

Matheus M Pereira

List of Publications by Year in descending order

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117
papers

2,667
citations

186254
28
h-index

233409
45
g-index

119
all docs

119
docs citations

119
times ranked

3030
citing authors

#	ARTICLE	IF	CITATIONS
1	Utilization of corncob as adsorbent to remove oil and grease from produced water. <i>Petroleum Science and Technology</i> , 2023, 41, 477-492.	1.5	1
2	Ionic liquid synergistic effect between preparation of hybrid supports and immobilization of lipase applied to esters production. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 1143-1156.	3.6	5
3	Biosurfactants produced from corncob: a bibliometric perspective of a renewable and promising substrate. <i>Preparative Biochemistry and Biotechnology</i> , 2022, 52, 123-134.	1.9	5
4	Valorization of Pineapple Waste: a Review on How the Fruit's Potential Can Reduce Residue Generation. <i>Bioenergy Research</i> , 2022, 15, 924-934.	3.9	14
5	Tailoring the partitioning of proteins using ionic liquids as adjuvants in polymer-polymer aqueous biphasic systems. <i>Green Chemical Engineering</i> , 2022, 3, 328-337.	6.3	7
6	Development of a semi-empirical model for woody biomass gasification based on stoichiometric thermodynamic equilibrium model. <i>Energy</i> , 2022, 241, 122894.	8.8	2
7	Enhanced Enzyme Reuse through the Bioconjugation of L-Asparaginase and Silica-Based Supported Ionic Liquid-like Phase Materials. <i>Molecules</i> , 2022, 27, 929.	3.8	5
8	Evaluation of lipase access tunnels and analysis of substance transport in comparison with experimental data. <i>Bioprocess and Biosystems Engineering</i> , 2022, 45, 1149-1162.	3.4	4
9	Integrated Approach to Extract and Purify Proteins from Honey by Ionic Liquid-Based Three-Phase Partitioning. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 9275-9281.	6.7	6
10	Presenting B-DNA as macromolecular crowding agent to improve efficacy of cytochrome c under various stresses. <i>International Journal of Biological Macromolecules</i> , 2022, 215, 184-191.	7.5	8
11	Metadata analysis of systematic literature reviews on academic spin-offs. <i>International Journal for Innovation Education and Research</i> , 2022, 10, 259-282.	0.1	0
12	Enzymatic transesterification of coconut oil by using immobilized lipase on biochar: An experimental and molecular docking study. <i>Biotechnology and Applied Biochemistry</i> , 2021, 68, 801-808.	3.1	19
13	One step selective partition of μ -polylysine present in broth cultures in ionic liquid-based aqueous biphasic systems. <i>Separation Science and Technology</i> , 2021, 56, 631-639.	2.5	8
14	Lipase activation by molecular bioimprinting: The role of interactions between fatty acids and enzyme active site. <i>Biotechnology Progress</i> , 2021, 37, e3064.	2.6	18
15	Design for preparation of more active cross-linked enzyme aggregates of <i>Burkholderia cepacia</i> lipase using palm fiber residue. <i>Bioprocess and Biosystems Engineering</i> , 2021, 44, 57-66.	3.4	18
16	Potential Use of Crude Coffee Silverskin Oil in Integrated Bioprocess for Fatty Acids Production. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2021, 98, 519-529.	1.9	4
17	Anti-Tumor Efficiency of Perillyl alcohol/ β -Cyclodextrin Inclusion Complexes in a Sarcoma S180-Induced Mice Model. <i>Pharmaceutics</i> , 2021, 13, 245.	4.5	10
18	Preconcentration and chromatographic detection of atrazine in real water sample using aqueous two-phase system based on tetrahydrofuran and glycerol. <i>Environmental Quality Management</i> , 2021, 31, 39-48.	1.9	7

