

# Overview of microalgal extracellular polymeric substances

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Extracellular Metabolites from Industrial Microalgae and Their Biotechnological Potential. <i>Marine Drugs</i> , 2016, 14, 191.	4.6	128
2	Staged cultivation enhances biomass accumulation in the green growth phase of <i>Haematococcus pluvialis</i> . <i>Bioresource Technology</i> , 2017, 233, 326-331.	9.6	53
3	Responses of the Microalga <i>Chlorophyta</i> sp. to Bacterial Quorum Sensing Molecules ( <i>N</i> -Acylhomoserine Lactones): Aromatic Protein-Induced Self-Aggregation. <i>Environmental Science &amp; Technology</i> , 2017, 51, 3490-3498.	10.0	102
4	Potential Anti-proliferative and Immunomodulatory Effects of Marine Microalgal Exopolysaccharide on Various Human Cancer Cells and Lymphocytes In Vitro. <i>Marine Biotechnology</i> , 2017, 19, 136-146.	2.4	41
5	Effect of the micron-sized silica particles (MSSP) on biogas conversion of sewage sludge. <i>Water Research</i> , 2017, 115, 220-228.	11.3	62
6	Biofouling in photobioreactors for marine microalgae. <i>Critical Reviews in Biotechnology</i> , 2017, 37, 1006-1023.	9.0	50
7	The remediation of extremely acidic and moderate pH soil leachates containing Cu (II) and Cd (II) by native periphytic biofilm. <i>Journal of Cleaner Production</i> , 2017, 162, 846-855.	9.3	13
8	Biofilm based attached cultivation technology for microalgal biorefineries—A review. <i>Bioresource Technology</i> , 2017, 244, 1245-1253.	9.6	99
9	Microalgae biomass production for a biorefinery system: Recent advances and the way towards sustainability. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 76, 493-506.	16.4	189
10	Switching cultivation for enhancing biomass and lipid production with extracellular polymeric substance as co-products in <i>Heynigia riparia</i> SX01. <i>Bioresource Technology</i> , 2017, 227, 214-220.	9.6	13
11	GEOCHEMISTRY ARTICLES – October 2016. <i>Organic Geochemistry</i> , 2017, 103, e1-e38.	1.8	0
12	A time-space model for the growth of microalgae biofilms for biofuel production. <i>Journal of Theoretical Biology</i> , 2017, 432, 55-79.	1.7	17
13	Microalgae, old sustainable food and fashion nutraceuticals. <i>Microbial Biotechnology</i> , 2017, 10, 1017-1024.	4.2	272
14	Characterization of extracellular polymeric substance (EPS) fractions produced by <i>Microcystis aeruginosa</i> under the stress of linoleic acid sustained-release microspheres. <i>Environmental Science and Pollution Research</i> , 2017, 24, 21091-21102.	5.3	42
15	The effects of phosphorus limitation on carbon metabolism in diatoms. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2017, 372, 20160406.	4.0	101
16	Enhanced extracellular polysaccharide production and growth by microalga <i>Netrium digitus</i> in a porous substrate bioreactor. <i>Algal Research</i> , 2017, 28, 184-191.	4.6	15
17	Microalgal-bacterial aggregates: Applications and perspectives for wastewater treatment. <i>Biotechnology Advances</i> , 2017, 35, 772-781.	11.7	218
18	Nutrients removal and recovery from saline wastewater by <i>Spirulina platensis</i> . <i>Bioresource Technology</i> , 2017, 245, 10-17.	9.6	67

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19	Optimization of EPS Production and Characterization by a Halophilic Bacterium, <i>Kocuria rosea</i> ZJUQH from Chaka Salt Lake with Response Surface Methodology. <i>Molecules</i> , 2017, 22, 814.	3.8	25
20	Pretreatment of saline antibiotic wastewater using marine microalga. <i>Bioresource Technology</i> , 2018, 258, 240-246.	9.6	47
21	Microalgae as multi-functional options in modern agriculture: current trends, prospects and challenges. <i>Biotechnology Advances</i> , 2018, 36, 1255-1273.	11.7	254
22	Biofloculants from isolated stains: A research update. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 87, 211-215.	5.3	19
23	Comparison of microalgal biomasses as functional food ingredients: Focus on the composition of cell wall related polysaccharides. <i>Algal Research</i> , 2018, 32, 150-161.	4.6	152
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25	Preparation of Immobilized Sulfate-Reducing Bacteria-Microalgae Beads for Effective Bioremediation of Copper-Containing Wastewater. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 1.	2.4	28
26	Benthic diatoms from Potter Cove, 25 de Mayo (King George) Island, Antarctica: Mucilage and glucan storage as a C-source for limpets. <i>Polar Science</i> , 2018, 15, 39-48.	1.2	6
27	Axenic cultures for microalgal biotechnology: Establishment, assessment, maintenance, and applications. <i>Biotechnology Advances</i> , 2018, 36, 380-396.	11.7	64
28	Investigation of composition, structure and bioactivity of extracellular polymeric substances from original and stress-induced strains of <i>Thraustochytrium striatum</i> . <i>Carbohydrate Polymers</i> , 2018, 195, 515-524.	10.2	38
29	UV <sup>†</sup> pre-irradiation to P25 titanium dioxide nanoparticles enhanced its toxicity towards freshwater algae <i>Scenedesmus obliquus</i> . <i>Environmental Science and Pollution Research</i> , 2018, 25, 16729-16742.	5.3	35
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32	Wastewater treatment and membrane fouling with algal-activated sludge culture in a novel membrane bioreactor: Influence of inoculation ratios. <i>Chemical Engineering Journal</i> , 2018, 343, 455-459.	12.7	55
33	Complex role of the polymeric matrix in biological soil crusts. <i>Plant and Soil</i> , 2018, 429, 19-34.	3.7	116
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35	Renewable Sources of Plant Biostimulation: Microalgae as a Sustainable Means to Improve Crop Performance. <i>Frontiers in Plant Science</i> , 2018, 9, 1782.	3.6	184
36	Effects of Medium Composition and Gas Superficial Velocity on Mass Transfer during Microalgae Culturing in a Bubble Column Photobioreactor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 17058-17063.	3.7	2

