

Guillaume Pierre

List of Publications by Year in Descending Order

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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 | Food biotechnology: Innovations and challenges 2022 , 697-719 | | |
| 72 | Induction of Defense Gene Expression and the Resistance of Date Palm to <i>f. sp.</i> in Response to Alginate Extracted from .. <i>Marine Drugs</i> , 2022 , 20, | 6 | 1 |
| 71 | Development of phenol-grafted polyglucuronic acid and its application to extrusion-based bioprinting inks. <i>Carbohydrate Polymers</i> , 2022 , 277, 118820 | 10.3 | 4 |
| 70 | Biomolecules from Microalgae and Cyanobacteria: Applications and Market Survey. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 1924 | 2.6 | 4 |
| 69 | Polysaccharides and Their Derivatives as Potential Antiviral Molecules.. <i>Viruses</i> , 2022 , 14, | 6.2 | 4 |
| 68 | A Novel Sulfated Glycoprotein Elicitor Extracted from the Moroccan Green Seaweed <i>Codium decortiatum</i> Induces Natural Defenses in Tomato. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 3643 | 2.6 | 2 |
| 67 | 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 | 2.6 | |
| 66 | 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 |
| 65 | Extraction, Characterization, and Applications of Pectins from Plant By-Products. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6596 | 2.6 | 11 |
| 64 | 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 | 1.7 | |
| 63 | 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 |
| 62 | 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 |
| 61 | Fucoidans of Moroccan Brown Seaweed as Elicitors of Natural Defenses in Date Palm Roots. <i>Marine Drugs</i> , 2020 , 18, | 6 | 2 |
| 60 | Exopolysaccharides from Cyanobacteria: Strategies for Bioprocess Development. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3763 | 2.6 | 19 |
| 59 | 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 |
| 58 | Radical Depolymerization of Alginate Extracted from Moroccan Brown Seaweed <i>Bifurcaria bifurcata</i> . <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4166 | 2.6 | 6 |
| 57 | Innovation in Tigernut (<i>L.</i>) Milk Production: In Situ Hydrolysis of Starch. <i>Polymers</i> , 2020 , 12, | 4.5 | 3 |

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| 56 | 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 |
| 55 | Use of Alginate Extracted from Moroccan Brown Algae to Stimulate Natural Defense in Date Palm Roots. <i>Molecules</i> , 2020 , 25, | 4.8 | 22 |
| 54 | 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 |
| 53 | Characterization and Prospective Applications of the Exopolysaccharides Produced by. <i>Advanced Pharmaceutical Bulletin</i> , 2020 , 10, 254-263 | 4.5 | 7 |
| 52 | Microalgal Biomass of Industrial Interest: Methods of Characterization 2020 , 537-639 | | 3 |
| 51 | 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 |
| 50 | 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 |
| 49 | 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 |
| 48 | + Displays Variable Susceptibility to Chitosan Treatment in Wine. <i>Frontiers in Microbiology</i> , 2020 , 11, 571067 | 9.7 | 4 |
| 47 | 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 |
| 46 | Bioactive Polysaccharides from Seaweeds. <i>Molecules</i> , 2020 , 25, | 4.8 | 45 |
| 45 | Biosourced Polysaccharide-Based Superabsorbents. <i>Polysaccharides</i> , 2020 , 1, 51-79 | 3 | 16 |
| 44 | Bioactive polysaccharides from microalgae 2020 , 533-571 | | 6 |
| 43 | Influence of Physicochemical Characteristics of Neem Seeds (<i>A. Juss</i>) on Biodiesel Production. <i>Biomolecules</i> , 2020 , 10, | 5.9 | 4 |
| 42 | 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 |
| 41 | Modification of Chitosan for the Generation of Functional Derivatives. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1321 | 2.6 | 49 |
| 40 | 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 |
| 39 | Use of Anionic Polysaccharides in the Development of 3D Bioprinting Technology. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2596 | 2.6 | 23 |

