

Guillaume Pierre

List of Publications by Year in descending order

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76
papers

2,687
citations

185998

28
h-index

197535

49
g-index

78
all docs

78
docs citations

78
times ranked

3273
citing authors

#	ARTICLE	IF	CITATIONS
1	Production, extraction and characterization of microalgal and cyanobacterial exopolysaccharides. <i>Biotechnology Advances</i> , 2016, 34, 1159-1179.	6.0	310
2	Chitosan as an adhesive. <i>European Polymer Journal</i> , 2014, 60, 198-212.	2.6	193
3	TEMPO-mediated oxidation of polysaccharides: An ongoing story. <i>Carbohydrate Polymers</i> , 2017, 165, 71-85.	5.1	122
4	Bioactive Polysaccharides from Seaweeds. <i>Molecules</i> , 2020, 25, 3152.	1.7	106
5	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.	5.1	105
6	Modification of Chitosan for the Generation of Functional Derivatives. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1321.	1.3	102
7	New horizons in culture and valorization of red microalgae. <i>Biotechnology Advances</i> , 2019, 37, 193-222.	6.0	85
8	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.	1.4	77
9	Influence of culture medium recycling on the performance of <i>Arthrospira platensis</i> cultures. <i>Algal Research</i> , 2015, 10, 48-54.	2.4	74
10	Seasonal dynamics of extracellular polymeric substances (EPS) in surface sediments of a diatom-dominated intertidal mudflat (Marennes-Oléron, France). <i>Journal of Sea Research</i> , 2014, 92, 26-35.	0.6	64
11	What Is in Store for EPS Microalgae in the Next Decade?. <i>Molecules</i> , 2019, 24, 4296.	1.7	64
12	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, 645-652.	3.6	57
13	Extraction, Characterization, and Applications of Pectins from Plant By-Products. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6596.	1.3	57
14	Biomolecules from Microalgae and Cyanobacteria: Applications and Market Survey. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 1924.	1.3	56
15	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> , 2020, 18, 28.	2.2	54
16	Exopolysaccharides from Cyanobacteria: Strategies for Bioprocess Development. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3763.	1.3	52
17	Rheological investigations of water-soluble polysaccharides from the Tunisian brown seaweed <i>Cystoseira compressa</i> . <i>Food Hydrocolloids</i> , 2020, 103, 105631.	5.6	47
18	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.	3.6	46

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19	Biochemical Composition and Changes of Extracellular Polysaccharides (ECPS) Produced during Microphytobenthic Biofilm Development (Marennes-Oléron, France). <i>Microbial Ecology</i> , 2012, 63, 157-169.	1.4	43
20	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.	5.1	43
21	Harvesting carbohydrate-rich <i>Arthrospira platensis</i> by spontaneous settling. <i>Bioresource Technology</i> , 2015, 180, 16-21.	4.8	42
22	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.	5.6	40
23	Biosourced Polysaccharide-Based Superabsorbents. <i>Polysaccharides</i> , 2020, 1, 51-79.	2.1	40
24	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.	3.6	39
25	Use of Alginate Extracted from Moroccan Brown Algae to Stimulate Natural Defense in Date Palm Roots. <i>Molecules</i> , 2020, 25, 720.	1.7	39
26	Valorization of carob waste: Definition of a second-generation bioethanol production process. <i>Bioresource Technology</i> , 2017, 235, 25-34.	4.8	36
27	Enzymatic degradation and bioactivity evaluation of C-6 oxidized chitosan. <i>International Journal of Biological Macromolecules</i> , 2013, 60, 383-392.	3.6	31
28	Dextranase immobilization on epoxy CIMÂ® disk for the production of isomaltooligosaccharides from dextran. <i>Carbohydrate Polymers</i> , 2014, 111, 707-713.	5.1	31
29	High-performance hydrolysis of wheat straw using cellulase and thermomechanical pretreatment. <i>Process Biochemistry</i> , 2011, 46, 2194-2200.	1.8	29
30	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.	1.4	28
31	Polysaccharides and Their Derivatives as Potential Antiviral Molecules. <i>Viruses</i> , 2022, 14, 426.	1.5	27
32	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.	1.5	25
33	Structural characterization and thermal behavior of a gum extracted from <i>Ferula assa foetida</i> L.. <i>Carbohydrate Polymers</i> , 2018, 181, 426-432.	5.1	25
34	Use of Anionic Polysaccharides in the Development of 3D Bioprinting Technology. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2596.	1.3	25
35	Induction of Natural Defenses in Tomato Seedlings by Using Alginate and Oligoalginates Derivatives Extracted from Moroccan Brown Algae. <i>Marine Drugs</i> , 2020, 18, 521.	2.2	25
36	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.	1.8	24

