

Carla C C R De Carvalho

List of Publications by Year in descending order

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93
papers

4,636
citations

136950
32
h-index

106344
65
g-index

93
all docs

93
docs citations

93
times ranked

6204
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioaugmentation and biostimulation strategies to improve the effectiveness of bioremediation processes. Biodegradation, 2011, 22, 231-241.	3.0	615
2	The Various Roles of Fatty Acids. Molecules, 2018, 23, 2583.	3.8	403
3	Carvone: Why and how should one bother to produce this terpene. Food Chemistry, 2006, 95, 413-422.	8.2	323
4	Enzymatic and whole cell catalysis: Finding new strategies for old processes. Biotechnology Advances, 2011, 29, 75-83.	11.7	268
5	Marine Biofilms: A Successful Microbial Strategy With Economic Implications. Frontiers in Marine Science, 2018, 5, .	2.5	214
6	Biotransformation of terpenes. Biotechnology Advances, 2006, 24, 134-142.	11.7	211
7	Whole cell biocatalysts: essential workers from Nature to the industry. Microbial Biotechnology, 2017, 10, 250-263.	4.2	181
8	Fluorometric determination of ethidium bromide efflux kinetics in Escherichia coli. Journal of Biological Engineering, 2009, 3, 18.	4.7	164
9	Production of Metabolites as Bacterial Responses to the Marine Environment. Marine Drugs, 2010, 8, 705-727.	4.6	158
10	The remarkable Rhodococcus erythropolis. Applied Microbiology and Biotechnology, 2005, 67, 715-726.	3.6	122
11	Cell wall adaptations of planktonic and biofilm Rhodococcus erythropolis cells to growth on C5 to C16 n-alkane hydrocarbons. Applied Microbiology and Biotechnology, 2009, 82, 311-320.	3.6	109
12	Adaptation of Rhodococcus erythropolis cells for growth and bioremediation under extreme conditions. Research in Microbiology, 2012, 163, 125-136.	2.1	90
13	Carotenoids in Aquatic Ecosystems and Aquaculture: A Colorful Business with Implications for Human Health. Frontiers in Marine Science, 0, 4, .	2.5	88
14	Biofilms: Recent Developments on an Old Battle. Recent Patents on Biotechnology, 2007, 1, 49-57.	0.8	79
15	Degradation of hydrocarbons and alcohols at different temperatures and salinities by Rhodococcus erythropolis DCL14. FEMS Microbiology Ecology, 2005, 51, 389-399.	2.7	66
16	Burkholderia puraquae sp. nov., a novel species of the Burkholderia cepacia complex isolated from hospital settings and agricultural soils. International Journal of Systematic and Evolutionary Microbiology, 2018, 68, 14-20.	1.7	66
17	Adaptation of Rhodococcus erythropolis DCL14 to growth on n-alkanes, alcohols and terpenes. Applied Microbiology and Biotechnology, 2005, 67, 383-388.	3.6	63
18	Mycobacterium sp., Rhodococcus erythropolis, and Pseudomonas putida behavior in the presence of organic solvents. Microscopy Research and Technique, 2004, 64, 215-222.	2.2	55

