

Diego Lomonaco Vasconcelos de Oliveira

List of Publications by Year in descending order

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84
papers

1,758
citations

304368

22
h-index

344852

36
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85
all docs

85
docs citations

85
times ranked

1939
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of Fully Biobased High-Performance Bis-Benzoxazine under Environmentally Friendly Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5485-5494.	3.2	109
2	Óleo da castanha de caju: oportunidades e desafios no contexto do desenvolvimento e sustentabilidade industrial. <i>Quimica Nova</i> , 2009, 32, 732-741.	0.3	108
3	Study of technical CNSL and its main components as new green larvicides. <i>Green Chemistry</i> , 2009, 11, 31-33.	4.6	93
4	Poly(methyl methacrylate) films reinforced with coconut shell lignin fractions to enhance their UV-blocking, antioxidant and thermo-mechanical properties. <i>International Journal of Biological Macromolecules</i> , 2019, 125, 171-180.	3.6	60
5	Microencapsulation of sweet orange essential oil (<i>Citrus aurantium</i> var. <i>dulcis</i>) by lyophilization using maltodextrin and maltodextrin/gelatin mixtures: Preparation, characterization, antimicrobial and antioxidant activities. <i>International Journal of Biological Macromolecules</i> , 2020, 143, 991-999.	3.6	58
6	Microwave-assisted organosolv extraction of coconut shell lignin by Brønsted and Lewis acids catalysts. <i>Journal of Cleaner Production</i> , 2018, 189, 785-796.	4.6	55
7	Synthesis and characteristics of alkyd resin/M-Porphyrins nanocomposite for corrosion protection application. <i>Progress in Organic Coatings</i> , 2017, 105, 286-290.	1.9	53
8	Thermal studies of new biodiesel antioxidants synthesized from a natural occurring phenolic lipid. <i>Fuel</i> , 2012, 97, 552-559.	3.4	51
9	Organic solvent fractionation of acetosolv palm oil lignin: The role of its structure on the antioxidant activity. <i>International Journal of Biological Macromolecules</i> , 2019, 122, 1163-1172.	3.6	48
10	Solvent Free Synthesis of Novel Mono- and Bis-Benzoxazines from Cashew Nut Shell Liquid Components. <i>Current Organic Chemistry</i> , 2012, 16, 2613-2621.	0.9	41
11	Influence of cellulose chemical pretreatment on energy consumption and viscosity of produced cellulose nanofibers (CNF) and mechanical properties of nanopaper. <i>Cellulose</i> , 2019, 26, 1667-1681.	2.4	40
12	Thermal and mechanical properties of biocomposites based on a cashew nut shell liquid matrix reinforced with bamboo fibers. <i>Journal of Composite Materials</i> , 2015, 49, 2203-2215.	1.2	37
13	Microwave-assisted solvent-free synthesis of novel benzoxazines: A faster and environmentally friendly route to the development of bio-based thermosetting resins. <i>Journal of Polymer Science Part A</i> , 2017, 55, 3534-3544.	2.5	37
14	Efficacy of new natural biomodification agents from Anacardiaceae extracts on dentin collagen cross-linking. <i>Dental Materials</i> , 2017, 33, 1103-1109.	1.6	35
15	Steam explosion pretreatment improves acetic acid organosolv delignification of oil palm mesocarp fibers and sugarcane bagasse. <i>International Journal of Biological Macromolecules</i> , 2021, 175, 304-312.	3.6	35
16	Cashew Nutshell Liquid (CNSL): From an Agro-industrial Waste to a Sustainable Alternative to Petrochemical Resources. , 2017, , 19-38.		34
17	Spectral and thermal studies on the synthesis and catalyzed oligomerization of novel cardanol-based benzoxazines. <i>Polymer</i> , 2016, 92, 189-200.	1.8	33
18	Steam explosion pretreatment to obtain eco-friendly building blocks from oil palm mesocarp fiber. <i>Industrial Crops and Products</i> , 2020, 143, 111907.	2.5	32

