

Alexsandra Valerio

List of Publications by Year in descending order

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82
papers

1,951
citations

257357

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39
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82
all docs

82
docs citations

82
times ranked

2543
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanomaterials for biocatalyst immobilization – state of the art and future trends. RSC Advances, 2016, 6, 104675-104692.	1.7	267
2	Driving Immobilized Lipases as Biocatalysts: 10 Years State of the Art and Future Prospects. Industrial & Engineering Chemistry Research, 2019, 58, 5358-5378.	1.8	97
3	Kinetics of ultrasound-assisted enzymatic biodiesel production from Macauba coconut oil. Renewable Energy, 2015, 76, 388-393.	4.3	67
4	Subcritical water hydrolysis of rice straw in a semi-continuous mode. Journal of Cleaner Production, 2019, 209, 386-397.	4.6	54
5	Kinetics of Solvent-Free Lipase-Catalyzed Glycerolysis of Olive Oil in Surfactant System. Journal of Agricultural and Food Chemistry, 2009, 57, 8350-8356.	2.4	49
6	Optimization of the Production of Total Carotenoids by <i>Sporidiobolus salmonicolor</i> (CBS 2636) Using Response Surface Technique. Food and Bioprocess Technology, 2009, 2, 415-421.	2.6	46
7	Evaluation of different methods for immobilization of <i>Candida antarctica</i> lipase B (CalB lipase) in polyurethane foam and its application in the production of geranyl propionate. Bioprocess and Biosystems Engineering, 2015, 38, 1739-1748.	1.7	46
8	An overview on nanostructured TiO ₂ -containing fibers for photocatalytic degradation of organic pollutants in wastewater treatment. Journal of Water Process Engineering, 2021, 40, 101827.	2.6	46
9	Second-generation ethanol from non-detoxified sugarcane hydrolysate by a rotting wood isolated yeast strain. Bioresource Technology, 2017, 244, 582-587.	4.8	45
10	Assessment of Cell Disruption and Carotenoids Extraction from <i>Sporidiobolus salmonicolor</i> (CBS) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.6	43
11	Toxicity of enzymatically decolorized textile dyes solution by horseradish peroxidase. Journal of Hazardous Materials, 2018, 360, 82-88.	6.5	43
12	New sustainable alternatives to reduce the production costs for surfactin 50 years after the discovery. Applied Microbiology and Biotechnology, 2019, 103, 8647-8656.	1.7	42
13	Optimization of mono and diacylglycerols production from enzymatic glycerolysis in solvent-free systems. Bioprocess and Biosystems Engineering, 2010, 33, 805-812.	1.7	38
14	Effect of magnetic field on the Eversa® Transform 2.0 enzyme: Enzymatic activity and structural conformation. International Journal of Biological Macromolecules, 2019, 122, 653-658.	3.6	38
15	An overview and future prospects on aptamers for food safety. Applied Microbiology and Biotechnology, 2020, 104, 6929-6939.	1.7	38
16	Production of antimicrobial textiles by cotton fabric functionalization and pectinolytic enzyme immobilization. Materials Chemistry and Physics, 2018, 208, 28-34.	2.0	34
17	Benzene and toluene removal from synthetic automotive gasoline by mono and bicomponent adsorption process. Fuel, 2018, 231, 45-52.	3.4	34
18	Diethyldithiocarbamate loaded in beeswax-copaiba oil nanoparticles obtained by solventless double emulsion technique promote promastigote death in vitro. Colloids and Surfaces B: Biointerfaces, 2019, 176, 507-512.	2.5	34

