011, 164, 1183-1191.	2.9	15
86	Enzymatic production of glycerol acetate from glycerol. <i>Enzyme and Microbial Technology</i> , 2015, 69, 19-23.	3.2	15
87	Enhanced L-Lysine into 1,5-Diaminopentane Conversion via Statistical Optimization of Whole-Cell Decarboxylation System. <i>Polymers</i> , 2019, 11, 1372.	4.5	15
88	Production of Novel Polygalacturonase from <i>Bacillus paralicheniformis</i> CBS32 and Application to Depolymerization of Ramie Fiber. <i>Polymers</i> , 2019, 11, 1525.	4.5	15
89	Changes in Mechanical Properties of Polyhydroxyalkanoate with Double Silanized Cellulose Nanocrystals Using Different Organosiloxanes. <i>Nanomaterials</i> , 2021, 11, 1542.	4.1	15
90	Fabricating a modified biochar-based all-solid-state flexible microsupercapacitor using pen lithography. <i>Journal of Cleaner Production</i> , 2021, 284, 125449.	9.3	14

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91	Energy-efficient glucose recovery from chestnut shell by optimization of NaOH pretreatment at room temperature and application to bioethanol production. <i>Environmental Research</i> , 2022, 208, 112710.	7.5	14
92	Improved high-pressure enzymatic biodiesel batch synthesis in near-critical carbon dioxide. <i>Bioprocess and Biosystems Engineering</i> , 2012, 35, 105-113.	3.4	13
93	Recent Advances in CRP Biosensor Based on Electrical, Electrochemical and Optical Methods. <i>Sensors</i> , 2021, 21, 3024.	3.8	13
94	Fabrication of a surface-enhanced Raman spectroscopy-based analytical method consisting of multifunctional DNA three-way junction-conjugated porous gold nanoparticles and Au-Te nanoworm for C-reactive protein detection. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 3197-3204.	3.7	13
95	Improved Productivity of Naringin Oleate with Flavonoid and Fatty Acid by Efficient Enzymatic Esterification. <i>Antioxidants</i> , 2022, 11, 242.	5.1	13
96	Production and characterization of cellobiose dehydrogenase from <i>Phanerochaete chrysosporium</i> KCCM 60256 and its application for an enzymatic fuel cell. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 3434-3441.	2.7	12
97	Stimulation of 2,3-butanediol production by upregulation of <i>alsR</i> gene transcription level with acetate addition in <i>Enterobacter aerogenes</i> ATCC 29007. <i>Process Biochemistry</i> , 2016, 51, 1904-1910.	3.7	12
98	Eco-design and evaluation for production of 7-aminocephalosporanic acid from carbohydrate wastes discharged after microalgae-based biodiesel production. <i>Journal of Cleaner Production</i> , 2016, 133, 511-517.	9.3	12
99	Process strategy for 2,3-butanediol production in fed-batch culture by acetate addition. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 56, 157-162.	5.8	12
100	Improvement of power generation of enzyme fuel cell by novel GO/Co/chitosan electrodeposition. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 81, 108-114.	5.8	12
101	Hydrogen Production from Methane by <i>Methylobacterium</i> sp. DH-1 under Micro-aerobic Conditions. <i>Biotechnology and Bioprocess Engineering</i> , 2020, 25, 71-77.	2.6	12
102	Supply of proton enhances CO electrosynthesis for acetate and volatile fatty acid productions. <i>Bioresource Technology</i> , 2021, 320, 124245.	9.6	12
103	Enhancement of glucose isomerase activity by pretreatment with substrates prior to immobilization. <i>Korean Journal of Chemical Engineering</i> , 2011, 28, 1096-1100.	2.7	11
104	Development of glycerol-utilizing <i>Escherichia coli</i> strain for the production of bioethanol. <i>Enzyme and Microbial Technology</i> , 2013, 53, 206-215.	3.2	11
105	Enhanced In-Vitro Hemozoin Polymerization by Optimized Process using Histidine-Rich Protein II (HRPII). <i>Polymers</i> , 2019, 11, 1162.	4.5	11
106	High-density BaTiO ₃ –Cu composite films with optimized BaTiO ₃ matrix for embedded capacitors. <i>Ceramics International</i> , 2019, 45, 20634-20641.	4.8	11
107	Power generation from cheese whey using enzymatic fuel cell. <i>Journal of Cleaner Production</i> , 2020, 254, 120181.	9.3	11
108	Improvement of Enzymatic Glucose Conversion from Chestnut Shells through Optimization of KOH Pretreatment. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 3772.	2.6	11