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19	Thermal evaluation of cashew nutshell liquid as new bioadditives for poly(methyl methacrylate). <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 111, 619-626.	2.0	31
20	Evaluation of antioxidant action by electrochemical and accelerated oxidation experiments of phenolic compounds derived from cashew nut shell liquid. <i>Industrial Crops and Products</i> , 2015, 67, 281-286.	2.5	31
21	Influence of Cardanol Oil on the Properties of Poly(lactic acid) Films Produced by Melt Extrusion. <i>ACS Omega</i> , 2019, 4, 718-726.	1.6	29
22	Enhanced microfibrillated cellulose-based film by controlling the hemicellulose content and MFC rheology. <i>Carbohydrate Polymers</i> , 2019, 218, 307-314.	5.1	26
23	Thiophosphate esters of cashew nutshell liquid derivatives as new antioxidants for poly(methyl Tj ETQq1 1 0.784314 rrgBT /Overlock 10	2.0	25
24	Towards novel high-performance bio-composites: Polybenzoxazine-based matrix reinforced with <i>Manicaria saccifera</i> fabrics. <i>Composites Part B: Engineering</i> , 2020, 194, 108060.	5.9	25
25	Novel ferrofluids coated with a renewable material obtained from cashew nut shell liquid. <i>Microfluidics and Nanofluidics</i> , 2012, 12, 677-686.	1.0	23
26	Microwave-assisted selective acetylation of Kraft lignin: Acetic acid as a sustainable reactant for lignin valorization. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 1536-1544.	3.6	23
27	Electrochemical and computational studies of phenolic antioxidants from cashew nut shell liquid. <i>Electrochimica Acta</i> , 2012, 79, 67-73.	2.6	22
28	Thermal and mechanical analyses of biocomposites from cardanol-based polybenzoxazine and bamboo fibers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 129, 281-289.	2.0	21
29	Physicochemical and Microbiological Assessment of an Experimental Composite Doped with Triclosan-Loaded Halloysite Nanotubes. <i>Materials</i> , 2018, 11, 1080.	1.3	21
30	Ecofriendly modification of acetosolv lignin from oil palm biomass for improvement of PMMA thermo-oxidative properties. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45498.	1.3	20
31	Lemongrass (<i>Cymbopogon citratus</i> DC. Stapf) essential oil microparticles: Development, characterization, and antioxidant potential. <i>Food Chemistry</i> , 2021, 355, 129644.	4.2	20
32	Towards bio-based high-performance polybenzoxazines: Agro-wastes as starting materials for BPA-free thermosets via efficient microwave-assisted synthesis. <i>European Polymer Journal</i> , 2019, 116, 534-544.	2.6	19
33	Influence of collagen cross-linkers addition in phosphoric acid on dentin biomodification and bonding of an etch-and-rinse adhesive. <i>Dental Materials</i> , 2020, 36, e1-e8.	1.6	19
34	Influence of natural substituents in the polymerization behavior of novel bio-based benzoxazines. <i>Materials Today Communications</i> , 2019, 21, 100629.	0.9	18
35	Cardanol-based thermoset plastic reinforced by sponge gourd fibers (<i>Luffa cylindrica</i>). <i>Polimeros</i> , 2016, 26, 21-29.	0.2	17
36	A novel design for nanocellulose reinforced urea-formaldehyde resin: a breakthrough in amino resin synthesis and biocomposite manufacturing. <i>Cellulose</i> , 2021, 28, 3435-3450.	2.4	17