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19	Are ionic liquids and deep eutectic solvents the same?: Fundamental investigation from DNA dissolution point of view. <i>Journal of Molecular Liquids</i> , 2021, 328, 115386.	4.9	16
20	Computational and experimental analysis on the preferential selectivity of lipases for triglycerides in Licuri oil. <i>Bioprocess and Biosystems Engineering</i> , 2021, 44, 2141-2151.	3.4	6
21	Rutin-Functionalized Multi-Walled Carbon Nanotubes: Molecular Docking, Physicochemistry and Cytotoxicity in Fibroblasts. <i>Toxics</i> , 2021, 9, 173.	3.7	5
22	Potential of pineapple peel in the alternative composition of culture media for biosurfactant production. <i>Environmental Science and Pollution Research</i> , 2021, 28, 68957-68971.	5.3	9
23	Designing biopolymer-based artificial peroxidase for oxidative removal of dibenzothiophene from a model diesel fuel. <i>International Journal of Biological Macromolecules</i> , 2021, 183, 1784-1793.	7.5	3
24	An overview of current research and developments in biosurfactants. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 100, 1-18.	5.8	42
25	Biolubricant production under zero-waste <i>Moringa oleifera</i> Lam biorefinery approach for boosting circular economy. <i>Industrial Crops and Products</i> , 2021, 167, 113542.	5.2	22
26	Ethanollic two-phase system formed by polypropylene glycol, ethylene glycol and/or ionic liquid (phase-forming or adjuvant) as a platform to phase separation and partitioning study. <i>Journal of Molecular Liquids</i> , 2021, 344, 117702.	4.9	4
27	Liquid-liquid equilibrium data for the ternary system based on ionic liquid+organic solvents+water at 298 K and atmospheric pressure applied in antidepressant partitioning. <i>Separation and Purification Technology</i> , 2021, 278, 119532.	7.9	4
28	Performance of tetraalkylammonium-based ionic liquids as constituents of aqueous biphasic systems in the extraction of ovalbumin and lysozyme. <i>Separation and Purification Technology</i> , 2020, 233, 116019.	7.9	39
29	Selective extraction of female hormones using aqueous two-phase system composed of double protic ionic liquid+ acetonitrile. <i>Fluid Phase Equilibria</i> , 2020, 508, 112443.	2.5	16
30	Mycoremediation of vinasse by surface response methodology and preliminary studies in air-lift bioreactors. <i>Chemosphere</i> , 2020, 244, 125432.	8.2	19
31	β -Cyclodextrin/Isopentyl Caffate Inclusion Complex: Synthesis, Characterization and Antileishmanial Activity. <i>Molecules</i> , 2020, 25, 4181.	3.8	9
32	Neoteric Solvent Systems as Sustainable Media for Dissolution and Film Preparation of Poly-[(R)-3-hydroxybutyrate]. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12005-12013.	6.7	14
33	Towards the differential diagnosis of prostate cancer by the pre-treatment of human urine using ionic liquids. <i>Scientific Reports</i> , 2020, 10, 14931.	3.3	11
34	Sunflower stalk as a carbon source inductive for fungal xylanase production. <i>Industrial Crops and Products</i> , 2020, 153, 112368.	5.2	17
35	Instantaneous fibrillation of egg white proteome with ionic liquid and macromolecular crowding. <i>Communications Materials</i> , 2020, 1, .	6.9	7
36	Introducing deep eutectic solvents as flux boosting and surface cleaning agents for thin film composite polyamide membranes. <i>Green Chemistry</i> , 2020, 22, 2381-2387.	9.0	33

