

Timo Kärki

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1339201/publications.pdf>

Version: 2024-02-01

97
papers

2,152
citations

257429

24
h-index

265191

42
g-index

97
all docs

97
docs citations

97
times ranked

2015
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of natural fiber-reinforced engineering plastic composites, their applications in the transportation sector and processing techniques. <i>Journal of Thermoplastic Composite Materials</i> , 2022, 35, 1169-1209.	4.2	130
2	Three-dimensional forming of plastic-coated fibre-based materials using a thermoforming process. <i>Packaging Technology and Science</i> , 2022, 35, 543-555.	2.8	6
3	Esterified Lignin from Construction and Demolition Waste (CDW) as a Versatile Additive for Poly(lactic acid) (PLA) Composites – The Effect of Artificial Weathering on its Performance. <i>Global Challenges</i> , 2022, 6, .	3.6	3
4	An evaluation of thermoplastic composite fillers derived from construction and demolition waste based on their economic and environmental characteristics. <i>Journal of Cleaner Production</i> , 2021, 280, 125198.	9.3	14
5	Design of Tooling System and Identifying Crucial Processing Parameters for NFPC Manufacturing in Automotive Applications. <i>Journal of Composites Science</i> , 2021, 5, 169.	3.0	3
6	A Study on the Effect of Construction and Demolition Waste (CDW) Plastic Fractions on the Moisture and Resistance to Indentation of Wood-Polymer Composites (WPC). <i>Journal of Composites Science</i> , 2021, 5, 205.	3.0	1
7	The Impact of Textile Waste on the Features of High-Density Polyethylene (HDPE) Composites. <i>Urban Science</i> , 2021, 5, 59.	2.3	2
8	Printing Parameter Requirements for 3D Printable Geopolymer Materials Prepared from Industrial Side Streams. <i>Materials</i> , 2021, 14, 4758.	2.9	12
9	A Finite Element Study to Investigate the Mechanical Behaviour of Unidirectional Recycled Carbon Fibre/Glass Fibre-Reinforced Epoxy Composites. <i>Polymers</i> , 2021, 13, 3192.	4.5	2
10	Optimization of Compression Molding Process Parameters for NFPC Manufacturing Using Taguchi Design of Experiment and Moldflow Analysis. <i>Processes</i> , 2021, 9, 1853.	2.8	7
11	Effect of Fiber Content and Silane Treatment on the Mechanical Properties of Recycled Acrylonitrile-Butadiene-Styrene Fiber Composites. <i>Chemistry</i> , 2021, 3, 1258-1270.	2.2	8
12	Life Cycle Assessment of a Thermal Recycling Process as an Alternative to Existing CFRP and GFRP Composite Wastes Management Options. <i>Polymers</i> , 2021, 13, 4430.	4.5	12
13	A Study to Investigate the Mechanical Properties of Recycled Carbon Fibre/Glass Fibre-Reinforced Epoxy Composites Using a Novel Thermal Recycling Process. <i>Processes</i> , 2020, 8, 954.	2.8	26
14	The Modelling of Extrusion Processes for Polymers – A Review. <i>Polymers</i> , 2020, 12, 1306.	4.5	59
15	A review on the recycling of waste carbon fibre/glass fibre-reinforced composites: fibre recovery, properties and life-cycle analysis. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	196
16	Sorting efficiency in mechanical sorting of construction and demolition waste. <i>Waste Management and Research</i> , 2020, 38, 812-816.	3.9	12
17	The Effect of Construction and Demolition Waste Plastic Fractions on Wood-Polymer Composite Properties. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	0
18	Effect of press force in tensile strength and surface quality of press formed wood plastic composite products. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	1