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19	Improvement of mono and diacylglycerol production via enzymatic glycerolysis in tert-butanol system. European Journal of Lipid Science and Technology, 2010, 112, 921-927.	1.0	33
20	Study of the bio-production of carotenoids by <i>Sporidiobolus salmonicolor</i> (CBS 2636) using pre-treated agro-industrial substrates. Journal of Chemical Technology and Biotechnology, 2008, 83, 1267-1274.	1.6	31
21	Immobilization of <i>Candida antarctica</i> lipase B on PEGylated poly(urea-urethane) nanoparticles by step miniemulsion polymerization. Journal of Molecular Catalysis B: Enzymatic, 2014, 109, 116-121.	1.8	27
22	Application of polyurethane foam chitosan-coated as a low-cost adsorbent in the effluent treatment. Journal of Water Process Engineering, 2017, 20, 201-206.	2.6	26
23	Enzymatic production of mono- and diglycerides in compressed n-butane and AOT surfactant. Journal of Supercritical Fluids, 2009, 49, 216-220.	1.6	25
24	Kinetic Study of <i>Candida antarctica</i> Lipase B Immobilization Using Poly(Methyl Methacrylate) Nanoparticles Obtained by Miniemulsion Polymerization as Support. Applied Biochemistry and Biotechnology, 2015, 175, 2961-2971.	1.4	25
25	Synthesis and modification of polyurethane for immobilization of <i>Thermomyces lanuginosus</i> (TLL) lipase for ethanolysis of fish oil in solvent free system. Journal of Molecular Catalysis B: Enzymatic, 2015, 122, 163-169.	1.8	25
26	Comparison of macauba and soybean oils as substrates for the enzymatic biodiesel production in ultrasound-assisted system. Ultrasonics Sonochemistry, 2017, 35, 525-528.	3.8	25
27	Improving reuse cycles of <i>Thermomyces lanuginosus</i> lipase (NS-40116) by immobilization in flexible polyurethane. Biocatalysis and Biotransformation, 2018, 36, 372-380.	1.1	25
28	Preparation of poly(urethane-urea) nanoparticles containing a oil by miniemulsion polymerization. Polimeros, 2013, 23, 451-455.	0.2	24
29	Production of new nanobiocatalysts via immobilization of lipase B from <i>C. antarctica</i> on polyurethane nanosupports for application on food and pharmaceutical industries. International Journal of Biological Macromolecules, 2020, 165, 2957-2963.	3.6	23
30	Degradable polyurethane nanoparticles containing vegetable oils. European Journal of Lipid Science and Technology, 2014, 116, 24-30.	1.0	22
31	Lipase-Catalyzed Glycerolysis of Soybean and Canola Oils in a Free Organic Solvent System Assisted by Ultrasound. Applied Biochemistry and Biotechnology, 2015, 176, 850-862.	1.4	22
32	Immobilization of <i>Candida antarctica</i> Lipase B on Magnetic Poly(Urea-Urethane) Nanoparticles. Applied Biochemistry and Biotechnology, 2016, 180, 558-575.	1.4	22
33	Synthesis of geranyl cinnamate by lipase-catalyzed reaction and its evaluation as an antimicrobial agent. Journal of Chemical Technology and Biotechnology, 2017, 92, 115-121.	1.6	22
34	Synthesis of a green polyurethane foam from a biopolyol obtained by enzymatic glycerolysis and its use for immobilization of lipase NS-40116. Bioprocess and Biosystems Engineering, 2019, 42, 213-222.	1.7	22
35	<In Vitro> Cytotoxicity of Poly(Methyl Methacrylate) Nanoparticles and Nanocapsules Obtained by Miniemulsion Polymerization for Drug Delivery Application. Journal of Nanoscience and Nanotechnology, 2016, 16, 7669-7676.	0.9	21
36	PRODUCTION OF METHYL ESTERS BY ENZYMATIC HYDROESTERIFICATION OF CHICKEN FAT INDUSTRIAL RESIDUE. Brazilian Journal of Chemical Engineering, 2019, 36, 923-928.	0.7	21

