Gustavo Henrique Denzin Tonoli

List of Publications by Year
in descending order

130 papers	3,670 citations	117453 34 h-index	161609 54 g-index
130 all docs	130 docs citations	130 times ranked	3127 citing authors

#	Article	IF	Citations
1	Cellulose micro/nanofibres from Eucalyptus kraft pulp: Preparation and properties. Carbohydrate Polymers, 2012, 89, 80-88.	5.1	246
2	Cellulose modified fibres in cement based composites. Composites Part A: Applied Science and Manufacturing, 2009, 40, 2046-2053.	3.8	166
3	Starch/PVA-based nanocomposites reinforced with bamboo nanofibrils. Industrial Crops and Products, 2015, 70, 72-83.	2.5	130
4	Improved durability of vegetable fiber reinforced cement composite subject to accelerated carbonation at early age. Cement and Concrete Composites, 2013, 42, 49-58.	4.6	119
5	Effect of accelerated carbonation on cementitious roofing tiles reinforced with lignocellulosic fibre. Construction and Building Materials, 2010, 24, 193-201.	3.2	115
6	Eucalyptus pulp fibres as alternative reinforcement to engineered cement-based composites. Industrial Crops and Products, 2010, 31, 225-232.	2.5	96
7	Effects of natural weathering on microstructure and mineral composition of cementitious roofing tiles reinforced with fique fibre. Cement and Concrete Composites, 2011, 33, 225-232.	4.6	88
8	Comparative study of 12 pineapple leaf fiber varieties for use as mechanical reinforcement in polymer composites. Industrial Crops and Products, 2015, 64, 68-78.	2.5	88
9	Processing and dimensional changes of cement based composites reinforced with surface-treated cellulose fibres. Cement and Concrete Composites, 2013, 37, 68-75.	4.6	83
10	Performance and Durability of Cement Based Composites Reinforced with Refined Sisal Pulp. Materials and Manufacturing Processes, 2007, 22, 149-156.	2.7	81
11	Effect of accelerated carbonation on the microstructure and physical properties of hybrid fiber-cement composites. Minerals Engineering, 2014, 59, 101-106.	1.8	78
12	Supercritical carbonation treatment on extruded fibreâ€"cement reinforced with vegetable fibres. Cement and Concrete Composites, 2015, 56, 84-94.	4.6	76
13	Evaluation of reaction factors for deposition of silica (SiO2) nanoparticles on cellulose fibers. Carbohydrate Polymers, 2014, 114, 424-431.	5.1	70
14	Electrospinning of zein/tannin bio-nanofibers. Industrial Crops and Products, 2014, 52, 298-304.	2.5	67
15	Improving cellulose nanofibrillation of non-wood fiber using alkaline and bleaching pre-treatments. Industrial Crops and Products, 2019, 131, 203-212.	2.5	65
16	Mineralogical and microstructural changes promoted by accelerated carbonation and ageing cycles of hybrid fiberâ€"cement composites. Construction and Building Materials, 2014, 68, 750-756.	3.2	60
17	Jute fibers and micro/nanofibrils as reinforcement in extruded fiber-cement composites. Construction and Building Materials, 2019, 211, 517-527.	3.2	60
18	How the chemical nature of Brazilian hardwoods affects nanofibrillation of cellulose fibers and film optical quality. Cellulose, 2015, 22, 3657-3672.	2.4	54

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19	Properties of cellulose micro/nanofibers obtained from eucalyptus pulp fiber treated with anaerobic digestate and high shear mixing. Cellulose, 2016, 23, 1239-1256.	2.4	54
20	RelaÃ§Ã£o entre o poder calorÃfico superior e os componentes elementares e minerais da biomassa vegetal. Pesquisa Florestal Brasileira, 2011, 31, 113-122.	0.1	49