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37	A Bibliometric Description of Lignin Applicability for the Removal of Chemical Pollutants in Effluents. Water, Air, and Soil Pollution, 2020, 231, 1.	2.4	7
38	Continuous flow reactor based with an immobilized biocatalyst for the continuous enzymatic transesterification of crude coconut oil. Biotechnology and Applied Biochemistry, 2020, 67, 404-413.	3.1	6
39	Evaluation of the bibliometric scenario of the Delphi method with Brazilian affiliations. International Journal for Innovation Education and Research, 2020, 8, 225-236.	0.1	1
40	Evaluation of a new strategy in the elaboration of culture media to produce surfactin from hemicellulosic corncob liquor. Biotechnology Reports (Amsterdam, Netherlands), 2019, 24, e00364.	4.4	18
41	Enhanced Activity of Immobilized Lipase by Phosphonium-Based Ionic Liquids Used in the Support Preparation and Immobilization Process. ACS Sustainable Chemistry and Engineering, 2019, 7, 15648-15659.	6.7	26
42	Thermodynamic equilibrium model based on stoichiometric method for biomass gasification: A review of model modifications. Renewable and Sustainable Energy Reviews, 2019, 114, 109305.	16.4	45
43	Enhancing the Biocatalytic Activity of L-Asparaginase Using Aqueous Solutions of Cholinium-Based Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2019, 7, 19720-19731.	6.7	12
44	Sustainable strategies based on glycine-βbetaine analogue ionic liquids for the recovery of monoclonal antibodies from cell culture supernatants. Green Chemistry, 2019, 21, 5671-5682.	9.0	31
45	Optimization of the enzymatic hydrolysis of Moringa oleifera Lam oil using molecular docking analysis for fatty acid specificity. Biotechnology and Applied Biochemistry, 2019, 66, 823-832.	3.1	37
46	Production of Biomass-Degrading Enzymes by Trichoderma reesei Using Liquid Hot Water-Pretreated Corncob in Different Conditions of Oxygen Transfer. Bioenergy Research, 2019, 12, 583-592.	3.9	10
47	Laccase Activation in Deep Eutectic Solvents. ACS Sustainable Chemistry and Engineering, 2019, 7, 11806-11814.	6.7	95
48	Simultaneous morphological transformation of metal salt and conformations of DNA in a bio-based ionic liquid. International Journal of Biological Macromolecules, 2019, 135, 926-930.	7.5	6
49	Synthesis and characterization of analogues of glycine-betaine ionic liquids and their use in the formation of aqueous biphasic systems. Fluid Phase Equilibria, 2019, 494, 239-245.	2.5	14
50	Integral use of lignocellulosic residues from different sunflower accessions: Analysis of the production potential for biofuels. Journal of Cleaner Production, 2019, 221, 430-438.	9.3	24
51	Effects of phosphonium-based ionic liquids on the lipase activity evaluated by experimental results and molecular docking. Biotechnology Progress, 2019, 35, e2816.	2.6	17
52	Intellectual property challenges for the roads of innovation in Brazil. Innovation & Management Review, 2019, 16, 185-192.	2.5	1
53	Understanding the effect of ionic liquids as adjuvants in the partition of biomolecules in aqueous two-phase systems formed by polymers and weak salting-out agents. Biochemical Engineering Journal, 2019, 141, 239-246.	3.6	40
54	Análise patentária: uma avaliação sobre as instituições científicas, tecnológicas e de inovação do estado de Sergipe. Revista Tecnologia E Sociedade, 2019, 15, .	0.1	0

