Mark Kortschot

List of Publications by Year
in descending order

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55 papers	2,698 citations	236925 25 h-index	182427 51 g-index
57 all docs	57 docs citations	57 times ranked	2532 citing authors

#	Article	IF	Citations
1	Cellulose microfibrils: A novel method of preparation using high shear refining and cryocrushing. Holzforschung, 2005, 59, 102-107.	1.9	353
2	Effect of the crystallinity and morphology on the microcellular foam structure of semicrystalline polymers. Polymer Engineering and Science, 1996, 36, 2645-2662.	3.1	263
3	Processing and characterization of microcellular foamed high-density polythylene/isotactic polypropylene blends. Polymer Engineering and Science, 1998, 38, 1205-1215.	3.1	237
4	Predicting the elastic modulus of natural fibre reinforced thermoplastics. Composites Part A: Applied Science and Manufacturing, 2006, 37, 1660-1671.	7.6	228
5	Fabrication and characterization of fully biodegradable natural fiber-reinforced poly(lactic acid) composites. Composites Part B: Engineering, 2014, 56, 717-723.	12.0	148
6	Damage mechanics of composite materials: Iâ€" Measurements of damage and strength. Composites Science and Technology, 1990, 39, 289-301.	7.8	139
7	Predicting the tensile strength of natural fibre reinforced thermoplastics. Composites Science and Technology, 2007, 67, 2454-2466.	7.8	132
8	Reinforcing potential of wood pulp-derived microfibres in a PVA matrix. Holzforschung, 2006, 60, 53-58.	1.9	110
9	Damage mechanics of composite materials: IIâ€" a damaged-based notched strength model. Composites Science and Technology, 1990, 39, 303-326.	7.8	65
10	An experimental study of creep behavior of lightweight natural fiber-reinforced polymer composite/honeycomb core sandwich panels. Composite Structures, 2013, 106, 160-166.	5.8	64
11	The role of the resin fillet in the delamination of honeycomb sandwich structures. Composites Science and Technology, 2002, 62, 1811-1819.	7.8	58
12	Understanding the Stress Relaxation Behavior of Polymers Reinforced with Short Elastic Fibers. Materials, 2017, 10, 472.	2.9	57
13	Computer simulation of the electrical conductivity of polymer composites containing metallic fillers. Polymer Composites, 1988, 9, 60-71.	4.6	55
14	Polystyrene foams. III. Structure-tensile properties relationships. Journal of Applied Polymer Science, 2003, 90, 1427-1434.	2.6	54
15	Light-weight honeycomb core sandwich panels containing biofiber-reinforced thermoset polymer composite skins: Fabrication and evaluation. Composites Part B: Engineering, 2012, 43, 2875-2882.	12.0	49
16	Polystyrene foams. II. Structure-impact properties relationships. Journal of Applied Polymer Science, 2003, 90, 1421-1426.	2.6	45
17	The fatigue damage mechanics of notched carbon fibre/PEEK laminates. Composites, 1992, 23, 305-311.	0.7	42
18	Damage mechanics of composite materials. III: Prediction of damage growth and notched strength. Composites Science and Technology, 1991, 40, 147-165.	7.8	41

#	Article	IF	Citations
19	Polystyrene foams. I. Processing-structure relationships. Journal of Applied Polymer Science, 2003, 90, 1412-1420.	2.6	39
20	Predicting the stress relaxation behavior of glass-fiber reinforced polypropylene composites. Composites Science and Technology, 2018, 161, 85-91.	7.8	33
21	Electromagnetic interference shielding with nickel-coated mica composites. Polymer Composites, 1985, 6, 296-303.	4.6	32
22	A simplified fabrication process for biofiber-reinforced polymer composites for automotive interior trim applications. Journal of Materials Science, 2014, 49, 2630-2639.	3.7	31
23	Damage mechanics of composite materials. IV: The effect of lay-up on damage growth and notched strength. Composites Science and Technology, 1991, 40, 167-179.	7.8	30
24	Pulp fiber-reinforced thermoset polymer composites: Effects of the pulp fibers and polymer. Composites Part B: Engineering, 2013, 48, 10-17.	12.0	28
25	Adhesion and durability of latex paint on wood fiber reinforced polyethylene. Progress in Organic Coatings, 2004, 49, 33-41.	3.9	27
26	A simplified beam analysis of the end notched flexure mode II delamination specimen. Composite Structures, 1999, 45, 271-278.	5.8	23
27	Effect of mixing conditions on the morphology and performance of fiber-reinforced polyurethane foam. Journal of Cellular Plastics, 2015, 51, 103-119.	2.4	23
28	Mechanical properties of sisal-epoxy composites as functions of fiber-to-epoxy ratio. AIMS Materials Science, 2019, 6, 985-996.	1.4	23
29	Dispersion of Wood Microfibers in a Matrix of Thermoplastic Starch and Starchâ€“Polylactic Acid Blend. Journal of Biobased Materials and Bioenergy, 2007, 1, 71-77.	0.3	22
30	Characterization of composite mesostructures and damage by de-ply radiography. Composites Science and Technology, 1995, 53, 175-181.	7.8	19
31	Cellulose Microfibers as Reinforcing Agents for Structural Materials. ACS Symposium Series, 2006, , 169-186.	0.5	17
32	Torsional braid analysis of bitumen-liquid rubber mixtures. Polymer Engineering and Science, 1984, 24, 252-258.	3.1	16
33	Modeling energy consumption for the generation of microfibres from bleached kraft pulp fibres in a PFI mill. BioResources, 2007, 2, 210-222.	1.0	16
34	Novel lightweight sandwich-structured bio-fiber-reinforced poly(lactic acid) composites. Journal of Materials Science, 2014, 49, 2018-2026.	3.7	15
35	Modeling and Predicting the Stress Relaxation of Composites with Short and Randomly Oriented Fibers. Materials, 2017, 10, 1207.	2.9	13
36	Wood-flour-reinforced polyethylene: Viscoelastic behavior and threaded fasteners. Polymer Engineering and Science, 2002, 42, 2336-2350.	3.1	12