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109	Enhanced free fatty acid production by codon-optimized <i>Lactococcus lactis</i> acyl-ACP thioesterase gene expression in <i>Escherichia coli</i> using crude glycerol. <i>Enzyme and Microbial Technology</i> , 2014, 67, 8-16.	3.2	10
110	Development of Electron Transfer Mediator Using Modified Graphite Oxide/Cobalt for Enzymatic Fuel Cell. <i>Journal of the Electrochemical Society</i> , 2015, 162, G113-G118.	2.9	10
111	Highly conductive and flexible chitosan based multi-wall carbon nanotube/polyurethane composite fibers. <i>RSC Advances</i> , 2016, 6, 2149-2154.	3.6	10
112	Fabrication of Electrochemical-Based Bioelectronic Device and Biosensor Composed of Biomaterial-Nanomaterial Hybrid. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1064, 263-296.	1.6	10
113	Novel and highly efficient lipase-catalyzed esterification of formic acid with hexanol for waste gas reutilization. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 93, 430-435.	5.8	10
114	Recent Trends in Biosensors Based on Electrochemical and Optical Techniques for Cyanobacterial Neurotoxin Detection. <i>Biochip Journal</i> , 2022, 16, 146-157.	4.9	10
115	Development of GO/Co/Chitosan-Based Nano-Biosensor for Real-Time Detection of D-Glucose. <i>Biosensors</i> , 2022, 12, 464.	4.7	10
116	Process design and evaluation of production of bioethanol and β -lactam antibiotic from lignocellulosic biomass. <i>Bioresource Technology</i> , 2014, 172, 194-200.	9.6	9
117	Enhancing Fatty Acid Production of <i>Saccharomyces cerevisiae</i> as an Animal Feed Supplement. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 11029-11035.	5.2	9
118	Improved reutilization of industrial crude lysine to 1,5-diaminopentane by enzymatic decarboxylation using various detergents and organic solvents. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 1854-1859.	2.7	9
119	Continuous production of bioethanol using microalgal sugars extracted from <i>Nannochloropsis gaditana</i> . <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 71-76.	2.7	9
120	Fabrication of an Electrochemical Aptasensor Composed of Multifunctional DNA Three-Way Junction on Au Microgap Electrode for Interferon Gamma Detection in Human Serum. <i>Biomedicines</i> , 2021, 9, 692.	3.2	9
121	Enhanced production of cellobiose dehydrogenase and β -glucosidase by <i>Phanerochaete chrysosporium</i> . <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 77-81.	2.7	8
122	Biomimetic magnetoelectric nanocrystals synthesized by polymerization of heme as advanced nanomaterials for biosensing application. <i>Biosensors and Bioelectronics</i> , 2018, 114, 1-9.	10.1	8
123	Optimization of enzymatic biodiesel synthesis using RSM in high pressure carbon dioxide and its scale up. <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 775-780.	3.4	7
124	The potential of waste microalgal hydrolysate for power generation in enzymatic fuel cell. <i>Journal of Cleaner Production</i> , 2018, 187, 903-909.	9.3	7
125	Fabrication of Bioprobe Self-Assembled on Au@Te Nanoworm Structure for SERS Biosensor. <i>Materials</i> , 2020, 13, 3234.	2.9	7
126	High potential of microalgal sludge biochar for a flexible all-solid-state microsupercapacitor. <i>Journal of Energy Storage</i> , 2021, 44, 103458.	8.1	7

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127	Improving Biosensors by the Use of Different Nanomaterials: Case Study with Microcystins as Target Analytes. <i>Biosensors</i> , 2021, 11, 525.	4.7	7
128	Rapid analysis of barley straw before and after dilute sulfuric acid pretreatment by photoluminescence. <i>Bioresource Technology</i> , 2013, 146, 789-793.	9.6	6
129	Photothermal performance of plasmonic patch with gold nanoparticles embedded on polymer matrix. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 1746-1751.	2.7	6
130	Sonocatalytic reduction of nitrate using magnetic layered double hydroxide: Implications for removal mechanism. <i>Chemosphere</i> , 2019, 218, 799-809.	8.2	6
131	Purification and identification of novel alkaline pectinase PNs31 from <i>Bacillus subtilis</i> CBS31 and its immobilization for bioindustrial applications. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 1942-1950.	2.7	6
132	Aerosol-deposited Al ₂ O ₃ /PTFE hydrophobic coatings with adjustable transparency. <i>Journal of the American Ceramic Society</i> , 2021, 104, 1716-1725.	3.8	6
133	Development of 2,3-Butanediol Production Process from <i>Klebsiella aerogenes</i> ATCC 29007 Using Extracted Sugars of <i>Chlorella pyrenoidosa</i> and Biodiesel-Derived Crude Glycerol. <i>Processes</i> , 2021, 9, 517.	2.8	6
134	Development of Colorimetric Whole-Cell Biosensor for Detection of Heavy Metals in Environment for Public Health. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 12721.	2.6	6
135	Efficient Production of Naringin Acetate with Different Acyl Donors via Enzymatic Transesterification by Lipases. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 2972.	2.6	6
136	Utilization of glycerol as cysteine and carbon sources for cephalosporin C production by <i>Acremonium chrysogenum</i> M35 in methionine-unsupplemented culture. <i>Journal of Biotechnology</i> , 2011, 151, 363-368.	3.8	5
137	Characterization and preparation of bioinspired resorbable conduits for vascular reconstruction. <i>Macromolecular Research</i> , 2016, 24, 371-379.	2.4	5
138	Improved Electrical Characteristics of Gallium Oxide/P-Epi Silicon Carbide Static Induction Transistors with UV/Ozone Treatment Fabricated by RF Sputter. <i>Materials</i> , 2021, 14, 1296.	2.9	5
139	Fabrication of electrochemical biosensor composed of multi-functional DNA 4 way junction for TNF- α detection in human serum. <i>Bioelectrochemistry</i> , 2021, 142, 107939.	4.6	5
140	Synthesis of flower-like manganese oxide for accelerated surface redox reactions on nitrogen-rich graphene of fast charge transport for sustainable aqueous energy storage. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7668-7676.	10.3	5
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