Bruno D Mattos

List of Publications by Year
in descending order

52 papers	1,795 citations	279798 23 h-index	276875 41 g-index
53 all docs	53 docs citations	53 times ranked	2112 citing authors

#	Article	IF	Citations
1	Spherical lignin particles: a review on their sustainability and applications. Green Chemistry, 2020, 22, 2712-2733.	9.0	228
2	Controlled release for crop and wood protection: Recent progress toward sustainable and safe nanostructured biocidal systems. Journal of Controlled Release, 2017, 262, 139-150.	9.9	123
3	Plant Nanomaterials and Inspiration from Nature: Water Interactions and Hierarchically Structured Hydrogels. Advanced Materials, 2021, 33, e2001085.	21.0	117
4	Deconstruction and Reassembly of Renewable Polymers and Biocolloids into Next Generation Structured Materials. Chemical Reviews, 2021, 121, 14088-14188.	47.7	113
5	Nanocellulose/bioactive glass cryogels as scaffolds for bone regeneration. Nanoscale, 2019, 11, 19842-19849.	5.6	93
6	Foliage adhesion and interactions with particulate delivery systems for plant nanobionics and intelligent agriculture. Nano Today, 2021, 37, 101078.	11.9	77
7	Properties of polypropylene composites filled with a mixture of household waste of mate-tea and wood particles. Construction and Building Materials, 2014, 61, 60-68.	7.2	64
8	Twoâ€Phase Emulgels for Direct Ink Writing of Skinâ€Bearing Architectures. Advanced Functional Materials, 2019, 29, 1902990.	14.9	60
9	Lignin-Based Porous Supraparticles for Carbon Capture. ACS Nano, 2021, 15, 6774-6786.	14.6	56
10	Biogenic silica nanoparticles loaded with neem bark extract as green, slow-release biocide. Journal of Cleaner Production, 2017, 142, 4206-4213.	9.3	52
11	The Foodâ€"Materials Nexus: Next Generation Bioplastics and Advanced Materials from Agriâ€Food Residues. Advanced Materials, 2021, 33, e2102520.	21.0	50
12	Nanofibrillar networks enable universal assembly of superstructured particle constructs. Science Advances, 2020, 6, eaaz7328.	10.3	44
13	Tessellation of Chiralâ€Nematic Cellulose Nanocrystal Films by Microtemplating. Advanced Functional Materials, 2019, 29, 1808518.	14.9	37
14	Controlled biocide release from hierarchically-structured biogenic silica: surface chemistry to tune release rate and responsiveness. Scientific Reports, 2018, 8, 5555.	3.3	35
15	Accounting for Substrate Interactions in the Measurement of the Dimensions of Cellulose Nanofibrils. Biomacromolecules, 2019, 20, 2657-2665.	5.4	34
16	Single-Step Fiber Pretreatment with Monocomponent Endoglucanase: Defibrillation Energy and Cellulose Nanofibril Quality. ACS Sustainable Chemistry and Engineering, 2021, 9, 2260-2270.	6.7	33
17	Green Formation of Robust Supraparticles for Cargo Protection and Hazards Control in Natural Environments. Small, 2018, 14, e1801256.	10.0	32
18	Biogenic nanosilica blended by nanofibrillated cellulose as support for slow-release of tebuconazole. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	29