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37	Acetone:Water fractionation of pyrolytic lignin improves its antioxidant and antibacterial activity. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 156, 105175.	2.6	17
38	Synthesis of a new thiophosphorylated compound derived from cashew nut shell liquid and study of its antioxidant activity. <i>Industrial Crops and Products</i> , 2012, 36, 271-275.	2.5	16
39	Carnauba wax as a wall material for urea microencapsulation. <i>Journal of the Science of Food and Agriculture</i> , 2019, 99, 1078-1087.	1.7	16
40	Microwave-Assisted Organosolv Delignification: A Potential Eco-Designed Process for Scalable Valorization of Agroindustrial Wastes. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 10698-10706.	1.8	16
41	Tailored organosolv banana peels lignins: Improved thermal, antioxidant and antimicrobial performances by controlling process parameters. <i>International Journal of Biological Macromolecules</i> , 2021, 181, 241-252.	3.6	16
42	Antiwear and antioxidant studies of cardanol phosphate ester additives. <i>Brazilian Journal of Chemical Engineering</i> , 2012, 29, 519-524.	0.7	15
43	Synthesis and characterization of a new methacrylate monomer derived from the cashew nut shell liquid (CNSL) and its effect on dentinal tubular occlusion. <i>Dental Materials</i> , 2018, 34, 1144-1153.	1.6	14
44	Microwave-assisted phosphorylation of organosolv lignin: new bio-additives for improvement of epoxy resins performance. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 619-631.	2.9	14
45	Safety aspects of kraft lignin fractions: Discussions on the in chemico antioxidant activity and the induction of oxidative stress on a cell-based in vitro model. <i>International Journal of Biological Macromolecules</i> , 2021, 182, 977-986.	3.6	14
46	Cardanol-based green nanovesicles with antioxidant and cytotoxic activities. <i>Journal of Experimental Nanoscience</i> , 2016, 11, 1274-1284.	1.3	13
47	Selective acid precipitation of Kraft lignin: a tool for tailored biobased additives for enhancing PVA films properties for packaging applications. <i>Reactive and Functional Polymers</i> , 2021, 166, 104980.	2.0	13
48	Effect of slow-release urea microencapsulated in beeswax and its inclusion in ruminant diets. <i>Small Ruminant Research</i> , 2019, 179, 56-63.	0.6	12
49	Tailor-made organosolv lignins from coconut wastes: Effects of green solvents in microwave-assisted processes upon their structure and antioxidant activities. <i>Bioresource Technology Reports</i> , 2019, 7, 100219.	1.5	12
50	Bio-based benzoxazines synthesized in a deep eutectic solvent: A greener approach toward vesicular nanosystems. <i>Journal of Heterocyclic Chemistry</i> , 2020, 57, 768-773.	1.4	12
51	Development of BPA-free anticorrosive epoxy coatings from agroindustrial waste. <i>Progress in Organic Coatings</i> , 2020, 139, 105449.	1.9	12
52	Thermo-oxidative evaluation of new cardol derivatives as antioxidants for mineral oils. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 109, 1013-1018.	2.0	11
53	New opportunity for sustainable benzoxazine synthesis: A straight and convenient one-pot protocol for formaldehyde-free bio-based polymers. <i>European Polymer Journal</i> , 2021, 156, 110596.	2.6	11
54	Gold Electrode Modified with Cu-Porphyrin Derived from Cardanol as Electrochemical Sensor for Nitric Oxide. <i>Journal of the Electrochemical Society</i> , 2013, 160, B113-B118.	1.3	10

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55	A potential bio-antioxidant for mineral oil from cashew nutshell liquid: an experimental and theoretical approach. <i>Brazilian Journal of Chemical Engineering</i> , 2020, 37, 369-381.	0.7	10
56	Development of Fully Bio-Based Lubricants from Agro-Industrial Residues under Environmentally Friendly Processes. <i>European Journal of Lipid Science and Technology</i> , 2020, 122, 1900424.	1.0	10
57	Development of an eco-friendly acetosolv protocol for tuning the acetylation of coconut shell lignin: Structural, antioxidant, solubility and UV-blocking properties. <i>International Journal of Biological Macromolecules</i> , 2022, 211, 271-280.	3.6	10
58	Synthesis and Polymerization of Naphthoxazines Containing Furan Groups: An Approach to Novel Biobased and Flame-Resistant Thermosets. <i>International Journal of Polymer Science</i> , 2018, 2018, 1-13.	1.2	9
59	Structural, photophysical and electrochemical properties of a novel cardanol-based salophen ligand and its Mn(II) complex. <i>Journal of Molecular Structure</i> , 2019, 1181, 279-286.	1.8	8
60	Cashew nut shell liquids: Antimicrobial compounds in prevention and control of the oral biofilms. <i>Archives of Oral Biology</i> , 2022, 133, 105299.	0.8	8
61	A self-assembly of graphene oxide@Fe ₃ O ₄ /metallo-phthalocyanine nanohybrid materials: synthesis, characterization, dielectric and thermal properties. <i>Journal of Materials Science</i> , 2017, 52, 9546-9557.	1.7	7
62	Cellulose triacetate from different sources: modification assessment through thermal and chemical characterization. <i>Holzforschung</i> , 2020, 74, 505-512.	0.9	7
63	Development of coal tar-free coatings: Acetylated lignin as a bio-additive for anticorrosive and UV-blocking epoxy resins. <i>Progress in Organic Coatings</i> , 2021, 161, 106533.	1.9	7
64	Superparamagnetic nano-biocomposites for application as dielectric resonator antennas. <i>Materials Chemistry and Physics</i> , 2017, 185, 104-113.	2.0	6
65	Photodynamic effect of palladium porphyrin derived from cashew nut shell liquid against promastigote forms of <i>Leishmania braziliensis</i> . <i>Photodiagnosis and Photodynamic Therapy</i> , 2021, 33, 102083.	1.3	6
66	Influence of hydrophobic layer of Bis-EMA with different ethoxilations on adhesive's bonding efficacy and mechanical properties. <i>International Journal of Adhesion and Adhesives</i> , 2021, 105, 102796.	1.4	6
67	Cashew tree wood flour activated with cashew nut shell liquid for the production of functionalized composites. <i>Composite Interfaces</i> , 2018, 25, 93-107.	1.3	5
68	Lipid microspheres containing urea for slow release of non-protein N in ruminant diets. <i>Animal Production Science</i> , 2022, 62, 191-200.	0.6	5
69	Development of Bio-based Polyurethane Wood Adhesives from Agroindustrial Waste. <i>Journal of Polymers and the Environment</i> , 2022, 30, 1959-1972.	2.4	5
70	In vitro antileishmanial activity of sustainable anacardic acid and cardol based silver nanoparticles on <i>L. braziliensis</i> . <i>International Journal of Pharmaceutics</i> , 2022, 619, 121698.	2.6	5
71	Bio-based one-component epoxy resin: Novel high-performance anticorrosive coating from agro-industrial byproduct. <i>Progress in Organic Coatings</i> , 2022, 167, 106861.	1.9	5
72	Cardanol-Based Heterocycles: Synthesis and Applications. , 2017, , 39-56.		4