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19	Phenotypic Modifications in <i>Staphylococcus aureus</i> Cells Exposed to High Concentrations of Vancomycin and Teicoplanin. <i>Frontiers in Microbiology</i> , 2016, 7, 13.	3.5	51
20	<i>Burkholderia cenocepacia</i> Phenotypic Clonal Variation during a 3.5-Year Colonization in the Lungs of a Cystic Fibrosis Patient. <i>Infection and Immunity</i> , 2011, 79, 2950-2960.	2.2	47
21	Membrane transport systems and the biodegradation potential and pathogenicity of genus <i>Rhodococcus</i> . <i>Frontiers in Physiology</i> , 2014, 5, 133.	2.8	47
22	Adaptation of <i>Rhodococcus erythropolis</i> cells to high concentrations of toluene. <i>Applied Microbiology and Biotechnology</i> , 2007, 76, 1423-1430.	3.6	46
23	Dietary Carotenoids Regulate Astaxanthin Content of Copepods and Modulate Their Susceptibility to UV Light and Copper Toxicity. <i>Marine Drugs</i> , 2012, 10, 998-1018.	4.6	43
24	Maintenance of cell viability in the biotransformation of (âˆ™)-carveol with whole cells of <i>Rhodococcus erythropolis</i> . <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2002, 19-20, 389-398.	1.8	40
25	Rapid adaptation of <i>Rhodococcus erythropolis</i> cells to salt stress by synthesizing polyunsaturated fatty acids. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 5599-606.	3.6	40
26	Sitosterol bioconversion with resting cells in liquid polymer based systems. <i>Bioresource Technology</i> , 2009, 100, 4050-4053.	9.6	39
27	Effect of carbon sources on lipid accumulation in <i>Rhodococcus</i> cells. <i>Biochemical Engineering Journal</i> , 2015, 94, 100-105.	3.6	38
28	Cell adaptation to solvent, substrate and product: a successful strategy to overcome product inhibition in a bioconversion system. <i>Applied Microbiology and Biotechnology</i> , 2005, 69, 268-275.	3.6	37
29	Fatty Acids as a Tool to Understand Microbial Diversity and Their Role in Food Webs of Mediterranean Temporary Ponds. <i>Molecules</i> , 2014, 19, 5570-5598.	3.8	37
30	Extraordinary soluteâ€”stress tolerance contributes to the environmental tenacity of mycobacteria. <i>Environmental Microbiology Reports</i> , 2015, 7, 746-764.	2.4	37
31	Steroid bioconversion: Towards green processes. <i>Food and Bioproducts Processing</i> , 2010, 88, 12-20.	3.6	36
32	Siderophores as “Trojan Horses” tackling multidrug resistance?. <i>Frontiers in Microbiology</i> , 2014, 5, 290.	3.5	36
33	Biofilms: Microbial Strategies for Surviving UV Exposure. <i>Advances in Experimental Medicine and Biology</i> , 2017, 996, 233-239.	1.6	34
34	Preventing biofilm formation: promoting cell separation with terpenes. <i>FEMS Microbiology Ecology</i> , 2007, 61, 406-413.	2.7	33
35	Behaviour of <i>Mycobacterium</i> sp. NRRL B-3805 whole cells in aqueous, organic-aqueous and organic media studied by fluorescence microscopy. <i>Applied Microbiology and Biotechnology</i> , 2004, 64, 695-701.	3.6	32
36	Assessment of three-dimensional biofilm structure using an optical microscope. <i>BioTechniques</i> , 2007, 42, 616-620.	1.8	30

