

Sung Bong Kim

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

3,095
citations

201674

27
h-index

189892

50
g-index

52
all docs

52
docs citations

52
times ranked

3793
citing authors

#	ARTICLE	IF	CITATIONS
1	Wireless bioresorbable electronic system enables sustained nonpharmacological neuroregenerative therapy. <i>Nature Medicine</i> , 2018, 24, 1830-1836.	30.7	331
2	Soft, Skin-Integrated Multifunctional Microfluidic Systems for Accurate Colorimetric Analysis of Sweat Biomarkers and Temperature. <i>ACS Sensors</i> , 2019, 4, 379-388.	7.8	239
3	Mechano-acoustic sensing of physiological processes and body motions via a soft wireless device placed at the suprasternal notch. <i>Nature Biomedical Engineering</i> , 2020, 4, 148-158.	22.5	223
4	Thin, Soft, Skin-Mounted Microfluidic Networks with Capillary Bursting Valves for Chrono-Sampling of Sweat. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601355.	7.6	209
5	A fluorometric skin-interfaced microfluidic device and smartphone imaging module for <i>in situ</i> quantitative analysis of sweat chemistry. <i>Lab on A Chip</i> , 2018, 18, 2178-2186.	6.0	166
6	Passive sweat collection and colorimetric analysis of biomarkers relevant to kidney disorders using a soft microfluidic system. <i>Lab on A Chip</i> , 2019, 19, 1545-1555.	6.0	157
7	Development of a neural interface for high-definition, long-term recording in rodents and nonhuman primates. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	145
8	Multimodal Sensing with a Three-Dimensional Piezoresistive Structure. <i>ACS Nano</i> , 2019, 13, 10972-10979.	14.6	134
9	Super-Absorbent Polymer Valves and Colorimetric Chemistries for Time-Sequenced Discrete Sampling and Chloride Analysis of Sweat via Skin-Mounted Soft Microfluidics. <i>Small</i> , 2018, 14, e1703334.	10.0	119
10	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
11	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
12	Natural Wax for Transient Electronics. <i>Advanced Functional Materials</i> , 2018, 28, 1801819.	14.9	90
13	Soft, Skin-Interfaced Microfluidic Systems with Wireless, Battery-Free Electronics for Digital, Real-Time Tracking of Sweat Loss and Electrolyte Composition. <i>Small</i> , 2018, 14, e1802876.	10.0	88
14	Wirelessly controlled, bioresorbable drug delivery device with active valves that exploit electrochemically triggered crevice corrosion. <i>Science Advances</i> , 2020, 6, eabb1093.	10.3	87
15	Soft, skin-interfaced microfluidic systems with integrated immunoassays, fluorometric sensors, and impedance measurement capabilities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 27906-27915.	7.1	84
16	Battery-free, wireless soft sensors for continuous multi-site measurements of pressure and temperature from patients at risk for pressure injuries. <i>Nature Communications</i> , 2021, 12, 5008.	12.8	83
17	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
18	A Bioresorbable Magnetically Coupled System for Low-Frequency Wireless Power Transfer. <i>Advanced Functional Materials</i> , 2019, 29, 1905451.	14.9	58

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19	Dilute acid pretreatment of barley straw and its saccharification and fermentation. <i>Biotechnology and Bioprocess Engineering</i> , 2011, 16, 725-732.	2.6	45
20	Development of Batch and Continuous Processes on Biodiesel Production in a Packed-Bed Reactor by a Mixture of Immobilized <i>Candida rugosa</i> and <i>Rhizopus oryzae</i> Lipases. <i>Applied Biochemistry and Biotechnology</i> , 2010, 161, 365-371.	2.9	43
21	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
22	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
23	Sugar recovery from rice straw by dilute acid pretreatment. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 183-187.	5.8	38
24	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
25	Enhancement of immobilized enzyme activity by pretreatment of β -glucosidase with cellobiose and glucose. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 702-706.	5.8	33
26	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
27	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
28	Lipase from <i>Penicillium camembertii</i> KCCM 11268: Optimization of solid state fermentation and application to biodiesel production. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 405-412.	2.7	25
29	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
30	Kinetic modeling of biodiesel production by mixed immobilized and co-immobilized lipase systems under two pressure conditions. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 1272-1276.	2.7	24
31	Skin-interfaced soft microfluidic systems with modular and reusable electronics for <i>in situ</i> capacitive sensing of sweat loss, rate and conductivity. <i>Lab on A Chip</i> , 2020, 20, 4391-4403.	6.0	23
32	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
33	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
34	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
35	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
36	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

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37	Stimulation of 2,3-butanediol production by upregulation of alsR gene transcription level with acetate addition in <i>Enterobacter aerogenes</i> ATCC 29007. <i>Process Biochemistry</i> , 2016, 51, 1904-1910.	3.7	12
38	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
39	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
40	The hydrolysate of barley straw containing inhibitors can be used to produce cephalosporin C by solvent extraction using ethyl acetate. <i>Process Biochemistry</i> , 2014, 49, 2203-2206.	3.7	9
41	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
42	Furfural production from hydrolysate of barley straw after dilute sulfuric acid pretreatment. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 2280-2284.	2.7	9
43	Immobilization of acetyl xylan esterase on modified graphite oxide and utilization to peracetic acid production. <i>Biotechnology and Bioprocess Engineering</i> , 2014, 19, 1042-1047.	2.6	8
44	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
45	Utilization of hydrolysate from lignocellulosic biomass pretreatment to generate electricity by enzymatic fuel cell system. <i>Enzyme and Microbial Technology</i> , 2016, 85, 32-37.	3.2	6
46	Solution processes for ultrabroadband and omnidirectional graded-index glass lenses with near-zero reflectivity in high concentration photovoltaics. <i>Scientific Reports</i> , 2018, 8, 14907.	3.3	4
47	Microfluidic Networks: Thin, Soft, Skin-Mounted Microfluidic Networks with Capillary Bursting Valves for Chrono-Sampling of Sweat (<i>Adv. Healthcare Mater.</i> 5/2017). <i>Advanced Healthcare Materials</i> , 2017, 6, .	7.6	3
48	Reutilization of carbon sources through sugar recovery from waste rice straw. <i>Renewable Energy</i> , 2013, 53, 43-48.	8.9	2
49	Inhibitory effect of crude glycerol on ethanol production by <i>Enterobacter aerogenes</i> . <i>Journal of Biotechnology</i> , 2010, 150, 160-160.	3.8	0
50	Statistical optimization of critical parameters for alkaline treatments of canola agricultural residue by advanced regression model. <i>New Biotechnology</i> , 2014, 31, S96-S97.	4.4	0