#	ARTICLE	IF	CITATIONS
19	Lignin as a functional additive in a biocomposite: Influence on mechanical properties of polylactic acid composites. <i>Industrial Crops and Products</i> , 2019, 140, 111704.	5.2	30
20	Promoting Recycling of Mixed Waste Polymers in Wood-Polymer Composites Using Compatibilizers. <i>Recycling</i> , 2019, 4, 6.	5.0	15
21	Composition of Plastic Fractions in Waste Streams: Toward More Efficient Recycling and Utilization. <i>Polymers</i> , 2019, 11, 69.	4.5	42
22	Novel mechanical pre-treatment methods for effective indium recovery from end-of-life liquid-crystal display panels. <i>Journal of Cleaner Production</i> , 2019, 230, 580-591.	9.3	19
23	Compression Molded Thermoplastic Composites Entirely Made of Recycled Materials. <i>Sustainability</i> , 2019, 11, 631.	3.2	16
24	Recycled construction and demolition waste as a possible source of materials for composite manufacturing. <i>Journal of Building Engineering</i> , 2019, 24, 100742.	3.4	79
25	Construction and demolition waste as a raw material for wood polymer composites – Assessment of environmental impacts. <i>Journal of Cleaner Production</i> , 2019, 225, 716-727.	9.3	45
26	Promoting and Demoting Factors of Ecodesign Methodologies for The Application of Recycled Construction Waste: A Case Study of a Composite Product. <i>Urban Science</i> , 2019, 3, 114.	2.3	2
27	The Impact of Primary Sludge on the Physical Features of High-Density Polyethylene (HDPE) Composites. <i>Resources</i> , 2019, 8, 184.	3.5	0
28	Mechanical Properties of Recycled Polymer Composites Made from Side-Stream Materials from Different Industries. <i>Sustainability</i> , 2019, 11, 6054.	3.2	8
29	The Potential of Reusing Technical Plastics. <i>Procedia Manufacturing</i> , 2019, 39, 502-508.	1.9	7
30	The effect of the use of construction and demolition waste on the mechanical and moisture properties of a wood-plastic composite. <i>Composite Structures</i> , 2019, 210, 321-326.	5.8	37
31	Technological Landscape and Ideation in the Field of Waste Separation with Help of TRIZ. <i>IFIP Advances in Information and Communication Technology</i> , 2019, , 328-339.	0.7	0
32	Durability of wood plastic composites manufactured from recycled plastic. <i>Heliyon</i> , 2018, 4, e00559.	3.2	50
33	The use of waste materials in wood-plastic composites and their impact on the profitability of the product. <i>Resources, Conservation and Recycling</i> , 2018, 134, 257-261.	10.8	71
34	Effect of inorganic pigments on the properties of coextruded polypropylene-based composites. <i>Journal of Thermoplastic Composite Materials</i> , 2018, 31, 23-33.	4.2	9
35	Utilization of Industrial Wastes from Mining and Packaging Industries in Wood-Plastic Composites. <i>Journal of Polymers and the Environment</i> , 2018, 26, 1504-1510.	5.0	10
36	Flammability of wood plastic composites prepared from plastic waste. <i>Fire and Materials</i> , 2018, 42, 198-201.	2.0	8

#	ARTICLE	IF	CITATIONS
37	Characterization of Polystyrene Wastes as Potential Extruded Feedstock Filament for 3D Printing. Recycling, 2018, 3, 57.	5.0	35
38	Role of moisture on press formed products made of Wood Plastic Composites. Procedia Manufacturing, 2018, 17, 1090-1096.	1.9	7
39	Mechanical Sorting Processing of Waste Material Before Composite Manufacturing – A Review. Journal of Engineering Science and Technology Review, 2018, 11, 35-46.	0.4	8
40	The effect of primary sludge on the mechanical performance of high-density polyethylene composites. Industrial Crops and Products, 2017, 104, 129-132.	5.2	10
41	Characterization of plastic blends made from mixed plastics waste of different sources. Waste Management and Research, 2017, 35, 200-206.	3.9	36
42	Effect of strain rate and temperature on press forming of extruded WPC profiles. Composite Structures, 2017, 180, 845-852.	5.8	14
43	Raw material potential of recyclable materials for fiber composites: a review study. Journal of Material Cycles and Waste Management, 2017, 19, 1136-1143.	3.0	19
44	Characterization of wood plastic composites manufactured from recycled plastic blends. Composite Structures, 2017, 161, 469-476.	5.8	115
45	Method for Limiting Waste in Wood Plastic Composite Post-Production by Means of Press Unit Control Parameters Utilizing Temperature-Related Dimensional Changes. BioResources, 2017, 12, .	1.0	0
46	Feasibility Assessment of a Wood-Plastic Composite Post-Production Process: Formability. BioResources, 2016, 11, .	1.0	7
47	Post-Extrusion Processing of Extruded Wood Plastic Composites and Selection of Belt Conveyor Cover Material. BioResources, 2016, 11, .	1.0	2
48	Use of construction and demolition wastes as mineral fillers in hybrid wood–polymer composites. Journal of Applied Polymer Science, 2016, 133, .	2.6	14
49	Influence of fire retardants on the reaction-to-fire properties of coextruded wood–polypropylene composites. Fire and Materials, 2016, 40, 535-543.	2.0	19
50	Accelerated weathering of wood–polypropylene composite containing carbon fillers. Journal of Composite Materials, 2016, 50, 1387-1393.	2.4	5
51	The influence of carbon-based fillers on the flammability of polypropylene-based co-extruded wood–plastic composite. Fire and Materials, 2016, 40, 498-506.	2.0	7
52	Effects of impregnation and heat treatment on the physical and mechanical properties of Scots pine (<i>Pinus sylvestris</i>) wood. Wood Material Science and Engineering, 2016, 11, 217-227.	2.3	32
53	Accelerated weathering of fire-retarded wood–polypropylene composites. Composites Part A: Applied Science and Manufacturing, 2016, 81, 305-312.	7.6	55
54	The influence of melamine impregnation and heat treatment on the fire performance of Scots pine (<i>Pinus sylvestris</i>) wood. Fire and Materials, 2016, 40, 731-737.	2.0	3

