

El-Sayed Salama

List of Publications by Year in descending order

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73
papers

3,546
citations

126907

33
h-index

144013

57
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73
all docs

73
docs citations

73
times ranked

3400
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress in microalgal biomass production coupled with wastewater treatment for biofuel generation. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 79, 1189-1211.	16.4	367
2	Cultivation of microalgae species in tertiary municipal wastewater supplemented with CO ₂ for nutrient removal and biomass production. <i>Ecological Engineering</i> , 2013, 58, 142-148.	3.6	195
3	Acetoclastic methanogenesis led by <i>Methanosarcina</i> in anaerobic co-digestion of fats, oil and grease for enhanced production of methane. <i>Bioresource Technology</i> , 2019, 272, 351-359.	9.6	191
4	Biomass, lipid content, and fatty acid composition of freshwater <i>Chlamydomonas mexicana</i> and <i>Scenedesmus obliquus</i> grown under salt stress. <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 827-833.	3.4	177
5	Enhancement of microalgae growth and fatty acid content under the influence of phytohormones. <i>Bioresource Technology</i> , 2014, 172, 97-103.	9.6	154
6	Recent trends in anaerobic co-digestion: Fat, oil, and grease (FOG) for enhanced biomethanation. <i>Progress in Energy and Combustion Science</i> , 2019, 70, 22-42.	31.2	137
7	Algae as a green technology for heavy metals removal from various wastewater. <i>World Journal of Microbiology and Biotechnology</i> , 2019, 35, 75.	3.6	124
8	Utilization of waste biomass of <i>Poa pratensis</i> for green synthesis of n-doped carbon dots and its application in detection of Mn ²⁺ and Fe ³⁺ . <i>Chemosphere</i> , 2022, 286, 131764.	8.2	114
9	Cultivation and harvesting of microalgae in photobioreactor for biodiesel production and simultaneous nutrient removal. <i>Energy Conversion and Management</i> , 2016, 117, 54-62.	9.2	101
10	Long-term production of bioethanol in repeated-batch fermentation of microalgal biomass using immobilized <i>Saccharomyces cerevisiae</i> . <i>Bioresource Technology</i> , 2016, 219, 98-105.	9.6	86
11	Microbial Symbiosis: A Network towards Biomethanation. <i>Trends in Microbiology</i> , 2020, 28, 968-984.	7.7	83
12	A complete characterization of microalgal biomass through FTIR/TGA/CHNS analysis: An approach for biofuel generation and nutrients removal. <i>Renewable Energy</i> , 2021, 163, 1973-1982.	8.9	78
13	Whole conversion of microalgal biomass into biofuels through successive high-throughput fermentation. <i>Chemical Engineering Journal</i> , 2019, 360, 797-805.	12.7	74
14	Perspective on anaerobic digestion for biomethanation in cold environments. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 103, 85-95.	16.4	73
15	Cultivation of a new microalga, <i>Micractinium reisseri</i> , in municipal wastewater for nutrient removal, biomass, lipid, and fatty acid production. <i>Biotechnology and Bioprocess Engineering</i> , 2014, 19, 510-518.	2.6	61
16	Microbial acclimatization to lipidic-waste facilitates the efficacy of acidogenic fermentation. <i>Chemical Engineering Journal</i> , 2019, 358, 188-196.	12.7	56
17	Occurrence and Characterization of Paraffin Wax Formed in Developing Wells and Pipelines. <i>Energies</i> , 2019, 12, 967.	3.1	54
18	Enhanced anaerobic co-digestion of fat, oil, and grease by calcium addition: Boost of biomethane production and microbial community shift. <i>Bioresource Technology</i> , 2020, 296, 122353.	9.6	53

