

Ambrose C Taylor

List of Publications by Year in descending order

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97
papers

6,029
citations

76326

40
h-index

71685

76
g-index

102
all docs

102
docs citations

102
times ranked

4271
citing authors

#	ARTICLE	IF	CITATIONS
1	Silica nano-particle filled polymers: Debonding and microstructure. <i>Composites Science and Technology</i> , 2022, 218, 109202.	7.8	8
2	A microstructure image-based numerical model for predicting the fracture toughness of alumina trihydrate (ATH) filled poly(methyl methacrylate) (PMMA) composites. <i>Composites Part B: Engineering</i> , 2022, 232, 109632.	12.0	3
3	A methodology for the use of alkyd paint in thermally aged easel painting reconstructions for mechanical testing. <i>Journal of Cultural Heritage</i> , 2022, 55, 237-244.	3.3	1
4	Examining the effect of graphene nanoplatelets on the corrosion resistance of epoxy coatings. <i>International Journal of Adhesion and Adhesives</i> , 2021, 104, 102723.	2.9	21
5	The properties and suitability of commercial bio-based epoxies for use in fiber-reinforced composites. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50417.	2.6	30
6	Quantification and analysis of coating surface strains in T-bend tests. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 113, 1125-1142.	3.0	4
7	The effect of substrate material properties on the failure behaviour of coatings in the Erichsen cupping test. <i>Progress in Organic Coatings</i> , 2021, 151, 106087.	3.9	4
8	The effect of structure-property relationships on the formability of pigmented polyester coatings. <i>Progress in Organic Coatings</i> , 2021, 154, 106198.	3.9	1
9	A numerical investigation of interfacial and channelling crack growth rates under low-cycle fatigue in bi-layer materials relevant to cultural heritage. <i>Journal of Cultural Heritage</i> , 2021, 49, 70-78.	3.3	7
10	The effect of varying molecular weight on the performance of HMMM-crosslinked polyester coatings. <i>Progress in Organic Coatings</i> , 2020, 149, 105920.	3.9	2
11	Fracture and toughening mechanisms of silica- and core-shell rubber-toughened epoxy at ambient and low temperature. <i>Journal of Materials Science</i> , 2019, 54, 13938-13958.	3.7	46
12	Vibration behaviours of single/multi-debonded curved composite sandwich structures. <i>Composite Structures</i> , 2019, 226, 111291.	5.8	10
13	The effect of HMMM crosslinker content on the thermal-mechanical properties of polyester coil coatings. <i>Progress in Organic Coatings</i> , 2019, 137, 105338.	3.9	6
14	Reconstruction of historical temperature and relative humidity cycles within Knole House, Kent. <i>Journal of Cultural Heritage</i> , 2019, 39, 212-220.	3.3	5
15	Quantification of coating surface strains in Erichsen cupping tests. <i>Journal of Materials Science</i> , 2019, 54, 7997-8009.	3.7	11
16	Fracture and fatigue behaviour of carbon fibre composites with nanoparticle-sized fibres. <i>Composite Structures</i> , 2019, 217, 143-149.	5.8	33
17	Toughening epoxy syntactic foams with milled carbon fibres: Mechanical properties and toughening mechanisms. <i>Materials and Design</i> , 2019, 169, 107654.	7.0	38
18	Vibration behaviours of single/multi-debonded composite sandwich structures with nanoparticle-modified matrices. <i>Composite Structures</i> , 2019, 210, 590-598.	5.8	6