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| 38 | Applications of Algal Polysaccharides and Derivatives in Therapeutic and Agricultural Fields. <i>Current Pharmaceutical Design</i> , 2019 , 25, 1187-1199 | 3.3 | 7 |
| 37 | Fabrication Methods of Sustainable Hydrogels 2019 , 355-386 | | 2 |
| 36 | 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 |
| 35 | 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 |
| 34 | Quality Characteristics and Functional and Antioxidant Capacities of Algae-Fortified Fish Burgers Prepared from Common Barbel (). <i>BioMed Research International</i> , 2019 , 2019, 2907542 | 3 | 5 |
| 33 | What Is in Store for EPS Microalgae in the Next Decade?. <i>Molecules</i> , 2019 , 24, | 4.8 | 35 |
| 32 | New horizons in culture and valorization of red microalgae. <i>Biotechnology Advances</i> , 2019 , 37, 193-222 | 17.8 | 48 |
| 31 | 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 |
| 30 | 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 |
| 29 | Rheological and functional properties of asafoetida gum. <i>International Journal of Biological Macromolecules</i> , 2018 , 118, 1168-1173 | 7.9 | 11 |
| 28 | Bioactivity of Chitosan and Its Derivatives. <i>Current Organic Chemistry</i> , 2018 , 22, 641-667 | 1.7 | 20 |
| 27 | 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 |
| 26 | Valorization of carob waste: Definition of a second-generation bioethanol production process. <i>Bioresource Technology</i> , 2017 , 235, 25-34 | 11 | 25 |
| 25 | TEMPO-mediated oxidation of polysaccharides: An ongoing story. <i>Carbohydrate Polymers</i> , 2017 , 165, 71-85 | 10.3 | 88 |
| 24 | Optimized endodextranase-epoxy CIM \square disk reactor for the continuous production of molecular weight-controlled prebiotic isomalto-oligosaccharides. <i>Process Biochemistry</i> , 2017 , 58, 105-113 | 4.8 | 8 |
| 23 | 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 |
| 22 | Structural characterization and rheological behavior of a heteroxyylan extracted from <i>Plantago notata</i> Lagasca (<i>Plantaginaceae</i>) seeds. <i>Carbohydrate Polymers</i> , 2017 , 175, 96-104 | 10.3 | 33 |
| 21 | 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 |

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| 20 | Production, extraction and characterization of microalgal and cyanobacterial exopolysaccharides. <i>Biotechnology Advances</i> , 2016 , 34, 1159-1179 | 17.8 | 216 |
| 19 | 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 |
| 18 | Structural Characterization and Biological Activities of Polysaccharides from Olive Mill Wastewater. <i>Applied Biochemistry and Biotechnology</i> , 2015 , 177, 431-45 | 3.2 | 18 |
| 17 | Influence of culture medium recycling on the performance of <i>Arthrospira platensis</i> cultures. <i>Algal Research</i> , 2015 , 10, 48-54 | 5 | 55 |
| 16 | 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 |
| 15 | An alternative method for the determination of polysaccharide cleavage enzymes activities. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2015 , 116, 166-172 | | |
| 14 | 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 |
| 13 | Harvesting carbohydrate-rich <i>Arthrospira platensis</i> by spontaneous settling. <i>Bioresource Technology</i> , 2015 , 180, 16-21 | 11 | 37 |
| 12 | Galactans and Its Applications 2015 , 753-794 | | 0 |
| 11 | 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 |
| 10 | 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 |
| 9 | Chitosan as an adhesive. <i>European Polymer Journal</i> , 2014 , 60, 198-212 | 5.2 | 144 |
| 8 | Dextranase immobilization on epoxy CIM(□) disk for the production of isomaltooligosaccharides from dextran. <i>Carbohydrate Polymers</i> , 2014 , 111, 707-13 | 10.3 | 25 |
| 7 | Enzymatic degradation and bioactivity evaluation of C-6 oxidized chitosan. <i>International Journal of Biological Macromolecules</i> , 2013 , 60, 383-92 | 7.9 | 24 |
| 6 | 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 |
| 5 | 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 |
| 4 | High-performance hydrolysis of wheat straw using cellulase and thermomechanical pretreatment. <i>Process Biochemistry</i> , 2011 , 46, 2194-2200 | 4.8 | 24 |
| 3 | 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 |

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| 2 | 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 |
| 1 | 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 |