Antonio Pizzi

List of Publications by Citations

741 papers	18,946 citations	62 h-index	91 g-index
762 ext. papers	21,693 ext. citations	3.2 avg, IF	7.27 L-index

#	Paper	IF	Citations
741	Characterisation of thermally modified wood: molecular reasons for wood performance improvement. *European Journal of Wood and Wood Products*, **1998**, 56, 149-153	2.1	409
740	Recent developments in eco-efficient bio-based adhesives for wood bonding: opportunities and issues. *Journal of Adhesion Science and Technology*, **2006**, 20, 829-846	2	352
739	Durability of heat-treated wood. *European Journal of Wood and Wood Products*, **2002**, 60, 1-6	2.1	319
738	Advanced Wood Adhesives Technology		277
737	MALDI□TOF mass spectrometry of polyflavonoid tannins. *Polymer*, **2001**, 42, 7531-7539	3.9	179
736	Tannin-based carbon foams. *Carbon*, **2009**, 47, 1480-1492	10.4	164
735	Tannin-based rigid foams: a survey of chemical and physical properties. *Bioresource Technology*, **2009**, 100, 5162-9	11	159
734	Lignin-based polycondensation resins for wood adhesives. *Journal of Applied Polymer Science*, **2007**, 103, 1690-1699	2.9	155
733	Tannin-based rigid foams: Characterization and modification. *Industrial Crops and Products*, **2009**, 29, 356-363	5.9	153
732	Characterization and performance of Rhizophora apiculata mangrove polyflavonoid tannins in the adsorption of copper (II) and lead (II). *Industrial Crops and Products*, **2009**, 30, 152-161	5.9	134
731	Lignin-based wood panel adhesives without formaldehyde. *European Journal of Wood and Wood Products*, **2007**, 65, 65-70	2.1	133
730	Environmentally friendly mixed tannin/lignin wood resins. *Journal of Applied Polymer Science*, **2008**, 107, 203-209	2.9	123
729	Non-toxic, zero emission tannin-glyoxal adhesives for wood panels. *European Journal of Wood and Wood Products*, **2005**, 63, 477-478	2.1	119
728	Acid- and alkali-catalyzed tannin-based rigid foams. *Journal of Applied Polymer Science*, **1994**, 53, 1547-1556	2.9	116
727	Environment-friendly soy flour-based resins without formaldehyde. *Journal of Applied Polymer Science*, **2008**, 108, 624-632	2.9	113
726	Tannins as a sustainable raw material for green chemistry: A review. *Industrial Crops and Products*, **2018**, 126, 316-332	5.9	112
725	Nitrogen-doped carbon materials produced from hydrothermally treated tannin. *Carbon*, **2012**, 50, 5411-5420	10.4	110

724	New tannin–lignin aerogels. *Industrial Crops and Products*, **2013**, 41, 347-355	5.9	108
723	Condensed tannins from grape pomace: Characterization by FTIR and MALDI TOF and production of environment friendly wood adhesive. *Industrial Crops and Products*, **2012**, 40, 13-20	5.9	107
722	Cornstarch and tannin in phenol–formaldehyde resins for plywood production. *Industrial Crops and Products*, **2009**, 30, 188-193	5.9	103
721	Wood bonding by vibrational welding. *Journal of Adhesion Science and Technology*, **2003**, 17, 1573-1589	2	100
720	Characterization of pomegranate peels tannin extractives. *Industrial Crops and Products*, **2012**, 40, 239-246	3.9	98
719	Characterisation of maritime pine (Pinus pinaster) bark tannins extracted under different conditions by spectroscopic methods, FTIR and HPLC. *Industrial Crops and Products*, **2013**, 49, 897-903	5.9	98
718	The use of tannin to prepare carbon gels. Part I: Carbon aerogels. *Carbon*, **2011**, 49, 2773-2784	10.4	96
717	Wood products and green chemistry. *Annals of Forest Science*, **2016**, 73, 185-203	3.1	94
716	Metal adsorption of tannin based rigid foams. *Industrial Crops and Products*, **2009**, 29, 336-340	5.9	90
715	Tannins: Prospectives and Actual Industrial Applications. *Biomolecules*, **2019**, 9,	5.9	89
714	Pine tannin-based rigid foams: Mechanical and thermal properties. *Industrial Crops and Products*, **2013**, 43, 245-250	5.9	89
713	Hexamine hardener behaviour: effects on wood glueing, tannin and other wood adhesives. *European Journal of Wood and Wood Products*, **1999**, 57, 305-317	2.1	86
712	Fast advancement and hardening acceleration of low-condensation alkaline PF resins by esters and copolymerized urea. *Journal of Applied Polymer Science*, **1999**, 74, 359-378	2.9	86
711	Effect of composition and processing parameters on the characteristics of tannin-based rigid foams. Part I: Cell structure. *Materials Chemistry and Physics*, **2010**, 122, 175-182	4.4	85
710	Mechanical properties of tannin-based rigid foams undergoing compression. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 4438-4446	5.3	84
709	Theory and Practice of the Preparation of Low Formaldehyde Emission UF Adhesives. *Holzforschung* , **1994**, 48, 254-261	2	84
708	Isolation and characterization of lignin from Moroccan sugar cane bagasse: Production of lignin–phenol-formaldehyde wood adhesive. *Industrial Crops and Products*, **2013**, 45, 296-302	5.9	82
707	Tannin-Based Adhesives. *Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics*, **1980**, 18, 247-315		80