21	Cellulose nanofibrils/nanoclay hybrid composite as a paper coating: Effects of spray time, nanoclay content and corona discharge on barrier and mechanical properties of the coated papers. Food Packaging and Shelf Life, 2018, 15, 87-94.	3.3	49
22	Particles of Coffee Wastes as Reinforcement in Polyhydroxybutyrate (PHB) Based Composites. Materials Research, 2015, 18, 546-552.	0.6	48
23	High moisture strength of cassava starch/polyvinyl alcohol-compatible blends for the packaging and agricultural sectors. Journal of Polymer Research, 2015, 22, 1.	1.2	48
24	Impact of bleaching pine fibre on the fibre/cement interface. Journal of Materials Science, 2012, 47, 4167-4177.	1.7	47
25	Redispersion and structural change evaluation of dried microfibrillated cellulose. Carbohydrate Polymers, 2021, 252, 117165.	5.1	47
26	Brazilian Lignocellulosic Wastes for Bioenergy Production: Characterization and Comparison with Fossil Fuels. BioResources, 2012, 8, .	0.5	47
27	TPS/PCL Composite Reinforced with Treated Sisal Fibers: Property, Biodegradation and Water-Absorption. Journal of Polymers and the Environment, 2013, 21, 1-7.	2.4	46
28	Preparation of Cellulose Nanofibrils from Bamboo Pulp by Mechanical Defibrillation for Their Applications in Biodegradable Composites. Journal of Nanoscience and Nanotechnology, 2015, 15, 6751-6768.	0.9	43
29	Influence of hemicellulose content of<i>Eucalyptus</i>and<i>Pinus</i>fibers on the grinding process for obtaining cellulose micro/nanofibrils. Holzforschung, 2019, 73, 1035-1046.	0.9	42
30	Effect of the nano-fibrillation of bamboo pulp on the thermal, structural, mechanical and physical properties of nanocomposites based on starch/poly(vinyl alcohol) blend. Cellulose, 2018, 25, 1823-1849.	2.4	41
31	Characterization of cassava starch/soy protein isolate blends obtained by extrusion and thermocompression. Industrial Crops and Products, 2021, 160, 113092.	2.5	41
32	Nanostructured Polylactic Acid/Candeia Essential Oil Mats Obtained by Electrospinning. Journal of Nanomaterials, 2015, 2015, 1-9.	1.5	40
33	Hybrid Reinforcement of Sisal and Polypropylene Fibers in Cement-Based Composites. Journal of Materials in Civil Engineering, 2011, 23, 177-187.	1.3	39
34	Obtaining cellulosic nanofibrils from oat straw for biocomposite reinforcement: Mechanical and barrier properties. Industrial Crops and Products, 2020, 148, 112264.	2.5	38
35	Effect of fibre morphology on flocculation of fibreâ€"cement suspensions. Cement and Concrete Research, 2009, 39, 1017-1022.	4.6	37
36	Impact of nanofibrillation degree of eucalyptus and Amazonian hardwood sawdust on physical properties of cellulose nanofibril films. Wood Science and Technology, 2017, 51, 1095-1115.	1.4	36

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37	Renewable hybrid nanocatalyst from magnetite and cellulose for treatment of textile effluents. Carbohydrate Polymers, 2017, 163, 101-107.	5.1	35
38	MICRO/NANOFIBRILAS CELULÃ“SICAS DE EUCALYPTUS EM FIBROCIMENTOS EXTRUDADOS. Cerne, 2016, 22, 59-68.	0.9	34
39	NANOPARTICLES-BASED WOOD PRESERVATIVES: THE NEXT GENERATION OF WOOD PROTECTION?. Cerne, 2018, 24, 397-407.	0.9	34
40	Extruded Cement Based Composites Reinforced with Sugar Cane Bagasse Fibres. Key Engineering Materials, 0, 517, 450-457.	0.4	33
41	Nanoindentation study of the interfacial zone between cellulose fiber and cement matrix in extruded composites. Cement and Concrete Composites, 2018, 85, 1-8.	4.6	33
42	Bio-based thin films of cellulose nanofibrils and magnetite for potential application in green electronics. Carbohydrate Polymers, 2019, 207, 100-107.	5.1	33
