

Wangbiao Guo

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

596
citations

567144

15
h-index

610775

24
g-index

30
all docs

30
docs citations

30
times ranked

385
citing authors

#	ARTICLE	IF	CITATIONS
1	In-situ high-resolution 3D imaging combined with proteomics and metabolomics reveals enlargement of subcellular architecture and enhancement of photosynthesis pathways in nuclear-irradiated <i>Chlorella pyrenoidosa</i> . <i>Chemical Engineering Journal</i> , 2022, 430, 133037.	6.6	6
2	Orange light spectra filtered through transparent colored polyvinyl chloride sheet enhanced pigment content and growth of <i>Arthrospira</i> cells. <i>Bioresource Technology</i> , 2021, 319, 124179.	4.8	13
3	Developing staggered woven mesh aerator with three variable-micropore layers in recycling water pipeline to enhance CO ₂ conversion for improving <i>Arthrospira</i> growth. <i>Science of the Total Environment</i> , 2021, 760, 143941.	3.9	7
4	SO ₂ Impurity in Simulated Flue Gas with 15% CO ₂ Affects Dynamic Bubble Dissolution and <i>Arthrospira</i> Photosynthetic Growth. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 5580-5589.	3.2	9
5	Developing a three-dimensional tangential swirl plate photobioreactor to enhance mass transfer and flashlight effect for microalgal CO ₂ fixation. <i>Chemical Engineering Science</i> , 2021, 244, 116837.	1.9	12
6	Three-Stage Shear-Serrated Aerator Broke CO ₂ Bubbles To Promote Mass Transfer and Microalgal Growth. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 939-947.	3.2	16
7	Numerical simulation on optimizing flow field and flashing-light effect in jet-aerated tangential swirling-flow plate photobioreactor to improve microalgal growth. <i>Chemical Engineering Science</i> , 2020, 215, 115371.	1.9	16
8	Conversion of Na HCO ₃ to Na ₂ CO ₃ with a growth of <i>Arthrospira platensis</i> cells in 660Åm ² raceway ponds with a CO ₂ bicarbonation absorber. <i>Microbial Biotechnology</i> , 2020, 13, 470-478.	2.0	6
9	Microporous Diaphragm Aerator Improves Flue Gas CO ₂ Dissolution and Photosynthetic Characteristics of <i>Arthrospira</i> Cells in 660 m ² Raceway Ponds. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 11558-11568.	3.2	14
10	Development of a single helical baffle to increase CO ₂ gas and microalgal solution mixing and <i>Chlorella</i> PY-ZU1 biomass yield. <i>Bioresource Technology</i> , 2020, 307, 123253.	4.8	17
11	Improving light distribution and light/dark cycle of 900ÅL tangential spiral-flow column photobioreactors to promote CO ₂ fixation with <i>Arthrospira</i> sp. cells. <i>Science of the Total Environment</i> , 2020, 720, 137611.	3.9	26
12	Improving flashing light frequency and CO ₂ fixation rate with vortex movement of algal cells in raceway pond with conic baffles. <i>Chemical Engineering Science</i> , 2020, 216, 115536.	1.9	13
13	A novel porous nickel-foam filled CO ₂ absorptive photobioreactor system to promote CO ₂ conversion by microalgal biomass. <i>Science of the Total Environment</i> , 2020, 713, 136593.	3.9	15
14	The flagellar motor of <i>Vibrio alginolyticus</i> undergoes major structural remodeling during rotational switching. <i>ELife</i> , 2020, 9, .	2.8	44
15	Three-dimensional numerical simulation of light penetration in an optimized flow field composed of microalgae cells, carbon dioxide bubbles and culture medium. <i>Bioresource Technology</i> , 2019, 292, 121979.	4.8	13
16	Developing a CO ₂ bicarbonation absorber for promoting microalgal growth rates with an improved photosynthesis pathway. <i>RSC Advances</i> , 2019, 9, 2746-2755.	1.7	20
17	A novel jet-aerated tangential swirling-flow plate photobioreactor generates microbubbles that enhance mass transfer and improve microalgal growth. <i>Bioresource Technology</i> , 2019, 288, 121531.	4.8	37
18	Self-rotary propellers with clockwise/counterclockwise blades create spiral flow fields to improve mass transfer and promote microalgae growth. <i>Bioresource Technology</i> , 2019, 286, 121384.	4.8	16

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19	Developing microporous fibrous-diaphragm aerator to decrease bubble generation diameter for improving microalgal growth with CO ₂ fixation in a raceway pond. <i>Bioresource Technology</i> , 2019, 276, 28-34.	4.8	32
20	Promoting helix pitch and trichome length to improve biomass harvesting efficiency and carbon dioxide fixation rate by <i>Spirulina</i> sp. in 660m ² raceway ponds under purified carbon dioxide from a coal chemical flue gas. <i>Bioresource Technology</i> , 2018, 261, 76-85.	4.8	33
21	Serial lantern-shaped draft tube enhanced flashing light effect for improving CO ₂ fixation with microalgae in a gas-lift circumflux column photobioreactor. <i>Bioresource Technology</i> , 2018, 255, 156-162.	4.8	35
22	Alternatively permutated conic baffles generate vortex flow field to improve microalgal productivity in a raceway pond. <i>Bioresource Technology</i> , 2018, 249, 212-218.	4.8	39
23	Reduced generation time and size of carbon dioxide bubbles in a volute aerator for improving <i>Spirulina</i> sp. growth. <i>Bioresource Technology</i> , 2018, 270, 352-358.	4.8	24
24	Numerical simulation on promoting light/dark cycle frequency to improve microalgae growth in photobioreactor with serial lantern-shaped draft tube. <i>Bioresource Technology</i> , 2018, 266, 89-96.	4.8	20
25	Enhancing vorticity magnitude of turbulent flow to promote photochemical efficiency and trichome helix pitch of <i>Arthrospira platensis</i> in a raceway pond with conic baffles. <i>Bioresource Technology</i> , 2018, 269, 1-8.	4.8	20
26	Effect of Temperature on Foaming Ability and Foam Stability of Typical Surfactants Used for Foaming Agent. <i>Journal of Surfactants and Detergents</i> , 2017, 20, 615-622.	1.0	89
27	Butterfly Baffles Enhanced Solution Mixing and Mass Transfer to Improve Microalgae Growth in Double Column Photobioreactor. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0