

Guillaume Pierre

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2355990/guillaume-pierre-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73
papers

1,646
citations

23
h-index

39
g-index

78
ext. papers

2,109
ext. citations

5.6
avg, IF

4.92
L-index

#	Paper	IF	Citations
73	Production, extraction and characterization of microalgal and cyanobacterial exopolysaccharides. <i>Biotechnology Advances</i> , 2016 , 34, 1159-1179	17.8	216
72	Chitosan as an adhesive. <i>European Polymer Journal</i> , 2014 , 60, 198-212	5.2	144
71	TEMPO-mediated oxidation of polysaccharides: An ongoing story. <i>Carbohydrate Polymers</i> , 2017 , 165, 71-85	10.3	88
70	Structural characterization and antioxidant activity of water-soluble polysaccharides from the Tunisian brown seaweed <i>Cystoseira compressa</i> . <i>Carbohydrate Polymers</i> , 2018 , 198, 589-600	10.3	73
69	Antibacterial activity of a sulfated galactan extracted from the marine alga <i>Chaetomorpha aerea</i> against <i>Staphylococcus aureus</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2011 , 16, 937-945	3.1	68
68	Influence of culture medium recycling on the performance of <i>Arthrospira platensis</i> cultures. <i>Algal Research</i> , 2015 , 10, 48-54	5	55
67	Modification of Chitosan for the Generation of Functional Derivatives. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1321	2.6	49
66	Seasonal dynamics of extracellular polymeric substances (EPS) in surface sediments of a diatom-dominated intertidal mudflat (Marennes-Oléon, France). <i>Journal of Sea Research</i> , 2014 , 92, 26-35	1.9	48
65	New horizons in culture and valorization of red microalgae. <i>Biotechnology Advances</i> , 2019 , 37, 193-222	17.8	48
64	Bioactive Polysaccharides from Seaweeds. <i>Molecules</i> , 2020 , 25,	4.8	45
63	Extraction, characterization and gelling behavior enhancement of pectins from the cladodes of <i>Opuntia ficus indica</i> . <i>International Journal of Biological Macromolecules</i> , 2016 , 82, 645-52	7.9	43
62	Harvesting carbohydrate-rich <i>Arthrospira platensis</i> by spontaneous settling. <i>Bioresource Technology</i> , 2015 , 180, 16-21	11	37
61	What Is in Store for EPS Microalgae in the Next Decade?. <i>Molecules</i> , 2019 , 24,	4.8	35
60	Biochemical composition and changes of extracellular polysaccharides (ECPS) produced during microphytobenthic biofilm development (Marennes-Oléon, France). <i>Microbial Ecology</i> , 2012 , 63, 157-69	4.4	33
59	Structural characterization and rheological behavior of a heteroxylan extracted from <i>Plantago notata</i> Lagasca (Plantaginaceae) seeds. <i>Carbohydrate Polymers</i> , 2017 , 175, 96-104	10.3	33
58	Marine Bacteria versus Microalgae: Who Is the Best for Biotechnological Production of Bioactive Compounds with Antioxidant Properties and Other Biological Applications?. <i>Marine Drugs</i> , 2019 , 18,	6	29
57	Characterization and rheological behaviour analysis of the succinoglycan produced by <i>Rhizobium radiobacter</i> strain CAS from curd sample. <i>Food Hydrocolloids</i> , 2017 , 64, 1-8	10.6	28