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55	Potential of aqueous two-phase systems for the separation of levodopa from similar biomolecules. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 1940-1947.	3.2	10
56	Evaluation of the effect of ionic liquids as adjuvants in polymer-based aqueous biphasic systems using biomolecules as molecular probes. <i>Separation and Purification Technology</i> , 2018, 196, 244-253.	7.9	35
57	An overview of applications in pineapple agroindustrial residues. <i>Acta Agriculturae Slovenica</i> , 2018, 111, 445.	0.3	12
58	Prospecting of soybean hulls as an inducer carbon source for the cellulase production. <i>Preparative Biochemistry and Biotechnology</i> , 2018, 48, 743-749.	1.9	6
59	Enhanced separation performance of aqueous biphasic systems formed by carbohydrates and tetraalkylphosphonium- or tetraalkylammonium-based ionic liquids. <i>Green Chemistry</i> , 2018, 20, 2978-2983.	9.0	33
60	Lipase Immobilization on Silica Xerogel Treated with Protic Ionic Liquid and its Application in Biodiesel Production from Different Oils. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1829.	4.1	37
61	Glycine-βbetaine ionic liquid analogues as novel phase-forming components of aqueous biphasic systems. <i>Biotechnology Progress</i> , 2018, 34, 1205-1212.	2.6	16
62	High concentration solubility and stability of É-poly-L-lysine in an ammonium-based ionic liquid: A suitable media for polypeptide packaging and biomaterial preparation. <i>International Journal of Biological Macromolecules</i> , 2018, 120, 378-384.	7.5	20
63	Alcohol and Health: Standards of Consumption, Benefits and Harm - a Review. <i>Czech Journal of Food Sciences</i> , 2018, 36, 427-440.	1.2	3
64	Analysis of the performance of the brazilian intellectual property system: challenges and perspectives. <i>Revista Gest&e Tecnologia</i> , 2018, 18, 172-199.	0.3	0
65	Protic ionic liquids influence on immobilization of LipaseBurkholderia cepaciaon hybrid supports. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 633-641.	3.2	10
66	Very High Concentration Solubility and Long-Term Stability of DNA in an Ammonium-Based Ionic Liquid: A Suitable Medium for Nucleic Acid Packaging and Preservation. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 1998-2005.	6.7	49
67	Long-term protein packaging in cholinium-based ionic liquids: improved catalytic activity and enhanced stability of cytochrome c against multiple stresses. <i>Green Chemistry</i> , 2017, 19, 4900-4911.	9.0	83
68	Prospecting fungal ligninases using corncob lignocellulosic fractions. <i>Cellulose</i> , 2017, 24, 4355-4365.	4.9	17
69	DESAFIOS E PERSPECTIVAS DOS MEDICAMENTOS ANTIRETROVIRAIS NO BRASIL: UMA INVESTIGA&fO BIBLIOGR&fICA. <i>Revista GEINTEC</i> , 2017, 7, 3986-3997.	0.2	0
70	THE NOVEL MESOPOROUS SILICA AEROGEL MODIFIED WITH PROTIC IONIC LIQUID FOR LIPASE IMMOBILIZATION. <i>Quimica Nova</i> , 2016, , .	0.3	9
71	Single-step purification of ovalbumin from egg white using aqueous biphasic systems. <i>Process Biochemistry</i> , 2016, 51, 781-791.	3.7	42
72	PROSPEC&fO TECNOL&fICA SOBRE UM DISPOSITIVO DO SISTEMA DE PROTE&fO DAS PRENSAS MEC&fNICAS, EXC&fNTRICAS DE ENGATE POR CHAVETA (PMEEC). <i>Revista GEINTEC</i> , 2016, 6, 3319-3328.	0.2	0

