

Carles Torras

List of Publications by Year in descending order

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53
papers

1,569
citations

304368

22
h-index

301761

39
g-index

54
all docs

54
docs citations

54
times ranked

2031
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-energy high-throughput emulsification with nickel micro-sieves for essential oils encapsulation. <i>Journal of Food Engineering</i> , 2019, 263, 326-336.	2.7	12
2	Membrane reactors for biodiesel production with strontium oxide as a heterogeneous catalyst. <i>Fuel Processing Technology</i> , 2019, 185, 1-7.	3.7	33
3	Application of ABS membranes in dynamic filtration for <i>Chlorella sorokiniana</i> dewatering. <i>Biomass and Bioenergy</i> , 2018, 111, 224-231.	2.9	15
4	Pilot scale dewatering of <i>Chlorella sorokiniana</i> and <i>Dunaliella tertiolecta</i> by sedimentation followed by dynamic filtration. <i>Algal Research</i> , 2018, 33, 118-124.	2.4	25
5	Steam Explosion and Vibrating Membrane Filtration to Improve the Processing Cost of Microalgae Cell Disruption and Fractionation. <i>Processes</i> , 2018, 6, 28.	1.3	20
6	Microalgae fractionation using steam explosion, dynamic and tangential cross-flow membrane filtration. <i>Bioresource Technology</i> , 2017, 237, 3-10.	4.8	39
7	Transformation of lignin from bioethanol production for phenol substitution in resins. <i>Wood Science and Technology</i> , 2017, 51, 1209-1225.	1.4	10
8	Hydrodynamics and Oxygen Bubble Characterization of Catalytic Cells Used in Artificial Photosynthesis by Means of CFD. <i>Fluids</i> , 2017, 2, 25.	0.8	8
9	Energy and Nutrients Recovery from Lipid-Extracted <i>Nannochloropsis</i> via Anaerobic Digestion and Hydrothermal Liquefaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 3133-3139.	3.2	19
10	Toward the prediction of porous membrane permeability from morphological data. <i>Polymer Engineering and Science</i> , 2016, 56, 118-124.	1.5	1
11	Effect of pre-treatments on the production of biofuels from <i>Phaeodactylum tricornutum</i> . <i>Journal of Environmental Management</i> , 2016, 177, 240-246.	3.8	17
12	Texture Recognition. , 2016, , 1887-1889.		0
13	Organosolv pretreatment for cellulose recovery from sawdust for its ulterior use in membrane synthesis and operation. <i>Desalination and Water Treatment</i> , 2015, 56, 3626-3639.	1.0	9
14	Macrocapsules. , 2015, , 1-2.		0
15	Microalgae Concentration. , 2015, , 1-2.		0
16	Biorefinery concept in a microalgae pilot plant. Culturing, dynamic filtration and steam explosion fractionation. <i>Bioresource Technology</i> , 2014, 163, 136-142.	4.8	54
17	Vibrating membrane filtration as improved technology for microalgae dewatering. <i>Bioresource Technology</i> , 2014, 157, 247-253.	4.8	64
18	Cheaper membrane materials for microalgae dewatering. <i>Journal of Materials Science</i> , 2014, 49, 7031-7039.	1.7	7

