Klaus Richter

List of Publications by Year
in descending order

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72	2,109	186265	254184
papers	citations	28 h-index	43 g-index

76	76	76	1876
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mode of action of brown rot decay resistance in modified wood: a review. Holzforschung, 2014, 68, 239-246.	1.9	95
2	Weathering of wood modified with the N-methylol compound 1,3-dimethylol-4,5-dihydroxyethyleneurea. Polymer Degradation and Stability, 2005, 89, 189-199.	5.8	86
3	Allocation in lca of wood-based products experiences of cost action E9 part i. methodology. International Journal of Life Cycle Assessment, 2002, 7, 290-294.	4.7	81
4	Wooden building products in comparative LCA. International Journal of Life Cycle Assessment, 2007, 12, 470-479.	4.7	81
5	LCA-based optimization of wood utilization under special consideration of a cascading use of wood. Journal of Environmental Management, 2015, 152, 158-170.	7.8	81
6	Potentials for cascading of recovered wood from building deconstructionâ€"A case study for south-east Germany. Resources, Conservation and Recycling, 2013, 78, 81-91.	10.8	80
7	Wooden building products in comparative LCA. International Journal of Life Cycle Assessment, 2007, 12, 470-479.	4.7	71
8	Economic Allocation in LCA: A Case Study About Aluminium Window Frames. International Journal of Life Cycle Assessment, 2000, 5, 79-83.	4.7	70
9	Utilization of recovered wood in cascades versus utilization of primary woodâ€"a comparison with life cycle assessment using system expansion. International Journal of Life Cycle Assessment, 2014, 19, 1755-1766.	4.7	69
10	Effect of treatments with 1,3-dimethylol-4,5-dihydroxy-ethyleneurea (DMDHEU) on the tensile properties of wood. Holzforschung, 2007, 61, 43-50.	1.9	64
11	DMA analysis and wood bonding of PVAc latex reinforced with cellulose nanofibrils. Cellulose, 2010, 17, 387-398.	4.9	63
12	Allocation in LCA of wood-based products experiences of cost action E9. International Journal of Life Cycle Assessment, 2002, 7, 369-375.	4.7	54
13	Thermal Stability of Wood-Wood and Wood-FRP Bonding with Polyurethane and Epoxy Adhesives. Advanced Engineering Materials, 2005, 7, 419-426.	3.5	49
14	Greenhouse Gas Dynamics of an Increased Use of Wood in Buildings in Switzerland. Climatic Change, 2006, 74, 319-347.	3.6	46
15	Carbon footprints of the horticultural products strawberries, asparagus, roses and orchids in Germany. Journal of Cleaner Production, 2015, 87, 168-179.	9.3	45
16	Carbon pool and substitution effects of an increased use of wood in buildings in Switzerland: first estimates. Annals of Forest Science, 2005, 62, 889-902.	2.0	44
17	Influence of wood properties and bonding parameters on bond durability of European Beech (Fagus) Tj ETQq1 1 0.784314 rgBT /Over	2.0	43
18	Spectral sensitivity in the photodegradation of fir wood (Abies alba Mill.) surfaces: colour changes in natural weathering. Wood Science and Technology, 2014, 48, 239-252.	3.2	43

