Rafael Lopes Quirino

List of Publications by Year
in descending order

48	1,406	394421 19	330143 37
papers	citations	h-index	g-index

48	48	48	1625
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bio-Based Polymers with Potential for Biodegradability. Polymers, 2016, 8, 262.	4.5	190
2	Recent advances on catalysts for improving hydrocarbon compounds in bio-oil of biomass catalytic pyrolysis. Renewable and Sustainable Energy Reviews, 2020, 121, 109676.	16.4	173
3	Matrices from vegetable oils, cashew nut shell liquid, and other relevant systems for biocomposite applications. Green Chemistry, 2014, 16, 1700-1715.	9.0	92
4	Thermosetting polyurethanes prepared with the aid of a fully bio-based emulsifier with high bio-content, high solid content, and superior mechanical properties. Green Chemistry, 2019, 21, 526-537.	9.0	88
5	Tunable thermo-physical performance of castor oil-based polyurethanes with tailored release of coated fertilizers. Journal of Cleaner Production, 2019, 210, 1207-1215.	9.3	67
6	Heats of combustion of biofuels obtained by pyrolysis and by transesterification and of biofuel/diesel blends. Thermochimica Acta, 2006, 450, 87-90.	2.7	63
7	Synthesis, characterization and use of Nb2O5 based catalysts in producing biofuels by transesterification, esterification and pyrolysis. Journal of the Brazilian Chemical Society, 2009, 20, 954-966.	0.6	60
8	Bio-based Thermosetting Polymers from Vegetable Oils. Journal of Renewable Materials, 2013, 1, 3-27.	2.2	57
9	Eco-Friendly Castor Oil-Based Delivery System with Sustained Pesticide Release and Enhanced Retention. ACS Applied Materials & Interfaces, 2020, 12, 37607-37618.	8.0	55
10	UV absorption, anticorrosion, and long-term antibacterial performance of vegetable oil based cationic waterborne polyurethanes enabled by amino acids. Chemical Engineering Journal, 2021, 421, 127774.	12.7	50
11	Oxidation Behavior of Multiwalled Carbon Nanotubes Fluidized with Ozone. ACS Applied Materials & Interfaces, 2014, 6, 1835-1842.	8.0	47
12	Synthesis and properties of soy hullâ€reinforced biocomposites from conjugated soybean oil. Journal of Applied Polymer Science, 2009, 112, 2033-2043.	2.6	38
13	Thermosetting polymers from renewable sources. Polymer International, 2021, 70, 167-180.	3.1	38
14	Soybean and linseed oilâ€based composites reinforced with wood flour and wood fibers. Journal of Applied Polymer Science, 2012, 124, 1520-1528.	2.6	33
15	Efficient transformation of renewable vanillin into reprocessable, acid-degradable and flame retardant polyimide vitrimers. Journal of Cleaner Production, 2022, 333, 130043.	9.3	31
16	Rhâ€based Biphasic Isomerization of Carbonâ€“Carbon Double Bonds in Natural Oils. JAOCS, Journal of the American Oil Chemists' Society, 2012, 89, 1113-1124.	1.9	30
17	Studying the Influence of Alumina Catalysts Doped with Tin and Zinc Oxides in the Soybean Oil Pyrolysis Reaction. JAOCS, Journal of the American Oil Chemists' Society, 2009, 86, 167.	1.9	27
18	Waterborne polyurethanes from castor oil-based polyols for next generation of environmentally-friendly hair-styling agents. Progress in Organic Coatings, 2020, 142, 105588.	3.9	26