#	ARTICLE	IF	CITATIONS
55	Weathering of wood-polypropylene and wood-wollastonite-polypropylene composites containing pigments in Finnish climatic conditions. <i>Pigment and Resin Technology</i> , 2015, 44, 313-321.	0.9	3
56	The Effects of the Substitution of Wood Fiber with Agro-based Fiber (Barley Straw) on the Properties of Natural Fiber/Polypropylene Composites. <i>MATEC Web of Conferences</i> , 2015, 30, 01014.	0.2	6
57	Manufacturability of Wood Plastic Composite Sheets on the Basis of the Post-Processing Cooling Curve. <i>BioResources</i> , 2015, 10, .	1.0	4
58	Effect of Hybrid Talc-Basalt Fillers in the Shell Layer on Thermal and Mechanical Performance of Co-Extruded Wood Plastic Composites. <i>Materials</i> , 2015, 8, 8510-8523.	2.9	24
59	Weathering properties of coextruded polypropylene-based composites containing inorganic pigments. <i>Polymer Degradation and Stability</i> , 2015, 120, 10-16.	5.8	35
60	Different coupling agents in wood-polypropylene composites containing recycled mineral wool: A comparison of the effects. <i>Journal of Reinforced Plastics and Composites</i> , 2015, 34, 879-895.	3.1	21
61	Environmental assessment of recycled mineral wool and polypropylene utilized in wood polymer composites. <i>Resources, Conservation and Recycling</i> , 2015, 104, 38-48.	10.8	31
62	Reaction-to-Fire Properties of Wood-Polypropylene Composites Containing Different Fire Retardants. <i>Fire Technology</i> , 2015, 51, 53-65.	3.0	9
63	Effect of Weathering on the Properties of Wood-Polypropylene Composites Containing Minerals. <i>Polymers and Polymer Composites</i> , 2014, 22, 763-770.	1.9	2
64	Resistance to weathering of wood-polypropylene and wood-wollastonite-polypropylene composites made with and without carbon black. <i>Pigment and Resin Technology</i> , 2014, 43, 185-193.	0.9	8
65	Utilization of recycled mineral wool as filler in wood-polypropylene composites. <i>Construction and Building Materials</i> , 2014, 55, 220-226.	7.2	53
66	The effect of carbon fibers, glass fibers and nanoclay on wood flour-polypropylene composite properties. <i>European Journal of Wood and Wood Products</i> , 2014, 72, 73-79.	2.9	38
67	Mineral wool waste in Europe: a review of mineral wool waste quantity, quality, and current recycling methods. <i>Journal of Material Cycles and Waste Management</i> , 2014, 16, 62-72.	3.0	85
68	Effects of wood flour modification on the fire retardancy of wood-plastic composites. <i>European Journal of Wood and Wood Products</i> , 2014, 72, 703-711.	2.9	12
69	Research progress in wood-plastic nanocomposites. <i>Journal of Thermoplastic Composite Materials</i> , 2014, 27, 180-204.	4.2	36
70	Improving the UV and water-resistance properties of Scots pine (<i>Pinus sylvestris</i>) with impregnation modifiers. <i>European Journal of Wood and Wood Products</i> , 2014, 72, 445-452.	2.9	10
71	Reinforcing wood-plastic composites with macro- and micro-sized cellulosic fillers: Comparative analysis. <i>Journal of Reinforced Plastics and Composites</i> , 2013, 32, 1746-1756.	3.1	10
72	Influence of mineral fillers on the fire retardant properties of wood-polypropylene composites. <i>Fire and Materials</i> , 2013, 37, 612-620.	2.0	21