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19	Resource efficiency of multifunctional wood cascade chains using LCA and exergy analysis, exemplified by a case study for Germany. Resources, Conservation and Recycling, 2017, 126, 141-152.	10.8	43
20	Density related properties of bark insulation boards bonded with tannin hexamine resin. European Journal of Wood and Wood Products, 2014, 72, 417-424.	2.9	42
21	Thermal stability of structural one-component polyurethane adhesives for woodâ€"structure-property relationship. Journal of Applied Polymer Science, 2006, 102, 5698-5707.	2.6	36
22	Influence of wood moisture content on bending and shear stiffness of cross laminated timber panels. European Journal of Wood and Wood Products, 2011, 69, 193-197.	2.9	35
23	The role of chemical transport in the brown-rot decay resistance of modified wood. International Wood Products Journal, 2016, 7, 66-70.	1.1	35
24	Anatomy of bioincised Norway spruce wood. International Biodeterioration and Biodegradation, 2010, 64, 346-355.	3.9	34
25	Product environmental footprint of strawberries: Case studies in Estonia and Germany. Journal of Environmental Management, 2017, 203, 564-577.	7.8	34
26	Eco-efficiency analysis of recycling recovered solid wood from construction into laminated timber products. Science of the Total Environment, 2019, 661, 107-119.	8.0	34
27	Porous SiC Ceramics Derived from Tailored Wood-Based Fiberboards. Journal of the American Ceramic Society, 2006, 89, 1499-1503.	3.8	32
28	Using Bark as a Heat Insulation Material. BioResources, 2013, 8, .	1.0	31
29	Effect of wood modification on gene expression during incipient Postia placenta decay. International Biodeterioration and Biodegradation, 2014, 86, 86-91.	3.9	30
30	The role of moisture in the nest thermoregulation of social wasps. Die Naturwissenschaften, 2005, 92, 427-430.	1.6	28
31	Investigation of thermally treated beech (Fagus sylvatica) and spruce (Picea abies) by means of multifunctional analytical pyrolysis-GC/MS. Journal of Analytical and Applied Pyrolysis, 2013, 100, 117-126.	5.5	28
32	Multifunctionality of Forests: A White Paper on Challenges and Opportunities in China and Germany. Forests, 2020, 11, 266.	2.1	28
33	Hydroxymethylated Resorcinol (HMR) and Novolak-Based HMR (n-HMR) Primers to Enhance Bond Durability of Eucalyptus globulus Glulams. Journal of Adhesion Science and Technology, 2009, 23, 1925-1937.	2.6	26
34	Post-consumer waste wood in attributive product LCA. International Journal of Life Cycle Assessment, 2007, 12, 160-172.	4.7	25
35	Systematic Review and Metaâ€Analysis of Life Cycle Assessments for Wood Energy Services. Journal of Industrial Ecology, 2016, 20, 743-763.	5.5	24
36	Post-consumer waste wood in attributive product LCA. International Journal of Life Cycle Assessment, 2007, 12, 160-172.	4.7	24

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37	Effects of thermal modification on Postia placenta wood degradation dynamics: measurements of mass loss, structural integrity and gene expression. Wood Science and Technology, 2016, 50, 385-397.	3.2	21
38	Topochemical analyses of furfuryl alcohol-modified radiata pine (Pinus radiata) by UMSP, light microscopy and SEM. Holzforschung, 2017, 71, 821-831.	1.9	21
39	Spectral sensitivity in the photodegradation of fir wood (Abies alba Mill.) surfaces: correspondence of physical and chemical changes in natural weathering. Wood Science and Technology, 2016, 50, 989-1002.	3.2	18
40	Mitigating environmental impacts through the energetic use of wood: Regional displacement factors generated by means of substituting non-wood heating systems. Science of the Total Environment, 2016, 569-570, 395-403.	8.0	17
41	Evaluation of relationships between particle orientation and thermal conductivity in bark insulation board by means of CT and discrete modeling. Case Studies in Nondestructive Testing and Evaluation, 2016, 6, 21-29.	1.7	16
42	Polyurea Networks from Moisture-Cure, Reaction-Setting, Aliphatic Polyisocyanates with Tunable Mechanical and Thermal Properties. ACS Applied Polymer Materials, 2021, 3, 4070-4078.	4.4	15
43	Quality control of glulam: shear testing of bondlines. European Journal of Wood and Wood Products, 2010, 68, 243-256.	2.9	14
44	Comparison of product carbon footprint standards with a case study on poinsettia (Euphorbia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	4.7	14
45	A Methodical Approach for Systematic Life Cycle Assessment of Wood-Based Furniture. Journal of Industrial Ecology, 2018, 22, 671-685.	5.5	12
46	Post-consumer wood in environmental decision-support tools. Schweizerische Zeitschrift Fur Forstwesen, 2002, 153, 97-106.	0.1	12
47	Potentials for wood cascading: A model for the prediction of the recovery of timber in Germany. Resources, Conservation and Recycling, 2022, 178, 106101.	10.8	12
48	Effects of increased wood energy consumption on global warming potential, primary energy demand and particulate matter emissions on regional level based on the case study area Bavaria (Southeast) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	6.7	11
49	Environmental effects of shifts in a regional heating mix through variations in the utilization of solid biofuels. Journal of Environmental Management, 2016, 177, 177-191.	7.8	11
50	Analyzing wood bark insulation board structure using X-ray computed tomography and modeling its thermal conductivity by means of finite difference method. Journal of Composite Materials, 2016, 50, 795-806.	2.4	11
51	Incipient brown rot decay in modified wood: patterns of mass loss, structural integrity, moisture and acetyl content in high resolution. International Wood Products Journal, 2017, 8, 172-182.	1.1	11
52	Larch (Larix decidua) bark insulation board: interactions of particle orientation, physicalâ€“mechanical and thermal properties. European Journal of Wood and Wood Products, 2018, 76, 489-498.	2.9	10
53	Effect of Physisporinus vitreus on wood properties of Norway spruce. Part 1: Aspects of delignification and surface hardness. Holzforschung, 2011, 65, .	1.9	9
54	The impact of a new emission control act on particulate matter emissions from residential wood energy use in Bavaria, Germany. Journal of Cleaner Production, 2017, 145, 134-141.	9.3	9

