Sung-Koo Kim

List of Publications by Year
in descending order

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	Optimization of saccharification and ethanol production by simultaneous saccharification and fermentation (SSF) from seaweed, Saccharina japonica. Bioprocess and Biosystems Engineering, 2012, 35, 11-18.	1.7	175
2	Effects of light-emitting diodes (LEDs) on the accumulation of lipid content using a two-phase culture process with three microalgae. Bioresource Technology, 2016, 212, 254-261.	4.8	96
3	Biotransformation of 5-hydroxymethylfurfural (HMF) by Scheffersomyces stipitis during ethanol fermentation of hydrolysate of the seaweed Gelidium amansii. Bioresource Technology, 2013, 140, 421-425.	4.8	82
4	Conversion of red-algae Gracilaria verrucosa to sugars, levulinic acid and 5-hydroxymethylfurfural. Bioprocess and Biosystems Engineering, 2015, 38, 207-217.	1.7	77
5	Bioethanol production from brown seaweed, Undaria pinnatifida, using NaCl acclimated yeast. Bioprocess and Biosystems Engineering, 2013, 36, 713-719.	1.7	70
6	Effects of wavelength mixing ratio and photoperiod on microalgal biomass and lipid production in a two-phase culture system using LED illumination. Bioresource Technology, 2018, 253, 175-181.	4.8	60
7	Effects of light-emitting diode (LED) with a mixture of wavelengths on the growth and lipid content of microalgae. Bioprocess and Biosystems Engineering, 2018, 41, 457-465.	1.7	47
8	Oil production from five marine microalgae for the production of biodiesel. Biotechnology and Bioprocess Engineering, 2011, 16, 561-566.	1.4	42
9	Production of sugars from macro-algae Gracilaria verrucosa using combined process of citric acid-catalyzed pretreatment and enzymatic hydrolysis. Algal Research, 2016, 13, 293-297.	2.4	41
10	Ethanol production from seaweed (Undaria pinnatifida) using yeast acclimated to specific sugars. Biotechnology and Bioprocess Engineering, 2013, 18, 533-537.	1.4	36
11	Effect of fermentation inhibitors in the presence and absence of activated charcoal on the growth of Saccharomyces cerevisiae. Bioprocess and Biosystems Engineering, 2013, 36, 659-666.	1.7	35
12	Ethanol Production from the Seaweed Gelidium amansii, Using Specific Sugar Acclimated Yeasts. Journal of Microbiology and Biotechnology, 2014, 24, 264-269.	0.9	35
13	Enhancement of biomass, lipids, and polyunsaturated fatty acid (PUFA) production in Nannochloropsis oceanica with a combination of single wavelength light emitting diodes (LEDs) and low temperature in a three-phase culture system. Bioresource Technology, 2018, 270, 504-511.	4.8	34
14	Application of solid-acid catalyst and marine macro-algae Gracilaria verrucosa to production of fermentable sugars. Bioresource Technology, 2015, 181, 1-6.	4.8	33
15	Enhanced biomass production and lipid accumulation of Picochlorum atomus using light-emitting diodes (LEDs). Bioresource Technology, 2016, 218, 1279-1283.	4.8	32
16	Optimization of the production of platform chemicals and sugars from the red macroalga, Kappaphycus alvarezii. Algal Research, 2016, 13, 303-310.	2.4	32
17	Catalytic conversion of glucose into levulinic and formic acids using aqueous BrÃ¸nsted acid. Journal of Industrial and Engineering Chemistry, 2018, 63, 48-56.	2.9	31
18	Thermo-chemical conversion for production of levulinic and formic acids from glucosamine. Fuel Processing Technology, 2018, 172, 115-124.	3.7	31