43	Non-conventional cement-based composites reinforced with vegetable fibers: A review of strategies to improve durability. Materiales De Construccion, 2015, 65, e041.	0.2	33
44	Biocomposite of Cassava Starch Reinforced with Cellulose Pulp Fibers Modified with Deposition of Silica (SiO₂) Nanoparticles. Journal of Nanomaterials, 2015, 2015, 1-9.	1.5	30
45	Isocyanate-treated cellulose pulp and its effect on the alkali resistance and performance of fiber cement composites. Holzforschung, 2013, 67, 853-861.	0.9	29
46	Artificial neural network and partial least square regressions for rapid estimation of cellulose pulp dryness based on near infrared spectroscopic data. Carbohydrate Polymers, 2019, 224, 115186.	5.1	28
47	Effect of colloidal silica on the mechanical properties of fiberâ€“cement reinforced with cellulosic fibers. Journal of Materials Science, 2014, 49, 7497-7506.	1.7	26
48	Curaua and eucalyptus nanofiber films by continuous casting: mixture of cellulose nanocrystals and nanofibrils. Cellulose, 2019, 26, 2453-2470.	2.4	24
49	Rationalizing the impact of aging on fiberâ€“matrix interface and stability of cement-based composites submitted to carbonation at early ages. Journal of Materials Science, 2016, 51, 7929-7943.	1.7	21
50	Properties of an Amazonian vegetable fiber as a potential reinforcing material. Industrial Crops and Products, 2013, 47, 43-50.	2.5	20
51	Polyester Composites Reinforced with Corona-Treated Fibers from Pine, Eucalyptus and Sugarcane Bagasse. Journal of Polymers and the Environment, 2017, 25, 800-811.	2.4	20
52	Spraying Cellulose Nanofibrils for Improvement of Tensile and Barrier Properties of Writing & Printing (W&P) Paper. Journal of Wood Chemistry and Technology, 2018, 38, 233-245.	0.9	20
53	Sisal organosolv pulp as reinforcement for cement based composites. Materials Research, 2009, 12, 305-314.	0.6	20
54	Influence of cellulose viscosity and residual lignin on water absorption of nanofibril films. Procedia Engineering, 2017, 200, 155-161.	1.2	19

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55	Study of morphological properties and rheological parameters of cellulose nanofibrils of cocoa shell (Theobroma cacao L.). Carbohydrate Polymers, 2019, 214, 152-158.	5.1	19
56	Incorporation of bamboo particles and â€œsynthetic termite salivaâ€• in adobes. Construction and Building Materials, 2015, 98, 250-256.	3.2	18
57	How the surface wettability and modulus of elasticity of the Amazonian paricÃ¡ nanofibrils films are affected by the chemical changes of the natural fibers. European Journal of Wood and Wood Products, 2018, 76, 1581-1594.	1.3	18
58	Massaranduba Sawdust: A Potential Source of Charcoal and Activated Carbon. Polymers, 2019, 11, 1276.	2.0	18
59	Valorization of Jute Biomass: Performance of Fiberâ€"Cement Composites Extruded with Hybrid Reinforcement (Fibers and Nanofibrils). Waste and Biomass Valorization, 2021, 12, 5743-5761.	1.8	18
60	Thermal performance of sisal fiber-cement roofing tiles for rural constructions. Scientia Agricola, 2011, 68, 1-7.	0.6	17
61	Influence of the initial moisture content on the carbonation degree and performance of fiber-cement composites. Construction and Building Materials, 2019, 215, 22-29.	3.2	17
62	CorrelaÃ§Ãµes canÃ´nicas entre as caracterÃsticas quÃmicas e energÃ©ticas de resÃduos lignocelulÃ³sicos. Cerne, 2012, 18, 433-439.	0.9	16
63	Effect of multiâ€branched PDLA additives on the mechanical and thermomechanical properties of blends with PLLA. Journal of Applied Polymer Science, 2016, 133, .	1.3	16
64	Impact of different silkworm dietary supplements on its silk performance. Journal of Materials Science, 2014, 49, 6302-6310.	1.7	15
