Carles Torras

List of Publications by Year
in descending order

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Version: 2024-02-01

53	1,569	304602	302012
papers	citations	22 h-index	39 g-index

54	54	54	2031
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-temperature dilute-acid hydrolysis of olive stones for furfural production. Biomass and Bioenergy, 2002, 22, 295-304.	2.9	165
2	Fruit Juice Processing and Membrane Technology Application. Food Engineering Reviews, 2011, 3, 136-158.	3.1	124
3	Catalytic gasification of glycerol in supercritical water. Chemical Engineering Journal, 2010, 160, 751-759.	6.6	100
4	Antifouling microfiltration strategies to harvest microalgae for biofuel. Bioresource Technology, 2012, 119, 406-418.	4.8	98
5	Purification of xylo-oligosaccharides from almond shells by ultrafiltration. Separation and Purification Technology, 2007, 53, 235-243.	3.9	89
6	Vibrating membrane filtration as improved technology for microalgae dewatering. Bioresource Technology, 2014, 157, 247-253.	4.8	64
7	Lipid extraction methods from microalgal biomass harvested by two different paths: Screening studies toward biodiesel production. Bioresource Technology, 2013, 133, 378-388.	4.8	62
8	Microalgae-based biodiesel: Economic analysis of downstream process realistic scenarios. Bioresource Technology, 2013, 136, 617-625.	4.8	59
9	Microalgae-based biodiesel: A multicriteria analysis of the production process using realistic scenarios. Bioresource Technology, 2013, 147, 7-16.	4.8	54
10	Biorefinery concept in a microalgae pilot plant. Culturing, dynamic filtration and steam explosion fractionation. Bioresource Technology, 2014, 163, 136-142.	4.8	54
11	Dynamic Microfiltration in Microalgae Harvesting for Biodiesel Production. Industrial & Engineering Chemistry Research, 2011, 50, 2455-2460.	1.8	53
12	Ultrafiltration and reverse osmosis for clarification and concentration of fruit juices at pilot plant scale. LWT - Food Science and Technology, 2012, 46, 189-195.	2.5	47
13	Quantification of membrane morphology by interpretation of scanning electron microscopy images. Journal of Membrane Science, 2004, 233, 119-127.	4.1	42
14	Microalgae fractionation using steam explosion, dynamic and tangential cross-flow membrane filtration. Bioresource Technology, 2017, 237, 3-10.	4.8	39
15	Factors influencing activated carbon-polymeric composite membrane structure and performance. Journal of Physics and Chemistry of Solids, 2004, 65, 633-637.	1.9	38
16	Numerical simulation of the flow in a rotating disk filtration module. Desalination, 2009, 235, 122-138.	4.0	37
17	Membrane reactors for biodiesel production with strontium oxide as a heterogeneous catalyst. Fuel Processing Technology, 2019, 185, 1-7.	3.7	33
18	Vanillin Release from Polysulfone Macrocapsules. Industrial & Engineering Chemistry Research, 2009, 48, 1562-1565.	1.8	29

