

Luc Marchal

List of Publications by Year in descending order

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39
papers

1,521
citations

279798

23
h-index

315739

38
g-index

39
all docs

39
docs citations

39
times ranked

1651
citing authors

#	ARTICLE	IF	CITATIONS
1	Pulsed electric field and pH assisted selective extraction of intracellular components from microalgae <i>Nannochloropsis</i> . <i>Algal Research</i> , 2015, 8, 128-134.	4.6	156
2	Separation and fractionation of exopolysaccharides from <i>Porphyridium cruentum</i> . <i>Bioresource Technology</i> , 2013, 145, 345-350.	9.6	124
3	Pulsed electric field assisted extraction of nutritionally valuable compounds from microalgae <i>Nannochloropsis</i> spp. using the binary mixture of organic solvents and water. <i>Innovative Food Science and Emerging Technologies</i> , 2015, 27, 79-85.	5.6	118
4	Physicochemical factors affecting the stability of two pigments: R-phycoerythrin of <i>Grateloupia turuturu</i> and B-phycoerythrin of <i>Porphyridium cruentum</i> . <i>Food Chemistry</i> , 2014, 150, 400-407.	8.2	113
5	Extraction and fractionation of polysaccharides and B-phycoerythrin from the microalga <i>Porphyridium cruentum</i> by membrane technology. <i>Algal Research</i> , 2014, 5, 258-263.	4.6	94
6	Blanching of Strawberries by Ohmic Heating: Effects on the Kinetics of Mass Transfer during Osmotic Dehydration. <i>Food and Bioprocess Technology</i> , 2010, 3, 406-414.	4.7	64
7	Wet lipid extraction from the microalga <i>Nannochloropsis</i> sp.: Disruption, physiological effects and solvent screening. <i>Algal Research</i> , 2017, 21, 27-34.	4.6	60
8	Centrifugal partition chromatography: A survey of its history, and our recent advances in the field. <i>Chemical Record</i> , 2003, 3, 133-143.	5.8	53
9	Emerging techniques for cell disruption and extraction of valuable bio-molecules of microalgae <i>Nannochloropsis</i> sp.. <i>Bioprocess and Biosystems Engineering</i> , 2019, 42, 173-186.	3.4	49
10	High pressure disruption: a two-step treatment for selective extraction of intracellular components from the microalga <i>Porphyridium cruentum</i> . <i>Journal of Applied Phycology</i> , 2013, 25, 983-989.	2.8	47
11	Rational improvement of centrifugal partition chromatographic settings for the production of 5-n-alkylresorcinols from wheat bran lipid extract. <i>Journal of Chromatography A</i> , 2003, 1005, 51-62.	3.7	46
12	Effects of vacuum impregnation and ohmic heating with citric acid on the behaviour of osmotic dehydration and structural changes of apple fruit. <i>Biosystems Engineering</i> , 2010, 106, 6-13.	4.3	44
13	Influence of flow patterns on chromatographic efficiency in centrifugal partition chromatography. <i>Journal of Chromatography A</i> , 2000, 869, 339-352.	3.7	43
14	Mass transport and flow regimes in centrifugal partition chromatography. <i>AIChE Journal</i> , 2002, 48, 1692-1704.	3.6	43
15	Bead milling disruption kinetics of microalgae: Process modeling, optimization and application to biomolecules recovery from <i>Chlorella sorokiniana</i> . <i>Bioresource Technology</i> , 2018, 267, 458-465.	9.6	40
16	Effect of ultrasonication, high pressure homogenization and their combination on efficiency of extraction of bio-molecules from microalgae <i>Parachlorella kessleri</i> . <i>Algal Research</i> , 2019, 40, 101524.	4.6	38
17	Fucoxanthin from Algae to Human, an Extraordinary Bioresource: Insights and Advances in up and Downstream Processes. <i>Marine Drugs</i> , 2022, 20, 222.	4.6	36
18	Industrial case study on alkaloids purification by pH-zone refining centrifugal partition chromatography. <i>Journal of Chromatography A</i> , 2016, 1474, 59-70.	3.7	34

