

Gwangtaek Lee

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89
papers

2,108
citations

27
h-index

41
g-index

92
ext. papers

2,485
ext. citations

7.9
avg, IF

5.34
L-index

#	Paper	IF	Citations
89	Cell-wall disruption and lipid/astaxanthin extraction from microalgae: <i>Chlorella</i> and <i>Haematococcus</i> . <i>Bioresource Technology</i> , 2016 , 199, 300-310	11	210
88	Global risk of pharmaceutical contamination from highly populated developing countries. <i>Chemosphere</i> , 2015 , 138, 1045-55	8.4	162
87	Complete genome sequence of the metabolically versatile plant growth-promoting endophyte <i>Variovorax paradoxus</i> S110. <i>Journal of Bacteriology</i> , 2011 , 193, 1183-90	3.5	113
86	Efficient microalgae harvesting by organo-building blocks of nanoclays. <i>Green Chemistry</i> , 2013 , 15, 749	10	72
85	Simultaneous treatment (cell disruption and lipid extraction) of wet microalgae using hydrodynamic cavitation for enhancing the lipid yield. <i>Bioresource Technology</i> , 2015 , 186, 246-251	11	71
84	Microalgae recovery by ultrafiltration using novel fouling-resistant PVDF membranes with in situ PEGylated polyethyleneimine particles. <i>Water Research</i> , 2015 , 73, 181-92	12.5	54
83	Hydrodynamic cavitation as a novel pretreatment approach for bioethanol production from reed. <i>Bioresource Technology</i> , 2015 , 192, 335-9	11	50
82	Hydrodynamic cavitation-assisted alkaline pretreatment as a new approach for sugarcane bagasse biorefineries. <i>Bioresource Technology</i> , 2016 , 214, 609-614	11	46
81	Oil extraction by aminoparticle-based H ₂ O ₂ activation via wet microalgae harvesting. <i>RSC Advances</i> , 2013 , 3, 12802	3.7	44
80	Bicarbonate-based cultivation of <i>Dunaliella salina</i> for enhancing carbon utilization efficiency. <i>Bioresource Technology</i> , 2017 , 237, 72-77	11	38
79	Algal-bacterial process for the simultaneous detoxification of thiocyanate-containing wastewater and maximized lipid production under photoautotrophic/photoheterotrophic conditions. <i>Bioresource Technology</i> , 2014 , 162, 70-9	11	37
78	Effects of ammonium carbonate pretreatment on the enzymatic digestibility and structural features of rice straw. <i>Bioresource Technology</i> , 2014 , 166, 353-7	11	34
77	Evaluation of various harvesting methods for high-density microalgae, <i>Aurantiochytrium</i> sp. KRS101. <i>Bioresource Technology</i> , 2015 , 198, 828-35	11	34
76	Acidified-flocculation process for harvesting of microalgae: Coagulant reutilization and metal-free-microalgae recovery. <i>Bioresource Technology</i> , 2017 , 239, 190-196	11	33
75	Cultivation of <i>Chlorella vulgaris</i> with swine wastewater and potential for algal biodiesel production. <i>Journal of Applied Phycology</i> , 2017 , 29, 1171-1178	3.2	33
74	An integrated process for microalgae harvesting and cell disruption by the use of ferric ions. <i>Bioresource Technology</i> , 2015 , 191, 469-74	11	31
73	Hydrodynamic cavitation as an efficient pretreatment method for lignocellulosic biomass: A parametric study. <i>Bioresource Technology</i> , 2017 , 235, 301-308	11	30

