

# Marco P C Marques

## List of Publications by Citations

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38

papers

841

citations

18

h-index

28

g-index

42

ext. papers

1,003

ext. citations

4.7

avg, IF

4.55

L-index

#	Paper	IF	Citations
38	Integration and application of optical chemical sensors in microbioreactors. <i>Lab on A Chip</i> , <b>2017</b> , 17, 2693-2712	7.28	81
37	Microfluidic devices: useful tools for bioprocess intensification. <i>Molecules</i> , <b>2011</b> , 16, 8368-401	4.8	76
36	Bioprocess scale-up: quest for the parameters to be used as criterion to move from microreactors to lab-scale. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2010</b> , 85, 1184-1198	3.5	70
35	mRNA vaccines manufacturing: Challenges and bottlenecks. <i>Vaccine</i> , <b>2021</b> , 39, 2190-2200	4.1	51
34	Conscious coupling: The challenges and opportunities of cascading enzymatic microreactors. <i>Biotechnology Journal</i> , <b>2017</b> , 12, 1700030	5.6	37
33	Bioprocess microfluidics: applying microfluidic devices for bioprocessing. <i>Current Opinion in Chemical Engineering</i> , <b>2017</b> , 18, 61-68	5.4	36
32	Rapid adaptation of <i>Rhodococcus erythropolis</i> cells to salt stress by synthesizing polyunsaturated fatty acids. <i>Applied Microbiology and Biotechnology</i> , <b>2014</b> , 98, 5599-606	5.7	35
31	Enzymatic synthesis of chiral amino-alcohols by coupling transketolase and transaminase-catalyzed reactions in a cascading continuous-flow microreactor system. <i>Biotechnology and Bioengineering</i> , <b>2018</b> , 115, 586-596	4.9	33
30	Sitosterol bioconversion with resting cells in liquid polymer based systems. <i>Bioresource Technology</i> , <b>2009</b> , 100, 4050-3	11	30
29	Real-time monitoring of specific oxygen uptake rates of embryonic stem cells in a microfluidic cell culture device. <i>Biotechnology Journal</i> , <b>2016</b> , 11, 1179-89	5.6	29
28	A simple method for biocatalyst immobilization using PVA-based hydrogel particles. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2009</b> , 84, 561-564	3.5	29
27	From inulin to fructose syrups using sol-gel immobilized inulinase. <i>Applied Biochemistry and Biotechnology</i> , <b>2011</b> , 165, 1-12	3.2	27
26	Steroid bioconversion: Towards green processes. <i>Food and Bioproducts Processing</i> , <b>2010</b> , 88, 12-20	4.9	26
25	Real-time pH monitoring of industrially relevant enzymatic reactions in a microfluidic side-entry reactor (SER) shows potential for pH control. <i>Biotechnology Journal</i> , <b>2017</b> , 12, 1600475	5.6	22
24	High throughput in biotechnology: from shake-flasks to fully instrumented microfermentors. <i>Recent Patents on Biotechnology</i> , <b>2009</b> , 3, 124-40	2.2	22
23	Miniaturization in biotechnology: speeding up the development of bioprocesses. <i>Recent Patents on Biotechnology</i> , <b>2011</b> , 5, 160-73	2.2	21
22	On the feasibility of in situ steroid biotransformation and product recovery in microchannels. <i>Chemical Engineering Journal</i> , <b>2010</b> , 160, 708-714	14.7	21

21	Continuous steroid biotransformations in microchannel reactors. <i>New Biotechnology</i> , <b>2012</b> , 29, 227-34	6.4	18
20	Screening for suitable solvents as substrate carriers for the microbial side-chain cleavage of sitosterol using microtitre plates. <i>Process Biochemistry</i> , <b>2009</b> , 44, 556-561	4.8	17
19	Sucrose Hydrolysis in a Bespoke Capillary Wall-Coated Microreactor. <i>Catalysts</i> , <b>2017</b> , 7, 42	4	16
18	Recent achievements on siderophore production and application. <i>Recent Patents on Biotechnology</i> , <b>2011</b> , 5, 183-98	2.2	16
17	Simplified immobilisation method for histidine-tagged enzymes in poly(methyl methacrylate) microfluidic devices. <i>New Biotechnology</i> , <b>2018</b> , 47, 31-38	6.4	16
16	Immobilization of mycobacterial cells onto silicone--assessing the feasibility of the immobilized biocatalyst in the production of androstenedione from sitosterol. <i>Bioresource Technology</i> , <b>2008</b> , 99, 2304-11	4.1	14
15	Quantification of the oxygen uptake rate in a dissolved oxygen controlled oscillating jet-driven microbioreactor. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2016</b> , 91, 823-831	3.5	14
14	Characterization of 24-well microtiter plate reactors for a complex multistep bioconversion: from sitosterol to androstenedione. <i>Journal of Biotechnology</i> , <b>2009</b> , 141, 174-80	3.7	11
13	Scaling-up of complex whole-cell bioconversions in conventional and non-conventional media. <i>Biotechnology and Bioengineering</i> , <b>2010</b> , 106, 619-26	4.9	10
12	On the feasibility of the microscale approach for a multistep biotransformation: sitosterol side chain cleavage. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2007</b> , 82, 856-863	3.5	10
11	Transfection in perfused microfluidic cell culture devices: A case study. <i>Process Biochemistry</i> , <b>2017</b> , 59, 297-302	4.8	9
10	A simple imaging method for biomass determination. <i>Journal of Microbiological Methods</i> , <b>2005</b> , 60, 135-408		8
9	Degradation of hydrocarbons and alcohols by <i>Rhodococcus erythropolis</i> DCL14: A comparison in scale performance. <i>Biocatalysis and Biotransformation</i> , <b>2007</b> , 25, 144-150	2.5	7
8	Flocculation on a chip: a novel screening approach to determine floc growth rates and select flocculating agents. <i>Lab on A Chip</i> , <b>2018</b> , 18, 585-594	7.2	6
7	Characterisation of an Adhesive-free Packaging System for Polymeric Microfluidic Biochemical Devices and Reactors. <i>Chemical and Biochemical Engineering Quarterly</i> , <b>2014</b> , 28, 189-202	1.8	5
6	Green Solvents for Biocatalysis <b>2012</b> , 121-146		5
5	A microwell platform for the scale-up of a multistep bioconversion to bench-scale reactors: sitosterol side-chain cleavage. <i>Biotechnology Journal</i> , <b>2010</b> , 5, 402-12	5.6	5
4	Anchoring high-throughput screening methods to scale-up bioproduction of siderophores. <i>Process Biochemistry</i> , <b>2012</b> , 47, 416-421	4.8	3

3	Microfluidic devices towards personalized health and wellbeing. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2019</b> , 94, 2412-2415	3.5	2
2	5 $\beta$ -Steroid Bioconversion to Androstenedione in Microtiter Plates. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1645, 167-176	1.4	2
1	Chapter 2:Microfluidics Theory in Practice. <i>RSC Detection Science</i> , <b>2014</b> , 29-60	0.4	