

Gianluca Tondi

List of Publications by Year in descending order

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65
papers

2,200
citations

218592

26
h-index

233338

45
g-index

67
all docs

67
docs citations

67
times ranked

1475
citing authors

#	ARTICLE	IF	CITATIONS
1	Tannin-based carbon foams. Carbon, 2009, 47, 1480-1492.	5.4	188
2	Tannin-based rigid foams: Characterization and modification. Industrial Crops and Products, 2009, 29, 356-363.	2.5	182
3	Tannin-based rigid foams: A survey of chemical and physical properties. Bioresource Technology, 2009, 100, 5162-5169.	4.8	181
4	Metal adsorption of tannin based rigid foams. Industrial Crops and Products, 2009, 29, 336-340.	2.5	105
5	Nanocellulose-tannin films: From trees to sustainable active packaging. Journal of Cleaner Production, 2018, 184, 143-151.	4.6	100
6	Middle infrared (ATR FT-MIR) characterization of industrial tannin extracts. Industrial Crops and Products, 2015, 65, 422-428.	2.5	92
7	Matrix-assisted laser desorption/ionization time-of-flight structure determination of complex thermoset networks: Polyflavonoid tannin-furanic rigid foams. Journal of Applied Polymer Science, 2008, 110, 1451-1456.	1.3	79
8	Structure degradation, conservation and rearrangement in the carbonisation of polyflavonoid tannin/furanic rigid foams – A MALDI-TOF investigation. Polymer Degradation and Stability, 2008, 93, 968-975.	2.7	60
9	Tannin-boron preservatives for wood buildings: mechanical and fire properties. European Journal of Wood and Wood Products, 2012, 70, 689-696.	1.3	59
10	Impregnation of Scots pine and beech with tannin solutions: effect of viscosity and wood anatomy in wood infiltration. Wood Science and Technology, 2013, 47, 615-626.	1.4	58
11	Tannin-Based Copolymer Resins: Synthesis and Characterization by Solid State ¹³ C NMR and FT-IR Spectroscopy. Polymers, 2017, 9, 223.	2.0	52
12	X-Ray Microtomography Studies of Tannin-Derived Organic and Carbon Foams. Microscopy and Microanalysis, 2009, 15, 384-394.	0.2	48
13	High performance tannin resin-boron wood preservatives for outdoor end-uses. European Journal of Wood and Wood Products, 2009, 67, 89-93.	1.3	46
14	Density related properties of bark insulation boards bonded with tannin hexamine resin. European Journal of Wood and Wood Products, 2014, 72, 417-424.	1.3	42
15	Starch-sugar synergy in wood adhesion science: basic studies and particleboard production. European Journal of Wood and Wood Products, 2012, 70, 271-278.	1.3	40
16	MALDI-ToF investigation of furanic polymer foams before and after carbonization: Aromatic rearrangement and surviving furanic structures. European Polymer Journal, 2008, 44, 2938-2943.	2.6	39
17	Understanding the Polymerization of Polyfurfuryl Alcohol: Ring Opening and Diels-Alder Reactions. Polymers, 2019, 11, 2126.	2.0	39
18	Chemical activation of tannin-furanic carbon foams. Industrial Crops and Products, 2010, 31, 327-334.	2.5	37

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19	Analytical characterization of purified mimosa (<i>Acacia mearnsii</i>) industrial tannin extract: Single and sequential fractionation. <i>Separation and Purification Technology</i> , 2017, 186, 218-225.	3.9	35
20	NATURAL TANNIN-BASED RIGID FOAMS AS INSULATION FOR DOORS AND WALL PANELS. <i>Maderas: Ciencia Y Tecnologia</i> , 2008, 10, .	0.7	34
21	Radiative properties of tannin-based, glasslike, carbon foams. <i>Carbon</i> , 2012, 50, 4102-4113.	5.4	34
22	Sustainable Phenolic Fractions as Basis for Furfuryl Alcohol-Based Co-Polymers and Their Use as Wood Adhesives. <i>Polymers</i> , 2016, 8, 396.	2.0	34
23	DURABILITY OF TANNIN-BORON-TREATED TIMBER. <i>BioResources</i> , 2012, 7, .	0.5	33
24	Comparison of disodium octaborate tetrahydrate-based and tannin-boron-based formulations as fire retardant for wood structures. <i>Fire and Materials</i> , 2014, 38, 381-390.	0.9	32
25	Pilot plant up-scaling of tannin foams. <i>Industrial Crops and Products</i> , 2016, 79, 211-218.	2.5	31
26	Lignin-based Foams: Production Process and Characterization. <i>BioResources</i> , 2016, 11, .	0.5	27
27	Comparative potential of alternative wood welding systems, ultrasonic and microfriction stir welding. <i>Journal of Adhesion Science and Technology</i> , 2007, 21, 1633-1643.	1.4	26
28	A Simple Approach to Distinguish Classic and Formaldehyde-Free Tannin Based Rigid Foams by ATR FT-IR. <i>Journal of Spectroscopy</i> , 2015, 2015, 1-8.	0.6	26
29	Raman spectroscopic investigation of tannin-furanic rigid foams. <i>Vibrational Spectroscopy</i> , 2016, 84, 58-66.	1.2	25
30	Mitigation of Ammonia Emissions from Cattle Manure Slurry by Tannins and Tannin-Based Polymers. <i>Biomolecules</i> , 2020, 10, 581.	1.8	25
31	Unsaturated Polyesters and Vinyl Esters. , 2014, , 111-172.		24
32	Surface properties of tannin treated wood during natural and artificial weathering. <i>International Wood Products Journal</i> , 2013, 4, 150-157.	0.6	23
33	Analysis of gases emitted during carbonization degradation of polyflavonoid tannin/furanic rigid foams. <i>Polymer Degradation and Stability</i> , 2008, 93, 1539-1543.	2.7	21
34	A new methodology in the study of PVAc-based adhesive formulations. <i>Journal of Applied Polymer Science</i> , 2009, 114, 3841-3854.	1.3	21
35	Synthesis and Characterization of High-Performing Sulfur-Free Tannin Foams. <i>Polymers</i> , 2020, 12, 564.	2.0	21
36	Purification of industrial tannin extract through simple solid-liquid extractions. <i>Industrial Crops and Products</i> , 2019, 139, 111502.	2.5	20