72	Enhanced glucose yield and structural characterization of corn stover by sodium carbonate pretreatment. <i>Bioresource Technology</i> , 2014 , 152, 316-20	11	30
71	A new approach for bioethanol production from sugarcane bagasse using hydrodynamic cavitation assisted-pretreatment and column reactors. <i>Ultrasonics Sonochemistry</i> , 2018 , 43, 219-226	8.9	29
70	Low-pH production of d-lactic acid using newly isolated acid tolerant yeast <i>Pichia kudriavzevii</i> NG7. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 2232-2242	4.9	29
69	Enhancement of growth and lipid production from microalgae using fluorescent paint under the solar radiation. <i>Bioresource Technology</i> , 2014 , 173, 193-197	11	29
68	Feasibility of using a microalgal-bacterial consortium for treatment of toxic coke wastewater with concomitant production of microbial lipids. <i>Bioresource Technology</i> , 2017 , 225, 58-66	11	29
67	Enhancing the light utilization efficiency of microalgae using organic dyes. <i>Bioresource Technology</i> , 2015 , 181, 355-9	11	28
66	Ferric chloride based downstream process for microalgae based biodiesel production. <i>Bioresource Technology</i> , 2015 , 181, 143-7	11	28
65	Electrochemical synthesis of ammonia from water and nitrogen catalyzed by nano-Fe ₂ O ₃ and CoFe ₂ O ₄ suspended in a molten LiCl-KCl-CsCl electrolyte. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 1777-1780	2.8	28
64	Adsorption of Brilliant Green Dye on Biochar Prepared From Lignocellulosic Bioethanol Plant Waste. <i>Clean - Soil, Air, Water</i> , 2016 , 44, 55-62	1.6	28
63	<i>Scenedesmus</i> -based treatment of nitrogen and phosphorus from effluent of anaerobic digester and bio-oil production. <i>Bioresource Technology</i> , 2015 , 196, 235-40	11	27
62	Nitrate reduction on the surface of bimetallic catalysts supported by nano-crystalline beta-zeolite (NBeta). <i>Green Chemistry</i> , 2017 , 19, 853-866	10	26
61	Hydrothermal nitric acid treatment for effectual lipid extraction from wet microalgae biomass. <i>Bioresource Technology</i> , 2014 , 172, 138-142	11	26
60	Biodiesel production from yeast <i>Cryptococcus</i> sp. using Jerusalem artichoke. <i>Bioresource Technology</i> , 2014 , 155, 77-83	11	26
59	Inertial Microfluidics-Based Cell Sorting. <i>Biochip Journal</i> , 2018 , 12, 257-267	4	26
58	Efficient lactulose production from cheese whey using sodium carbonate. <i>Food Chemistry</i> , 2015 , 173, 1167-71	8.5	25
57	Producing desulfurized biogas through removal of sulfate in the first-stage of a two-stage anaerobic digestion. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 970-979	4.9	24
56	Biodiesel production from oleaginous yeast, <i>Cryptococcus</i> sp. by using banana peel as carbon source. <i>Energy Reports</i> , 2019 , 5, 1077-1081	4.6	22
55	Development of Algal Bloom Removal System Using Unmanned Aerial Vehicle and Surface Vehicle. <i>IEEE Access</i> , 2017 , 5, 22166-22176	3.5	21

54	Carbon balance of major volatile fatty acids (VFAs) in recycling algal residue via a VFA-platform for reproduction of algal biomass. <i>Journal of Environmental Management</i> , 2019 , 237, 228-234	7.9	20
53	Microalgae-mediated simultaneous treatment of toxic thiocyanate and production of biodiesel. <i>Bioresource Technology</i> , 2014 , 158, 166-73	11	20
52	A direct ammonium carbonate fuel cell with an anion exchange membrane. <i>RSC Advances</i> , 2014 , 4, 5638	3.7	20
51	Harvesting of microalgae cell using oxidized dye wastewater. <i>Bioresource Technology</i> , 2015 , 192, 802-6	11	20
50	Lipid extraction from microalgae cell using persulfate-based oxidation. <i>Bioresource Technology</i> , 2016 , 200, 1073-5	11	18
49	The use of bicarbonate for microalgae cultivation and its carbon footprint analysis. <i>Green Chemistry</i> , 2019 , 21, 5053-5062	10	18
48	Direct conversion from Jerusalem artichoke to hydroxymethylfurfural (HMF) using the Fenton reaction. <i>Food Chemistry</i> , 2014 , 151, 207-11	8.5	18
47	Microalgae dewatering based on forward osmosis employing proton exchange membrane. <i>Bioresource Technology</i> , 2017 , 244, 57-62	11	18
46	Cultivation of four microalgae species in the effluent of anaerobic digester for biodiesel production. <i>Bioresource Technology</i> , 2017 , 224, 738-742	11	18
45	Persulfate based pretreatment to enhance the enzymatic digestibility of rice straw. <i>Bioresource Technology</i> , 2016 , 222, 523-526	11	18
44	Dramatic improvement of membrane performance for microalgae harvesting with a simple bubble-generator plate. <i>Bioresource Technology</i> , 2015 , 186, 343-347	11	17
43	Hydrothermal-acid treatment for effectual extraction of eicosapentaenoic acid (EPA)-abundant lipids from <i>Nannochloropsis salina</i> . <i>Bioresource Technology</i> , 2015 , 191, 1-6	11	17
42	Gold recovery using porphyrin-based polymer from electronic wastes: Gold desorption and adsorbent regeneration. <i>Science of the Total Environment</i> , 2020 , 704, 135405	10.2	17
41	Immobilization of Carbonic Anhydrase on Modified Electrospun Poly(Lactic Acid) Membranes: Quest for Optimum Biocatalytic Performance. <i>Catalysis Letters</i> , 2015 , 145, 519-526	2.8	16
40	Lactulose production from cheese whey using recyclable catalyst ammonium carbonate. <i>Food Chemistry</i> , 2016 , 197, 664-9	8.5	16
39	Multi-bandgap Solar Energy Conversion via Combination of Microalgal Photosynthesis and Spectrally Selective Photovoltaic Cell. <i>Scientific Reports</i> , 2019 , 9, 18999	4.9	15
38	Simultaneous cell disruption and lipid extraction of wet aurantiochytrium sp. KRS101 using a high shear mixer. <i>Bioprocess and Biosystems Engineering</i> , 2018 , 41, 671-678	3.7	14
37	Gaseous carbon dioxide conversion and calcium carbonate preparation by magnesium phyllosilicate. <i>RSC Advances</i> , 2014 , 4, 4037-4040	3.7	14