#	Article	IF	Citations
19	Thermodegradation characterization of hardwoods and softwoods in torrefaction and transition zone between torrefaction and pyrolysis. Fuel, 2022, 310, 122281.	6.4	25
20	Rice hull biocomposites. I. Preparation of a linseedâ€oilâ€based resin reinforced with rice hulls. Journal of Applied Polymer Science, 2011, 121, 2039-2049.	2.6	17
21	Rice hull biocomposites, part 2: Effect of the resin composition on the properties of the composite. Journal of Applied Polymer Science, 2011, 121, 2050-2059.	2.6	17
22	Synthesis of Bio-based Polymer Composites: Fabrication, Fillers, Properties, and Challenges. Lecture Notes in Bioengineering, 2019, , 29-55.	0.4	16
23	Asolectin from soybeans as a natural compatibilizer for celluloseâ€reinforced biocomposites from tung oil. Journal of Applied Polymer Science, 2015, 132, .	2.6	14
24	Oat hull composites from conjugated natural oils. Green Chemistry, 2012, 14, 1398.	9.0	13
25	Synthesis and Thermomechanical Properties of Polyurethanes and Biocomposites Derived from Macauba Oil and Coconut Husk Fibers. Coatings, 2015, 5, 527-544.	2.6	13
26	Effect of Microwave Cure on the Thermo-Mechanical Properties of Tung Oil-Based/Carbon Nanotube Composites. Coatings, 2015, 5, 557-575.	2.6	12
27	A Novel Microwaveâ€Assisted Carbothermic Route for the Production of Copperâ€Carbon Nanotube Metal Matrix Composites Directly from Copper Oxide. Advanced Engineering Materials, 2013, 15, 366-372.	3.5	11
28	Microwave Heating of Antibody-functionalized Carbon Nanotubes as a Feasible Cancer Treatment. Biomedical Physics and Engineering Express, 2018, 4, 045025.	1.2	10
29	Sugarcane bagasse composites from vegetable oils. Journal of Applied Polymer Science, 2012, 126, 860-869.	2.6	9
30	Modified lignin for composite and pellet binder applications. International Journal of Experimental and Computational Biomechanics, 2015, 3, 200.	0.4	9
31	Ablation of cells in mice using antibody-functionalized multiwalled carbon nanotubes (Ab-MWCNTs) in combination with microwaves. Nanotechnology, 2021, 32, 195102.	2.6	9
32	Non-isocyanate poly(acyl-urethane) obtained from urea and castor (Ricinus communis L.) oil. Progress in Organic Coatings, 2022, 162, 106557.	3.9	9
33	Biocomposites from the reinforcement of a tung oil-based thermosetting resin with collagen. Materials Chemistry Frontiers, 2017, 1, 1795-1803.	5.9	8
34	Bio-Based Composites with Enhanced Matrix-Reinforcement Interactions from the Polymerization of Î±-Eleostearic Acid. Coatings, 2019, 9, 447.	2.6	8
35	Fabrication and Characterization of Non-Equilibrium Plasma-Treated PVDF Nanofiber Membrane-Based Sensors. Sensors, 2021, 21, 4179.	3.8	6
36	Aquaculture Waste: Potential Synthesis of Polyhydroxyalkanoates. ACS Omega, 2021, 6, 2434-2442.	3.5	6

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37	Biobased Polymers and Composites. International Journal of Polymer Science, 2018, 2018, 1-1.	2.7	5
38	Bioplastics, Biocomposites, and Biocoatings from Natural Oils. ACS Symposium Series, 2011, , 37-59.	0.5	4
39	Emulsion Polymerization of Tung Oil-Based Latexes with Asolectin as a Biorenewable Surfactant. Coatings, 2016, 6, 56.	2.6	4
40	Data-Driven Approach to Decipher the Role of Triglyceride Composition on the Thermomechanical Properties of Thermosetting Polymers Using Vegetable and Microbial Oils. ACS Applied Polymer Materials, 2021, 3, 4485-4494.	4.4	4
41	Exploring the Effects of Various Polymeric Backbones on the Performance of a Hydroxyaromatic 1,2,3-Triazole Anion Sensor. Sensors, 2020, 20, 2973.	3.8	3
42	Vegetable Oil-Based Polymeric Materials: Synthesis, Properties, and Applications. , 2020, , 295-302.		2
43	Influence of the heating rate on the thermodegradation during the mild pyrolysis of the wood. Wood Material Science and Engineering, 2023, 18, 412-421.	2.3	2
44	Experimental study of thermopower of SWCNTs andSiCnanoparticles with Bâ€“P (bornâ€“phosphorus) solâ€“gel dopants. Materials Research Innovations, 2015, 19, 410-417.	2.3	1
45	Vegetable Oils as a Chemical Platform. Gels Horizons: From Science To Smart Materials, 2018, , 125-152.	0.3	1
46	Synthesis, Characterization and Use of Alumina Doped with TiO2 and ZrO2 to Produce Biofuels from Soybean Oil by Thermal Cracking, Transesterification and Hydroesterification. Journal of the Brazilian Chemical Society, 0, , .	0.6	1
47	Behavior of wood during the thermal transition between torrefaction and pyrolysis: chemical and physical modifications.. Wood Material Science and Engineering, 2023, 18, 244-253.	2.3	1
48	Biodegradation Study of Polyurethanes from Linseed and Passion Fruit Oils. Coatings, 2022, 12, 617.	2.6	1