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19	Methodology for optimally sized centrifugal partition chromatography columns. <i>Journal of Chromatography A</i> , 2015, 1388, 174-183.	3.7	33
20	Centrifugal partition extraction, a new method for direct metabolites recovery from culture broth: Case study of torularhodin recovery from <i>Rhodotorula rubra</i> . <i>Bioresource Technology</i> , 2013, 132, 406-409.	9.6	28
21	Centrifugal partition extraction of β -carotene from <i>Dunaliella salina</i> for efficient and biocompatible recovery of metabolites. <i>Bioresource Technology</i> , 2013, 134, 396-400.	9.6	26
22	Strong ion exchange in centrifugal partition extraction (SIX-CPE): Effect of partition cell design and dimensions on purification process efficiency. <i>Journal of Chromatography A</i> , 2012, 1247, 18-25.	3.7	24
23	Intensified extraction of ionized natural products by ion pair centrifugal partition extraction. <i>Journal of Chromatography A</i> , 2011, 1218, 5254-5262.	3.7	23
24	Effect of Blanching by Ohmic Heating on the Osmotic Dehydration Behavior of Apple Cubes. <i>Drying Technology</i> , 2009, 27, 739-746.	3.1	22
25	Two-step procedure for selective recovery of bio-molecules from microalga <i>Nannochloropsis oculata</i> assisted by high voltage electrical discharges. <i>Bioresource Technology</i> , 2020, 302, 122893.	9.6	22
26	Application of high-voltage electrical discharges and high-pressure homogenization for recovery of intracellular compounds from microalgae <i>Parachlorella kessleri</i> . <i>Bioprocess and Biosystems Engineering</i> , 2019, 42, 29-36.	3.4	20
27	Pulsed electric energy and ultrasonication assisted green solvent extraction of bio-molecules from different microalgal species. <i>Innovative Food Science and Emerging Technologies</i> , 2020, 62, 102358.	5.6	17
28	Modeling pH-zone refining countercurrent chromatography: A dynamic approach. <i>Journal of Chromatography A</i> , 2015, 1391, 80-87.	3.7	15
29	The centrifugal partition reactor, a novel intensified continuous reactor for liquid-liquid enzymatic reactions. <i>Biochemical Engineering Journal</i> , 2015, 103, 227-233.	3.6	15
30	Purification of a modified cyclosporine A by co-current centrifugal partition chromatography: Process development and intensification. <i>Journal of Chromatography A</i> , 2013, 1311, 72-78.	3.7	14
31	Multistage aqueous and non-aqueous extraction of bio-molecules from microalga <i>Phaeodactylum tricornutum</i> . <i>Innovative Food Science and Emerging Technologies</i> , 2020, 62, 102367.	5.6	12
32	Production of oil in water emulsions in microchannels at high throughput: Evaluation of emulsions in view of cosmetic, nutraceutical or pharmaceutical applications. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 161, 108301.	3.6	12
33	Comparison of aqueous extraction assisted by pulsed electric energy and ultrasonication: Efficiencies for different microalgal species. <i>Algal Research</i> , 2020, 47, 101857.	4.6	11
34	Producing Energy-Rich Microalgae Biomass for Liquid Biofuels: Influence of Strain Selection and Culture Conditions. <i>Energies</i> , 2021, 14, 1246.	3.1	9
35	Lipid recovery from <i>Nannochloropsis gaditana</i> using the wet pathway: Investigation of the operating parameters of bead milling and centrifugal extraction. <i>Algal Research</i> , 2021, 56, 102318.	4.6	8
36	Effect of combined pulsed electric energy and high pressure homogenization on selective and energy efficient extraction of bio-molecules from microalga <i>Parachlorella kessleri</i> . <i>LWT - Food Science and Technology</i> , 2021, 141, 110901.	5.2	4

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37	Chapter 5 Centrifugal partition chromatography: an engineering approach. Comprehensive Analytical Chemistry, 2002, 38, 115-157.	1.3	3
38	Two-phase solvent extraction of phenolics from <i>Origanum vulgare</i> subsp. <i>glandulosum</i> . Journal of Applied Research on Medicinal and Aromatic Plants, 2021, 20, 100273.	1.5	1
39	Optimization of continuous TAG production by <i>Nannochloropsis gaditana</i> in solar-nitrogen-limited culture. Biotechnology and Bioengineering, 2022, , .	3.3	0