65	The effect of surface modifications with corona discharge in pinus and eucalyptus nanofibril films. Cellulose, 2018, 25, 5017-5033.	2.4	15
66	Activated carbons prepared by physical activation from different pretreatments of amazon piassava fibers. Journal of Natural Fibers, 2019, 16, 961-976.	1.7	15
67	Modification of eucalyptus pulp fiber using silane coupling agents with aliphatic side chains of different length. Polymer Engineering and Science, 2015, 55, 1273-1280.	1.5	14
68	Bio-based films/nanopapers from lignocellulosic wastes for production of added-value micro-/nanomaterials. Environmental Science and Pollution Research, 2022, 29, 8665-8683.	2.7	14
69	Addition of wheat straw nanofibrils to improve the mechanical and barrier properties of cassava starchâ€"based bionanocomposites. Industrial Crops and Products, 2021, 170, 113816.	2.5	14
70	Cellulose Associated with Pet Bottle Waste in Cement Based Composites. Materials Research, 2017, 20, 1380-1387.	0.6	13
71	STRENGTH IMPROVEMENT OF HYDROXYPROPYL METHYLCELLULOSE/ STARCH FILMS USING CELLULOSE NANOCRYSTALS. Cerne, 2017, 23, 423-434.	0.9	13
72	Optimizing cellulose microfibrillation with NaOH pretreatments for unbleached Eucalyptus pulp. Cellulose, 2021, 28, 11519-11531.	2.4	13

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73	Investigation of dispersion methodologies of microcrystalline and nano-fibrillated cellulose on cement pastes. Cement and Concrete Composites, 2022, 126, 104351.	4.6	13
74	New products made with lignocellulosic nanofibers from Brazilian amazon forest. IOP Conference Series: Materials Science and Engineering, 2014, 64, 012012.	0.3	12
75	Different ageing conditions on cementitious roofing tiles reinforced with alternative vegetable and synthetic fibres. Materials and Structures/Materiaux Et Constructions, 2014, 47, 433-446.	1.3	12
76	Effect of overlapping cellulose nanofibrils and nanoclay layers on mechanical and barrier properties of spray-coated papers. Cellulose, 2022, 29, 1097-1113.	2.4	12
77	Fiber-cement composites hydrated with carbonated water: Effect on physical-mechanical properties. Cement and Concrete Research, 2019, 124, 105812.	4.6	11
78	Active coatings of thermoplastic starch and chitosan with alpha-tocopherol/bentonite for special green coffee beans. International Journal of Biological Macromolecules, 2021, 170, 810-819.	3.6	11
79	Preparation and characterization of tannin-based adhesives reinforced with cellulose nanofibrils for wood bonding. Holzforschung, 2021, 75, 159-167.	0.9	11
80	Desempenho de telhas de escÃ³ria de alto forno e fibras vegetais em protÃ³tipos de galpÃµes. Revista Brasileira De Engenharia Agricola E Ambiental, 2008, 12, 536-539.	0.4	10
81	Influence of chemical pretreatments on plant fiber cell wall and their implications on the appearance of fiber dislocations. Holzforschung, 2020, 74, 949-955.	0.9	10
82	CarbonataÃ§Ã£o acelerada efetuada nas primeiras idades em compÃ³sitos cimentÃ¢ios reforÃ§ados com polpas celulÃ³sicas. Ambiente ConstruÃdo, 2010, 10, 233-246.	0.2	10
83	Lignocellulosic Composites Made from Agricultural and Forestry Wastes in Brazil. Key Engineering Materials, 0, 517, 556-563.	0.4	9
84	Lignocellulosic residues in cement-bonded panels. , 2017, , 3-16.		9
85	Hydrothermal treatment of strand particles of pine for the improvement of OSB panels. European Journal of Wood and Wood Products, 2018, 76, 155-162.	1.3	9
86	Main Characteristics of Underexploited Amazonian Palm Fibers for Using as Potential Reinforcing Materials. Waste and Biomass Valorization, 2019, 10, 3125-3142.	1.8	9