#	Article	IF	Citations
19	Optimization of the levulinic acid production from the red macroalga, Gracilaria verrucosa using methanesulfonic acid. Algal Research, 2018, 31, 116-121.	2.4	30
20	Optimization of light intensity and photoperiod for Isochrysis galbana culture to improve the biomass and lipid production using 14-L photobioreactors with mixed light emitting diodes (LEDs) wavelength under two-phase culture system. Bioresource Technology, 2019, 285, 121323.	4.8	29
21	Detoxification of Hydrolysates of the Red Seaweed Gelidium amansii for Improved Bioethanol Production. Applied Biochemistry and Biotechnology, 2019, 188, 977-990.	1.4	29
22	Evaluation of hyper thermal acid hydrolysis of Kappaphycus alvarezii for enhanced bioethanol production. Bioresource Technology, 2016, 209, 66-72.	4.8	25
23	Lipid and unsaturated fatty acid productions from three microalgae using nitrate and light-emitting diodes with complementary LED wavelength in a two-phase culture system. Bioprocess and Biosystems Engineering, 2019, 42, 1517-1526.	1.7	25
24	Bioethanol Production Using Waste Seaweed Obtained from Gwangalli Beach, Busan, Korea by Co-culture of Yeasts with Adaptive Evolution. Applied Biochemistry and Biotechnology, 2017, 183, 966-979.	1.4	24
25	Biosugar Production from Gracilaria verrucosa with Sulfamic Acid Pretreatment and Subsequent Enzymatic Hydrolysis. Biotechnology and Bioprocess Engineering, 2018, 23, 302-310.	1.4	24
26	Evaluation of ethanol production and bioadsorption of heavy metals by various red seaweeds. Bioprocess and Biosystems Engineering, 2016, 39, 915-923.	1.7	23
27	Improved fermentation performance to produce bioethanol from Gelidium amansii using Pichia stipitis adapted to galactose. Bioprocess and Biosystems Engineering, 2018, 41, 953-960.	1.7	23
28	Acetone, butanol, and ethanol production from the green seaweed Enteromorpha intestinalis via the separate hydrolysis and fermentation. Bioprocess and Biosystems Engineering, 2019, 42, 415-424.	1.7	23
29	Valorization of thermochemical conversion of lipid-extracted microalgae to levulinic acid. Bioresource Technology, 2020, 313, 123684.	4.8	23
30	Detoxification of hydrolysate by reactive-extraction for generating biofuels. Biotechnology and Bioprocess Engineering, 2013, 18, 88-93.	1.4	22
31	Effects of galactose adaptation in yeast for ethanol fermentation from red seaweed, Gracilaria verrucosa. Bioprocess and Biosystems Engineering, 2015, 38, 1715-1722.	1.7	22
32	Acetoneâ€"Butanolâ€"Ethanol Production from Waste Seaweed Collected from Gwangalli Beach, Busan, Korea, Based on pH-Controlled and Sequential Fermentation Using Two Strains. Applied Biochemistry and Biotechnology, 2018, 185, 1075-1087.	1.4	22
33	R-phycoerythrin, R-phycocyanin and ABE production from Gelidium amansii by Clostridium acetobutylicum. Process Biochemistry, 2019, 81, 139-147.	1.8	22
34	Efficient conversion of glucosamine to levulinic acid in a sulfamic acid-catalyzed hydrothermal reaction. RSC Advances, 2018, 8, 3198-3205.	1.7	21
35	Bioethanol Production from Soybean Residue via Separate Hydrolysis and Fermentation. Applied Biochemistry and Biotechnology, 2018, 184, 513-523.	1.4	21
36	Valorization of chitosan into levulinic acid by hydrothermal catalytic conversion with methanesulfonic acid. Korean Journal of Chemical Engineering, 2018, 35, 1290-1296.	1.2	20

#	Article	IF	Citations
37	Thermochemical conversion of defatted microalgae Scenedesmus obliquus into levulinic and formic acids. Fuel, 2021, 283, 118907.	3.4	20