#	ARTICLE	IF	CITATIONS
73	Comparison of Hot Gas and Hot Plate Welding of Wood-Plastic Composites. <i>Advanced Materials Research</i> , 2013, 664, 525-532.	0.3	0
74	Heat Build-Up and Fire Performance of Wood-Polypropylene Composites Containing Recycled Mineral Wool. <i>Advanced Materials Research</i> , 2013, 849, 269-276.	0.3	0
75	Thermal performance and optical properties of wood-polymer composites. <i>Journal of Thermoplastic Composite Materials</i> , 2013, 26, 60-73.	4.2	6
76	The Effect of Fire Retardants on the Flammability, Mechanical Properties, and Wettability of Co-Extruded PP-Based Wood-Plastic Composites. <i>BioResources</i> , 2013, 9, .	1.0	12
77	Ultraviolet Light Protection of Wood-Plastic Composites. A Review of the Current Situation. <i>Advanced Science Letters</i> , 2013, 19, 320-324.	0.2	3
78	Weathering of wood-polypropylene composites containing pigments. <i>European Journal of Wood and Wood Products</i> , 2012, 70, 719-726.	2.9	18
79	The effect of mineral fillers on the thermal properties of wood-plastic composites. <i>Wood Material Science and Engineering</i> , 2012, 7, 107-114.	2.3	11
80	Accelerated weathering of wood-polypropylene composites containing minerals. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 2087-2094.	7.6	32
81	A study of surface changes of wood-polypropylene composites as the result of exterior weathering. <i>Polymer Degradation and Stability</i> , 2012, 97, 337-345.	5.8	110
82	Properties of Wood Fibre-Polypropylene Composites: Effect of Wood Fibre Source. <i>Applied Composite Materials</i> , 2011, 18, 101-111.	2.5	67
83	Eine Methode zur Bestimmung des Fließverhaltens von flüssigem Wasser im Holz während des Trocknens unter Anwendung eines fluoreszierenden Farbstofftracers. <i>European Journal of Wood and Wood Products</i> , 2011, 69, 287-293.	2.9	5
84	Effects of water immersion-freeze-thaw cycling on the properties of wood-polypropylene composites containing pigments. <i>Pigment and Resin Technology</i> , 2011, 40, 386-392.	0.9	4
85	Physical and Mechanical Properties of Wood-Polypropylene Composites Made with Virgin and/or Recycled Polypropylene. <i>Polymer-Plastics Technology and Engineering</i> , 2011, 50, 1040-1046.	1.9	25
86	Tracing the migration of liquid water and wood extractives in silver birch and Scots pine sawn timber during drying using a dye solution. <i>Wood Material Science and Engineering</i> , 2010, 5, 116-122.	2.3	1
87	Mineral fillers for wood-plastic composites. <i>Wood Material Science and Engineering</i> , 2010, 5, 34-40.	2.3	24
88	Comparison of water absorption and mechanical properties of wood-plastic composites made from polypropylene and polylactic acid. <i>Wood Material Science and Engineering</i> , 2010, 5, 220-228.	2.3	28
89	Color Changes of Birch Wood During High-Temperature Drying. <i>Drying Technology</i> , 2008, 26, 1125-1128.	3.1	15
90	Title is missing!. <i>New Forests</i> , 2000, 20, 65-86.	1.7	16

#	ARTICLE	IF	CITATIONS
91	Co-Extrusion of Wood Flour/PP Composites with PP-Based Cap Layer Reinforced with Macro-and Micro-Sized Cellulosic Fibres. <i>Advanced Materials Research</i> , 0, 834-836, 203-210.	0.3	2
92	Effects of Atmospheric Plasma Treatment on the Surface Properties of Wood-Plastic Composites. <i>Advanced Materials Research</i> , 0, 718-720, 176-185.	0.3	8
93	The Influence of Different Carbon Type Fillers on the Mechanical and Physical Properties of Co-Extruded PP-Based WPC. <i>Advanced Materials Research</i> , 0, 1025-1026, 200-207.	0.3	3
94	Determination and Comparison of Material Properties of Commercial Wood-Plastic Composite Products. <i>Advanced Materials Research</i> , 0, 1051, 242-249.	0.3	1
95	The Mechanical and Physical Properties of Construction and Demolition Waste - Epoxy Composites. <i>Key Engineering Materials</i> , 0, 759, 9-14.	0.4	0
96	Mechanical Properties of 3D-Printed Wood-Plastic Composites. <i>Key Engineering Materials</i> , 0, 777, 499-507.	0.4	22
97	Improving durability of wood-mixed waste plastic composites with compatibilizers. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 490, 022001.	0.6	1