Carla C C R De Carvalho

List of Publications by Year
in descending order

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	Detection of mcr-1 Gene in Undefined Vibrio Species Isolated from Clams. Microorganisms, 2022, 10, 394.	3.6	4
2	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
3	Process Development for Benzyl Alcohol Production by Whole-Cell Biocatalysis in Stirred and Packed Bed Reactors. Microorganisms, 2022, 10, 966.	3.6	7
4	Edible flowers of Helichrysum italicum: Composition, nutritive value, and bioactivities. Food Research International, 2022, 157, 111399.	6.2	11
5	Impact of PrsA on membrane lipid composition during daptomycin-resistance-mediated Î²-lactam sensitization in clinical MRSA strains. Journal of Antimicrobial Chemotherapy, 2021, 77, 135-147.	3.0	5
6	Multi-Enzyme Systems in Flow Chemistry. Processes, 2021, 9, 225.	2.8	22
7	Ï‰-Transaminase-Mediated Asymmetric Synthesis of (S)-1-(4-Trifluoromethylphenyl)Ethylamine. Catalysts, 2021, 11, 307.	3.5	4
8	Optimization of Multiparameters for Increased Yields of Cytochrome B5 in Bioreactors. Molecules, 2021, 26, 4148.	3.8	2
9	Mycobacterium vaccae Adaptation to Disinfectants and Hand Sanitisers, and Evaluation of Cross-Tolerance with Antimicrobials. Antibiotics, 2020, 9, 544.	3.7	5
10	Phenotypic Adaptations Help Rhodococcus erythropolis Cells during the Degradation of Paraffin Wax. Biotechnology Journal, 2019, 14, e1800598.	3.5	10
11	Adaptation of Rhodococcus to Organic Solvents. Microbiology Monographs, 2019, , 103-135.	0.6	7
12	Determining transaminase activity in bacterial libraries by time-lapse imaging. Chemical Communications, 2019, 55, 13538-13541.	4.1	4
13	Decoding the ocean's microbiological secrets for marine enzyme biodiscovery. FEMS Microbiology Letters, 2019, 366, .	1.8	26
14	Production and Purification of Therapeutic Enzymes. Advances in Experimental Medicine and Biology, 2019, 1148, 1-24.	1.6	12
15	Marine exopolysaccharides provide protection in extreme environments. , 2019, , 95-110.		1
16	The Various Roles of Fatty Acids. Molecules, 2018, 23, 2583.	3.8	403
17	Marine Biofilms: A Successful Microbial Strategy With Economic Implications. Frontiers in Marine Science, 2018, 5, .	2.5	214
18	Mycobacterial Response to Organic Solvents and Possible Implications on Cross-Resistance With Antimicrobial Agents. Frontiers in Microbiology, 2018, 9, 961.	3.5	17

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19	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
20	Whole cell biocatalysts: essential workers from Nature to the industry. Microbial Biotechnology, 2017, 10, 250-263.	4.2	181
21	Cultivationâ€based strategies to find efficient marine biocatalysts. Biotechnology Journal, 2017, 12, 1700036.	3.5	13
22	Nondestructive testing in microfabrication using bacteria. CiÃªncia & Tecnologia Dos Materiais, 2017, 29, e262-e264.	0.5	0
23	Biocatalysis of Steroids with Mycobacterium sp. in Aqueous and Organic Media. Methods in Molecular Biology, 2017, 1645, 313-320.	0.9	1
24	Biofilms: Microbial Strategies for Surviving UV Exposure. Advances in Experimental Medicine and Biology, 2017, 996, 233-239.	1.6	34
25	The multidrug resistance transporters CgTpo1_1 and CgTpo1_2 play a role in virulence and biofilm formation in the human pathogenCandida glabrata. Cellular Microbiology, 2017, 19, e12686.	2.1	26
26	Biotransformations. , 2017, , 574-585.		1
27	Using Biotechnology to Solve Engineering Problems: Non-Destructive Testing of Microfabrication Components. Materials, 2017, 10, 788.	2.9	4
28	Phenotypic Modifications in Staphylococcus aureus Cells Exposed to High Concentrations of Vancomycin and Teicoplanin. Frontiers in Microbiology, 2016, 7, 13.	3.5	51
29	Adaptive response of Rhodococcus opacus PWD4 to salt and phenolic stress on the level of mycolic acids. AMB Express, 2016, 6, 66.	3.0	20
30	Fungi in Fermentation and Biotransformation Systems. Fungal Biology, 2016, , 525-541.	0.6	3
31	Developments in micro- and nano-defects detection using bacterial cells. NDT and E International, 2016, 78, 20-28.	3.7	4
32	Extraordinary soluteâ€stress tolerance contributes to the environmental tenacity of mycobacteria. Environmental Microbiology Reports, 2015, 7, 746-764.	2.4	37
33	Nova TÃ©cnica de END Baseada em CÃ©lulas Bacterianas para DetecÃ§Ã£o de Micro e Nano Defeitos Superficiais. Soldagem E Inspecao, 2015, 20, 253-259.	0.6	4
34	Rhodococcus erythropoliscells adapt their fatty acid composition during biofilm formation on metallic and non-metallic surfaces. FEMS Microbiology Ecology, 2015, 91, fiv135.	2.7	15
35	Surface discontinuity detection using bacterial suspensions. Welding in the World, Le Soudage Dans Le Monde, 2015, 59, 723-730.	2.5	3
36	Effect of carbon sources on lipid accumulation in Rhodococcus cells. Biochemical Engineering Journal, 2015, 94, 100-105.	3.6	38