38	Bioethanol production from Gracilaria verrucosa using Saccharomyces cerevisiae adapted to NaCl or galactose. Bioprocess and Biosystems Engineering, 2017, 40, 529-536.	1.7	19
39	Valorization of Chitosan as Food Waste of Aquatic Organisms into 5â€Hydroxymethylfurfural by Sulfamic Acidâ€Catalyzed Conversion Process. Energy Technology, 2018, 6, 1747-1754.	1.8	19
40	Detoxification of Eucheuma spinosum Hydrolysates with Activated Carbon for Ethanol Production by the Salt-Tolerant Yeast Candida tropicalis. Journal of Microbiology and Biotechnology, 2015, 25, 856-862.	0.9	18
41	Optimization of pretreatment conditions and use of a two-stage fermentation process for the production of ethanol from seaweed, Saccharina japonica. Biotechnology and Bioprocess Engineering, 2013, 18, 715-720.	1.4	16
42	Optimization and Evaluation of Sugars and Chemicals Production from Green Macro-algae Enteromorpha intestinalis. Bioenergy Research, 2016, 9, 1155-1166.	2.2	16
43	Hyper-thermal acid hydrolysis and adsorption treatment of red seaweed, Gelidium amansii for butyric acid production with pH control. Bioprocess and Biosystems Engineering, 2017, 40, 403-411.	1.7	15
44	Evaluation of gamma-aminobutyric acid (GABA) production by Lactobacillus plantarum using two-step fermentation. Bioprocess and Biosystems Engineering, 2021, 44, 2099-2108.	1.7	15
45	Evaluation of Galactose Adapted Yeasts for Bioethanol Fermentation from Kappaphycus alvarezii Hydrolyzates. Journal of Microbiology and Biotechnology, 2016, 26, 1259-1266.	0.9	15
46	Thermal Acid Hydrolysis Pretreatment, Enzymatic Saccharification and Ethanol Fermentation from Red Seaweed, Gracilaria verrucosa. Microbiology and Biotechnology Letters, 2015, 43, 9-15.	0.2	14
47	Butanol and butyric acid production from Saccharina japonica by Clostridium acetobutylicum and Clostridium tyrobutyricum with adaptive evolution. Bioprocess and Biosystems Engineering, 2019, 42, 583-592.	1.7	13
48	Application of the Severity Factor and HMF Removal of Red Macroalgae Gracilaria verrucosa to Production of Bioethanol by Pichia stipitis and Kluyveromyces marxianus with Adaptive Evolution. Applied Biochemistry and Biotechnology, 2019, 187, 1312-1327.	1.4	13
49	Encapsulation of rat hepatocyte spheroids for the development of artificial liver. Biotechnology Letters, 1999, 13, 609-614.	0.5	12
50	Ethanol production from water hyacinth (Eichhornia crassipes) hydrolysate by hyper-thermal acid hydrolysis, enzymatic saccharification and yeasts adapted to high concentration of xylose. Bioprocess and Biosystems Engineering, 2019, 42, 1367-1374.	1.7	12
51	Improvement of bioethanol production by Saccharomyces cerevisiae through the deletion of GLK1, MIG1 and MIG2 and overexpression of PGM2 using the red seaweed Gracilaria verrucosa. Process Biochemistry, 2020, 89, 134-145.	1.8	12
52	Potential of phosphoric acid-catalyzed pretreatment and subsequent enzymatic hydrolysis for biosugar production from Gracilaria verrucosa. Bioprocess and Biosystems Engineering, 2016, 39, 1173-1180.	1.7	11
53	Optimization of hyper-thermal acid hydrolysis and enzymatic saccharification of Ascophyllum nodosum for ethanol production with mannitol-adapted yeasts. Bioprocess and Biosystems Engineering, 2019, 42, 1255-1262.	1.7	11
54	Enhanced ethanol production by fermentation of Gelidium amansii hydrolysate using a detoxification process and yeasts acclimated to high-salt concentration. Bioprocess and Biosystems Engineering, 2015, 38, 1201-1207.	1.7	9