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55	Brown rot gene expression and regulation in acetylated and furfurylated wood: a complex picture. Holzforschung, 2020, 74, 391-399.	1.9	9
56	Untersuchung der kapillaren Transportwege im WeiÃŸtannenholz. European Journal of Wood and Wood Products, 1992, 50, 329.	2.9	8
57	Strategies of social wasps for thermal homeostasis in light paper nests. Journal of Thermal Biology, 2006, 31, 599-604.	2.5	8
58	In vitrooxidative and enzymatic degradation of modified wood. International Wood Products Journal, 2015, 6, 36-39.	1.1	7
59	Combined FTIR spectroscopy and rheology for measuring melamine urea formaldehyde (MUF) adhesive curing as influenced by different wood extracts. European Journal of Wood and Wood Products, 2020, 78, 85-91.	2.9	7
60	Hydroxymethylated resorcinol (HMR) primer to improve the performance of wood-adhesive bonds â€“ A review. International Journal of Adhesion and Adhesives, 2022, 113, 103070.	2.9	7
61	Reply to the â€˜letter to the editorâ€™ by Gjalt Huppes. International Journal of Life Cycle Assessment, 2000, 5, 189.	4.7	5
62	A Flexible Adhesive Layer to Strengthen Glulam Beams. Journal of Adhesion Science and Technology, 2010, 24, 1665-1701.	2.6	5
63	Acidic wood extractives accelerate the curing process of emulsion polymer isocyanate adhesives. Journal of Applied Polymer Science, 2022, 139, .	2.6	5
64	A new analytical approach to investigate the influence of wood extracts on the curing properties of phenol-resorcinolâ€“formaldehyde (PRF) adhesives. Wood Science and Technology, 2022, 56, 349-365.	3.2	5
65	Effect of Physisporinus vitreus on wood properties of Norway spruce. Part 2: Aspects of microtensile strength and chemical changes. Holzforschung, 2011, 65, .	1.9	4
66	Adhesion of water-borne acrylic and hybrid paint on wood treated with primers. Surface Coatings International Part B: Coatings Transactions, 2002, 85, 273-280.	0.3	3
67	PM10 emissions caused by the woodworking industry in Switzerland. European Journal of Wood and Wood Products, 2005, 63, 245-250.	2.9	2
68	Improvement of a method for topochemical investigations of degraded furfurylated wood. International Wood Products Journal, 2016, 7, 96-101.	1.1	2
69	Holzprodukte in vergleichenden Ã–kobilanzen | Wood Products in Comparative Life Cycle Assessment Studies. Schweizerische Zeitschrift Fur Forstwesen, 1999, 150, 96-104.	0.1	1
70	Assessment of the Forest Products Industries. , 2006, , 193-208.		0
71	Direct bioautography for the screening of selected tropical wood extracts against basidiomycetes. Holzforschung, 2020, 74, 733-743.	1.9	0
72	Press water from the mechanical drying of Douglas-fir wood chips has multiple beneficial effects on lignocellulolytic fungi. Fungal Biology and Biotechnology, 2022, 9, .	5.1	0