

Hong Il Choi

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

618
citations

686830

13
h-index

839053

18
g-index

19
all docs

19
docs citations

19
times ranked

747
citing authors

#	ARTICLE	IF	CITATIONS
1	Reconsidering the potential of direct microalgal biomass utilization as end-products: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 155, 111930.	8.2	10
2	Microalgal fuels: Promising energy reserves for the future. <i>Fuel</i> , 2022, 312, 122841.	3.4	10
3	Improved CO ₂ -derived polyhydroxybutyrate (PHB) production by engineering fast-growing cyanobacterium <i>Synechococcus elongatus</i> UTEX 2973 for potential utilization of flue gas. <i>Bioresource Technology</i> , 2021, 327, 124789.	4.8	36
4	A green decontamination technology through selective biomineralization of algicidal microorganisms for enhanced astaxanthin production from <i>Haematococcus pluvialis</i> at commercial scale. <i>Bioresource Technology</i> , 2021, 332, 125121.	4.8	16
5	Concurrent enhancement of CO ₂ fixation and productivities of omega-3 fatty acids and astaxanthin in <i>Haematococcus pluvialis</i> culture via calcium-mediated homeoviscous adaptation and biomineralization. <i>Bioresource Technology</i> , 2021, 340, 125720.	4.8	23
6	Microalgal Biorefinery: A Sustainable Technology Toward Circular Bioeconomy and Microalgal Biomass Valorization. , 2021, , 323-350.		1
7	Augmented CO ₂ tolerance by expressing a single H ⁺ -pump enables microalgal valorization of industrial flue gas. <i>Nature Communications</i> , 2021, 12, 6049.	5.8	34
8	Screening of oleaginous algal strains from <i>Chlamydomonas reinhardtii</i> mutant libraries via density gradient centrifugation. <i>Biotechnology and Bioengineering</i> , 2019, 116, 3179-3188.	1.7	13
9	Comprehensive approach to improving life-cycle CO ₂ reduction efficiency of microalgal biorefineries: A review. <i>Bioresource Technology</i> , 2019, 291, 121879.	4.8	31
10	Sedimentation rate-based screening of oleaginous microalgae for utilization as a direct combustion fuel. <i>Bioresource Technology</i> , 2019, 293, 122045.	4.8	23
11	Acidic cultivation of <i>Haematococcus pluvialis</i> for improved astaxanthin production in the presence of a lethal fungus. <i>Bioresource Technology</i> , 2019, 278, 138-144.	4.8	58
12	Enhanced biomass and lipid production of <i>Neochloris oleoabundans</i> under high light conditions by anisotropic nature of light-splitting CaCO ₃ crystal. <i>Bioresource Technology</i> , 2019, 287, 121483.	4.8	29
13	Performance and potential appraisal of various microalgae as direct combustion fuel. <i>Bioresource Technology</i> , 2019, 273, 341-349.	4.8	75
14	Multilateral approach on enhancing economic viability of lipid production from microalgae: A review. <i>Bioresource Technology</i> , 2018, 258, 335-344.	4.8	95
15	Two-Dimensional Microfluidic System for the Simultaneous Quantitative Analysis of Phototactic/Chemotactic Responses of Microalgae. <i>Analytical Chemistry</i> , 2018, 90, 14029-14038.	3.2	10
16	Rapid selection of astaxanthin-hyperproducing <i>Haematococcus</i> mutant via azide-based colorimetric assay combined with oil-based astaxanthin extraction. <i>Bioresource Technology</i> , 2018, 267, 175-181.	4.8	39
17	Magnetophoretic sorting of microdroplets with different microalgal cell densities for rapid isolation of fast growing strains. <i>Scientific Reports</i> , 2017, 7, 10390.	1.6	33
18	Quantitative analysis of the chemotaxis of a green alga, <i>Chlamydomonas reinhardtii</i> , to bicarbonate using diffusion-based microfluidic device. <i>Biomicrofluidics</i> , 2016, 10, 014121.	1.2	25

#	ARTICLE	IF	CITATIONS
19	Microfluidic high-throughput selection of microalgal strains with superior photosynthetic productivity using competitive phototaxis. Scientific Reports, 2016, 6, 21155.	1.6	57