#	Article	IF	Citations
19	Biogenic SiO2 in colloidal dispersions via ball milling and ultrasonication. Powder Technology, 2016, 301, 58-64.	4.2	28
20	Cogrinding Wood Fibers and Tannins: Surfactant Effects on the Interactions and Properties of Functional Films for Sustainable Packaging Materials. Biomacromolecules, 2020, 21, 1865-1874.	5.4	27
21	Effect of thermal treatments on technological properties of wood from two Eucalyptus species. Anais Da Academia Brasileira De Ciencias, 2015, 87, 471-481.	0.8	26
22	Chemical modification of fast-growing eucalyptus wood. Wood Science and Technology, 2015, 49, 273-288.	3.2	26
23	Bio-oil from a fast pyrolysis pilot plant as antifungal and hydrophobic agent for wood preservation. Journal of Analytical and Applied Pyrolysis, 2016, 122, 1-6.	5.5	25
24	Colour changes of Brazilian eucalypts wood by natural weathering. International Wood Products Journal, 2014, 5, 33-38.	1.1	24
25	Thermochemical and physical properties of two fast-growing eucalypt woods subjected to two-step freezeâ€“heat treatments. Thermochimica Acta, 2015, 615, 15-22.	2.7	24
26	Regioselective and water-assisted surface esterification of never-dried cellulose: nanofibers with adjustable surface energy. Green Chemistry, 2021, 23, 6966-6974.	9.0	24
27	Guiding Bacterial Activity for Biofabrication of Complex Materials <i>via</i> Controlled Wetting of Superhydrophobic Surfaces. ACS Nano, 2020, 14, 12929-12937.	14.6	23
28	Porous Inorganic and Hybrid Systems for Drug Delivery: Future Promise in Combatting Drug Resistance and Translation to Botanical Applications. Current Medicinal Chemistry, 2019, 26, 6107-6131.	2.4	23
29	Physical and mechanical properties and colour changes of fast-growing Gympie messmate wood subjected to two-step steam-heat treatments. Wood Material Science and Engineering, 2014, 9, 40-48.	2.3	22
30	Wood-polymer composites prepared by free radical in situ polymerization of methacrylate monomers into fast-growing pinewood. Wood Science and Technology, 2015, 49, 1281-1294.	3.2	22
31	Use of Biogenic Silica in Porous Alginate Matrices for Sustainable Fertilization with Tailored Nutrient Delivery. ACS Sustainable Chemistry and Engineering, 2018, 6, 2716-2723.	6.7	22
32	Lignin Nanoparticle Nucleation and Growth on Cellulose and Chitin Nanofibers. Biomacromolecules, 2021, 22, 880-889.	5.4	19
33	Thermochemical and hygroscopicity properties of pinewood treated by in situ copolymerisation with methacrylate monomers. Thermochimica Acta, 2014, 596, 70-78.	2.7	18
34	Multilayers of Renewable Nanostructured Materials with High Oxygen and Water Vapor Barriers for Food Packaging. ACS Applied Materials & Interfaces, 2022, 14, 30236-30245.	8.0	17
35	Pilot-Scaled Fast-Pyrolysis Conversion of Eucalyptus Wood Fines into Products: Discussion Toward Possible Applications in Biofuels, Materials, and Precursors. Bioenergy Research, 2020, 13, 411-422.	3.9	16
36	Colour responses of two fast-growing hardwoods to two-step steam-heat treatments. Materials Research, 2014, 17, 487-493.	1.3	15

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37	Chemical characterization of wood and extractives of fast-growing<i>Schizolobium parahyba</i>and<i>Pinus taeda</i>. Wood Material Science and Engineering, 2016, 11, 209-216.	2.3	14
38	Superstable Wet Foams and Lightweight Solid Composites from Nanocellulose and Hydrophobic Particles. ACS Nano, 2021, 15, 19712-19721.	14.6	14
39	Biodeterioration of wood from two fast-growing eucalypts exposed to field test. International Biodeterioration and Biodegradation, 2014, 93, 210-215.	3.9	13
40	Upcycling Byproducts from Insect (Fly Larvae and Mealworm) Farming into Chitin Nanofibers and Films. ACS Sustainable Chemistry and Engineering, 2021, 9, 13618-13629.	6.7	13
41	Effects of Two-Step Freezing-Heat Treatments on Japanese Raisintree (Hovenia DulcisThunb.) Wood Properties. Journal of Wood Chemistry and Technology, 2016, 36, 16-26.	1.7	12
42	Production of sustainable polymeric composites using grape pomace biomass. Biomass Conversion and Biorefinery, 2022, 12, 5869-5880.	4.6	12
43	Impact of tannin as sustainable compatibilizer for woodâ€polypropylene composites. Polymer Composites, 2018, 39, 4275-4284.	4.6	9
44	Design and preparation of carbendazim-loaded alumina nanoparticles as a controlled-release biocide for wood protection. International Biodeterioration and Biodegradation, 2017, 123, 174-181.	3.9	8
45	Consecutive Production of Hydroalcoholic Extracts, Carbohydrates Derivatives and Silica Nanoparticles from Equisetum arvense. Waste and Biomass Valorization, 2018, 9, 1993-2002.	3.4	8
46	Thermosetting composites prepared using husk of pine nuts from <i>Araucaria angustifolia</i>. Polymer Composites, 2018, 39, 476-483.	4.6	3
47	The Foodâ€"Materials Nexus: Next Generation Bioplastics and Advanced Materials from Agriâ€Food Residues (Adv. Mater. 43/2021). Advanced Materials, 2021, 33, 2170342.	21.0	3
48	Color changes of wood from Pinus taeda and Schizolobium parahybum treated by in situ polymerization of methyl methacrylate using cross-linkers. Maderas: Ciencia Y Tecnologia, 2016, , 0-0.	0.7	2
49	Pinewood Composite Prepared by<i>In Situ</i>Graft Polymerization of Epoxy Monomer. Polymer Composites, 2017, 38, 597-603.	4.6	2
50	Plantâ€Derived Hydrogels: Plant Nanomaterials and Inspiration from Nature: Water Interactions and Hierarchically Structured Hydrogels (Adv. Mater. 28/2021). Advanced Materials, 2021, 33, 2170218.	21.0	2
51	Roughness and color evaluation of wood polymer composites filled by household waste of mate-tea. Maderas: Ciencia Y Tecnologia, 2015, , 0-0.	0.7	1
52	Biomimetic Templating: Tessellation of Chiralâ€Nematic Cellulose Nanocrystal Films by Microtemplating (Adv. Funct. Mater. 25/2019). Advanced Functional Materials, 2019, 29, 1970169.	14.9	1