Wouter Van Hecke

List of Publications by Year
in descending order

24	778	623574 14	677027 22
papers	citations	h-index	g-index

24	24	24	918
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Membrane bioreactors for syngas permeation and fermentation. Critical Reviews in Biotechnology, 2022, 42, 856-872.	5.1	16
2	Rational Design Method Based on Techno-Economic Principles for Integration of Organic/Organic Pervaporation with Lipase Catalyzed Transesterification. Membranes, 2021, 11, 407.	1.4	4
3	Effects of moderately elevated pressure on gas fermentation processes. Bioresource Technology, 2019, 293, 122129.	4.8	42
4	Solvent-free lipase-catalyzed production of (meth)acrylate monomers: Experimental results and kinetic modeling. Biochemical Engineering Journal, 2019, 142, 162-169.	1.8	9
5	Lipase-Catalyzed Solvent-Free Esterification of Furan Containing Components. Waste and Biomass Valorization, 2019, 10, 311-317.	1.8	4
6	Prospects & potential of biobutanol production integrated with organophilic pervaporation â€“ A techno-economic assessment. Applied Energy, 2018, 228, 437-449.	5.1	32
7	Investigation of lactate productivity in membrane bioreactors on C5/C6 carbohydrates. Journal of Membrane Science, 2017, 528, 336-345.	4.1	7
8	High-flux POMS organophilic pervaporation for ABE recovery applied in fed-batch and continuous set-ups. Journal of Membrane Science, 2017, 540, 321-332.	4.1	31
9	Biobutanol production from C5/C6 carbohydrates integrated with pervaporation: experimental results and conceptual plant design. Journal of Industrial Microbiology and Biotechnology, 2016, 43, 25-36.	1.4	18
10	Sustainability metrics of 1-butanol. Catalysis Today, 2015, 239, 7-10.	2.2	79
11	Intensivierung von Bioprozessen: Leistungssteigerung und geringere Kosten. Chemie-Ingenieur-Technik, 2014, 86, 1495-1495.	0.4	0
12	Advances in in-situ product recovery (ISPR) in whole cell biotechnology during the last decade. Biotechnology Advances, 2014, 32, 1245-1255.	6.0	134
13	Study on ageing/fouling phenomena and the effect of upstream nanofiltration on in-situ product recovery of n-butanol through poly[1-(trimethylsilyl)-1-propyne] pervaporation membranes. Journal of Membrane Science, 2013, 447, 134-143.	4.1	47
14	Pervaporative recovery of ABE during continuous cultivation: Enhancement of performance. Bioresource Technology, 2013, 129, 421-429.	4.8	60
15	Guidelines for the Application of NAD(P)H Regenerating Glucose Dehydrogenase in Synthetic Processes. Advanced Synthesis and Catalysis, 2013, 355, 1709-1714.	2.1	33
16	Engineering of a bi-enzymatic reaction for efficient production of the ascorbic acid precursor 2-keto-l-gulonic acid. Biochemical Engineering Journal, 2013, 79, 104-111.	1.8	5
17	REMOVED: Development of Thin Film Composite Ptmsp-Silica Membranes and Their Application in the in Situ Pervaporative Recovery of Bio-Alcohols. Procedia Engineering, 2012, 44, 546-548.	1.2	0
18	Integrated bioprocess for long-term continuous cultivation of Clostridium acetobutylicum coupled to pervaporation with PDMS composite membranes. Bioresource Technology, 2012, 111, 368-377.	4.8	102

#	Article	IF	Citations
19	A biocatalytic cascade reaction sensitive to the gasâ€“liquid interface: Modeling and upscaling in a dynamic membrane aeration reactor. Journal of Molecular Catalysis B: Enzymatic, 2011, 68, 154-161.	1.8	38
20	Bubbleâ€free oxygenation of a biâ€enzymatic system: effect on biocatalyst stability. Biotechnology and Bioengineering, 2009, 102, 122-131.	1.7	49
21	Kinetic modeling of a biâ€enzymatic system for efficient conversion of lactose to lactobionic acid. Biotechnology and Bioengineering, 2009, 102, 1475-1482.	1.7	43
22	Biocatalytic cascade oxidation using laccase for pyranose 2-oxidase regeneration. Bioresource Technology, 2009, 100, 5566-5573.	4.8	11
23	Determination of ozone solubility in polymeric materials. Chemical Engineering Journal, 2008, 138, 172-178.	6.6	13
24	Green oxidation of renewable carbohydrates: lactobionic acid production as an example. Communications in Agricultural and Applied Biological Sciences, 2008, 73, 9-13.	0.0	1