706	The chemistry and development of tannin-based adhesives for exterior plywood. *Journal of Applied Polymer Science*, **1978**, 22, 1745-1761	2.9	80
705	The use of tannin to prepare carbon gels. Part II. Carbon cryogels. *Carbon*, **2011**, 49, 2785-2794	10.4	79
704	A comparative C13 NMR study of polyflavonoid tannin extracts for phenolic polycondensates. *Journal of Applied Polymer Science*, **1993**, 50, 2105-2113	2.9	77
703	Wood dowel bonding by high-speed rotation welding. *Journal of Adhesion Science and Technology*, **2004**, 18, 1263-1278	2	75
702	Testing by fourier transform infrared species variation during melamine□urea□formaldehyde resin preparation. *Journal of Applied Polymer Science*, **2007**, 106, 2192-2197	2.9	74
701	Development and optimization of a new formaldehyde-free cornstarch and tannin wood adhesive. *European Journal of Wood and Wood Products*, **2010**, 68, 167-177	2.1	73
700	MALDI-TOF and 13C NMR characterization of maritime pine industrial tannin extract. *Industrial Crops and Products*, **2010**, 32, 105-110	5.9	73
699	Extraction of condensed tannins from grape pomace for use as wood adhesives. *Industrial Crops and Products*, **2011**, 33, 253-257	5.9	72
698	Influence of nanoclay on urea-formaldehyde resins for wood adhesives and its model. *Journal of Applied Polymer Science*, **2008**, 109, 2442-2451	2.9	72
697	High resin content natural matrix□atural fibre biocomposites. *Industrial Crops and Products*, **2009**, 30, 235-240	5.9	71
696	Characterization of a formaldehyde-free cornstarch-tannin wood adhesive for interior plywood. *European Journal of Wood and Wood Products*, **2010**, 68, 427-433	2.1	69
695	Matrix-assisted laser desorption/ionization time-of-flight structure determination of complex thermoset networks: Polyflavonoid tannin□uranic rigid foams. *Journal of Applied Polymer Science*, **2008**, 110, 1451-1456	2.9	69
694	X-ray microdensitometry analysis of vibration-welded wood. *Journal of Adhesion Science and Technology*, **2004**, 18, 673-685	2	69
693	Non-Emulsifiable, Water-Based, Mixed Diisocyanate Adhesive Systems for Exterior Plywood - Part I. Novel Reaction Mechanisms and Their Chemical Evidence. *Holzforschung*, **1992**, 46, 541-547	2	69
692	Isocyanate free condensed tannin-based polyurethanes. *European Polymer Journal*, **2015**, 67, 513-526	5.2	68
691	Synthetic-resin-free wood panel adhesives from mixed low molecular mass lignin and tannin. *European Journal of Wood and Wood Products*, **2011**, 69, 221-229	2.1	68
690	Considerations on the macromolecular structure of chestnut ellagitannins by matrix-assisted laser desorption/ionization-time-of-flight mass spectrometry. *Journal of Applied Polymer Science*, **2002**, 85, 429-437	2.9	68
689	On the chemistry, behavior, and cure acceleration of phenol□formaldehyde resins under very alkaline conditions. *Journal of Applied Polymer Science*, **1993**, 49, 2157-2170	2.9	68