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37	Synthesis of PEG-PCL-based polyurethane nanoparticles by miniemulsion polymerization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 135, 35-41.	2.5	20
38	Polyurethane Foams Based on Biopolyols from Castor Oil and Glycerol. <i>Journal of Polymers and the Environment</i> , 2018, 26, 2467-2475.	2.4	20
39	Stabilization of lipase from <i>Thermomyces lanuginosus</i> by crosslinking in PEGylated polyurethane particles by polymerization: Application on fish oil ethanolsis. <i>Biochemical Engineering Journal</i> , 2016, 112, 54-60.	1.8	19
40	PrÃ©-tratamentos de melaÃ§o de cana-de-aÃ§Ãcar e Ã¡gua de maceraÃ§Ão de milho para a bioproduÃ§Ão de carotenÃ³ides. <i>Quimica Nova</i> , 2007, 30, 1860-1866.	0.3	17
41	Kinetic and Stoichiometric Parameters in the Production of Carotenoids by <i>Sporidiobolus salmonicolor</i> (CBS 2636) in Synthetic and Agroindustrial Media. <i>Applied Biochemistry and Biotechnology</i> , 2009, 157, 61-69.	1.4	17
42	Potential application of <i>Thermomyces lanuginosus</i> lipase (TLL) immobilized on nonporous polystyrene particles. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, 608-613.	1.3	17
43	Diclofenac release from alginate/carboxymethyl cellulose mono and bilayer films for wound dressing applications. <i>Cellulose</i> , 2020, 27, 6629-6642.	2.4	17
44	Incorporation of superparamagnetic nanoparticles into poly(urea-urethane) nanoparticles by step growth interfacial polymerization in miniemulsion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 482, 596-603.	2.3	16
45	Biosynthesis of iron oxide nanoparticles from mineral coal tailings in a stirred tank reactor. <i>Hydrometallurgy</i> , 2019, 184, 199-205.	1.8	16
46	Harsh environment resistant - antibacterial zinc oxide/Polyetherimide electrospun composite scaffolds. <i>Materials Science and Engineering C</i> , 2019, 103, 109859.	3.8	16
47	Novozym® 435-catalyzed production of ascorbyl oleate in organic solvent ultrasound-assisted system. <i>Biocatalysis and Agricultural Biotechnology</i> , 2015, 4, 514-520.	1.5	15
48	A two-step enzymatic strategy to produce ethyl esters using frying oil as substrate. <i>Industrial Crops and Products</i> , 2017, 108, 52-55.	2.5	15
49	Lipase NS40116 as catalyst for enzymatic transesterification of abdominal chicken fat as substrate. <i>Bioresource Technology Reports</i> , 2018, 4, 214-217.	1.5	15
50	Activating Co nanoparticles on graphitic carbon nitride by tuning the Schottky barrier <i>via</i> P doping for the efficient dehydrogenation of ammonia-borane. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 48-58.	3.0	15
51	Simultaneous single-step immobilization of <i>Candida antarctica</i> lipase B and incorporation of magnetic nanoparticles on poly(urea-urethane) nanoparticles by interfacial miniemulsion polymerization. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2016, 131, 31-35.	1.8	14
52	Biodegradation of BTEX compounds from petrochemical wastewater: Kinetic and toxicity. <i>Journal of Water Process Engineering</i> , 2019, 32, 100914.	2.6	14
53	Are TiO ₂ nanoparticles safe for photocatalysis in aqueous media?. <i>Nanoscale Advances</i> , 2020, 2, 4951-4960.	2.2	14
54	Developing an immobilized low-cost biocatalyst for FAME synthesis. <i>Biocatalysis and Agricultural Biotechnology</i> , 2020, 29, 101752.	1.5	13