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37	Lipids of Prokaryotic Origin at the Base of Marine Food Webs. <i>Marine Drugs</i> , 2012, 10, 2698-2714.	4.6	30
38	Production and Recovery of Limonene-1,2-Diol and Simultaneous Resolution of a Diastereomeric Mixture of Limonene-1,2-Epoxyde with whole Cells of <i>Rhodococcus erythropolis</i> DCL14. <i>Biocatalysis and Biotransformation</i> , 2000, 18, 223-235.	2.0	28
39	Influence of reactor configuration on the production of carvone from carveol by whole cells of <i>Rhodococcus erythropolis</i> DCL14. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2002, 19-20, 377-387.	1.8	27
40	Solvent toxicity in organic-aqueous systems analysed by multivariate analysis. <i>Bioprocess and Biosystems Engineering</i> , 2004, 26, 361-375.	3.4	26
41	Antibacterial properties of the extract of <i>Abelmoschus esculentus</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2011, 16, 971-977.	2.6	26
42	The multidrug resistance transporters CgTpo1_1 and CgTpo1_2 play a role in virulence and biofilm formation in the human pathogen <i>Candida glabrata</i> . <i>Cellular Microbiology</i> , 2017, 19, e12686.	2.1	26
43	Decoding the ocean's microbiological secrets for marine enzyme biodiscovery. <i>FEMS Microbiology Letters</i> , 2019, 366, .	1.8	26
44	Towards the bio-production of trans-carveol and carvone from limonene: induction after cell growth on limonene and toluene. <i>Tetrahedron: Asymmetry</i> , 2003, 14, 3925-3931.	1.8	25
45	Principal Components Analysis as a Tool to Summarise Biotransformation Data: Influence on Cells of Solvent Type and Phase Ratio. <i>Biocatalysis and Biotransformation</i> , 2003, 21, 305-314.	2.0	24
46	Multi-Enzyme Systems in Flow Chemistry. <i>Processes</i> , 2021, 9, 225.	2.8	22
47	A new NDT technique based on bacterial cells to detect micro surface defects. <i>NDT and E International</i> , 2014, 63, 43-49.	3.7	21
48	Chrysotile as a support for the immobilisation of <i>Mycobacterium</i> sp. NRRL B-3805 cells for the bioconversion of β -sitosterol in an organic-aqueous two-liquid phase system. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2005, 32, 61-65.	1.8	20
49	Adaptive response of <i>Rhodococcus opacus</i> PWD4 to salt and phenolic stress on the level of mycolic acids. <i>AMB Express</i> , 2016, 6, 66.	3.0	20
50	Recent Achievements on Siderophore Production and Application. <i>Recent Patents on Biotechnology</i> , 2011, 5, 183-198.	0.8	17
51	<i>Mycobacterial Response to Organic Solvents and Possible Implications on Cross-Resistance With Antimicrobial Agents</i> . <i>Frontiers in Microbiology</i> , 2018, 9, 961.	3.5	17
52	Biofilms: New Ideas for An Old Problem. <i>Recent Patents on Biotechnology</i> , 2012, 6, 13-22.	0.8	16
53	Adaptation of <i>Cupriavidus necator</i> to conditions favoring polyhydroxyalkanoate production. <i>Journal of Biotechnology</i> , 2013, 164, 309-317.	3.8	16
54	<i>Rhodococcus erythropolis</i> cells adapt their fatty acid composition during biofilm formation on metallic and non-metallic surfaces. <i>FEMS Microbiology Ecology</i> , 2015, 91, fiv135.	2.7	15

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55	Principal component analysis applied to bacterial cell behaviour in the presence of organic solvents. Biocatalysis and Biotransformation, 2004, 22, 203-214.	2.0	14
56	A simple method to observe organic solvent drops with a standard optical microscope. Microscopy Research and Technique, 2003, 60, 465-466.	2.2	13
57	Bacterial diversity assessed by cultivation-based techniques shows predominance of <i>Staphylococcus</i> species on coins collected in Lisbon and Casablanca. FEMS Microbiology Ecology, 2014, 88, 26-37.	2.7	13
58	Cultivation-based strategies to find efficient marine biocatalysts. Biotechnology Journal, 2017, 12, 1700036.	3.5	13
59	Ancient Procedures for the High-Tech World: Health Benefits and Antimicrobial Compounds from the Mediterranean Empires. Open Biotechnology Journal, 2008, 2, 235-246.	1.2	13
60	On the feasibility of the microscale approach for a multistep biotransformation: sitosterol side chain cleavage. Journal of Chemical Technology and Biotechnology, 2007, 82, 856-863.	3.2	12
61	Tumour metastasis as an adaptation of tumour cells to fulfil their phosphorus requirements. Medical Hypotheses, 2012, 78, 664-667.	1.5	12
62	Production and Purification of Therapeutic Enzymes. Advances in Experimental Medicine and Biology, 2019, 1148, 1-24.	1.6	12
63	Edible flowers of <i>Helichrysum italicum</i> : Composition, nutritive value, and bioactivities. Food Research International, 2022, 157, 111399.	6.2	11
64	Scaling-up of complex whole-cell bioconversions in conventional and non-conventional media. Biotechnology and Bioengineering, 2010, 106, 619-626.	3.3	10
65	Adaptation of <i>Rhodococcus</i> to Organic Solvents. Microbiology Monographs, 2010, , 109-131.	0.6	10
66	Phenotypic Adaptations Help <i>Rhodococcus erythropolis</i> Cells during the Degradation of Paraffin Wax. Biotechnology Journal, 2019, 14, e1800598.	3.5	10
67	Integral Analysis of Liquid-Hot-Water Pretreatment of Wheat Straw: Evaluation of the Production of Sugars, Degradation Products, and Lignin. Sustainability, 2022, 14, 362.	3.2	10
68	Modelling the biokinetic resolution of diastereomers present in unequal initial amounts. Tetrahedron: Asymmetry, 2002, 13, 1637-1643.	1.8	9
69	A simple imaging method for biomass determination. Journal of Microbiological Methods, 2005, 60, 135-140.	1.6	8
70	Anchoring high-throughput screening methods to scale-up bioproduction of siderophores. Process Biochemistry, 2012, 47, 416-421.	3.7	8
71	Degradation of hydrocarbons and alcohols by <i>Rhodococcus erythropolis</i> DCL14: A comparison in scale performance. Biocatalysis and Biotransformation, 2007, 25, 144-150.	2.0	7
72	Green Solvents for Biocatalysis. , 2012, , 121-146.		7

