# CÃ©line Laroche

List of Publications by Year
in descending order



| 52 | 2,916 | 172207 29 | 189595 50 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 52 | 52 | 52 | 3325 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Production, extraction and characterization of microalgal and cyanobacterial exopolysaccharides. Biotechnology Advances, 2016, 34, 1159-1179. | 6.0 | 310 |
| 2 | Aqueous extraction of proteins from microalgae: Effect of different cell disruption methods. Algal Research, 2014, 3, 61-65. | 2.4 | 256 |
| 3 | Extraction and characterization of an alginate from the brown seaweed Sargassum turbinarioides Grunow. Journal of Applied Phycology, 2010, 22, 131-137. | 1.5 | 187 |
| 4 | New Developments and Prospective Applications for β (1,3) Glucans. Recent Patents on Biotechnology, 2007, 1, 59-73. | 0.4 | 158 |
| 5 | Separation and fractionation of exopolysaccharides from Porphyridium cruentum. Bioresource Technology, 2013, 145, 345-350. | 4.8 | 124 |
| 6 | Evaluation of Acyl Coenzyme A Oxidase (Aox) Isozyme Function in the n -Alkane-Assimilating Yeast Yarrowia lipolytica. Journal of Bacteriology, 1999, 181, 5140-5148. | 1.0 | 120 |
| 7 | The effect of osmotic pressure on the membrane fluidity of Saccharomyces cerevisiae at different physiological temperatures. Applied Microbiology and Biotechnology, 2001, 56, 249-254. | 1.7 | 102 |
| 8 | Extraction and fractionation of polysaccharides and B-phycoerythrin from the microalga Porphyridium cruentum by membrane technology. Algal Research, 2014, 5, 258-263. | 2.4 | 94 |
| 9 | Understanding the effect of cell disruption methods on the diffusion of Chlorella vulgaris proteins and pigments in the aqueous phase. Algal Research, 2015, 8, 61-68. | 2.4 | 91 |
| 10 | New horizons in culture and valorization of red microalgae. Biotechnology Advances, 2019, 37, 193-222. | 6.0 | 85 |
| 11 | Water activity affects heat resistance of microorganisms in food powders. International Journal of Food Microbiology, 2005, 97, 307-315. | 2.1 | 83 |
| 12 | Release of hydro-soluble microalgal proteins using mechanical and chemical treatments. Algal Research, 2014, 3, 55-60. | 2.4 | 70 |
| 13 | Improvement of exopolysaccharide production by Porphyridium marinum. Bioresource Technology, 2016, 213, 231-238. | 4.8 | 70 |
| 14 | Haematococcus pluvialis soluble proteins: Extraction, characterization, concentration/fractionation and emulsifying properties. Bioresource Technology, 2016, 200, 147-152. | 4.8 | 67 |
| 15 | Screening of marine microalgae: Investigation of new exopolysaccharide producers. Algal Research, 2019, 44, 101711. | 2.4 | 67 |
| 16 | Extraction and characterization of an alginate from the Iranian brown seaweed Nizimuddinia zanardini. International Journal of Biological Macromolecules, 2018, 118, 1073-1081. | 3.6 | 60 |
| 17 | Antimicrosporidian activity of sulphated polysaccharides from algae and their potential to control honeybee nosemosis. Carbohydrate Polymers, 2015, 133, 213-220. | 5.1 | 52 |
| 18 | Characterization of the polysaccharides chemical diversity of the cyanobacteria Arthrospira platensis. Algal Research, 2019, 38, 101426. | 2.4 | 52 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Involvement of Acyl Coenzyme A Oxidase Isozymes in Biotransformation of Methyl Ricinoleate into Î³-Decalactone by Yarrowia lipolytica. Applied and Environmental Microbiology, 2000, 66, 1233-1236. | 1.4 | 50 |
| 20 | Optimisation of culture parameters for exopolysaccharides production by the microalga Rhodella violacea. Bioresource Technology, 2013, 146, 732-735. | 4.8 | 50 |
| 21 | Effects of nutritional conditions on growth and biochemical composition of Tetraselmis sp.. Lipids in Health and Disease, 2017, 16, 41. | 1.2 | 49 |
| 22 | Cloning, sequencing, and characterization of five genes coding for Acyl-CoA oxidase isozymes in the yeastYarrowia lipolytica. Cell Biochemistry and Biophysics, 1999, 31, 165-174. | 0.9 | 47 |
| 23 | Exopolysaccharides from Microalgae and Cyanobacteria: Diversity of Strains, Production Strategies, and Applications. Marine Drugs, 2022, 20, 336. | 2.2 | 46 |
| 24 | Highly sulphated galactan from Halymenia durvillei (Halymeniales, Rhodophyta), a red seaweed of Madagascar marine coasts. International Journal of Biological Macromolecules, 2009, 45, 140-145. | 3.6 | 44 |
| 25 | Achievement of rapid osmotic dehydration at specific temperatures could maintain high Saccharomyces cerevisiae viability. Applied Microbiology and Biotechnology, 2003, 60, 743-747. | 1.7 | 41 |
| 26 | Production and characterization of new families of polyglucuronic acids from TEMPOâ€“NaOCl oxidation of curdlan. International Journal of Biological Macromolecules, 2009, 45, 458-462. | 3.6 | 40 |
| 27 | Enhanced B-phycoerythrin production by the red microalga Porphyridium marinum: A powerful agent in industrial applications. International Journal of Biological Macromolecules, 2018, 120, 2106-2114. | 3.6 | 38 |
| 28 | Unexpected Thermal Destruction of Dried, Glass Bead-Immobilized Microorganisms as a Function of Water Activity. Applied and Environmental Microbiology, 2003, 69, 3015-3019. | 1.4 | 34 |
| 29 | Enzymatic and chemical degradation of curdlan targeting the production of Î²-(1â†’3) oligoglucans. Carbohydrate Polymers, 2008, 71, 277-286. | 5.1 | 34 |
| 30 | Limnospira indica PCC8005 growth in photobioreactor: model and simulation of the ISS and ground experiments. Life Sciences in Space Research, 2020, 25, 53-65. | 1.2 | 32 |
| 31 | New Method Showing the Influence of Matrix Components in Leuconostoc mesenteroides Biofilm Formation. Applied Biochemistry and Biotechnology, 2008, 151, 364-370. | 1.4 | 31 |
| 32 | Optimal cultivation towards enhanced biomass and floridean starch production by Porphyridium marinum. International Journal of Biological Macromolecules, 2019, 129, 152-161. | 3.6 | 31 |
| 33 | Phase transitions as a function of osmotic pressure in Saccharomyces cerevisiae whole cells, membrane extracts and phospholipid mixtures. Biochimica Et Biophysica Acta - Biomembranes, 2005, 1669, 8-16. | 1.4 | 27 |
| 34 | Potential of Exopolysaccharide from Porphyridium marinum to Contend with Bacterial Proliferation, Biofilm Formation, and Breast Cancer. Marine Drugs, 2021, 19, 66. | 2.2 | 26 |
| 35 | Spectral kinetic modeling and longâ€term behavior assessment of Arthrospira platensis growth in photobioreactor under red (620 nm) light illumination. Biotechnology Progress, 2009, 25, 151-162. | 1.3 | 25 |
| 36 | Structural characterization and thermal behavior of a gum extracted from Ferula assa foetida L.. Carbohydrate Polymers, 2018, 181, 426-432. | 5.1 | 25 |