688	Tailoring the structure of cellular vitreous carbon foams. *Carbon*, **2012**, 50, 2026-2036	10.4	67
687	Effect of composition and processing parameters on the characteristics of tannin-based rigid foams. Part II: Physical properties. *Materials Chemistry and Physics*, **2010**, 123, 210-217	4.4	66
686	Upgrading melamine–urea–formaldehyde polycondensation resins with buffering additives. I. The effect of hexamine sulfate and its limits. *Journal of Applied Polymer Science*, **2003**, 90, 203-214	2.9	66
685	Flammability assessment of tannin-based cellular materials. *Polymer Degradation and Stability*, **2011**, 96, 477-482	4.7	65
684	A new method for preparing tannin-based foams. *Industrial Crops and Products*, **2014**, 54, 40-53	5.9	64
683	On the networking mechanisms of additives-accelerated phenol–formaldehyde polycondensates. *Journal of Applied Polymer Science*, **1997**, 66, 255-266	2.9	64
682	Parameters influencing wood-dowel welding by high-speed rotation. *Journal of Adhesion Science and Technology*, **2005**, 19, 1025-1038	2	64
681	Wood-induced catalytic activation of PF adhesives autopolymerization vs. PF/wood covalent bonding. *Journal of Applied Polymer Science*, **1994**, 52, 1847-1856	2.9	64
680	Increased pine tannins extraction and wood adhesives development by phlobaphenes minimization. *European Journal of Wood and Wood Products*, **1992**, 50, 212-220	2.1	63
679	CP-MAS 13C NMR and FT-IR investigation of the degradation reactions of polymer constituents in wood welding. *Polymer Degradation and Stability*, **2008**, 93, 406-412	4.7	62
678	Synthesis, structure, and characterization of glyoxal-urea-formaldehyde cocondensed resins. *Journal of Applied Polymer Science*, **2014**, 131,	2.9	61
677	Characterization of Acacia mangium polyflavonoid tannins by MALDI-TOF mass spectrometry and CP-MAS 13C NMR. *European Polymer Journal*, **2010**, 46, 1268-1277	5.2	61
676	On the correlation of some theoretical and experimental parameters in polycondensation cross-linked networks. *Journal of Applied Polymer Science*, **1997**, 63, 603-617	2.9	61
675	Parameter interactions in two-block welding and the wood nail concept in wood dowel welding. *Journal of Adhesion Science and Technology*, **2005**, 19, 1157-1174	2	61
674	Improving soy-based adhesives for wood particleboard by tannins addition. *Wood Science and Technology*, **2018**, 52, 261-279	2.5	60
673	Industrial production of pine tannin-bonded particleboard and MDF. *European Journal of Wood and Wood Products*, **2012**, 70, 735-740	2.1	60
672	13C NMR analysis method for urea–formaldehyde resin strength and formaldehyde emission. *Journal of Applied Polymer Science*, **1993**, 50, 907-915	2.9	59
671	Wood joints by through-dowel rotation welding: microstructure, 13C-NMR and water resistance. *Journal of Adhesion Science and Technology*, **2006**, 20, 427-436	2	58

670	Bioresourced pine tannin/furanic foams with glyoxal and glutaraldehyde. *Industrial Crops and Products*, **2013**, 45, 401-405	5.9	57
669	A no-aldehyde emission hardener for tannin-based wood adhesives for exterior panels. *European Journal of Wood and Wood Products*, **2001**, 59, 266-271	2.1	57
668	Modification of condensed tannins: from polyphenol chemistry to materials engineering. *New Journal of Chemistry*, **2016**, 40, 36-49	3.6	56
667	Uron and uron□rea-formaldehyde resins. *Journal of Applied Polymer Science*, **1999**, 72, 277-289	2.9	56
666	Polyurethanes from hydrolysable tannins obtained without using isocyanates. *Industrial Crops and Products*, **2014**, 59, 329-336	5.9	55
665	Polymer structure of commercial hydrolyzable tannins by matrix-assisted laser desorption/ionization-time-of-flight mass spectrometry. *Journal of Applied Polymer Science*, **2009**, 113, 3847-3859	2.9	55
664	Tannins: Major Sources, Properties and Applications **2008**, 179-199		55
663	Colloidal aggregation of aminoplastic polycondensation resins: Urea□formaldehyde versus melamine□formaldehyde and melamine□urea□formaldehyde resins. *Journal of Applied Polymer Science*, **2006**, 100, 1406-1412	2.9	55
662	Heat-treated timber: potentially toxic byproducts presence and extent of wood cell wall degradation. *European Journal of Wood and Wood Products*, **2000**, 58, 253-257	2.1	55
661	Autocondensation-based, zero-emission, tannin adhesives for particleboard. *European Journal of Wood and Wood Products*, **1995**, 53, 201-204	2.1	55
660	Comparison of the impact of different extraction methods on polyphenols yields and tannins extracted from Moroccan Acacia mollissima barks. *Industrial Crops and Products*, **2015**, 70, 245-252	5.9	54
659	Pore structure and electrochemical performances of tannin-based carbon cryogels. *Biomass and Bioenergy*, **2012**, 39, 274-282	5.3	54
658	Mayonnaise, whipped cream and meringue, a new carbon cuisine. *Carbon*, **2013**, 58, 245-248	10.4	54
657	Emulsion-templated porous carbon monoliths derived from tannins. *Carbon*, **2014**, 74, 352-362	10.4	54
656	Electromagnetic shielding efficiency in Ka-band: carbon foam versus epoxy/carbon nanotube composites. *Journal of Nanophotonics*, **2012**, 6, 061715	1.1	53
655	Kinetics of the hydrothermal treatment of tannin for producing carbonaceous microspheres. *Bioresource Technology*, **2014**, 151, 271-7	11	52
654	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	4.7	52
653	Wheat straw particleboard bonding improvements by enzyme pretreatment. *European Journal of Wood and Wood Products*, **2003**, 61, 49-54	2.1	52