56	Valorization of carob waste: Definition of a second-generation bioethanol production process. <i>Bioresource Technology</i> , 2017 , 235, 25-34	11	25
55	Dextranase immobilization on epoxy CIM(□) disk for the production of isomaltooligosaccharides from dextran. <i>Carbohydrate Polymers</i> , 2014 , 111, 707-13	10.3	25
54	Enzymatic degradation and bioactivity evaluation of C-6 oxidized chitosan. <i>International Journal of Biological Macromolecules</i> , 2013 , 60, 383-92	7.9	24
53	High-performance hydrolysis of wheat straw using cellulase and thermomechanical pretreatment. <i>Process Biochemistry</i> , 2011 , 46, 2194-2200	4.8	24
52	Rheological investigations of water-soluble polysaccharides from the Tunisian brown seaweed <i>Cystoseira compressa</i> . <i>Food Hydrocolloids</i> , 2020 , 103, 105631	10.6	24
51	Structural characterization of water-soluble polysaccharides from <i>Nitraria retusa</i> fruits and their antioxidant and hypolipidemic activities. <i>International Journal of Biological Macromolecules</i> , 2019 , 129, 422-432	7.9	23
50	Use of Anionic Polysaccharides in the Development of 3D Bioprinting Technology. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2596	2.6	23
49	Evaluation of thermomechanical pretreatment for enzymatic hydrolysis of pure microcrystalline cellulose and cellulose from Brewers spent grain. <i>Journal of Cereal Science</i> , 2011 , 54, 305-310	3.8	23
48	Use of Alginate Extracted from Moroccan Brown Algae to Stimulate Natural Defense in Date Palm Roots. <i>Molecules</i> , 2020 , 25,	4.8	22
47	Production, characterization and biological activities of exopolysaccharides from a new cold-adapted yeast: <i>Rhodotorula mucilaginosa</i> sp. GUMS16. <i>International Journal of Biological Macromolecules</i> , 2020 , 151, 268-277	7.9	21
46	Bioactivity of Chitosan and Its Derivatives. <i>Current Organic Chemistry</i> , 2018 , 22, 641-667	1.7	20
45	Mediterranean semi-arid plant <i>Astragalus armatus</i> as a source of bioactive galactomannan. <i>Bioactive Carbohydrates and Dietary Fibre</i> , 2015 , 5, 10-18	3.4	19
44	Exopolysaccharides from Cyanobacteria: Strategies for Bioprocess Development. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3763	2.6	19
43	Marine diatom <i>Navicula jeffreyi</i> from biochemical composition and physico-chemical surface properties to understanding the first step of benthic biofilm formation. <i>Journal of Adhesion Science and Technology</i> , 2014 , 28, 1739-1753	2	19
42	Structural Characterization and Biological Activities of Polysaccharides from Olive Mill Wastewater. <i>Applied Biochemistry and Biotechnology</i> , 2015 , 177, 431-45	3.2	18
41	Structural characterization and thermal behavior of a gum extracted from <i>Ferula assa foetida</i> L. <i>Carbohydrate Polymers</i> , 2018 , 181, 426-432	10.3	18
40	Biochemical characterization of extracellular polymeric substances extracted from an intertidal mudflat using a cation exchange resin. <i>Biochemical Systematics and Ecology</i> , 2010 , 38, 917-923	1.4	17
39	Biosourced Polysaccharide-Based Superabsorbents. <i>Polysaccharides</i> , 2020 , 1, 51-79	3	16

38	Prebiotic Activity of Poly- and Oligosaccharides Obtained from <i>Plantago major</i> L. Leaves. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2648	2.6	13
37	Induction of Natural Defenses in Tomato Seedlings by Using Alginate and Oligoalginates Derivatives Extracted from Moroccan Brown Algae. <i>Marine Drugs</i> , 2020 , 18,	6	13
36	Structural features and rheological behavior of a water-soluble polysaccharide extracted from the seeds of <i>Plantago ciliata</i> Desf. <i>International Journal of Biological Macromolecules</i> , 2020 , 155, 1333-1341	7.9	12
35	Edifying the strategy for the finest extraction of succinoglycan from <i>Rhizobium radiobacter</i> strain CAS. <i>Applied Biological Chemistry</i> , 2017 , 60, 339-348	2.9	11
34	Rheological and functional properties of asafoetida gum. <i>International Journal of Biological Macromolecules</i> , 2018 , 118, 1168-1173	7.9	11
33	Extraction, Characterization, and Applications of Pectins from Plant By-Products. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6596	2.6	11
32	Emulsion properties of Asafoetida gum: Effect of oil concentration on stability and rheological properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 560, 114-121	5.1	11
31	Physical and functional characterization of succinoglycan exopolysaccharide produced by <i>Rhizobium radiobacter</i> CAS from curd sample. <i>International Journal of Biological Macromolecules</i> , 2019 , 134, 1013-1021	7.9	10
30	Novel Antioxidant, Anti- α -Amylase, Anti-Inflammatory and Antinociceptive Water-Soluble Polysaccharides from the Aerial Part of. <i>Foods</i> , 2019 , 9,	4.9	9
29	Optimized endodextranase-epoxy CIM disk reactor for the continuous production of molecular weight-controlled prebiotic isomalto-oligosaccharides. <i>Process Biochemistry</i> , 2017 , 58, 105-113	4.8	8
28	Structural Features and Rheological Properties of a Sulfated Xylogalactan-Rich Fraction Isolated from Tunisian Red Seaweed <i>Jania adhaerens</i> . <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1655	2.6	7
27	Applications of Algal Polysaccharides and Derivatives in Therapeutic and Agricultural Fields. <i>Current Pharmaceutical Design</i> , 2019 , 25, 1187-1199	3.3	7
26	Characterization and Prospective Applications of the Exopolysaccharides Produced by. <i>Advanced Pharmaceutical Bulletin</i> , 2020 , 10, 254-263	4.5	7
25	Radical Depolymerization of Alginate Extracted from Moroccan Brown Seaweed <i>Bifurcaria bifurcata</i> . <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4166	2.6	6
24	Bioactive polysaccharides from microalgae 2020 , 533-571		6
23	Quality Characteristics and Functional and Antioxidant Capacities of Algae-Fortified Fish Burgers Prepared from Common Barbel (<i>C. barbata</i>). <i>BioMed Research International</i> , 2019 , 2019, 2907542	3	5
22	Development of phenol-grafted polyglucuronic acid and its application to extrusion-based bioprinting inks. <i>Carbohydrate Polymers</i> , 2022 , 277, 118820	10.3	4
21	+ Displays Variable Susceptibility to Chitosan Treatment in Wine. <i>Frontiers in Microbiology</i> , 2020 , 11, 571067	9.7	4