87	Hydroxypropyl methylcellulose films reinforced with cellulose micro/nanofibrils: study of physical, optical, surface, barrier and mechanical properties. Nordic Pulp and Paper Research Journal, 2022, 37, 366-384.	0.3	9
88	Nanocellulose Films from Amazon Forest Wood Wastes: Structural and Thermal Properties. Key Engineering Materials, 2015, 668, 110-117.	0.4	8
89	IncorporaÃ§Ã£o de Nanomateriais e emulsÃ£o de ceras no desenvolvimento de papÃ©is multicamadas. Scientia Forestalis/Forest Sciences, 2019, 47, .	0.2	8
90	Hybrid films from plant and bacterial nanocellulose: mechanical and barrier properties. Nordic Pulp and Paper Research Journal, 2022, 37, 159-174.	0.3	8

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91	Surface properties of eucalyptus pulp fibres as reinforcement of cement-based composites. Holzforschung, 2010, 64, .	0.9	7
92	Chemical treatment of banana tree pseudostem particles aiming the production of particleboards. Ciencia E Agrotecnologia, 2014, 38, 43-49.	1.5	7
93	AvaliaÃ§Ã£o da qualidade da madeira de Coffea arabica L. como fonte de bioenergia. Cerne, 2014, 20, 541-549.	0.9	7
94	Cementitious Composites Reinforced with Kraft Pulping Waste. Key Engineering Materials, 0, 668, 390-398.	0.4	7
95	Enhanced silk performance by enriching the silkworm diet with bordeaux mixture. Journal of Materials Science, 2017, 52, 2684-2693.	1.7	7
96	Tannin-stabilized silver nanoparticles and citric acid added associated to cellulose nanofibrils: effect on film antimicrobial properties. SN Applied Sciences, 2019, 1, 1.	1.5	7
97	TÃ©cnicas multivariadas aplicadas Ã avaliaÃ§Ã£o de resÃduos lignocelulÃ³sicos para a produÃ§Ã£o de bioenergia. Ciencia Florestal, 2013, 23, .	0.1	7
98	Effect of Nano-silica Deposition on Cellulose Fibers on the Initial Hydration of the Portland Cement. BioResources, 2018, 13, .	0.5	6
99	Cement-based corrugated sheets reinforced with polypropylene fibres subjected to a high-performance curing method. Construction and Building Materials, 2020, 262, 120791.	3.2	6
100	Pretreatment Affects Activated Carbon from Piassava. Polymers, 2020, 12, 1483.	2.0	6
101	Influence of thermal treatment of eucalyptus fibers on the physical-mechanical properties of extruded fiber-cement composites. Materials Today: Proceedings, 2020, 31, S348-S352.	0.9	6
102	CELLULOSE NANOFIBRILS MODIFICATION WITH POLYANILINE AIMING AT ENHANCING ELECTRICAL PROPERTIES FOR APPLICATION IN FLEXIBLE ELECTRONICS. Cellulose Chemistry and Technology, 2019, 53, 775-786.	0.5	6
103	Impact of nanosilica deposited on cellulose pulp fibers surface on hydration and fiber-cement compressive strength. Construction and Building Materials, 2022, 326, 126847.	3.2	6
104	Alkaline Pretreatment Facilitate Mechanical Fibrillation of Unbleached Cellulose Pulps for Obtaining of Cellulose micro/nanofibrils (MFC). Journal of Natural Fibers, 2022, 19, 13385-13400.	1.7	6
105	Potential Use of Colloidal Silica in Cement Based Composites: Evaluation of the Mechanical Properties. Key Engineering Materials, 0, 517, 382-391.	0.4	5
106	Relation of transverse air permeability with physical properties in different compositions of sugarcane bagasse particleboards. Materials Research, 2013, 16, 150-157.	0.6	5
107	POLYESTER COMPOSITES REINFORCED WITH MALEIC ANHYDRIDE-TREATED FILAMENTS FROM MAUVE. Cerne, 2018, 24, 1-8.	0.9	5
108	Monitoring the dynamics of Portland cement hydration through photoluminescence and other correlated spectroscopy techniques. Construction and Building Materials, 2020, 252, 119073.	3.2	5