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37	Enzyme production by a fungoid marine protist, <i>Thraustochytrium striatum</i> . <i>European Journal of Protistology</i> , 2018, 66, 136-148.	1.5	6
38	Graphene oxide-silver nanocomposites modulate biofilm formation and extracellular polymeric substance (EPS) production. <i>Nanoscale</i> , 2018, 10, 19603-19611.	5.6	41
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44	Emulsifying properties of ruptured microalgae cells: Barriers to lipid extraction or promising biosurfactants?. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 170, 438-446.	5.0	28
45	<i>Chlorella zofingiensis</i> as a promising strain in wastewater treatment. <i>Bioresource Technology</i> , 2018, 268, 286-291.	9.6	18
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56	Soil microalgae and cyanobacteria: the biotechnological potential in the maintenance of soil fertility and health. <i>Critical Reviews in Biotechnology</i> , 2019, 39, 981-998.	9.0	98
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68	Development of a Green Downstream Process for the Valorization of <i>Porphyridium cruentum</i> Biomass. <i>Molecules</i> , 2019, 24, 1564.	3.8	37
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72	Terrestrial Microorganisms: Cell Factories of Bioactive Molecules with Skin Protecting Applications. <i>Molecules</i> , 2019, 24, 1836.	3.8	21

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74	Microalgal-bacterial aggregates for wastewater treatment: A mini-review. <i>Bioresource Technology Reports</i> , 2019, 8, 100199.	2.7	29
75	Microalgal extracellular polymeric substances and their interactions with metal(loid)s: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2019, 49, 1769-1802.	12.8	102
76	Facilitated arsenic immobilization by biogenic ferrihydrite-goethite biphasic Fe(III) minerals (Fh-Gt) Tj ETQq1 1 0.784314 rgBT/Overlo 8,2 21		
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90	The effect of extracellular polymeric substances on exogenous highly toxic compounds in biological wastewater treatment: An overview. <i>Bioresource Technology Reports</i> , 2019, 5, 28-42.	2.7	77

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96	Effective valorization of microalgal biomass for the production of nutritional fish-feed supplements. <i>Journal of Cleaner Production</i> , 2020, 243, 118697.	9.3	34
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98	Insights into the toxicity of troclocarban to anaerobic digestion: Sludge characteristics and methane production. <i>Journal of Hazardous Materials</i> , 2020, 385, 121615.	12.4	27
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110	Glycoprotein Prompted Plausible Bactericidal and Antibiofilm Outturn of Extracellular Polymers from <i>Nostoc microscopium</i> . <i>Applied Biochemistry and Biotechnology</i> , 2020, 191, 284-298.	2.9	5
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113	Microalgal Biorefinery. , 2020, , 163-185.		8
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117	Emerging investigator series: quaternary treatment with algae-assisted oxidation for antibiotics removal and refractory organics degradation in livestock wastewater effluent. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 3262-3275.	2.4	12
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137	Metabolomic modulations in a freshwater microbial community exposed to the fungicide azoxystrobin. <i>Journal of Environmental Sciences</i> , 2020, 97, 102-109.	6.1	9
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141	Heuristic Optimization of Culture Conditions for Stimulating Hyper-Accumulation of Biomass and Lipid in <i>Golenkinia</i> SDEC-16. <i>Energies</i> , 2020, 13, 964.	3.1	4
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143	<i>Chlorella vulgaris</i> $\alpha$ -L-arabino- $\alpha$ -L-rhamno- $\beta$ -D-galactan structure and mechanisms of its anti-inflammatory and anti-remodelling effects. <i>International Journal of Biological Macromolecules</i> , 2020, 162, 188-198.	7.5	16
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