

# Mohamed Gomaa

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

874  
citations

566801

15  
h-index

552369

26  
g-index

26  
all docs

26  
docs citations

26  
times ranked

851  
citing authors

#	ARTICLE	IF	CITATIONS
1	Industrial optimization of fucoidan extraction from <i>Sargassum</i> sp. and its potential antioxidant and emulsifying activities. <i>Food Hydrocolloids</i> , 2016, 54, 77-88.	5.6	140
2	Optimization of alginate alkaline extraction technology from <i>Sargassum latifolium</i> and its potential antioxidant and emulsifying properties. <i>Carbohydrate Polymers</i> , 2017, 157, 1903-1912.	5.1	104
3	Technology optimization of chitosan production from <i>Aspergillus niger</i> biomass and its functional activities. <i>Food Hydrocolloids</i> , 2017, 63, 593-601.	5.6	80
4	Use of seaweed and filamentous fungus derived polysaccharides in the development of alginate-chitosan edible films containing fucoidan: Study of moisture sorption, polyphenol release and antioxidant properties. <i>Food Hydrocolloids</i> , 2018, 82, 239-247.	5.6	70
5	Use of the brown seaweed <i>Sargassum latifolium</i> in the design of alginate-fucoidan based films with natural antioxidant properties and kinetic modeling of moisture sorption and polyphenolic release. <i>Food Hydrocolloids</i> , 2018, 82, 64-72.	5.6	69
6	Upgrading the antioxidant properties of fucoidan and alginate from <i>Cystoseira trinodis</i> by fungal fermentation or enzymatic pretreatment of the seaweed biomass. <i>Food Chemistry</i> , 2018, 269, 387-395.	4.2	56
7	Use of algal biorefinery waste and waste office paper in the development of xerogels: A low cost and eco-friendly biosorbent for the effective removal of congo red and Fe (II) from aqueous solutions. <i>Journal of Environmental Management</i> , 2020, 262, 110380.	3.8	46
8	Low-cost biosorption of Methylene Blue and Congo Red from single and binary systems using <i>Sargassum latifolium</i> biorefinery waste/wastepaper xerogel: an optimization and modeling study. <i>Journal of Applied Phycology</i> , 2021, 33, 675-691.	1.5	34
9	Optimization of production and intrinsic viscosity of an exopolysaccharide from a high yielding <i>Virgibacillus salarius</i> BM02: Study of its potential antioxidant, emulsifying properties and application in the mixotrophic cultivation of <i>Spirulina platensis</i> . <i>International Journal of Biological Macromolecules</i> , 2020, 149, 552-561.	3.6	30
10	Spatio-temporal, environmental factors, and host identity shape culturable-epibiotic fungi of seaweeds in the Red Sea, Egypt. <i>Hydrobiologia</i> , 2014, 740, 37-49.	1.0	27
11	Pretreated fucoidan and alginate from a brown seaweed as a substantial carbon source for promoting biomass, lipid, biochemical constituents and biodiesel quality of <i>Dunaliella salina</i> . <i>Renewable Energy</i> , 2020, 157, 246-255.	4.3	27
12	Biodegradation of <i>Palisada perforata</i> (Rhodophyceae) and <i>Sargassum</i> sp. (Phaeophyceae) biomass by crude enzyme preparations from algicolous fungi. <i>Journal of Applied Phycology</i> , 2015, 27, 2395-2404.	1.5	24
13	Phycotoxicity of antibiotics and non-steroidal anti-inflammatory drugs to green algae <i>Chlorella</i> sp. and <i>Desmodesmus spinosus</i> : Assessment of combined toxicity by Boxâ€Behnken experimental design. <i>Environmental Technology and Innovation</i> , 2021, 23, 101586.	3.0	21
14	Utilization of cellulose and ulvan from the green seaweed <i>Ulva lactuca</i> in the development of composite edible films with natural antioxidant properties. <i>Journal of Applied Phycology</i> , 2022, 34, 2615-2626.	1.5	18
15	Spatio temporal and environmental factors influencing macroalgal $\hat{\iota}^2$ diversity in the Red Sea, Egypt. <i>Botanica Marina</i> , 2014, 57, 99-110.	0.6	16
16	Statistical Optimization of Culture Variables for Enhancing Agarase Production by <i>Dendryphiella arenaria</i> Utilizing <i>Palisada perforata</i> (Rhodophyta) and Enzymatic Saccharification of the Macroalgal Biomass. <i>Marine Biotechnology</i> , 2017, 19, 592-600.	1.1	14
17	Environmental risk analysis of pharmaceuticals on freshwater phytoplankton assemblage: effects on alpha, beta, and taxonomic diversity. <i>Environmental Science and Pollution Research</i> , 2021, 28, 9954-9964.	2.7	14
18	Optimization of citric acid treatment for the sequential extraction of fucoidan and alginate from <i>Sargassum latifolium</i> and their potential antioxidant and Fe(III) chelation properties. <i>Journal of Applied Phycology</i> , 2021, 33, 2523-2535.	1.5	14

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19	Biosorption of ketoprofen and diclofenac by living cells of the green microalgae <i>Chlorella</i> sp.. <i>Environmental Science and Pollution Research</i> , 2021, 28, 69242-69252.	2.7	14
20	Optimization of enzymatic saccharification of fucoidan and alginate from brown seaweed using fucoidanase and alginate lyase from the marine fungus <i>Dendryphiella arenaria</i> . <i>Journal of Applied Phycology</i> , 2019, 31, 1955-1965.	1.5	13
21	Optimizing a Low-Cost Production Process of Crude Fucoidanase by <i>Dendryphiella arenaria</i> Utilizing <i>Cystoseira trinodis</i> (Phaeophyceae) and Enzymatic Hydrolysis of the Brown Algal Biomass. <i>Waste and Biomass Valorization</i> , 2019, 10, 2773-2781.	1.8	10
22	Enhancement of microalgal biomass, lipid production and biodiesel characteristics by mixotrophic cultivation using enzymatically hydrolyzed chitin waste. <i>Biomass and Bioenergy</i> , 2021, 154, 106251.	2.9	10
23	In Vitro Comparative Evaluation of Antioxidant Activity of Hydrophobic and Hydrophilic Extracts from Algicolous Fungi. <i>Journal of Aquatic Food Product Technology</i> , 2017, 26, 124-131.	0.6	7
24	Fungal Agarase Production in a Cost-Effective Macroalgal Based Medium and Enzymatic Hydrolysis of the Alkali Extracted Macroalgal Biomass: An Optimization Study. <i>Waste and Biomass Valorization</i> , 2020, 11, 255-264.	1.8	7
25	In depth investigation of the retention behavior of structurally related $\beta$ -blockers on RP-HPLC column: Quality by design and quantitative structure-property relationship complementary approaches for optimization and validation. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2021, 1166, 122549.	1.2	5
26	Industrial optimization of alkaline and bleaching conditions for cellulose extraction from the marine seaweed <i>Ulva lactuca</i> . <i>Journal of Applied Phycology</i> , 2021, 33, 4093-4103.	1.5	4