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109	Changes on structural characteristics of cellulose pulp fiber incubated for different times in anaerobic digestate. Cerne, 0, 27, .	0.9	5
110	ResistÃªncia das madeiras de pinus, cedro australiano e seus produtos derivados ao ataque de Cryptotermes brevis. Cerne, 2014, 20, 433-439.	0.9	5
111	Eucalyptus wood nanofibrils as reinforcement of carrageenan and starch biopolymers for improvement of physical properties. Journal of Tropical Forest Science, 2018, 30, 292-303.	0.1	5
112	Procurement and Characterization of Biodegradable Films made from Blends of Eucalyptus, Pine and Cocoa Bean Shell Nanocelluloses. Waste and Biomass Valorization, 2023, 14, 3169-3181.	1.8	5
113	Copaiba oil and vegetal tannin as functionalizing agents for aÃ§ai nanofibril films: valorization of forest wastes from Amazonia. Environmental Science and Pollution Research, 2022, 29, 66422-66437.	2.7	5
114	Functionally Graded MDP Panels Using Bamboo Particles. Key Engineering Materials, 2015, 668, 39-47.	0.4	4
115	Optimization of Cellulose Nanofibril Production under Enzymatic Pretreatment and Evaluation of Dislocations in Plant Fibers. Fibers and Polymers, 2021, 22, 1810-1821.	1.1	4
116	New biodegradable film produced from cocoa shell nanofibrils containing bioactive compounds. Journal of Coatings Technology Research, 2021, 18, 1613-1624.	1.2	4
117	Superabsorbent ability polymer to reduce the bulk density of extruded cement boards. Journal of Building Engineering, 2021, 43, 103130.	1.6	4
118	Cellulose nanostructured films from pretreated aÃ§aÃ-mesocarp fibers: physical, barrier, and tensile performance. Cerne, 0, 27, .	0.9	4
119	Fibers pre-treatments with sodium silicate affect the properties of suspensions, films, and quality index of cellulose micro/nanofibrils. Nordic Pulp and Paper Research Journal, 2022, 37, 534-552.	0.3	4
120	Processing Changes of Cement Based Composites Reinforced with Silane and Isocyanate Eucalyptus Modified Fibres. Key Engineering Materials, 0, 517, 437-449.	0.4	3
121	Exfoliating Agents for Skincare Soaps Obtained from the Crabwood Waste Bagasse, a Natural Abrasive from Amazonia. Waste and Biomass Valorization, 2021, 12, 4441-4461.	1.8	3
122	Evaluation of changes in cellulose micro/nanofibrils structure under chemical and enzymatic pre-treatments. Holzforschung, 2021, 75, 1042-1051.	0.9	3
123	CELLULOSE SHEETS MADE FROM MICRO/NANOFIBRILLATED FIBERS OF BAMBOO, JUTE AND EUCALYPTUS CELLULOSE PULPS. Cellulose Chemistry and Technology, 2019, 53, 291-305.	0.5	3
124	Coir fiber as reinforcement in cement-based materials. , 2022, , 707-739.		3
125	NaOH Treatment Impact in the Dimensional Stability of Banana Pseudostem Particleboard Panels. Key Engineering Materials, 0, 600, 447-451.	0.4	2
126	Coir and Sisal Fibers as Fillers in the Production of Eucalyptus Medium Density Particleboards - MDP. Materials Research, 2016, 19, 1429-1436.	0.6	2

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127	Use of Castor Hull and Sugarcane Bagasse in Particulate Composites. Key Engineering Materials, 0, 668, 381-389.	0.4	1
128	Inclusion of Lignocellulosic Fibers in Plastic Composites. Key Engineering Materials, 2014, 600, 442-446.	0.4	0
129	Effect of pyraclostrobin on mulberry leaves nutrients, silkworm cocoon production and silk fiber performance. Revista Materia, 2021, 26, .	0.1	0
130	Uso de biopolÃmeros no recobrimento de papÃ©is para embalagens alimentÃcias: uma breve revisÃ£o. Research, Society and Development, 2022, 11, e26511729844.	0.0	0