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|---|---|---|---|
| 37 | Structural Characterization and Biological Activities of Polysaccharides from Olive Mill Wastewater. Applied Biochemistry and Biotechnology, 2015, 177, 431-445. | 1.4 | 24 |
| 38 | The red microalga Flintiella sanguinaria as a new exopolysaccharide producer. Journal of Applied Phycology, 2018, 30, 2803-2814. | 1.5 | 23 |
| 39 | Bioactivity of Chitosan and Its Derivatives. Current Organic Chemistry, 2018, 22, 641-667. | 0.9 | 22 |
| 40 | Static Magnetic Fields Effects on Polysaccharides Production by Different Microalgae Strains. Applied Sciences (Switzerland), 2021, 11, 5299. | 1.3 | 20 |
| 41 | Rheological and functional properties of asafoetida gum. International Journal of Biological Macromolecules, 2018, 118, 1168-1173. | 3.6 | 15 |
| 42 | A new tool to detect high viscous exopolymers from microalgae. Journal of Industrial Microbiology and Biotechnology, 2011, 38, 319-326. | 1.4 | 14 |
| 43 | Rheological Behavior and Non-enzymatic Degradation of a Sulfated Galactan from Halymenia durvillei (Halymeniales, Rhodophyta). Applied Biochemistry and Biotechnology, 2012, 167, 1303-1313. | 1.4 | 13 |
| 44 | A New, Quick, and Simple Protocol to Evaluate Microalgae Polysaccharide Composition. Marine Drugs, 2021, 19, 101. | 2.2 | 13 |
| 45 | Exploring the Diversity of Red Microalgae for Exopolysaccharide Production. Marine Drugs, 2022, 20, 246. | 2.2 | 12 |
| 46 | A new method to screen polysaccharide cleavage enzymes. Enzyme and Microbial Technology, 2011, 48, 248-252. | 1.6 | 11 |
| 47 | Polysaccharide-layered double hydroxideâ€“aldolase biohybrid beads for biocatalysed CC bond formation. Journal of Molecular Catalysis B: Enzymatic, 2015, 122, 204-211. | 1.8 | 11 |
| 48 | Arthrospira platensis as a Feasible Feedstock for Bioethanol Production. Applied Sciences (Switzerland), 2021, 11, 6756. | 1.3 | 9 |
| 49 | Microalgal Biomass of Industrial Interest: Methods of Characterization. , 2020, , 537-639. | | 4 |
| 50 | Magnetic Field Action on Limnospira indica PCC8005 Cultures: Enhancement of Biomass Yield and Protein Content. Applied Sciences (Switzerland), 2022, 12, 1533. | 1.3 | 3 |
| 51 | Polyethyleneimine as a tool for compounds fractionation by flocculation in a microalgae biorefinery context. Bioresource Technology, 2020, 315, 123857. | 4.8 | 2 |
| 52 | Galactans and Its Applications. , 2015, , 753-794. | | 2 |