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37	Sorption and diffusion of carbon dioxide in wood-fiber/polystyrene composites. Journal of Polymer Science, Part B: Polymer Physics, 2002, 40, 723-735.	2.1	11
38	Investigation of unsaturated polyester composites reinforced by aspen highâ€yield pulp fibers. Polymer Composites, 2012, 33, 169-177.	4.6	10
39	Investigating the Mechanical Response of Soy-Based Polyurethane Foams with Glass Fibers under Compression at various Rates. Frontiers in Forests and Global Change, 2015, 34, 281-298.	1.1	9
40	Improvement in Compressive Behavior of Alkali-treated Wood Fibre-reinforced Bio-based Polyurethane Foams. Frontiers in Forests and Global Change, 2014, 33, 139-158.	1.1	8
41	Polyurethane foam mechanical reinforcement by low-aspect ratio micro-crystalline cellulose and glass fibres. Journal of Cellular Plastics, 2015, 51, 59-73.	2.4	7
42	The production and properties of oriented polypropylene laminates. Polymer Engineering and Science, 1994, 34, 1016-1024.	3.1	6
43	High speed compression of highly filled thin composites: Effect of binder content and stiffness. Progress in Organic Coatings, 2009, 64, 356-360.	3.9	6
44	Lignin-Based Foaming Materials. , 2016, , 217-232.		5
45	Factors affecting the electrical resistivity of kraft recovery boiler precipitator ash. Tappi Journal, 2014, 13, 31-39.	0.5	5
46	Wood Microfibres - Effective Reinforcing Agents for Composites. , 0, , .		4
47	A Study of the Friction Coefficients of Unidirectional and Woven Carbon Fibre/Epoxy Composites. Polymers and Polymer Composites, 2016, 24, 255-263.	1.9	4
48	Predicting the Elastic Modulus of Hybrid Fibre Reinforced Thermoplastics. Polymers and Polymer Composites, 2006, 14, 239-249.	1.9	3
49	A Novel Method to Deliver Natural Fibre for Mechanical Reinforcement of Polyurethane Foam. Frontiers in Forests and Global Change, 2014, 33, 123-138.	1.1	3
50	An energy-based model for the wear of unidirectional carbon fiber reinforced epoxy. Journal of Composite Materials, 2020, 54, 4535-4544.	2.4	3
51	Effect of Interactions between Interface Modifiers and Viscosity Modifiers on the Performance and Processibility of the Rice Hulls-HDPE Composites. Journal of Reinforced Plastics and Composites, 2006, 25, 1691-1699.	3.1	2
52	High speed microcompression of paper coatings. Journal of Materials Science, 2009, 44, 2507-2512.	3.7	1
53	Preliminary Design and Experimental Investigation of a Novel Pneumatic Conveying Method to Disperse Natural Fibers in Thermoset Polymers. Materials, 2016, 9, 548.	2.9	1
54	Heterogeneous Surface Wear Models for the Prediction of the Specific Wear Rate of Woven Carbon Fibre Reinforced Epoxy Composites. Polymers and Polymer Composites, 2015, 23, 359-368.	1.9	0

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55	High Temperature Fracture Resistance of Model Kraft Recovery Boiler Deposits. Materials, 2022, 15, 4759.	2.9	0