652	Pine tannin adhesives for particleboard. *European Journal of Wood and Wood Products*, **1982**, 40, 293-301	2.1	52
651	Thermal conductivity improvement of composite carbon foams based on tannin-based disordered carbon matrix and graphite fillers. *Materials and Design*, **2015**, 83, 635-643	8.1	51
650	Microwave assisted extraction of maritime pine (Pinus pinaster) bark: Impact of particle size and characterization. *Industrial Crops and Products*, **2015**, 65, 142-149	5.9	51
649	Reaction of condensed tannins with ammonia. *Industrial Crops and Products*, **2013**, 44, 330-335	5.9	51
648	Structure and electrochemical capacitance of carbon cryogels derived from phenol–formaldehyde resins. *Carbon*, **2010**, 48, 3874-3883	10.4	51
647	Tannin-furfuryl alcohol wood panel adhesives without formaldehyde. *European Journal of Wood and Wood Products*, **2013**, 71, 131-132	2.1	50
646	Highly mesoporous organic aerogels derived from soy and tannin. *Green Chemistry*, **2012**, 14, 3099	10	50
645	Flexible natural tannin-based and protein-based biosourced foams. *Industrial Crops and Products*, **2012**, 37, 389-393	5.9	49
644	Tannin-based xerogels with distinctive porous structures. *Biomass and Bioenergy*, **2013**, 56, 437-445	5.3	49
643	Condensed tannins extraction from grape pomace: Characterization and utilization as wood adhesives for wood particleboard. *Industrial Crops and Products*, **2011**, 34, 907-914	5.9	49
642	Wood Panel Adhesives from Low Molecular Mass Lignin and Tannin without Synthetic Resins. *Journal of Adhesion Science and Technology*, **2010**, 24, 1597-1610	2	49
641	Crosslinked and entanglement networks in thermomechanical analysis of polycondensation resins. *Journal of Applied Polymer Science*, **1998**, 70, 1111-1119	2.9	49
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639	Condensed tannins for adhesives. *Industrial & Engineering Chemistry Product Research and Development*, **1982**, 21, 359-369		49
638	Chemical Modification of Norway Spruce and Scots Pine. A 13C NMR CP-MAS Study of the Reactivity and Reactions of Polymeric Wood Components with Acetic Anhydride. *Holzforschung*, **1996**, 50, 215-220	2	48
637	Induced accelerated autocondensation of polyflavonoid tannins for phenolic polycondensates. I. 13C-NMR, 29Si-NMR, X-ray, and polarimetry studies and mechanism. *Journal of Applied Polymer Science*, **1994**, 54, 1827-1845	2.9	48
636	Physicochemical characterisation of sugar cane bagasse lignin oxidized by hydrogen peroxide. *Polymer Degradation and Stability*, **2010**, 95, 470-476	4.7	47
635	Green, formaldehyde-free, foams for thermal insulation. *Advanced Materials Letters*, **2011**, 2, 378-382	2.4	47