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73	Adaptation of Rhodococcus to Organic Solvents. Microbiology Monographs, 2019, , 103-135.	0.6	7
74	Process Development for Benzyl Alcohol Production by Whole-Cell Biocatalysis in Stirred and Packed Bed Reactors. Microorganisms, 2022, 10, 966.	3.6	7
75	Biotransformations. , 2011, , 451-460.		5
76	Mycobacterium vaccae Adaptation to Disinfectants and Hand Sanitisers, and Evaluation of Cross-Tolerance with Antimicrobials. Antibiotics, 2020, 9, 544.	3.7	5
77	Impact of PrsA on membrane lipid composition during daptomycin-resistance-mediated β^2 -lactam sensitization in clinical MRSA strains. Journal of Antimicrobial Chemotherapy, 2021, 77, 135-147.	3.0	5
78	Nova T�cnica de END Baseada em C�lulas Bacterianas para Detec��o de Micro e Nano Defeitos Superficiais. Soldagem E Inspecao, 2015, 20, 253-259.	0.6	4
79	Developments in micro- and nano-defects detection using bacterial cells. NDT and E International, 2016, 78, 20-28.	3.7	4
80	Using Biotechnology to Solve Engineering Problems: Non-Destructive Testing of Microfabrication Components. Materials, 2017, 10, 788.	2.9	4
81	Determining transaminase activity in bacterial libraries by time-lapse imaging. Chemical Communications, 2019, 55, 13538-13541.	4.1	4
82	�-Transaminase-Mediated Asymmetric Synthesis of (S)-1-(4-Trifluoromethylphenyl)Ethylamine. Catalysts, 2021, 11, 307.	3.5	4
83	Detection of mcr-1 Gene in Undefined Vibrio Species Isolated from Clams. Microorganisms, 2022, 10, 394.	3.6	4
84	Surface discontinuity detection using bacterial suspensions. Welding in the World, Le Soudage Dans Le Monde, 2015, 59, 723-730.	2.5	3
85	Fungi in Fermentation and Biotransformation Systems. Fungal Biology, 2016, , 525-541.	0.6	3
86	Optimization of Multiparameters for Increased Yields of Cytochrome B5 in Bioreactors. Molecules, 2021, 26, 4148.	3.8	2
87	Biocatalysis of Steroids with Mycobacterium sp. in Aqueous and Organic Media. Methods in Molecular Biology, 2017, 1645, 313-320.	0.9	1
88	Biotransformations. , 2017, , 574-585.		1
89	Marine exopolysaccharides provide protection in extreme environments. , 2019, , 95-110.		1
90	Degradation of toluene and xylene by Rhodococcus cells. Journal of Biotechnology, 2007, 131, S101.	3.8	0

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91	Lab-scale bioproduction of siderophores. Journal of Biotechnology, 2010, 150, 424-424.	3.8	0
92	Process intensification platforms for application in bioengineering. , 2011, , .		0
93	Nondestructive testing in microfabrication using bacteria. CiÃªncia & Tecnologia Dos Materiais, 2017, 29, e262-e264.	0.5	0