Philippe GÃ©rardin

List of Publications by Year
in descending order

62 papers	2,456 citations	201674 27 h-index	206112 48 g-index
62 all docs	62 docs citations	62 times ranked	1779 citing authors

#	Article	IF	Citations
1	Furfurylation of wood from fast-growing tropical species to enhance their resistance to subterranean termite. European Journal of Wood and Wood Products, 2021, 79, 1007-1015.	2.9	14
2	Effect of furfurylation treatment on technological properties of short rotation teak wood. Journal of Materials Research and Technology, 2021, 12, 1689-1699.	5.8	22
3	The effect of heat treatment on the characteristics of the short rotation teak. International Wood Products Journal, 2021, 12, 218-227.	1.1	4
4	Intraspecific variability of quantity and chemical composition of ethanolic knotwood extracts along the stems of three industrially important softwood species: Abies alba, Picea abies and Pseudotsuga menziesii. Holzforschung, 2021, 75, 168-179.	1.9	8
5	Effect of glycerol-maleic anhydride treatment on technological properties of short rotation teak wood. Wood Science and Technology, 2021, 55, 1795-1819.	3.2	9
6	A generic information framework for decision-making in a forest-based bio-economy. Annals of Forest Science, 2021, 78, .	2.0	2
7	Natural durability of four Tunisian<i>Eucalyptus</i>spp. and their respective compositions in extractives. Holzforschung, 2020, 74, 260-274.	1.9	8
8	Yield and compositions of bark phenolic extractives from three commercially significant softwoods show intra- and inter-specific variation. Plant Physiology and Biochemistry, 2020, 155, 346-356.	5.8	9
9	Quantitative and qualitative composition of bark polyphenols changes longitudinally with bark maturity in Abies alba Mill.. Annals of Forest Science, 2020, 77, 1.	2.0	27
10	Anti-termite and anti-fungal bio-sourced wood preservation ingredients from <i>Dacryodes edulis</i> (G. Don) H.J. Lam resin. Holzforschung, 2020, 74, 745-753.	1.9	7
11	Resistance against subterranean termite of beech wood impregnated with different derivatives of glycerol or polyglycerol and maleic anhydride followed by thermal modification: a field test study. European Journal of Wood and Wood Products, 2020, 78, 387-392.	2.9	8
12	Relationships between chemical composition and decay durability of Coula edulis Baill as an alternative wood species in Gabon. Wood Science and Technology, 2020, 54, 329-348.	3.2	5
13	Comparison of different treatments based on glycerol or polyglycerol additives to improve properties of thermally modified wood. European Journal of Wood and Wood Products, 2019, 77, 799-810.	2.9	10
14	Non-biocide antifungal and anti-termite wood preservation treatments based on combinations of thermal modification with different chemical additives. European Journal of Wood and Wood Products, 2019, 77, 1125-1136.	2.9	10
15	Characterization of thermally modified short and long rotation teaks and the effects on coatings performance. Maderas: Ciencia Y Tecnologia, 2019, , 0-0.	0.7	11
16	Comparison of teak wood properties according to forest management: short versus long rotation. Annals of Forest Science, 2018, 75, 1.	2.0	39
17	Improvement of beech wood properties by <i>in situ</i> formation of polyesters of citric and tartaric acid in combination with glycerol. Holzforschung, 2018, 72, 291-299.	1.9	26
18	Thermal stability of Abies alba wood according to its radial position and forest management. European Journal of Wood and Wood Products, 2018, 76, 1669-1676.	2.9	4

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19	Molecular recognition of wood polyphenols by phase II detoxification enzymes of the white rot Trametes versicolor. Scientific Reports, 2018, 8, 8472.	3.3	38
20	Inhibition of fungi with wood extractives and natural durability of five Cameroonian wood species. Industrial Crops and Products, 2018, 123, 183-191.	5.2	30
21	Intraspecific variation of European oak wood thermal stability according to radial position. Wood Science and Technology, 2017, 51, 785-794.	3.2	12
22	Derivatives of the Lignan 7â€²-Hydroxymatairesinol with Antioxidant Properties and Enhanced Lipophilicity. Journal of Natural Products, 2017, 80, 1783-1790.	3.0	2
23	Knot extractives: a model for analysing the eco-physiological factors that control the within and between-tree variability. Trees - Structure and Function, 2017, 31, 1619-1633.	1.9	12
24	Characterization of bark extractives of different industrial Indonesian wood species for potential valorization. Industrial Crops and Products, 2017, 108, 121-127.	5.2	24
25	Resistance of thermally modified ash (Fraxinus excelsior L.) wood under steam pressure against rot fungi, soil-inhabiting micro-organisms and termites. European Journal of Wood and Wood Products, 2017, 75, 249-262.	2.9	16
26	Feasibility study of utilization of commercially available polyurethane resins to develop non-biocidal wood preservation treatments. European Journal of Wood and Wood Products, 2017, 75, 877-884.	2.9	4
27	Tartaric acid catalyzed furfurylation of beech wood. Wood Science and Technology, 2017, 51, 379-394.	3.2	41
28	Improvement of the durability of heat-treated wood against termites. Maderas: Ciencia Y Tecnologia, 2017, , 0-0.	0.7	20
29	Control of wood thermal treatment and its effects on decay resistance: a review. Annals of Forest Science, 2016, 73, 571-583.	2.0	145
30	New alternatives for wood preservation based on thermal and chemical modification of woodâ€" a review. Annals of Forest Science, 2016, 73, 559-570.	2.0	148
31	Total phenolic and lignin contents, phytochemical screening, antioxidant and fungal inhibition properties of the heartwood extractives of ten Congo Basin tree species. Annals of Forest Science, 2016, 73, 287-296.	2.0	34
32	Decay and termite resistance of pine blocks impregnated with different additives and subjected to heat treatment. European Journal of Wood and Wood Products, 2016, 74, 37-42.	2.9	19
33	Variations in the natural density of European oak wood affect thermal degradation during thermal modification. Annals of Forest Science, 2016, 73, 277-286.	2.0	18
34	Phenolic and lipophilic extractives in Pinus merkusii Jungh. et de Vries knots and stemwood. Industrial Crops and Products, 2015, 69, 466-471.	5.2	26
35	Quantification and characterization of knotwood extractives of 12 European softwood and hardwood species. Annals of Forest Science, 2015, 72, 277-284.	2.0	45
36	Development of new wood treatments combining boron impregnation and thermo modification: effect of additives on boron leachability. European Journal of Wood and Wood Products, 2014, 72, 355-365.	2.9	29