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73	Use of ionic liquids as additives for the immobilization of lipase from <i>Bacillus sp</i> .. Journal of Chemical Technology and Biotechnology, 2015, 90, 1308-1316.	3.2	11
74	Enhanced extraction of proteins using cholinium-based ionic liquids as phase-forming components of aqueous biphasic systems. Biotechnology Journal, 2015, 10, 1457-1466.	3.5	92
75	Enhanced extraction of bovine serum albumin with aqueous biphasic systems of phosphonium- and ammonium-based ionic liquids. Journal of Biotechnology, 2015, 206, 17-25.	3.8	75
76	New strategy to apply perfluorodecalin as an oxygen carrier in lipase production: minimisation and reuse. Bioprocess and Biosystems Engineering, 2015, 38, 721-728.	3.4	4
77	Contact angles and wettability of ionic liquids on polar and non-polar surfaces. Physical Chemistry Chemical Physics, 2015, 17, 31653-31661.	2.8	77
78	Immobilization of <i>Candida rugosa</i> lipase onto an eco-friendly support in the presence of ionic liquid. Bioprocess and Biosystems Engineering, 2015, 38, 805-814.	3.4	12
79	Poly(vinyl alcohol) as a novel constituent to form aqueous two-phase systems with acetonitrile: Phase diagrams and partitioning experiments. Chemical Engineering Research and Design, 2015, 94, 317-323.	5.6	20
80	Cellulose from Lignocellulosic Waste. , 2015, , 475-511.		16
81	Cellulose from Lignocellulosic Waste. , 2014, , 1-33.		6
82	Fermentation pH in stirred tank and air-lift bioreactors affects phytase secretion by <i>Aspergillus japonicus</i> differently but not the particle size. Biocatalysis and Biotransformation, 2014, 32, 39-44.	2.0	3
83	Ionic liquids as additives to enhance the extraction of antioxidants in aqueous two-phase systems. Separation and Purification Technology, 2014, 128, 1-10.	7.9	116
84	Immobilization and characterisation of a lipase from a new source, <i>Bacillus sp.</i> ITP-001. Bioprocess and Biosystems Engineering, 2013, 36, 1385-1394.	3.4	6
85	Influence of volumetric oxygen transfer coefficient (k_La) on xylanases batch production by <i>Aspergillus niger</i> van Tieghem in stirred tank and internal-loop airlift bioreactors. Biochemical Engineering Journal, 2013, 80, 19-26.	3.6	40
86	Treatment of Biodiesel Wastewater by Combined Electroflotation and Electrooxidation Processes. Separation Science and Technology, 2013, 48, 2073-2079.	2.5	20
87	Production of xylanase and β -xylosidase from autohydrolysis liquor of corncob using two fungal strains. Bioprocess and Biosystems Engineering, 2012, 35, 1185-1192.	3.4	35
88	Bromelain Enzyme from Pineapple: In Vitro Activity Study under Different Micropropagation Conditions. Applied Biochemistry and Biotechnology, 2012, 168, 234-246.	2.9	17
89	Tratamentos dos efluentes gerados na produ��o de biodiesel. Qu�mica Nova, 2012, 35, 367-378.	0.3	6
90	Bioethanol production from hydrothermal pretreated wheat straw by a flocculating <i>Saccharomyces cerevisiae</i> strain - Effect of process conditions. Fuel, 2012, 95, 528-536.	6.4	100