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19	Effect of mine wastewater on nutrient removal and lipid production by a green microalga <i>Micratinium reisseri</i> from concentrated municipal wastewater. <i>Bioresource Technology</i> , 2014, 157, 84-90.	9.6	52
20	Long-term exposure of high concentration heavy metals induced toxicity, fatality, and gut microbial dysbiosis in common carp, <i>Cyprinus carpio</i> . <i>Environmental Pollution</i> , 2020, 266, 115293.	7.5	51
21	Enhancement of microalgal growth and biocomponent-based transformations for improved biofuel recovery: A review. <i>Bioresource Technology</i> , 2018, 258, 365-375.	9.6	49
22	Metabolic pathways for microalgal biohydrogen production: Current progress and future perspectives. <i>Bioresource Technology</i> , 2020, 318, 124253.	9.6	48
23	Utilization of Microalgal Biofractions for Bioethanol, Higher Alcohols, and Biodiesel Production: A Review. <i>Energies</i> , 2017, 10, 2110.	3.1	47
24	Highest accumulated microalgal lipids (polar and non-polar) for biodiesel production with advanced wastewater treatment: Role of lipidomics. <i>Bioresource Technology</i> , 2020, 298, 122299.	9.6	44
25	Enhanced ethanol production by <i>Saccharomyces cerevisiae</i> fermentation post acidic and alkali chemical pretreatments of cotton stalk lignocellulose. <i>International Biodeterioration and Biodegradation</i> , 2020, 147, 104869.	3.9	44
26	Determination of the inhibitory concentration level of fat, oil, and grease (FOG) towards bacterial and archaeal communities in anaerobic digestion. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 131, 110032.	16.4	44
27	Interactive effect of indole-3-acetic acid and diethyl aminoethyl hexanoate on the growth and fatty acid content of some microalgae for biodiesel production. <i>Journal of Cleaner Production</i> , 2017, 168, 1017-1024.	9.3	41
28	Identification and characterization of marine seaweeds for biocompounds production. <i>Environmental Technology and Innovation</i> , 2021, 24, 101848.	6.1	40
29	Explication of structural variations in the bacterial and archaeal community of anaerobic digestion sludges: An insight through metagenomics. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105910.	6.7	39
30	Can Omics Approaches Improve Microalgal Biofuels under Abiotic Stress?. <i>Trends in Plant Science</i> , 2019, 24, 611-624.	8.8	38
31	A novel biosensor for zinc detection based on microbial fuel cell system. <i>Biosensors and Bioelectronics</i> , 2020, 147, 111763.	10.1	38
32	Energy-efficient pretreatments for the enhanced conversion of microalgal biomass to biofuels. <i>Bioresource Technology</i> , 2020, 309, 123333.	9.6	36
33	World eutrophic pollution of lake and river: Biotreatment potential and future perspectives. <i>Environmental Technology and Innovation</i> , 2021, 23, 101604.	6.1	36
34	Synergistic ammonia and fatty acids inhibition of microbial communities during slaughterhouse waste digestion for biogas production. <i>Bioresource Technology</i> , 2021, 337, 125383.	9.6	36
35	Co-fermentation of immobilized yeasts boosted bioethanol production from pretreated cotton stalk lignocellulosic biomass: Long-term investigation. <i>Industrial Crops and Products</i> , 2021, 159, 113122.	5.2	34
36	Effect of flue gas CO ₂ on the growth, carbohydrate and fatty acid composition of a green microalga <i>Scenedesmus obliquus</i> for biofuel production. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 101000.	9.6	34

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37	Biocomponent-based microalgal transformations into biofuels during the pretreatment and fermentation process. <i>Bioresource Technology</i> , 2020, 302, 122809.	9.6	33
38	Evaluation of various waste cooking oils for biodiesel production: A comprehensive analysis of feedstock. <i>Waste Management</i> , 2021, 136, 219-229.	7.4	33
39	The effects of salinity on the growth and biochemical properties of <i>Chlamydomonas mexicana</i> cultivated in municipal wastewater. <i>Environmental Technology (United Kingdom)</i> , 2021, 42, 1147-1154.	1.0	10
40	Using <i>Aspergillus niger</i> whole-cell biocatalyst mycelial aerobic granular sludge to treat pharmaceutical wastewater containing β -lactam antibiotics. <i>Chemical Engineering Journal</i> , 2021, 412, 128665.	12.7	30
41	Micro-aeration in anode chamber promotes p-nitrophenol degradation and electricity generation in microbial fuel cell. <i>Bioresource Technology</i> , 2019, 285, 121291.	9.6	28
42	Tibet plateau probiotic mitigates chromate toxicity in mice by alleviating oxidative stress in gut microbiota. <i>Communications Biology</i> , 2020, 3, 242.	4.4	28
43	Improvement of acidogenic fermentation using an acclimatized microbiome. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 22126-22134.	7.1	26
44	Microalgal growth coupled with wastewater treatment in open and closed systems for advanced biofuel generation. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 1939-1958.	4.6	26
45	Two-stage microbial fuel cell (MFC) and membrane bioreactor (MBR) system for enhancing wastewater treatment and resource recovery based on MFC as a biosensor. <i>Environmental Research</i> , 2022, 204, 112089.	7.5	25
46	Microalgae Isolation for Nutrient Removal Assessment and Biodiesel Production. <i>Bioenergy Research</i> , 2020, 13, 1247-1259.	3.9	24
47	Evaluation of animal- and plant-based lipidic waste in anaerobic digestion: kinetics of long-chain fatty acids degradation. <i>Critical Reviews in Biotechnology</i> , 2020, 40, 733-749.	9.0	22
48	Microbial β -oxidation of synthetic long-chain fatty acids to improve lipid biomethanation. <i>Water Research</i> , 2022, 213, 118164.	11.3	22
49	Role of microalgae and cyanobacteria in wastewater treatment: genetic engineering and omics approaches. <i>International Journal of Environmental Science and Technology</i> , 2022, 19, 2173-2194.	3.5	21
50	Application of acid mine drainage for coagulation/flocculation of microalgal biomass. <i>Bioresource Technology</i> , 2015, 186, 232-237.	9.6	20
51	Harvesting of freshwater microalgae <i>Scenedesmus obliquus</i> and <i>Chlorella vulgaris</i> using acid mine drainage as a cost effective flocculant for biofuel production. <i>Energy Conversion and Management</i> , 2016, 121, 105-112.	9.2	20
52	Biomethanation and microbial community response during agricultural biomass and shrimp chaff digestion. <i>Environmental Pollution</i> , 2021, 278, 116801.	7.5	17
53	Improved digestibility and biogas production from lignocellulosic biomass: Biochar addition and microbial response. <i>Industrial Crops and Products</i> , 2021, 171, 113851.	5.2	16
54	Dietary application of <i>Lactococcus lactis</i> alleviates toxicity and regulates gut microbiota in <i>Cyprinus carpio</i> on exposure to heavy metals mixture. <i>Fish and Shellfish Immunology</i> , 2022, 120, 190-201.	3.6	16