#	Article	IF	Citations
55	Enhancement of galactose consumption rate in Saccharomyces cerevisiae CEN.PK2-1 by CRISPR Cas9 and adaptive evolution for fermentation of Kappaphycus alvarezii hydrolysate. Journal of Biotechnology, 2019, 297, 78-84.	1.9	9
56	Enhanced production of heteropolysaccharide-7 by Beijerinckia indica HS-2001 in repeated batch culture with optimized substitution of culture medium. Biotechnology and Bioprocess Engineering, 2011, 16, 245-255.	1.4	8
57	Bioethanol production from the waste product of salted Undaria pinnatifida using laboratory and pilot development unit (PDU) scale fermenters. Biotechnology and Bioprocess Engineering, 2014, 19, 984-988.	1.4	7
58	Enhancement of bioethanol production from Gracilaria verrucosa by Saccharomyces cerevisiae through the overexpression of SNR84 and PGM2. Bioprocess and Biosystems Engineering, 2019, 42, 1421-1433.	1.7	7
59	Efficient conversion of glucosamine to ethyl levulinate catalyzed by methanesulfonic acid. Korean Journal of Chemical Engineering, 2020, 37, 1743-1750.	1.2	7
60	Bioethanol Production from Azolla filiculoides by Saccharomyces cerevisiae, Pichia stipitis, Candida lusitaniae, and Kluyveromyces marxianus. Applied Biochemistry and Biotechnology, 2021, 193, 502-514.	1.4	7
61	Enhancement of Galactose Uptake from Kappaphycus alvarezii Hydrolysate Using Saccharomyces cerevisiae Through Overexpression of Leloir Pathway Genes. Applied Biochemistry and Biotechnology, 2021, 193, 335-348.	1.4	7
62	Enhancement of Ethanol Production via Hyper Thermal Acid Hydrolysis and Co-Fermentation Using Waste Seaweed from Gwangalli Beach, Busan, Korea. Journal of Microbiology and Biotechnology, 2018, 28, 401-408.	0.9	7
63	Enhanced production of heteropolysaccharide-7 by Beijerinckia indica HS-2001 in pilot-scaled bioreactor under optimized conditions involved in dissolved oxygen using sucrose-based medium. Biotechnology and Bioprocess Engineering, 2013, 18, 94-103.	1.4	6
64	Platform chemicals production from lipid-extracted Chlorella vulgaris through an eco-friendly catalyst. Korean Journal of Chemical Engineering, 2021, 38, 997-1005.	1.2	6
65	Enhancement of catabolite regulatory genes in Saccharomyces cerevisiae to increase ethanol production using hydrolysate from red seaweed Gloiopeltis furcata. Journal of Biotechnology, 2021, 333, 1-9.	1.9	6
66	Enhanced Bioethanol Fermentation by Sonication Using Three Yeasts Species and Kariba Weed (Salvinia) Tj ETQq0 0 0 rgBT /Overlock 1(2020, 192, 180-195.	1.4	5
67	Enhancement of Galactose Uptake from Kappaphycus alvarezii Using Saccharomyces cerevisiae through Deletion of Negative Regulators of GAL Genes. Applied Biochemistry and Biotechnology, 2021, 193, 577-588.	1.4	5
68	Development of the Parental Questionnaire for Cerebral Visual Impairment in Children Younger than		

#	Article	IF	Citations
73	Evaluation of 2,3-Butanediol Production from Red Seaweed Gelidium amansii Hydrolysates Using Engineered Saccharomyces cerevisiae. Journal of Microbiology and Biotechnology, 2020, 30, 1912-1918.	0.9	2
74	Bioethanol Production from Gracilaria verrucosa Using <i>Saccharomyces cerevisiae</i> with Adaptive Evolution. Microbiology and Biotechnology Letters, 2021, 49, 88-94.	0.2	1
75	Effect of LiCl on compression and tension properties ofPophyra perforata tissue. Journal of Applied Phycology, 1996, 8, 247-252.	1.5	0