

# Sung-Koo Kim

## List of Publications by Year in descending order

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Version: 2024-02-01

75  
papers

1,789  
citations

304368

22  
h-index

329751

37  
g-index

76  
all docs

76  
docs citations

76  
times ranked

1653  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioethanol Production from <i>Azolla filiculoides</i> by <i>Saccharomyces cerevisiae</i> , <i>Pichia stipitis</i> , <i>Candida lusitanae</i> , and <i>Kluyveromyces marxianus</i> . <i>Applied Biochemistry and Biotechnology</i> , 2021, 193, 502-514.	1.4	7
2	Enhancement of Galactose Uptake from <i>Kappaphycus alvarezii</i> Hydrolysate Using <i>Saccharomyces cerevisiae</i> Through Overexpression of Leloir Pathway Genes. <i>Applied Biochemistry and Biotechnology</i> , 2021, 193, 335-348.	1.4	7
3	Thermochemical conversion of defatted microalgae <i>Scenedesmus obliquus</i> into levulinic and formic acids. <i>Fuel</i> , 2021, 283, 118907.	3.4	20
4	Enhancement of Galactose Uptake from <i>Kappaphycus alvarezii</i> Using <i>Saccharomyces cerevisiae</i> through Deletion of Negative Regulators of GAL Genes. <i>Applied Biochemistry and Biotechnology</i> , 2021, 193, 577-588.	1.4	5
5	Development of the Parental Questionnaire for Cerebral Visual Impairment in Children Younger than		

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19	Optimization of hyper-thermal acid hydrolysis and enzymatic saccharification of <i>Ascophyllum nodosum</i> for ethanol production with mannitol-adapted yeasts. <i>Bioprocess and Biosystems Engineering</i> , 2019, 42, 1255-1262.	1.7	11
20	R-phycoerythrin, R-phycoyanin and ABE production from <i>Gelidium amansii</i> by <i>Clostridium acetobutylicum</i> . <i>Process Biochemistry</i> , 2019, 81, 139-147.	1.8	22
21	Enhancement of galactose consumption rate in <i>Saccharomyces cerevisiae</i> CEN.PK2-1 by CRISPR Cas9 and adaptive evolution for fermentation of <i>Kappaphycus alvarezii</i> hydrolysate. <i>Journal of Biotechnology</i> , 2019, 297, 78-84.	1.9	9
22	Optimization of light intensity and photoperiod for <i>Isochrysis galbana</i> culture to improve the biomass and lipid production using 14-L photobioreactors with mixed light emitting diodes (LEDs) wavelength under two-phase culture system. <i>Bioresource Technology</i> , 2019, 285, 121323.	4.8	29
23	Butanol and butyric acid production from <i>Saccharina japonica</i> by <i>Clostridium acetobutylicum</i> and <i>Clostridium tyrobutyricum</i> with adaptive evolution. <i>Bioprocess and Biosystems Engineering</i> , 2019, 42, 583-592.	1.7	13
24	Detoxification of Hydrolysates of the Red Seaweed <i>Gelidium amansii</i> for Improved Bioethanol Production. <i>Applied Biochemistry and Biotechnology</i> , 2019, 188, 977-990.	1.4	29
25	Application of the Severity Factor and HMF Removal of Red Macroalgae <i>Gracilaria verrucosa</i> to Production of Bioethanol by <i>Pichia stipitis</i> and <i>Kluyveromyces marxianus</i> with Adaptive Evolution. <i>Applied Biochemistry and Biotechnology</i> , 2019, 187, 1312-1327.	1.4	13
26	Acetone, butanol, and ethanol production from the green seaweed <i>Enteromorpha intestinalis</i> via the separate hydrolysis and fermentation. <i>Bioprocess and Biosystems Engineering</i> , 2019, 42, 415-424.	1.7	23
27	Catalytic conversion of glucose into levulinic and formic acids using aqueous Brønsted acid. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 63, 48-56.	2.9	31
28	Valorization of Chitosan as Food Waste of Aquatic Organisms into 5-Hydroxymethylfurfural by Sulfamic Acid-Catalyzed Conversion Process. <i>Energy Technology</i> , 2018, 6, 1747-1754.	1.8	19
29	Acetone-Butanol-Ethanol Production from Waste Seaweed Collected from Gwangalli Beach, Busan, Korea, Based on pH-Controlled and Sequential Fermentation Using Two Strains. <i>Applied Biochemistry and Biotechnology</i> , 2018, 185, 1075-1087.	1.4	22
30	Optimization of the levulinic acid production from the red macroalga, <i>Gracilaria verrucosa</i> using methanesulfonic acid. <i>Algal Research</i> , 2018, 31, 116-121.	2.4	30
31	Efficient conversion of glucosamine to levulinic acid in a sulfamic acid-catalyzed hydrothermal reaction. <i>RSC Advances</i> , 2018, 8, 3198-3205.	1.7	21
32	Effects of light-emitting diode (LED) with a mixture of wavelengths on the growth and lipid content of microalgae. <i>Bioprocess and Biosystems Engineering</i> , 2018, 41, 457-465.	1.7	47
33	Effects of wavelength mixing ratio and photoperiod on microalgal biomass and lipid production in a two-phase culture system using LED illumination. <i>Bioresource Technology</i> , 2018, 253, 175-181.	4.8	60
34	Thermo-chemical conversion for production of levulinic and formic acids from glucosamine. <i>Fuel Processing Technology</i> , 2018, 172, 115-124.	3.7	31
35	Improved fermentation performance to produce bioethanol from <i>Gelidium amansii</i> using <i>Pichia stipitis</i> adapted to galactose. <i>Bioprocess and Biosystems Engineering</i> , 2018, 41, 953-960.	1.7	23
36	Bioethanol Production from Soybean Residue via Separate Hydrolysis and Fermentation. <i>Applied Biochemistry and Biotechnology</i> , 2018, 184, 513-523.	1.4	21