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19	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. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	20
20	Membrane Micrograph. , 2014, , 1-2.		0
21	Microalgae-based biodiesel: A multicriteria analysis of the production process using realistic scenarios. <i>Bioresource Technology</i> , 2013, 147, 7-16.	4.8	54
22	Sustainability analysis of biodiesel production from <i>Cynara Cardunculus</i> crop. <i>Fuel</i> , 2013, 111, 535-542.	3.4	26
23	Microalgae-based biodiesel: Economic analysis of downstream process realistic scenarios. <i>Bioresource Technology</i> , 2013, 136, 617-625.	4.8	59
24	Lipid extraction methods from microalgal biomass harvested by two different paths: Screening studies toward biodiesel production. <i>Bioresource Technology</i> , 2013, 133, 378-388.	4.8	62
25	Texture Recognition. , 2013, , 1-2.		0
26	Effect of Pectinase Immobilization in a Polymeric Membrane on Ultrafiltration of Fluid Foods. <i>Separation Science and Technology</i> , 2012, 47, 796-801.	1.3	5
27	Ultrafiltration and reverse osmosis for clarification and concentration of fruit juices at pilot plant scale. <i>LWT - Food Science and Technology</i> , 2012, 46, 189-195.	2.5	47
28	Antifouling microfiltration strategies to harvest microalgae for biofuel. <i>Bioresource Technology</i> , 2012, 119, 406-418.	4.8	98
29	Optimising by the response surface methodology the enzymatic elimination of clogging of a microfiltration membrane by pectin cake. <i>International Journal of Food Science and Technology</i> , 2012, 47, 47-52.	1.3	2
30	Dynamic Microfiltration in Microalgae Harvesting for Biodiesel Production. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 2455-2460.	1.8	53
31	A new method to quantify parameters of membrane morphology from electron microscopy micrographs by texture recognition. <i>Chemical Engineering Science</i> , 2011, 66, 4582-4594.	1.9	7
32	Fruit Juice Processing and Membrane Technology Application. <i>Food Engineering Reviews</i> , 2011, 3, 136-158.	3.1	124
33	Electrophoretic deposition of ethanol steam-reforming catalysts on metal plates for the development of catalytic-wall reactors. <i>Fuel Processing Technology</i> , 2010, 91, 1040-1048.	3.7	8
34	Catalytic gasification of glycerol in supercritical water. <i>Chemical Engineering Journal</i> , 2010, 160, 751-759.	6.6	100
35	Numerical simulation of the flow in a rotating disk filtration module. <i>Desalination</i> , 2009, 235, 122-138.	4.0	37
36	A study on thermal effect on structure and transport properties of a composite lignosulfonated-polyamide/polysulfone membrane. <i>Desalination</i> , 2009, 245, 570-578.	4.0	2

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37	Vanillin release from macrocapsules. <i>Desalination</i> , 2009, 245, 769-775.	4.0	26
38	Vanillin Release from Polysulfone Macrocapsules. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 1562-1565.	1.8	29
39	Composite polymeric membranes for process intensification: Enzymatic hydrolysis of oligodextrans. <i>Chemical Engineering Journal</i> , 2008, 144, 259-266.	6.6	19
40	Two methods for morphological characterization of internal microcapsule structures. <i>Journal of Membrane Science</i> , 2007, 305, 1-4.	4.1	22
41	Purification of xylo-oligosaccharides from almond shells by ultrafiltration. <i>Separation and Purification Technology</i> , 2007, 53, 235-243.	3.9	89
42	Morphological, chemical surface and electrical characterizations of lignosulfonate-modified membranes. <i>Journal of Membrane Science</i> , 2007, 297, 130-140.	4.1	20
43	Enzymatic membrane reactors based on polysulfone/activated carbon. <i>Desalination</i> , 2006, 199, 438-440.	4.0	1
44	Novel polymeric membrane structures: microcapsules. <i>Desalination</i> , 2006, 200, 12-14.	4.0	7
45	CFD simulation of a rotating disk flat membrane module. <i>Desalination</i> , 2006, 200, 453-455.	4.0	24
46	Modelling of polysulfone membrane formation by immersion precipitation. <i>Desalination</i> , 2006, 200, 427-428.	4.0	2
47	Polymeric composite membranes based on carbon/PSf. <i>Journal of Membrane Science</i> , 2006, 273, 38-46.	4.1	5
48	Performance, morphology and tensile characterization of activated carbon composite membranes for the synthesis of enzyme membrane reactors. <i>Journal of Membrane Science</i> , 2006, 282, 149-161.	4.1	26
49	Experimental and computational study of proton and methanol permeabilities through composite membranes. <i>Journal of Power Sources</i> , 2005, 145, 223-230.	4.0	13
50	Activated Composite Membranes Containing the Chiral Carrier N-hexadecyl-L-hydroxyproline. Description of Morphology and Performance. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 7696-7700.	1.8	4
51	Factors influencing activated carbon-polymeric composite membrane structure and performance. <i>Journal of Physics and Chemistry of Solids</i> , 2004, 65, 633-637.	1.9	38
52	Quantification of membrane morphology by interpretation of scanning electron microscopy images. <i>Journal of Membrane Science</i> , 2004, 233, 119-127.	4.1	42
53	High-temperature dilute-acid hydrolysis of olive stones for furfural production. <i>Biomass and Bioenergy</i> , 2002, 22, 295-304.	2.9	165