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37	Structural Characterization and Biological Activities of Polysaccharides from Olive Mill Wastewater. <i>Applied Biochemistry and Biotechnology</i> , 2015, 177, 431-445.	1.4	24
38	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.	3.6	23
39	Bioactivity of Chitosan and Its Derivatives. <i>Current Organic Chemistry</i> , 2018, 22, 641-667.	0.9	22
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.	0.6	21
41	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.	3.6	20
42	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.	2.3	17
43	Fucoidans of Moroccan Brown Seaweed as Elicitors of Natural Defenses in Date Palm Roots. <i>Marine Drugs</i> , 2020, 18, 596.	2.2	17
44	Radical Depolymerization of Alginate Extracted from Moroccan Brown Seaweed <i>Bifurcaria bifurcata</i> . <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4166.	1.3	17
45	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.	0.7	15
46	Rheological and functional properties of asafoetida gum. <i>International Journal of Biological Macromolecules</i> , 2018, 118, 1168-1173.	3.6	15
47	Quality Characteristics and Functional and Antioxidant Capacities of Algae-Fortified Fish Burgers Prepared from Common Barbel (<i>Barbus barbus</i>). <i>BioMed Research International</i> , 2019, 2019, 1-14.	0.9	15
48	Prebiotic Activity of Poly- and Oligosaccharides Obtained from <i>Plantago major</i> L. Leaves. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2648.	1.3	15
49	Applications of Algal Polysaccharides and Derivatives in Therapeutic and Agricultural Fields. <i>Current Pharmaceutical Design</i> , 2019, 25, 1187-1199.	0.9	15
50	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.	1.3	14
51	Influence of Physicochemical Characteristics of Neem Seeds (<i>Azadirachta indica</i> A. Juss) on Biodiesel Production. <i>Biomolecules</i> , 2020, 10, 616.	1.8	13
52	Characterization and Prospective Applications of the Exopolysaccharides Produced by <i>Rhodosporidium babjevae</i> . <i>Advanced Pharmaceutical Bulletin</i> , 2020, 10, 254-263.	0.6	13
53	Novel Antioxidant, Anti- α -Amylase, Anti-Inflammatory and Antinociceptive Water-Soluble Polysaccharides from the Aerial Part of <i>Nitraria retusa</i> . <i>Foods</i> , 2020, 9, 28.	1.9	12
54	Bioactive polysaccharides from microalgae. , 2020, , 533-571.		12

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55	Innovation in Tigernut (<i>Cyperus Esculentus</i> L.) Milk Production: In Situ Hydrolysis of Starch. <i>Polymers</i> , 2020, 12, 1404.	2.0	12
56	Optimized endodextranase-epoxy CIM Â® disk reactor for the continuous production of molecular weight-controlled prebiotic isomalto-oligosaccharides. <i>Process Biochemistry</i> , 2017, 58, 105-113.	1.8	11
57	+ <i>Brettanomyces bruxellensis</i> Displays Variable Susceptibility to Chitosan Treatment in Wine. <i>Frontiers in Microbiology</i> , 2020, 11, 571067.	1.5	11
58	Development of phenol-grafted polyglucuronic acid and its application to extrusion-based bioprinting inks. <i>Carbohydrate Polymers</i> , 2022, 277, 118820.	5.1	10
59	Exopolysaccharide from the yeast <i>Papiliotrema terrestris</i> PT22AV for skin wound healing. <i>Journal of Advanced Research</i> , 2023, 46, 61-74.	4.4	10
60	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.	1.3	9
61	Biochemical Characterization of a Bifunctional Enzyme Constructed by the Fusion of a Glucuronan Lyase and a Chitinase from <i>Trichoderma</i> sp.. <i>Life</i> , 2020, 10, 234.	1.1	7
62	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, 1233-1238.	0.7	6
63	Induction of Defense Gene Expression and the Resistance of Date Palm to <i>Fusarium oxysporum</i> f. sp. <i>Albedinis</i> in Response to Alginate Extracted from <i>Bifurcaria bifurcata</i> . <i>Marine Drugs</i> , 2022, 20, 88.	2.2	6
64	Pharmacological Investigations in Traditional Utilization of <i>Alhagi maurorum</i> 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, 2658.	1.6	6
65	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.	2.3	5
66	Fabrication Methods of Sustainable Hydrogels. , 2019, , 355-386.		5
67	Microalgal Biomass of Industrial Interest: Methods of Characterization. , 2020, , 537-639.		4
68	Food biotechnology: Innovations and challenges. , 2022, , 697-719.		4
69	Influence of the sulfate content of the exopolysaccharides from <i>Porphyridium sordidum</i> on their elicitor activities on date palm vitroplants. <i>Plant Physiology and Biochemistry</i> , 2022, 186, 99-106.	2.8	4
70	Lipase hydration state in the gas phase: Sorption isotherm measurements and inverse gas chromatography. <i>Biotechnology Journal</i> , 2010, 5, 1216-1225.	1.8	3
71	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.	1.3	3
72	Bioconversion of the Brown Tunisian Seaweed <i>Halopteris scoparia</i> : Application to Energy. <i>Energies</i> , 2022, 15, 4342.	1.6	3

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73	Beneficial Health Potential of Algerian Polysaccharides Extracted from <i>Plantago ciliata</i> Desf. (Septentrional Sahara) Leaves and Seeds. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4299.	1.3	2
74	Galactans and Its Applications. , 2015, , 753-794.		2
75	Ethnobotanical utilization of <i>Alhagi maurorum</i> Medik. in traditional recipes of Algerian Sahara Illizi Wilaya. <i>Euro-Mediterranean Journal for Environmental Integration</i> , 2021, 6, 1.	0.6	1
76	An alternative method for the determination of polysaccharide cleavage enzymes activities. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015, 116, 166-172.	1.8	0