36	Harvesting of <i>Scenedesmus obliquus</i> cultivated in seawater using electro-flotation. <i>Korean Journal of Chemical Engineering</i> , 2017 , 34, 62-65	2.8	13
35	Ultrasound-assisted in-situ transesterification of wet <i>Aurantiochytrium</i> sp. KRS 101 using potassium carbonate. <i>Bioresource Technology</i> , 2018 , 261, 117-121	11	12
34	Wavelength shift strategy to enhance lipid productivity of. <i>Biotechnology for Biofuels</i> , 2018 , 11, 70	7.8	12
33	Genome of the Root-Associated Plant Growth-Promoting Bacterium <i>Variovorax paradoxus</i> Strain EPS. <i>Genome Announcements</i> , 2013 , 1,		11
32	Biomimetically Synthesized Hierarchical TiO ₂ -Graphitic Carbon as Anodic Catalysts for Direct Alkaline Sulfide Fuel Cell. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 1764-1770	8.3	10
31	A Low-Foaming and Biodegradable Surfactant as a Soil-Flushing Agent for Diesel-Contaminated Soil. <i>Separation Science and Technology</i> , 2013 , 48, 1872-1880	2.5	10
30	Harvesting of <i>Scenedesmus obliquus</i> using dynamic filtration with a perforated disk. <i>Journal of Membrane Science</i> , 2016 , 517, 14-20	9.6	10
29	Energy-Efficient Reactive Dividing Wall Column for Simultaneous Esterification of n-Amyl Alcohol and n-Hexanol. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 8206-8219	3.9	9
28	Strengthening calcium alginate microspheres using polysulfone and its performance evaluation: Preparation, characterization and application for enhanced biodegradation of chlorpyrifos. <i>Science of the Total Environment</i> , 2018 , 631-632, 1046-1058	10.2	9
27	Enhanced growth rate and lipid production of freshwater microalgae by adopting two-stage cultivation system under diverse light and nutrients conditions. <i>Water and Environment Journal</i> , 2015 , 29, 533-540	1.7	8
26	Electrochemical ammonia accumulation and recovery from ammonia-rich livestock wastewater. <i>Chemosphere</i> , 2021 , 270, 128631	8.4	8
25	Co-production of biodiesel and alginate from <i>Laminaria japonica</i> . <i>Science of the Total Environment</i> , 2019 , 673, 750-755	10.2	7
24	Dynamical Modeling of Water Flux in Forward Osmosis with Multistage Operation and Sensitivity Analysis of Model Parameters. <i>Water (Switzerland)</i> , 2020 , 12, 31	3	7
23	Study of Optical Configurations for Multiple Enhancement of Microalgal Biomass Production. <i>Scientific Reports</i> , 2019 , 9, 1723	4.9	7
22	Utilization of Starch-Enriched Brewery (Rice Wine) Waste for Mixotrophic Cultivation of <i>Ettlia</i> Sp. YC001 Used in Biodiesel Production. <i>Applied Biochemistry and Biotechnology</i> , 2017 , 183, 1478-1487	3.2	6
21	Sulfate reducing bacteria-based wastewater treatment system integrated with sulfide fuel cell for simultaneous wastewater treatment and electricity generation. <i>Chemosphere</i> , 2019 , 233, 570-578	8.4	6
20	Performance of sulfite/FelIIEDTA fuel cell: Power from waste in flue gas desulfurization process. <i>Chemical Engineering Journal</i> , 2019 , 375, 122008	14.7	6
19	Lipid extraction from microalgae cell using UV-Fenton-like reaction. <i>Bioresource Technology</i> , 2015 , 192, 792-4	11	6