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37	Chemical constitution of polyfurfuryl alcohol investigated by FTIR and Resonant Raman spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 262, 120090.	2.0	18
38	Effect of hardening parameters of wood preservatives based on tannin copolymers. <i>Holzforschung</i> , 2019, 73, 457-467.	0.9	17
39	Pollutant Absorption as a Possible End-Of-Life Solution for Polyphenolic Polymers. <i>Polymers</i> , 2019, 11, 911.	2.0	17
40	FRIENDLY WOOD PRESERVATIVE SYSTEM BASED ON POLYMERIZED TANNIN RESIN-BORIC ACID FOR OUTDOOR APPLICATIONS. <i>Maderas: Ciencia Y Tecnologia</i> , 2010, 12, .	0.7	15
41	Univariate and Multivariate Analysis of Tannin-Impregnated Wood Species Using Vibrational Spectroscopy. <i>Applied Spectroscopy</i> , 2014, 68, 488-494.	1.2	13
42	Tannin based foams modified to be semi-conductive: Synthesis and characterization. <i>Progress in Organic Coatings</i> , 2015, 78, 488-493.	1.9	12
43	Tannin-caprolactam and Tannin-PEG formulations as outdoor wood preservatives: biological properties. <i>Annals of Forest Science</i> , 2017, 74, 1.	0.8	12
44	Chemistry, Morphology, Microtomography and Activation of Natural and Carbonized Tannin Foams for Different Applications. <i>Macromolecular Symposia</i> , 2012, 313-314, 100-111.	0.4	11
45	Microwave Produced Tannin-furanic Foams. <i>Journal of Materials Science Research</i> , 2012, 1, .	0.1	11
46	Tannin-caprolactam and Tannin-PEG formulations as outdoor wood preservatives: weathering properties. <i>Annals of Forest Science</i> , 2017, 74, 1.	0.8	11
47	Impact of tannin as sustainable compatibilizer for wood-polypropylene composites. <i>Polymer Composites</i> , 2018, 39, 4275-4284.	2.3	9
48	Bio-Based Polymers for Engineered Green Materials. <i>Polymers</i> , 2020, 12, 775.	2.0	9
49	Thermal valorization and elemental composition of industrial tannin extracts. <i>Fuel</i> , 2021, 289, 119907.	3.4	8
50	Stretchable, Bio-Compatible, Antioxidant and Self-Powering Adhesives from Soluble Silk Fibroin and Vegetal Polyphenols Exfoliated Graphite. <i>Nanomaterials</i> , 2021, 11, 2352.	1.9	8
51	Development of Quebracho (<i>Schinopsis balansae</i>) Tannin-Based Thermoset Resins. <i>Polymers</i> , 2021, 13, 4412.	2.0	8
52	Chemical Characterization of Wood-Leather Panels by Means of ¹³ C NMR Spectroscopy. <i>BioResources</i> , 2013, 8, .	0.5	7
53	Furfuryl Alcohol and Lactic Acid Blends: Homo- or Co-Polymerization?. <i>Polymers</i> , 2019, 11, 1533.	2.0	7
54	Study of the Spatio-Chemical Heterogeneity of Tannin-Furanic Foams: From 1D FTIR Spectroscopy to 3D FTIR Micro-Computed Tomography. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12869.	1.8	7

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55	Hydrophobic tannin foams. <i>International Wood Products Journal</i> , 2015, 6, 148-150.	0.6	6
56	Quebracho Tannin Bio-Based Adhesives for Plywood. <i>Polymers</i> , 2022, 14, 2257.	2.0	6
57	Thermal modification kinetics and chemistry of poplar wood in dry and saturated steam media. <i>Holzforschung</i> , 2021, 75, 721-730.	0.9	5
58	Quebracho-Based Wood Preservatives: Effect of Concentration and Hardener on Timber Properties. <i>Coatings</i> , 2022, 12, 568.	1.2	5
59	ATR FTIR Mapping of Leather Fiber Panels. <i>Journal of Applied Spectroscopy</i> , 2015, 81, 1078-1080.	0.3	4
60	Reduction of the surface colour variability of thermally modified <i>Eucalyptus globulus</i> wood by colour pre-grading and homogeneity thermal treatment. <i>European Journal of Wood and Wood Products</i> , 2018, 76, 1495-1504.	1.3	4
61	Tannin-furanic foams used as biomaterial substrates for SERS sensing in possible wastewater filter applications. <i>Materials Research Express</i> , 2021, 8, 115404.	0.8	4
62	Infrared-Catalyzed Synthesis of Tannin-Furanic Foams. <i>BioResources</i> , 2013, 9, .	0.5	3
63	Wood preservation by a mixed anhydride treatment: A13C-NMR investigation of simple models of polymeric wood constituents. <i>Journal of Applied Polymer Science</i> , 2009, 112, 44-51.	1.3	2
64	Allyls. , 2014, , 173-189.		2
65	Impact of Leather on the Fire Resistance of Leather-Wood Fibreboard: FT-IR Spectroscopy and Pyrolysis-GC-MS Investigation. <i>Advances in Materials Science and Engineering</i> , 2019, 2019, 1-8.	1.0	0