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37	Enhancement of biomass, lipids, and polyunsaturated fatty acid (PUFA) production in <i>Nannochloropsis oceanica</i> with a combination of single wavelength light emitting diodes (LEDs) and low temperature in a three-phase culture system. <i>Bioresource Technology</i> , 2018, 270, 504-511.	4.8	34
38	Valorization of chitosan into levulinic acid by hydrothermal catalytic conversion with methanesulfonic acid. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 1290-1296.	1.2	20
39	Biosugar Production from <i>Gracilaria verrucosa</i> with Sulfamic Acid Pretreatment and Subsequent Enzymatic Hydrolysis. <i>Biotechnology and Bioprocess Engineering</i> , 2018, 23, 302-310.	1.4	24
40	Enhancement of Ethanol Production via Hyper Thermal Acid Hydrolysis and Co-Fermentation Using Waste Seaweed from Gwangalli Beach, Busan, Korea. <i>Journal of Microbiology and Biotechnology</i> , 2018, 28, 401-408.	0.9	7
41	Bioethanol Production Using Waste Seaweed Obtained from Gwangalli Beach, Busan, Korea by Co-culture of Yeasts with Adaptive Evolution. <i>Applied Biochemistry and Biotechnology</i> , 2017, 183, 966-979.	1.4	24
42	Bioethanol production from <i>Gracilaria verrucosa</i> using <i>Saccharomyces cerevisiae</i> adapted to NaCl or galactose. <i>Bioprocess and Biosystems Engineering</i> , 2017, 40, 529-536.	1.7	19
43	Efficient utilization of <i>Eucheuma denticulatum</i> hydrolysates using an activated carbon adsorption process for ethanol production in a 5-L fermentor. <i>Bioprocess and Biosystems Engineering</i> , 2017, 40, 373-381.	1.7	4
44	Hyper-thermal acid hydrolysis and adsorption treatment of red seaweed, <i>Gelidium amansii</i> for butyric acid production with pH control. <i>Bioprocess and Biosystems Engineering</i> , 2017, 40, 403-411.	1.7	15
45	Evaluation of hyper thermal acid hydrolysis of <i>Kappaphycus alvarezii</i> for enhanced bioethanol production. <i>Bioresource Technology</i> , 2016, 209, 66-72.	4.8	25
46	Potential of phosphoric acid-catalyzed pretreatment and subsequent enzymatic hydrolysis for biosugar production from <i>Gracilaria verrucosa</i> . <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 1173-1180.	1.7	11
47	Effects of light-emitting diodes (LEDs) on the accumulation of lipid content using a two-phase culture process with three microalgae. <i>Bioresource Technology</i> , 2016, 212, 254-261.	4.8	96
48	Enhanced biomass production and lipid accumulation of <i>Picochlorum atomus</i> using light-emitting diodes (LEDs). <i>Bioresource Technology</i> , 2016, 218, 1279-1283.	4.8	32
49	Optimization and Evaluation of Sugars and Chemicals Production from Green Macro-algae <i>Enteromorpha intestinalis</i> . <i>Bioenergy Research</i> , 2016, 9, 1155-1166.	2.2	16
50	Evaluation of ethanol production and bioadsorption of heavy metals by various red seaweeds. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 915-923.	1.7	23
51	Production of sugars from macro-algae <i>Gracilaria verrucosa</i> using combined process of citric acid-catalyzed pretreatment and enzymatic hydrolysis. <i>Algal Research</i> , 2016, 13, 293-297.	2.4	41
52	Optimization of the production of platform chemicals and sugars from the red macroalga, <i>Kappaphycus alvarezii</i> . <i>Algal Research</i> , 2016, 13, 303-310.	2.4	32
53	Evaluation of Galactose Adapted Yeasts for Bioethanol Fermentation from <i>Kappaphycus alvarezii</i> Hydrolysates. <i>Journal of Microbiology and Biotechnology</i> , 2016, 26, 1259-1266.	0.9	15
54	Effects of galactose adaptation in yeast for ethanol fermentation from red seaweed, <i>Gracilaria verrucosa</i> . <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 1715-1722.	1.7	22

