Hong Il Choi

List of Publications by Year
in descending order

19	618	686830 13	839053 18
papers	citations	h-index	g-index

19	19	19	747
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multilateral approach on enhancing economic viability of lipid production from microalgae: A review. Bioresource Technology, 2018, 258, 335-344.	4.8	95
2	Performance and potential appraisal of various microalgae as direct combustion fuel. Bioresource Technology, 2019, 273, 341-349.	4.8	75
3	Acidic cultivation of Haematococcus pluvialis for improved astaxanthin production in the presence of a lethal fungus. Bioresource Technology, 2019, 278, 138-144.	4.8	58
4	Microfluidic high-throughput selection of microalgal strains with superior photosynthetic productivity using competitive phototaxis. Scientific Reports, 2016, 6, 21155.	1.6	57
5	Rapid selection of astaxanthin-hyperproducing Haematococcus mutant via azide-based colorimetric assay combined with oil-based astaxanthin extraction. Bioresource Technology, 2018, 267, 175-181.	4.8	39
6	Improved CO2-derived polyhydroxybutyrate (PHB) production by engineering fast-growing cyanobacterium Synechococcus elongatus UTEX 2973 for potential utilization of flue gas. Bioresource Technology, 2021, 327, 124789.	4.8	36
7	Augmented CO2 tolerance by expressing a single H+-pump enables microalgal valorization of industrial flue gas. Nature Communications, 2021, 12, 6049.	5.8	34
8	Magnetophoretic sorting of microdroplets with different microalgal cell densities for rapid isolation of fast growing strains. Scientific Reports, 2017, 7, 10390.	1.6	33
9	Comprehensive approach to improving life-cycle CO2 reduction efficiency of microalgal biorefineries: A review. Bioresource Technology, 2019, 291, 121879.	4.8	31
10	Enhanced biomass and lipid production of Neochloris oleoabundans under high light conditions by anisotropic nature of light-splitting CaCO3 crystal. Bioresource Technology, 2019, 287, 121483.	4.8	29
11	Quantitative analysis of the chemotaxis of a green alga, Chlamydomonas reinhardtii, to bicarbonate using diffusion-based microfluidic device. Biomicrofluidics, 2016, 10, 014121.	1.2	25
12	Sedimentation rate-based screening of oleaginous microalgae for utilization as a direct combustion fuel. Bioresource Technology, 2019, 293, 122045.	4.8	23
13	Concurrent enhancement of CO2 fixation and productivities of omega-3 fatty acids and astaxanthin in Haematococcus pluvialis culture via calcium-mediated homeoviscous adaptation and biomineralization. Bioresource Technology, 2021, 340, 125720.	4.8	23
14	A green decontamination technology through selective biomineralization of algicidal microorganisms for enhanced astaxanthin production from Haematococcus pluvialis at commercial scale. Bioresource Technology, 2021, 332, 125121.	4.8	16
15	Screening of oleaginous algal strains from Chlamydomonas reinhardtii mutant libraries via density gradient centrifugation. Biotechnology and Bioengineering, 2019, 116, 3179-3188.	1.7	13
16	Two-Dimensional Microfluidic System for the Simultaneous Quantitative Analysis of Phototactic/Chemotactic Responses of Microalgae. Analytical Chemistry, 2018, 90, 14029-14038.	3.2	10
17	Reconsidering the potential of direct microalgal biomass utilization as end-products: A review. Renewable and Sustainable Energy Reviews, 2022, 155, 111930.	8.2	10
18	Microalgal fuels: Promising energy reserves for the future. Fuel, 2022, 312, 122841.	3.4	10

#	Article	IF	Citations
19	Microalgal Biorefinery: A Sustainable Technology Toward Circular Bioeconomy and Microalgal Biomass Valorization. , 2021, , 323-350.		1