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55	Microalga, <i>Acutodesmus obliquus</i> KGE 30 as a potential candidate for CO ₂ mitigation and biodiesel production. <i>Environmental Science and Pollution Research</i> , 2016, 23, 17831-17839.	5.3	15
56	Protein biomethanation: insight into the microbial nexus. <i>Trends in Microbiology</i> , 2022, 30, 69-78.	7.7	15
57	Anaerobic digestion of cabbage and cauliflower biowaste: Impact of iron oxide nanoparticles (IONPs) on biomethane and microbial communities alteration. <i>Bioresource Technology Reports</i> , 2020, 12, 100567.	2.7	14
58	Algae: a frontline photosynthetic organism in the microplastic catastrophe. <i>Trends in Plant Science</i> , 2022, 27, 1159-1172.	8.8	14
59	Efficient utilization and management of seaweed biomass for biogas production. <i>Materials Today Sustainability</i> , 2022, 18, 100120.	4.1	12
60	Potential applications of protein-rich waste: Progress in energy management and material recovery. <i>Resources, Conservation and Recycling</i> , 2022, 182, 106315.	10.8	12
61	Applications of chitin and chitosan as natural biopolymer: potential sources, pretreatments, and degradation pathways. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 4567-4581.	4.6	12
62	Cultivation of Freshwater Microalgae in Wastewater Under High Salinity for Biomass, Nutrients Removal, and Fatty Acids/Biodiesel Production. <i>Waste and Biomass Valorization</i> , 2022, 13, 3245-3254.	3.4	11
63	Biomethane enhancement via plastic carriers in anaerobic co-digestion of agricultural wastes. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 2553-2565.	4.6	9
64	Water condition in biotrickling filtration for the efficient removal of gaseous contaminants. <i>Critical Reviews in Biotechnology</i> , 2021, 41, 1279-1296.	9.0	9
65	Extensive investigation and beyond the removal of micro-polyvinyl chloride by microalgae to promote environmental health. <i>Chemosphere</i> , 2022, 300, 134530.	8.2	9
66	Isolation and screening of <i>Tetrademus dimorphus</i> and <i>Desmodesmus asymmetricus</i> from natural habitats in Northwestern China for clean fuel production and N, P removal. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 1503-1512.	4.6	8
67	Facilitated lignocellulosic biomass digestibility in anaerobic digestion for biomethane production: microbial communities' structure and interactions. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 1798-1817.	3.2	8
68	Pig- and vegetable-cooked waste oils as feedstock for biodiesel, biogas, and biopolymer production. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	4.6	8
69	A <i>Moringa oleifera</i> seeds-based filter for efficient removal of Congo red from aqueous medium. , 0, 206, 371-384.		7
70	Development of an innovative MFC-biosensor for real-time monitoring of anaerobic digestion for biogas production: Controlled substrate feeding strategy. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106703.	6.7	6
71	Potential of Marine Seaweeds for Bioactive Compounds: a Comprehensive Analysis of <i>Padina australis</i> Biomass. <i>Thalassas</i> , 0, , 1.	0.5	5
72	Feed-additive <i>Limosilactobacillus fermentum</i> GR-3 reduces arsenic accumulation in <i>Procambarus clarkii</i> . <i>Ecotoxicology and Environmental Safety</i> , 2022, 231, 113216.	6.0	4

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73	Simultaneous nutrients removal and biodiesel production by green microalgae cultivated in Yellow River water. , 0, 212, 234-243.		3