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55	Plasma-modified TiO ₂ /polyetherimide nanocomposite fibers for photocatalytic degradation of organic compounds. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103213.	3.3	12
56	Poly(urea-urethane) nanoparticles using mono- and diacylglycerol from glycerolysis of castor oil as biopolyol and stabilizer. <i>European Polymer Journal</i> , 2018, 108, 529-535.	2.6	11
57	CELLULASE IMMOBILIZATION ON POLY(METHYL METHACRYLATE) NANOPARTICLES BY MINIEMULSION POLYMERIZATION. <i>Brazilian Journal of Chemical Engineering</i> , 2018, 35, 649-658.	0.7	11
58	Biopolymer-hydrophobic drug fibers and the delivery mechanisms for sustained release applications. <i>European Polymer Journal</i> , 2019, 112, 400-410.	2.6	11
59	Synthesis of eugenyl acetate through heterogeneous catalysis. <i>Journal of Essential Oil Research</i> , 2019, 31, 312-318.	1.3	11
60	Synthesis and application of silver nanoparticles as biocidal agent in polyurethane coating. <i>Journal of Coatings Technology Research</i> , 2020, 17, 613-620.	1.2	8
61	Synthesis of carbon nitride nanosheets with tunable size by hydrothermal method for tetracycline degradation. <i>Materials Letters</i> , 2020, 264, 127005.	1.3	8
62	Poly(Urea-urethane) Synthesis by Miniemulsion Polymerization Using Microwaves and Conventional Polymerization. <i>Macromolecular Reaction Engineering</i> , 2015, 9, 48-59.	0.9	7
63	Adsorption of natural annatto dye by kaolin: kinetic and equilibrium. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 2648-2656.	1.2	7
64	<i>Aspergillus niger</i> inulinase immobilized in polyurethane foam and treated in pressurized LPG: A potential catalyst for enzymatic synthesis of fructooligosaccharides. <i>Biocatalysis and Biotransformation</i> , 2016, 34, 291-294.	1.1	6
65	In Vitro Biocompatibility and Macrophage Uptake Assays of Poly(Urea-Urethane) Nanoparticles Obtained by Miniemulsion Polymerization. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 4955-4960.	0.9	6
66	Enzymatic synthesis of ascorbyl ester derived from linoleic acid. <i>Bioprocess and Biosystems Engineering</i> , 2017, 40, 265-270.	1.7	6
67	Low-Pressure Lipase-Catalyzed Production of Mono- and Diglycerides with and Without N-Butane and AOT Surfactant. <i>Applied Biochemistry and Biotechnology</i> , 2010, 160, 1789-1796.	1.4	5
68	Influence of stabilizer additives on thermochromic coating for temperature monitoring. <i>Journal of Coatings Technology Research</i> , 2016, 13, 1139-1144.	1.2	5
69	Midinfrared Spectroscopy and Partial Least-Squares Model as an Analytical Method for Biodiesel and Glycerol Monitoring. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 990-996.	1.8	5
70	Removal of chromium from wastewater by swine hair residues applied as a putative biofilter. <i>Environmental Science and Pollution Research</i> , 2019, 26, 33014-33022.	2.7	5
71	Electrospun Polycaprolactone Scaffolds Using an Ionic Liquid as Alternative Solvent: Morphometric, Mechanical and Biological Properties. <i>ChemistrySelect</i> , 2020, 5, 14050-14055.	0.7	5
72	Head Space Solid Phase Micro-Extraction (HS - SPME) of volatile organic compounds produced by <i>Sporidiobolus salmonicolor</i> (CBS 2636). <i>Food Science and Technology</i> , 2010, 30, 987-992.	0.8	4

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73	Ultrasound assisted miniemulsion polymerization to prepare poly(urea-urethane) nanoparticles. <i>Polimeros</i> , 2018, 28, 155-160.	0.2	4
74	Pre-treatment Strategies for Value Addition in Poultry Litter. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 477.	2.0	4
75	Cleaner Pre-concentration of Metals from Printed Circuit Board Waste Using Novel Dense Liquid Medium Based on Sodium Silicate. <i>Waste and Biomass Valorization</i> , 2021, 12, 4081-4087.	1.8	4
76	Lipase-catalyzed ethanolsis of <i>Jatropha curcas</i> L. oil assisted by ultrasonication. <i>Brazilian Journal of Chemical Engineering</i> , 2017, 34, 531-539.	0.7	3
77	Utilization of montmorillonite in biostoning process as a strategy for effluent reuse. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 890-898.	1.6	3
78	Strategies for the Immobilization of Eversa [®] Transform 2.0 Lipase and Application for Phospholipid Synthesis. <i>Catalysts</i> , 2021, 11, 1236.	1.6	3
79	Bioleaching from Coal Wastes and Tailings: A Sustainable Biomining Alternative. <i>Environmental and Microbial Biotechnology</i> , 2021, , 203-224.	0.4	2
80	Kinetic study of liquid lipase-catalyzed glycerolysis of olive oil using Lipozyme $\langle \text{sc} \rangle$ TL 100L $\langle \text{sc} \rangle$. <i>JAACS, Journal of the American Oil Chemists' Society</i> , 2022, 99, 559-568.	0.8	2
81	Non-isothermal kinetic modelling of potassium indigo-trisulfonate dye discolouration by Horseradish peroxidase. <i>Biocatalysis and Biotransformation</i> , 2020, 38, 385-391.	1.1	1
82	S�NTESE DE POLI(UREIA-URETANO) VIA POLIMERIZA�O EM MINIEMULS�O EM REATOR MICROONDAS. , 0, , .		0