18	Alkaline in situ transesterification of Aurantiochytrium sp. KRS 101 using potassium carbonate. <i>Bioresource Technology</i> , 2016 , 205, 250-3	11	6
17	An innovative dual fuel cell to capture and collect pure NO X from flue gases. <i>Journal of Applied Electrochemistry</i> , 2013 , 43, 1011-1016	2.6	6
16	Electro-synthesis of Ammonia from Dilute Nitric Oxide on a Gas Diffusion Electrode. <i>ACS Energy Letters</i> , 958-965	20.1	6
15	Lipid extraction and esterification for microalgae-based biodiesel production using pyrite (FeS ₂). <i>Bioresource Technology</i> , 2015 , 191, 420-5	11	5
14	Draft Genome Sequence of a Multistress-Tolerant Yeast, NG7. <i>Genome Announcements</i> , 2018 , 6,		5
13	Enhancement of Lipid Productivity of Chlorella sp. Using Light-Converting Red Fluorescent Films Based on Aggregation-Induced Emission. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 15888-15897	8.2	5
12	Application of Fe(NO)-based as nitrogen source and coagulant for cultivation and harvesting of Chlorella sorokiniana. <i>Bioresource Technology</i> , 2016 , 222, 374-379	11	5
11	Thiourea-Based Extraction and Deposition of Gold for Electroless Nickel Immersion Gold Process. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 8086-8092	3.9	4
10	Lipid induction of Chlamydomonas reinhardtii CC-124 using bicarbonate ion. <i>Journal of Applied Phycology</i> , 2018 , 30, 271-275	3.2	4
9	Carbon-supported bimetallic PdPt catalysts for alkaline sulfide oxidation in direct alkaline sulfide fuel cell. <i>Journal of Applied Electrochemistry</i> , 2015 , 45, 533-539	2.6	4
8	Inertial Microfluidics-Based Separation of Microalgae Using a Contraction-Expansion Array Microchannel. <i>Micromachines</i> , 2021 , 12,	3.3	4
7	Dynamic filtration with a perforated disk for dewatering of Tetraselmis suecica. <i>Environmental Technology (United Kingdom)</i> , 2017 , 38, 3102-3108	2.6	3
6	Gas-diffusion-electrode based direct electro-stripping system for gaseous ammonia recovery from livestock wastewater. <i>Water Research</i> , 2021 , 196, 117012	12.5	3
5	Nickel (Ni ²⁺) Removal from Water Using Gellan Gum-Band Mixture as a Filter Material. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 7884	2.6	3
4	Resistive Oxidation Kinetics of Iron(II) Thiocholate used as a Nitric Oxide Absorbent in Flue Gas. <i>Energy & Fuels</i> , 2020 , 34, 9940-9947	4.1	1
3	Electrochemical synthesis of ammonia from water and nitrogen: A Fe-mediated approach. <i>Korean Journal of Chemical Engineering</i> , 2021 , 38, 1272-1276	2.8	0
2	Electrochemical pH control and carbon supply for microalgae cultivation. <i>Chemical Engineering Journal</i> , 2021 , 426, 131796	14.7	0
1	Enhancement of Electrochemical Oxidation of Ammonia and Ammonium Carbonate over Pt Black Catalysts through Interaction with Manganese Dioxide Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 14673-14678	3.9	