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55	Application of solid-acid catalyst and marine macro-algae <i>Gracilaria verrucosa</i> to production of fermentable sugars. <i>Bioresource Technology</i> , 2015, 181, 1-6.	4.8	33
56	Enhanced ethanol production by fermentation of <i>Gelidium amansii</i> hydrolysate using a detoxification process and yeasts acclimated to high-salt concentration. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 1201-1207.	1.7	9
57	Conversion of red-algae <i>Gracilaria verrucosa</i> to sugars, levulinic acid and 5-hydroxymethylfurfural. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 207-217.	1.7	77
58	Detoxification of <i>Eucheuma spinosum</i> Hydrolysates with Activated Carbon for Ethanol Production by the Salt-Tolerant Yeast <i>Candida tropicalis</i> . <i>Journal of Microbiology and Biotechnology</i> , 2015, 25, 856-862.	0.9	18
59	Thermal Acid Hydrolysis Pretreatment, Enzymatic Saccharification and Ethanol Fermentation from Red Seaweed, <i>Gracilaria verrucosa</i> . <i>Microbiology and Biotechnology Letters</i> , 2015, 43, 9-15.	0.2	14
60	Bioethanol production from the waste product of salted <i>Undaria pinnatifida</i> using laboratory and pilot development unit (PDU) scale fermenters. <i>Biotechnology and Bioprocess Engineering</i> , 2014, 19, 984-988.	1.4	7
61	Ethanol Production from the Seaweed <i>Gelidium amansii</i> , Using Specific Sugar Acclimated Yeasts. <i>Journal of Microbiology and Biotechnology</i> , 2014, 24, 264-269.	0.9	35
62	Ethanol Production from Red, Brown and Green Seaweeds and Biosorption of Heavy Metals by Waste Seaweed Slurry from Ethanol Production. <i>KSBB Journal</i> , 2014, 29, 414-420.	0.1	4
63	Effect of fermentation inhibitors in the presence and absence of activated charcoal on the growth of <i>Saccharomyces cerevisiae</i> . <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 659-666.	1.7	35
64	Ethanol production from seaweed ( <i>Undaria pinnatifida</i> ) using yeast acclimated to specific sugars. <i>Biotechnology and Bioprocess Engineering</i> , 2013, 18, 533-537.	1.4	36
65	Detoxification of hydrolysate by reactive-extraction for generating biofuels. <i>Biotechnology and Bioprocess Engineering</i> , 2013, 18, 88-93.	1.4	22
66	Enhanced production of heteropolysaccharide-7 by <i>Beijerinckia indica</i> HS-2001 in pilot-scaled bioreactor under optimized conditions involved in dissolved oxygen using sucrose-based medium. <i>Biotechnology and Bioprocess Engineering</i> , 2013, 18, 94-103.	1.4	6
67	Biotransformation of 5-hydroxymethylfurfural (HMF) by <i>Scheffersomyces stipitis</i> during ethanol fermentation of hydrolysate of the seaweed <i>Gelidium amansii</i> . <i>Bioresource Technology</i> , 2013, 140, 421-425.	4.8	82
68	Optimization of pretreatment conditions and use of a two-stage fermentation process for the production of ethanol from seaweed, <i>Saccharina japonica</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2013, 18, 715-720.	1.4	16
69	Bioethanol production from brown seaweed, <i>Undaria pinnatifida</i> , using NaCl acclimated yeast. <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 713-719.	1.7	70
70	Optimization of saccharification and ethanol production by simultaneous saccharification and fermentation (SSF) from seaweed, <i>Saccharina japonica</i> . <i>Bioprocess and Biosystems Engineering</i> , 2012, 35, 11-18.	1.7	175
71	Enhanced production of heteropolysaccharide-7 by <i>Beijerinckia indica</i> HS-2001 in repeated batch culture with optimized substitution of culture medium. <i>Biotechnology and Bioprocess Engineering</i> , 2011, 16, 245-255.	1.4	8
72	High cell density fed-batch fermentation for the production of recombinant <i>E. coli</i> K-12 ghost vaccine against streptococcal disease. <i>Biotechnology and Bioprocess Engineering</i> , 2011, 16, 733-738.	1.4	3

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73	Oil production from five marine microalgae for the production of biodiesel. <i>Biotechnology and Bioprocess Engineering</i> , 2011, 16, 561-566.	1.4	42
74	Encapsulation of rat hepatocyte spheroids for the development of artificial liver. <i>Biotechnology Letters</i> , 1999, 13, 609-614.	0.5	12
75	Effect of LiCl on compression and tension properties of <i>Porphyra perforata</i> tissue. <i>Journal of Applied Phycology</i> , 1996, 8, 247-252.	1.5	0