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37	Fatty Acids as a Tool to Understand Microbial Diversity and Their Role in Food Webs of Mediterranean Temporary Ponds. Molecules, 2014, 19, 5570-5598.	3.8	37
38	Siderophores as Ã¢â‚¬Å“Trojan HorsesÃ¢â‚¬Â• tackling multidrug resistance?. Frontiers in Microbiology, 2014, 5, 290.	3.5	36
39	Membrane transport systems and the biodegradation potential and pathogenicity of genus Rhodococcus. Frontiers in Physiology, 2014, 5, 133.	2.8	47
40	Bacterial diversity assessed by cultivation-based techniques shows predominance ofStaphylococccusspecies on coins collected in Lisbon and Casablanca. FEMS Microbiology Ecology, 2014, 88, 26-37.	2.7	13
41	A new NDT technique based on bacterial cells to detect micro surface defects. NDT and E International, 2014, 63, 43-49.	3.7	21
42	Rapid adaptation of Rhodococcus erythropolis cells to salt stress by synthesizing polyunsaturated fatty acids. Applied Microbiology and Biotechnology, 2014, 98, 5599-606.	3.6	40
43	Adaptation of Cupriavidus necator to conditions favoring polyhydroxyalkanoate production. Journal of Biotechnology, 2013, 164, 309-317.	3.8	16
44	Lipids of Prokaryotic Origin at the Base of Marine Food Webs. Marine Drugs, 2012, 10, 2698-2714.	4.6	30
45	Biofilms: New Ideas for An Old Problem. Recent Patents on Biotechnology, 2012, 6, 13-22.	0.8	16
46	Green Solvents for Biocatalysis. , 2012, , 121-146.		7
47	Adaptation of Rhodococcus erythropolis cells for growth and bioremediation under extreme conditions. Research in Microbiology, 2012, 163, 125-136.	2.1	90
48	Tumour metastasis as an adaptation of tumour cells to fulfil their phosphorus requirements. Medical Hypotheses, 2012, 78, 664-667.	1.5	12
49	Dietary Carotenoids Regulate Astaxanthin Content of Copepods and Modulate Their Susceptibility to UV Light and Copper Toxicity. Marine Drugs, 2012, 10, 998-1018.	4.6	43
50	Anchoring high-throughput screening methods to scale-up bioproduction of siderophores. Process Biochemistry, 2012, 47, 416-421.	3.7	8
51	Process intensification platforms for application in bioengineering. , 2011, , .		0
52	Burkholderia cenocepacia Phenotypic Clonal Variation during a 3.5-Year Colonization in the Lungs of a Cystic Fibrosis Patient. Infection and Immunity, 2011, 79, 2950-2960.	2.2	47
53	Biotransformations. , 2011, , 451-460.		5
54	Enzymatic and whole cell catalysis: Finding new strategies for old processes. Biotechnology Advances, 2011, 29, 75-83.	11.7	268

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55	Bioaugmentation and biostimulation strategies to improve the effectiveness of bioremediation processes. Biodegradation, 2011, 22, 231-241.	3.0	615
56	Antibacterial properties of the extract of Abelmoschus esculentus. Biotechnology and Bioprocess Engineering, 2011, 16, 971-977.	2.6	26
57	Recent Achievements on Siderophore Production and Application. Recent Patents on Biotechnology, 2011, 5, 183-198.	0.8	17
58	Steroid bioconversion: Towards green processes. Food and Bioproducts Processing, 2010, 88, 12-20.	3.6	36
59	Scalingâ€up of complex wholeâ€cell bioconversions in conventional and nonâ€conventional media. Biotechnology and Bioengineering, 2010, 106, 619-626.	3.3	10
60	Lab-scale bioproduction of siderophores. Journal of Biotechnology, 2010, 150, 424-424.	3.8	0
61	Adaptation of Rhodococcus to Organic Solvents. Microbiology Monographs, 2010, , 109-131.	0.6	10
62	Production of Metabolites as Bacterial Responses to the Marine Environment. Marine Drugs, 2010, 8, 705-727.	4.6	158
63	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
64	Sitosterol bioconversion with resting cells in liquid polymer based systems. Bioresource Technology, 2009, 100, 4050-4053.	9.6	39
65	Fluorometric determination of ethidium bromide efflux kinetics in Escherichia coli. Journal of Biological Engineering, 2009, 3, 18.	4.7	164
66	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
67	Biofilms: Recent Developments on an Old Battle. Recent Patents on Biotechnology, 2007, 1, 49-57.	0.8	79
68	Degradation of hydrocarbons and alcohols byRhodococcus erythropolisDCL14: A comparison in scale performance. Biocatalysis and Biotransformation, 2007, 25, 144-150.	2.0	7
69	Degradation of toluene and xylene by Rhodococcus cells. Journal of Biotechnology, 2007, 131, S101.	3.8	0
70	Assessment of three-dimensional biofilm structure using an optical microscope. BioTechniques, 2007, 42, 616-620.	1.8	30
71	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
72	Preventing biofilm formation: promoting cell separation with terpenes. FEMS Microbiology Ecology, 2007, 61, 406-413.	2.7	33