634	Gluten Protein Adhesives for Wood Panels. *Journal of Adhesion Science and Technology*, **2010**, 24, 1583-1596	2	46
633	Rapid Curing Lignin-Based Exterior Wood Adhesives. Part I. Diisocyanates Reaction Mechanisms and Application to Panel Products. *Holzforschung*, **1993**, 47, 439-445	2	46
632	A New Concept on the Chemical Modification of Wood by Organic Anhydrides. *Holzforschung*, **1994**, 48, 91-94	2	46
631	The Correlation of Strength and Formaldehyde Emission with the Crystalline/Amorphous Structure of UF Resins. *Holzforschung*, **1992**, 46, 263-269	2	46
630	Wood Composites and Their Polymer Binders. *Polymers*, **2020**, 12,	4.5	45
629	A New Boron Fixation Mechanism for Environment Friendly Wood Preservatives. *Holzforschung*, **1996**, 50, 507-510	2	45
628	Mechanism of polyphenolic tannin resin hardening by hexamethylenetetramine: CPMAS 13C-NMR. *Journal of Applied Polymer Science*, **1995**, 56, 1645-1650	2.9	45
627	Phenolic and tannin-based adhesive resins by reactions of coordinated metal ligands. I. Phenolic chelates. *Journal of Applied Polymer Science*, **1979**, 24, 1247-1255	2.9	45
626	Tannin/furanic foams without blowing agents and formaldehyde. *Industrial Crops and Products*, **2013**, 49, 17-22	5.9	44
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622	Characterization of Pinus brutia bark tannin by MALDI-TOF MS and 13C NMR. *Industrial Crops and Products*, **2013**, 49, 697-704	5.9	43
621	X-ray microtomography studies of tannin-derived organic and carbon foams. *Microscopy and Microanalysis*, **2009**, 15, 384-94	0.5	43
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619	The chemistry and development of tannin-based weather- and boil-proof cold-setting and fast-setting adhesives for wood. *Journal of Applied Polymer Science*, **1978**, 22, 1945-1954	2.9	43
618	Bioadhesives for Wood and Fibres. *Reviews of Adhesion and Adhesives*, **2013**, 1, 88-113	2.4	43
617	Low Formaldehyde Emitting Biobased Wood Adhesives Manufactured from Mixtures of Tannin and Glyoxylated Lignin. *Journal of Adhesion Science and Technology*, **2012**, 26, 1667-1684	2	42

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615	Lightweight tannin foam/composites sandwich panels and the coldset tannin adhesive to assemble them. *Industrial Crops and Products*, **2013**, 43, 255-260	5.9	41
614	Mechanical behaviour and 3D stress analysis of multi-layered wooden beams made with welded-through wood dowels. *Composite Structures*, **2012**, 94, 313-321	5.3	41
613	The effects of a two stage heat treatment process on the properties of particleboard. *European Journal of Wood and Wood Products*, **2006**, 64, 157-164	2.1	41
612	Fast advancement and hardening acceleration of low condensation alkaline phenol-formaldehyde resins by esters and copolymerized urea. II. Esters during resin reaction and effect of guanidine salts. *Journal of Applied Polymer Science*, **2000**, 77, 249-259	2.9	41
611	Non-Emulsifiable, Water-Based, Mixed Diisocyanate Adhesive Systems for Exterior Plywood. Part II. Theory Application and Industrial Results. *Holzforschung*, **1993**, 47, 68-71	2	41
610	Performance and reaction mechanism of zero formaldehyde-emission urea-glyoxal (UG) resin. *Journal of the Taiwan Institute of Chemical Engineers*, **2014**, 45, 2029-2038	5.3	40
609	High surface Highly N-doped carbons from hydrothermally treated tannin. *Industrial Crops and Products*, **2015**, 66, 282-290	5.9	40
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607	Tannin-boron preservatives for wood buildings: mechanical and fire properties. *European Journal of Wood and Wood Products*, **2012**, 70, 689-696	2.1	40
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605	High performance tannin resin-boron wood preservatives for outdoor end-uses. *European Journal of Wood and Wood Products*, **2009**, 67, 89-93	2.1	39
604	Non-toxic albumin and soja protein borates as ground-contact wood preservatives. *European Journal of Wood and Wood Products*, **1997**, 55, 293-296	2.1	39
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600	Evaluation of mechanical and physical properties of industrial particleboard bonded with a corn flour rea formaldehyde adhesive. *Composites Part B: Engineering*, **2013**, 44, 48-51	10	38
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583	Systematic studies of tannin-formaldehyde aerogels: preparation and properties. *Science and Technology of Advanced Materials*, **2013**, 14, 015001	7.1	34
582	On the performance of a melamine–urea–formaldehyde resin for decorative paper coatings. *European Journal of Wood and Wood Products*, **2010**, 68, 63-75	2.1	34
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