#	Article	IF	Citations
19	Performance, morphology and tensile characterization of activated carbon composite membranes for the synthesis of enzyme membrane reactors. Journal of Membrane Science, 2006, 282, 149-161.	4.1	26
20	Vanillin release from macrocapsules. Desalination, 2009, 245, 769-775.	4.0	26
21	Sustainability analysis of biodiesel production from Cynara Cardunculus crop. Fuel, 2013, 111, 535-542.	3.4	26
22	Pilot scale dewatering of Chlorella sorokiniana and Dunaliella tertiolecta by sedimentation followed by dynamic filtration. Algal Research, 2018, 33, 118-124.	2.4	25
23	CFD simulation of a rotating disk flat membrane module. Desalination, 2006, 200, 453-455.	4.0	24
24	Two methods for morphological characterization of internal microcapsule structures. Journal of Membrane Science, 2007, 305, 1-4.	4.1	22
25	Morphological, chemical surface and electrical characterizations of lignosulfonate-modified membranes. Journal of Membrane Science, 2007, 297, 130-140.	4.1	20
26	Influence of humidity, temperature, and the addition of activated carbon on the preparation of cellulose acetate membranes and their ability to remove arsenic from water. Journal of Applied Polymer Science, 2014, 131, .	1.3	20
27	Steam Explosion and Vibrating Membrane Filtration to Improve the Processing Cost of Microalgae Cell Disruption and Fractionation. Processes, 2018, 6, 28.	1.3	20
28	Composite polymeric membranes for process intensification: Enzymatic hydrolysis of oligodextrans. Chemical Engineering Journal, 2008, 144, 259-266.	6.6	19
29	Energy and Nutrients Recovery from Lipid-Extracted Nannochloropsis via Anaerobic Digestion and Hydrothermal Liquefaction. ACS Sustainable Chemistry and Engineering, 2016, 4, 3133-3139.	3.2	19
30	Effect of pre-treatments on the production of biofuels from Phaeodactylum tricornutum. Journal of Environmental Management, 2016, 177, 240-246.	3.8	17
31	Application of ABS membranes in dynamic filtration for Chlorella sorokiniana dewatering. Biomass and Bioenergy, 2018, 111, 224-231.	2.9	15
32	Experimental and computational study of proton and methanol permeabilities through composite membranes. Journal of Power Sources, 2005, 145, 223-230.	4.0	13
33	Low-energy high-throughput emulsification with nickel micro-sieves for essential oils encapsulation. Journal of Food Engineering, 2019, 263, 326-336.	2.7	12
34	Transformation of lignin from bioethanol production for phenol substitution in resins. Wood Science and Technology, 2017, 51, 1209-1225.	1.4	10
35	Organosolv pretreatment for cellulose recovery from sawdust for its ulterior use in membrane synthesis and operation. Desalination and Water Treatment, 2015, 56, 3626-3639.	1.0	9
36	Electrophoretic deposition of ethanol steam-reforming catalysts on metal plates for the development of catalytic-wall reactors. Fuel Processing Technology, 2010, 91, 1040-1048.	3.7	8

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37	Hydrodynamics and Oxygen Bubble Characterization of Catalytic Cells Used in Artificial Photosynthesis by Means of CFD. Fluids, 2017, 2, 25.	0.8	8
38	Novel polymeric membrane structures: microcapsules. Desalination, 2006, 200, 12-14.	4.0	7
39	A new method to quantify parameters of membrane morphology from electron microscopy micrographs by texture recognition. Chemical Engineering Science, 2011, 66, 4582-4594.	1.9	7
40	Cheaper membrane materials for microalgae dewatering. Journal of Materials Science, 2014, 49, 7031-7039.	1.7	7
41	Polymeric composite membranes based on carbon/PSf. Journal of Membrane Science, 2006, 273, 38-46.	4.1	5
42	Effect of Pectinase Immobilization in a Polymeric Membrane on Ultrafiltration of Fluid Foods. Separation Science and Technology, 2012, 47, 796-801.	1.3	5
43	Activated Composite Membranes Containing the Chiral Carrier N-hexadecyl-l-hydroxyproline. Description of Morphology and Performance. Industrial & Engineering Chemistry Research, 2005, 44, 7696-7700.	1.8	4
44	Modelling of polysulfone membrane formation by immersion precipitation. Desalination, 2006, 200, 427-428.	4.0	2
45	A study on thermal effect on structure and transport properties of a composite lignosulfonated-polyamide/polysulfone membrane. Desalination, 2009, 245, 570-578.	4.0	2
46	Optimising by the response surface methodology the enzymatic elimination of clogging of a microfiltration membrane by pectin cake. International Journal of Food Science and Technology, 2012, 47, 47-52.	1.3	2
47	Enzymatic membrane reactors based on polysulfone/activated carbon. Desalination, 2006, 199, 438-440.	4.0	1
48	Toward the prediction of porous membrane permeability from morphological data. Polymer Engineering and Science, 2016, 56, 118-124.	1.5	1
49	Texture Recognition. , 2013, , 1-2.		0
50	Membrane Micrograph. , 2014, , 1-2.		0
51	Macrocapsules. , 2015, , 1-2.		0
52	Microalgae Concentration. , 2015, , 1-2.		0
53	Texture Recognition. , 2016, , 1887-1889.		0