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73	Adaptation of Rhodococcus erythropolis cells to high concentrations of toluene. Applied Microbiology and Biotechnology, 2007, 76, 1423-1430.	3.6	46
74	Carvone: Why and how should one bother to produce this terpene. Food Chemistry, 2006, 95, 413-422.	8.2	323
75	Biotransformation of terpenes. Biotechnology Advances, 2006, 24, 134-142.	11.7	211
76	Degradation of hydrocarbons and alcohols at different temperatures and salinities by Rhodococcus erythropolis DCL14. FEMS Microbiology Ecology, 2005, 51, 389-399.	2.7	66
77	Chrysotile as a support for the immobilisation of Mycobacterium sp. NRRL B-3805 cells for the bioconversion of Î²-sitosterol in an organicâ€“aqueous two-liquid phase system. Journal of Molecular Catalysis B: Enzymatic, 2005, 32, 61-65.	1.8	20
78	Adaptation of Rhodococcus erythropolis DCL14 to growth on n-alkanes, alcohols and terpenes. Applied Microbiology and Biotechnology, 2005, 67, 383-388.	3.6	63
79	The remarkable Rhodococcus erythropolis. Applied Microbiology and Biotechnology, 2005, 67, 715-726.	3.6	122
80	Cell adaptation to solvent, substrate and product: a successful strategy to overcome product inhibition in a bioconversion system. Applied Microbiology and Biotechnology, 2005, 69, 268-275.	3.6	37
81	A simple imaging method for biomass determination. Journal of Microbiological Methods, 2005, 60, 135-140.	1.6	8
82	Principal component analysis applied to bacterial cell behaviour in the presence of organic solvents. Biocatalysis and Biotransformation, 2004, 22, 203-214.	2.0	14
83	Solvent toxicity in organic-aqueous systems analysed by multivariate analysis. Bioprocess and Biosystems Engineering, 2004, 26, 361-375.	3.4	26
84	Behaviour of Mycobacterium sp. NRRL B-3805 whole cells in aqueous, organic-aqueous and organic media studied by fluorescence microscopy. Applied Microbiology and Biotechnology, 2004, 64, 695-701.	3.6	32
85	Mycobacterium sp.,Rhodococcus erythropolis, andPseudomonas putida behavior in the presence of organic solvents. Microscopy Research and Technique, 2004, 64, 215-222.	2.2	55
86	A simple method to observe organic solvent drops with a standard optical microscope. Microscopy Research and Technique, 2003, 60, 465-466.	2.2	13
87	Towards the bio-production of trans-carveol and carvone from limonene: induction after cell growth on limonene and toluene. Tetrahedron: Asymmetry, 2003, 14, 3925-3931.	1.8	25
88	Principal Components Analysis as a Tool to Summarise Biotransformation Data: Influence on Cells of Solvent Type and Phase Ratio. Biocatalysis and Biotransformation, 2003, 21, 305-314.	2.0	24
89	Influence of reactor configuration on the production of carvone from carveol by whole cells of Rhodococcus erythropolis DCL14. Journal of Molecular Catalysis B: Enzymatic, 2002, 19-20, 377-387.	1.8	27
90	Maintenance of cell viability in the biotransformation of (â˜)-carveol with whole cells of Rhodococcus erythropolis. Journal of Molecular Catalysis B: Enzymatic, 2002, 19-20, 389-398.	1.8	40

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91	Modelling the biokinetic resolution of diastereomers present in unequal initial amounts. Tetrahedron: Asymmetry, 2002, 13, 1637-1643.	1.8	9
92	Production and Recovery of Limonene-1,2-Diol and Simultaneous Resolution of a Diastereomeric Mixture of Limonene-1,2-Epoxide with whole Cells ofRhodococcus ErythropolisDCL14. Biocatalysis and Biotransformation, 2000, 18, 223-235.	2.0	28
93	Carotenoids in Aquatic Ecosystems and Aquaculture: A Colorful Business with Implications for Human Health. Frontiers in Marine Science, 0, 4, .	2.5	88