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91	A review of methods of low alcohol and alcohol-free beer production. Journal of Food Engineering, 2012, 108, 493-506.	5.2	203
92	Xylanase and β -Xylosidase Production by <i>Aspergillus ochraceus</i> : New Perspectives for the Application of Wheat Straw Autohydrolysis Liquor. Applied Biochemistry and Biotechnology, 2012, 166, 336-347.	2.9	30
93	Immobilization of <i>Candida rugosa</i> lipase on poly(3-hydroxybutyrate-co-hydroxyvalerate): a new eco-friendly support. Journal of Industrial Microbiology and Biotechnology, 2012, 39, 289-298.	3.0	44
94	Evaluation of sugar-cane vinasse treated with <i>Pleurotus sajor-caju</i> utilizing aquatic organisms as toxicological indicators. Ecotoxicology and Environmental Safety, 2011, 74, 132-137.	6.0	72
95	Production of xylanolytic enzymes by <i>Aspergillus terricola</i> in stirred tank and airlift tower loop bioreactors. Journal of Industrial Microbiology and Biotechnology, 2011, 38, 1979-1984.	3.0	25
96	Development and Characterization of an Environmentally Friendly Process Sequence (Autohydrolysis) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 629-641.	2.9	88
97	Evaluation of a hydrothermal process for pretreatment of wheat straw—effect of particle size and process conditions. Journal of Chemical Technology and Biotechnology, 2011, 86, 88-94.	3.2	43
98	Aqueous two-phase micellar systems in an oscillatory flow micro-reactor: study of perspectives and experimental performance. Journal of Chemical Technology and Biotechnology, 2011, 86, 1159-1165.	3.2	7
99	Processing of byproducts to improve nisin production by <i>Lactococcus lactis</i> . African Journal of Biotechnology, 2011, 10, .	0.6	15
100	Effect of cultivation conditions on glucose-6-phosphate dehydrogenase production by genetically modified <i>Saccharomyces cerevisiae</i> . Brazilian Journal of Chemical Engineering, 2009, 26, 1-9.	1.3	1
101	Banana as Adjunct in Beer Production: Applicability and Performance of Fermentative Parameters. Applied Biochemistry and Biotechnology, 2009, 155, 53-62.	2.9	31
102	Total Soluble Solids from Banana: Evaluation and Optimization of Extraction Parameters. Applied Biochemistry and Biotechnology, 2009, 153, 34-43.	2.9	7
103	Cellulosic Films Obtained from the Treatment of Sugarcane Bagasse Fibers with N-methylmorpholine-N-oxide (NMMO). Applied Biochemistry and Biotechnology, 2009, 154, 38-47.	2.9	14
104	An Alternative Application to the Portuguese Agro-Industrial Residue: Wheat Straw. Applied Biochemistry and Biotechnology, 2008, 147, 85-96.	2.9	47
105	High gravity batch and continuous processes for beer production: Evaluation of fermentation performance and beer quality. Chemical Papers, 2008, 62, .	2.2	19
106	Partial purification of glucose-6-phosphate dehydrogenase by aqueous two-phase poly(ethyleneglycol)/phosphate systems. Brazilian Journal of Microbiology, 2007, 38, 78-83.	2.0	8
107	Continuous immobilized yeast reactor system for complete beer fermentation using spent grains and corncobs as carrier materials. Journal of Industrial Microbiology and Biotechnology, 2006, 33, 1010-1018.	3.0	41
108	Factors influencing ethanol production rates at high-gravity brewing. LWT - Food Science and Technology, 2004, 37, 797-802.	5.2	24

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109	Partition Behavior and Partial Purification of Hexokinase in Aqueous Two-Phase Polyethylene Glycol/Citrate Systems. <i>Applied Biochemistry and Biotechnology</i> , 2003, 108, 787-798.	2.9	20
110	Improvement of the ethanol productivity in a high gravity brewing at pilot plant scale. <i>Biotechnology Letters</i> , 2003, 25, 1171-1174.	2.2	19
111	Influence of pH on the partition of glucose-6-phosphate dehydrogenase and hexokinase in aqueous two-phase system. <i>Brazilian Journal of Microbiology</i> , 2002, 33, 196-201.	2.0	17
112	Effect of k_L on the Production of Glucose 6-Phosphate Dehydrogenase from <i>Saccharomyces cerevisiae</i> Grown by Fermentation Process. <i>Applied Biochemistry and Biotechnology</i> , 2002, 98-100, 205-214.	2.9	7
113	Effect of pH on the Stability of Hexokinase and Glucose 6-Phosphate Dehydrogenase. <i>Applied Biochemistry and Biotechnology</i> , 2002, 98-100, 265-272.	2.9	10
114	Overexpression of Glucose-6-Phosphate Dehydrogenase in Genetically Modified <i>Saccharomyces cerevisiae</i> . <i>Applied Biochemistry and Biotechnology</i> , 2001, 91-93, 161-170.	2.9	18
115	Effect of Agitation and Aeration on Production of Hexokinase by <i>Saccharomyces cerevisiae</i> . <i>Applied Biochemistry and Biotechnology</i> , 2001, 91-93, 605-614.	2.9	9
116	Sustainable Production of Quaternary Ammonium Seaweed Polysaccharide Salts and Their Evaluation for Seed Dressing in Agricultural Applications. <i>ACS Agricultural Science and Technology</i> , 0, , .	2.3	3
117	Produced water treatment and its green future in the oil and gas industry; a multi-criteria decision-making study. <i>International Journal of Environmental Science and Technology</i> , 0, , 1.	3.5	0