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73	Blendas de bagaço de cana-de-açúcar, podas de mangueira e cajueiro: caracterização das propriedades e investigação de seus potenciais energéticos. Revista Materia, 2019, 24, .	0.1	4
74	Optimization by Response Surface Methodology of Ethanolv Lignin Recovery from Coconut Fiber, Oil Palm Mesocarp Fiber, and Sugarcane Bagasse. Industrial & Engineering Chemistry Research, 2022, 61, 4058-4067.	1.8	4
75	Luminescence quenching of $[Ru(bpy)_3]^{2+}$ by ruthenium(II) tetraphosphite complexes with different phosphite ligands. Journal of Luminescence, 2009, 129, 1260-1265.	1.5	3
76	Developing eco-friendly methods for purification of compounds derived from hydrogenated cardanol. Separation Science and Technology, 2016, 51, 2473-2483.	1.3	3
77	Synthesis, Characterization and Dielectric Properties of New 5-(4-Hydroxyphenyl)-10,15,20-tri-4-[2-(3-pentadecylphenoxy)ethoxy]phenyl porphyrin and Their Ni, Co and Cu Complexes. Journal of the Brazilian Chemical Society, 2016, , .	0.6	2
78	Study of Antioxidant Activity of a Phenyl Phosphorylated Compound Derived from Hydrogenated Cardol by Thermogravimetric Analysis. British Journal of Applied Science & Technology, 2013, 3, 546-556.	0.2	2
79	Cardol-Derived Organophosphorothioates as Inhibitors of Acetylcholinesterase for Dengue Vector Control. Journal of the Brazilian Chemical Society, 0, , .	0.6	2
80	Physicochemical and microbiological assessment of a dental adhesive doped with cashew nut shell liquid. Odontology / the Society of the Nippon Dental University, 2022, 110, 434-443.	0.9	2
81	Elucidating the adsorption mechanism of Rhodamine B on mesoporous coconut coir-based biosorbents through a non-linear modeling and recycling approach. Environmental Science and Pollution Research, 2022, 29, 79920-79934.	2.7	1
82	Self-emulsifiable Bioactive Derivatives of Technical Cashew Nut Shell Liquid (tCNSL) Developed to Control Aedes aegypti Populations. Waste and Biomass Valorization, 2022, 13, 2539-2552.	1.8	1
83	Collagen Cross-Linking Lignin Improves the Bonding Performance of Etch-and-Rinse Adhesives to Dentin. Materials, 2022, 15, 3218.	1.3	1
84	Intraradicular Dentin Biomodification with Natural Agents for Bonding Glass-fiber Posts. Journal of Adhesive Dentistry, 2021, 23, 223-230.	0.3	0