20	Influence of Physicochemical Characteristics of Neem Seeds (A. Juss) on Biodiesel Production. <i>Biomolecules</i> , 2020 , 10,	5.9	4
19	Biomolecules from Microalgae and Cyanobacteria: Applications and Market Survey. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 1924	2.6	4
18	Polysaccharides and Their Derivatives as Potential Antiviral Molecules.. <i>Viruses</i> , 2022 , 14,	6.2	4
17	Innovation in Tigernut (L.) Milk Production: In Situ Hydrolysis of Starch. <i>Polymers</i> , 2020 , 12,	4.5	3
16	Lipase hydration state in the gas phase: sorption isotherm measurements and inverse gas chromatography. <i>Biotechnology Journal</i> , 2010 , 5, 1216-25	5.6	3
15	Microalgal Biomass of Industrial Interest: Methods of Characterization 2020 , 537-639		3
14	Pharmacological Investigations in Traditional Utilization of Medik. in Saharan Algeria: In Vitro Study of Anti-Inflammatory and Antihyperglycemic Activities of Water-Soluble Polysaccharides Extracted from the Seeds.. <i>Plants</i> , 2021 , 10,	4.5	3
13	Inverse Gas Chromatography with Film Cell Unit: An Attractive Alternative Method to Characterize Surface Properties of Thin Films. <i>Journal of Chromatographic Science</i> , 2015 , 53, 1233-8	1.4	2
12	Fucoidans of Moroccan Brown Seaweed as Elicitors of Natural Defenses in Date Palm Roots. <i>Marine Drugs</i> , 2020 , 18,	6	2
11	Fabrication Methods of Sustainable Hydrogels 2019 , 355-386		2
10	Biochemical Characterization of a Bifunctional Enzyme Constructed by the Fusion of a Glucuronan Lyase and a Chitinase from sp. <i>Life</i> , 2020 , 10,	3	2
9	A Novel Sulfated Glycoprotein Elicitor Extracted from the Moroccan Green Seaweed <i>Codium decortatum</i> Induces Natural Defenses in Tomato. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 3643	2.6	2
8	Induction of Defense Gene Expression and the Resistance of Date Palm to f. sp. in Response to Alginate Extracted from .. <i>Marine Drugs</i> , 2022 , 20,	6	1
7	Polysaccharides and Derivatives from Africa to Address and Advance Sustainable Development and Economic Growth in the Next Decade. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 5243	2.6	1
6	Spatiotemporal variation of extracellular polymeric substances (EPS) associated with the microphytobenthos of tidal flats in the Yellow Sea. <i>Marine Pollution Bulletin</i> , 2021 , 171, 112780	6.7	1
5	Galactans and Its Applications 2015 , 753-794		0
4	An alternative method for the determination of polysaccharide cleavage enzymes activities. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015 , 116, 166-172		
3	Food biotechnology: Innovations and challenges 2022 , 697-719		

- 2 Beneficial Health Potential of Algerian Polysaccharides Extracted from *Plantago ciliata* Desf. (Septentrional Sahara) Leaves and Seeds. *Applied Sciences (Switzerland)*, **2021**, 11, 4299 2.6
- 1 Ethnobotanical utilization of *Alhagi maurorum* Medik. in traditional recipes of Algerian Sahara Illizi Wilaya. *Euro-Mediterranean Journal for Environmental Integration*, **2021**, 6, 1 1.7