

Wouter Van Hecke

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

778
citations

623574

14
h-index

677027

22
g-index

24
all docs

24
docs citations

24
times ranked

918
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Advances in in-situ product recovery (ISPR) in whole cell biotechnology during the last decade. <i>Biotechnology Advances</i> , 2014, 32, 1245-1255. | 6.0 | 134 |
| 2 | Integrated bioprocess for long-term continuous cultivation of <i>Clostridium acetobutylicum</i> coupled to pervaporation with PDMS composite membranes. <i>Bioresource Technology</i> , 2012, 111, 368-377. | 4.8 | 102 |
| 3 | Sustainability metrics of 1-butanol. <i>Catalysis Today</i> , 2015, 239, 7-10. | 2.2 | 79 |
| 4 | Pervaporative recovery of ABE during continuous cultivation: Enhancement of performance. <i>Bioresource Technology</i> , 2013, 129, 421-429. | 4.8 | 60 |
| 5 | Bubble-free oxygenation of a biocatalytic system: effect on biocatalyst stability. <i>Biotechnology and Bioengineering</i> , 2009, 102, 122-131. | 1.7 | 49 |
| 6 | 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. <i>Journal of Membrane Science</i> , 2013, 447, 134-143. | 4.1 | 47 |
| 7 | Kinetic modeling of a biocatalytic system for efficient conversion of lactose to lactobionic acid. <i>Biotechnology and Bioengineering</i> , 2009, 102, 1475-1482. | 1.7 | 43 |
| 8 | Effects of moderately elevated pressure on gas fermentation processes. <i>Bioresource Technology</i> , 2019, 293, 122129. | 4.8 | 42 |
| 9 | A biocatalytic cascade reaction sensitive to the gas-liquid interface: Modeling and upscaling in a dynamic membrane aeration reactor. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 68, 154-161. | 1.8 | 38 |
| 10 | Guidelines for the Application of NAD(P)H Regenerating Glucose Dehydrogenase in Synthetic Processes. <i>Advanced Synthesis and Catalysis</i> , 2013, 355, 1709-1714. | 2.1 | 33 |
| 11 | Prospects & potential of biobutanol production integrated with organophilic pervaporation – A techno-economic assessment. <i>Applied Energy</i> , 2018, 228, 437-449. | 5.1 | 32 |
| 12 | High-flux POMS organophilic pervaporation for ABE recovery applied in fed-batch and continuous set-ups. <i>Journal of Membrane Science</i> , 2017, 540, 321-332. | 4.1 | 31 |
| 13 | Biobutanol production from C5/C6 carbohydrates integrated with pervaporation: experimental results and conceptual plant design. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2016, 43, 25-36. | 1.4 | 18 |
| 14 | Membrane bioreactors for syngas permeation and fermentation. <i>Critical Reviews in Biotechnology</i> , 2022, 42, 856-872. | 5.1 | 16 |
| 15 | Determination of ozone solubility in polymeric materials. <i>Chemical Engineering Journal</i> , 2008, 138, 172-178. | 6.6 | 13 |
| 16 | Biocatalytic cascade oxidation using laccase for pyranose 2-oxidase regeneration. <i>Bioresource Technology</i> , 2009, 100, 5566-5573. | 4.8 | 11 |
| 17 | Solvent-free lipase-catalyzed production of (meth)acrylate monomers: Experimental results and kinetic modeling. <i>Biochemical Engineering Journal</i> , 2019, 142, 162-169. | 1.8 | 9 |
| 18 | Investigation of lactate productivity in membrane bioreactors on C5/C6 carbohydrates. <i>Journal of Membrane Science</i> , 2017, 528, 336-345. | 4.1 | 7 |

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|----|--|-----|-----------|
| 19 | Engineering of a bi-enzymatic reaction for efficient production of the ascorbic acid precursor 2-keto-l-gulononic acid. <i>Biochemical Engineering Journal</i> , 2013, 79, 104-111. | 1.8 | 5 |
| 20 | Lipase-Catalyzed Solvent-Free Esterification of Furan Containing Components. <i>Waste and Biomass Valorization</i> , 2019, 10, 311-317. | 1.8 | 4 |
| 21 | Rational Design Method Based on Techno-Economic Principles for Integration of Organic/Organic Pervaporation with Lipase Catalyzed Transesterification. <i>Membranes</i> , 2021, 11, 407. | 1.4 | 4 |
| 22 | Green oxidation of renewable carbohydrates: lactobionic acid production as an example. <i>Communications in Agricultural and Applied Biological Sciences</i> , 2008, 73, 9-13. | 0.0 | 1 |
| 23 | REMOVED: Development of Thin Film Composite Ptmsp-Silica Membranes and Their Application in the in Situ Pervaporative Recovery of Bio-Alcohols. <i>Procedia Engineering</i> , 2012, 44, 546-548. | 1.2 | 0 |
| 24 | Intensivierung von Bioprozessen: Leistungssteigerung und geringere Kosten. <i>Chemie-Ingenieur-Technik</i> , 2014, 86, 1495-1495. | 0.4 | 0 |