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37	Antioxidant activities, total phenolic contents and chemical compositions of extracts from four Cameroonian woods: Padouk (Pterocarpus soyauxii Taubb), tali (Erythrophleum suaveolens), moabi (Baillonella toxisperma), and movingui (Distemonanthus benthamianus). Industrial Crops and Products, 2013, 41, 71-77.	5.2	46
38	Effect of heat treatment intensity on some conferred properties of different European softwood and hardwood species. Wood Science and Technology, 2013, 47, 663-673.	3.2	48
39	Comparison of chemical composition and decay durability of heat treated wood cured under different inert atmospheres: Nitrogen or vacuum. Polymer Degradation and Stability, 2013, 98, 677-681.	5.8	56
40	The average carbon oxidation state of thermally modified wood as a marker for its decay resistance against Basidiomycetes. Polymer Degradation and Stability, 2013, 98, 2140-2145.	5.8	14
41	Hydrogels obtained from an original catanionic system for efficient formulation of boron wood-preservatives. International Biodeterioration and Biodegradation, 2013, 77, 123-126.	3.9	7
42	Thermodesorption coupled to GCâ€“MS to characterize volatiles formation kinetic during wood thermodegradation. Journal of Analytical and Applied Pyrolysis, 2013, 101, 96-102.	5.5	20
43	Comparison of mechanical properties of heat treated beech wood cured under nitrogen or vacuum. Polymer Degradation and Stability, 2013, 98, 1762-1765.	5.8	36
44	Effect of heat treatment intensity on wood chemical composition and decay durability of Pinus patula. European Journal of Wood and Wood Products, 2012, 70, 519-524.	2.9	32
45	Utilization of thermodesorption coupled to GCâ€“MS to study stability of different wood species to thermodegradation. Journal of Analytical and Applied Pyrolysis, 2011, 92, 376-383.	5.5	54
46	Effect of extractives on conferred and natural durability of Cupressus lusitanica heartwood. Annals of Forest Science, 2010, 67, 504-504.	2.0	23
47	Prediction of the decay resistance of heat treated wood on the basis of its elemental composition. Polymer Degradation and Stability, 2010, 95, 94-97.	5.8	37
48	Modification of grape seed and wood tannins to lipophilic antioxidant derivatives. Industrial Crops and Products, 2010, 31, 509-515.	5.2	24
49	Investigation of the chemical modifications of beech wood lignin during heat treatment. Polymer Degradation and Stability, 2010, 95, 1721-1726.	5.8	131
50	Use of wood elemental composition to predict heat treatment intensity and decay resistance of different softwood and hardwood species. Polymer Degradation and Stability, 2010, 95, 2255-2259.	5.8	90
51	Effects of monoglycerides on leachability and efficacy of boron wood preservatives against decay and termites. International Biodeterioration and Biodegradation, 2010, 64, 135-138.	3.9	12
52	Elemental composition of wood as a potential marker to evaluate heat treatment intensity. Polymer Degradation and Stability, 2009, 94, 365-368.	5.8	42
53	Effect of chemical modifications caused by heat treatment on mechanical properties of Grevillea robusta wood. Polymer Degradation and Stability, 2008, 93, 401-405.	5.8	67
54	Evidence of fungicidal and termicidal properties of Prunus africana heartwood extractives. Holzforschung, 2007, 61, 323-325.	1.9	29

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55	Evaluation of thermally modified Grevillea robusta heartwood as an alternative to shortage of wood resource in Kenya: Characterisation of physicochemical properties and improvement of bio-resistance. Bioresource Technology, 2007, 98, 3478-3486.	9.6	59
56	Evidence of char formation during wood heat treatment by mild pyrolysis. Polymer Degradation and Stability, 2007, 92, 997-1002.	5.8	61
57	Wettability of waterborne coatings on chemically and thermally modified pine wood. Journal of Coatings Technology Research, 2007, 4, 203-206.	2.5	55
58	Investigations of the reasons for fungal durability of heat-treated beech wood. Polymer Degradation and Stability, 2006, 91, 393-397.	5.8	252
59	Investigation of wood wettability changes during heat treatment on the basis of chemical analysis. Polymer Degradation and Stability, 2005, 89, 1-5.	5.8	285
60	Wettability changes and mass loss during heat treatment of wood. Holzforschung, 2005, 59, 35-37.	1.9	77
61	Synthesis of poly(glycerol methacrylate) and its application to dimensional stabilization of wood. Journal of Applied Polymer Science, 2003, 88, 743-749.	2.6	9
62	Mechanical properties and biological durability in soil contact of chemically modified wood treated in an open or in a closed system using glycerol/maleic anhydride systems. Wood Material Science and Engineering, 0, , 1-10.	2.3	4