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19	Fracture behaviour of rubber- and silica nanoparticle-toughened glass fibre composites under static and fatigue loading. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 109, 239-256.	7.6	18
20	Effect of Functionalization on Mechanical Properties of Hybrid Carbon Fiber Reinforced Polymer (HCFRP) Composites Using Piezoptroscopy. , 2018, , .		1
21	Influence of backbone structure, conversion and phenolic co-curing of cyanate esters on side relaxations, fracture toughness, flammability properties and water uptake and toughening with low molecular weight polyethersulphones. <i>Reactive and Functional Polymers</i> , 2018, 129, 2-22.	4.1	16
22	Cracking in paintings due to relative humidity cycles. <i>Procedia Structural Integrity</i> , 2018, 13, 379-384.	0.8	6
23	The fracture of thermosetting epoxy polymers containing silica nanoparticles. <i>Strength, Fracture and Complexity</i> , 2018, 11, 137-148.	0.3	7
24	Silane functionalization effects on dispersion of alumina nanoparticles in hybrid carbon fiber composites. <i>Applied Optics</i> , 2018, 57, 6671.	1.8	5
25	Adhesives with Nanoparticles. , 2018, , 1677-1702.		1
26	A Comparison of How Well Two Different Models of Thermoâ€Setting Polymers Predict Their Thermoâ€Mechanical Aspects. <i>Macromolecular Symposia</i> , 2017, 372, 51-68.	0.7	3
27	Core-shell rubber nanoparticle reinforcement and processing of high toughness fast-curing epoxy composites. <i>Composites Science and Technology</i> , 2017, 147, 78-88.	7.8	40
28	Quantifying Alumina Nanoparticle Dispersion in Hybrid Carbon Fiber Composites Using Photoluminescent Spectroscopy. <i>Applied Spectroscopy</i> , 2017, 71, 258-266.	2.2	8
29	A facile way to produce epoxy nanocomposites having excellent thermal conductivity with low contents of reduced graphene oxide. <i>Journal of Materials Science</i> , 2017, 52, 7323-7344.	3.7	63
30	Adhesives with Nanoparticles. , 2017, , 1-27.		0
31	Toughened carbon fibre-reinforced polymer composites with nanoparticle-modified epoxy matrices. <i>Journal of Materials Science</i> , 2017, 52, 1767-1788.	3.7	86
32	Dispersion of Nanoparticles in Polymers. , 2017, , 279-317.		0
33	Graphene nanoplatelet-modified epoxy: effect of aspect ratio and surface functionality on mechanical properties and toughening mechanisms. <i>Journal of Materials Science</i> , 2016, 51, 8764-8790.	3.7	77
34	A preliminary examination of urushi-based conservation options for the treatment of photodegraded Japanese lacquer using scanning electron microscopy and profilometry. <i>Studies in Conservation</i> , 2016, 61, 131-148.	1.1	7
35	In situ thermally reduced graphene oxide/epoxy composites: thermal and mechanical properties. <i>Applied Nanoscience (Switzerland)</i> , 2016, 6, 1015-1022.	3.1	75
36	Toughening of epoxy-based hybrid nanocomposites. <i>Polymer</i> , 2016, 97, 179-190.	3.8	91

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37	Mechanical and fracture performance of carbon fibre reinforced composites with nanoparticle modified matrices. <i>Procedia Structural Integrity</i> , 2016, 2, 96-103.	0.8	17
38	Simultaneously tough and conductive rubber-graphene epoxy nanocomposites. <i>Journal of Materials Science</i> , 2016, 51, 8631-8644.	3.7	21
39	Characterizing Mechanical Properties of Hybrid Alumina Carbon Fiber Composites with Piezospectroscopy. , 2016, , .		1
40	Fast-curing epoxy polymers with silica nanoparticles: properties and rheo-kinetic modelling. <i>Journal of Materials Science</i> , 2016, 51, 236-251.	3.7	36
41	Toughening performance of glass fibre composites with core-shell rubber and silica nanoparticle modified matrices. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 80, 292-303.	7.6	56
42	Establishing the fracture properties of delaminating multilayered decorative coatings on wood and their changes after consolidation with polymer formulations. <i>Journal of Materials Science</i> , 2015, 50, 2666-2681.	3.7	7
43	Co-continuous polymer systems: A numerical investigation. <i>Computational Materials Science</i> , 2015, 98, 24-33.	3.0	38
44	Tough, natural-fibre composites based upon epoxy matrices. <i>Journal of Materials Science</i> , 2015, 50, 6947-6960.	3.7	24
45	An essential work of fracture study of the toughness of thermoset polyester coatings. <i>Progress in Organic Coatings</i> , 2015, 78, 265-274.	3.9	17
46	Mechanical and dielectric properties of epoxy-clay nanocomposites. <i>Journal of Materials Science</i> , 2014, 49, 1574-1584.	3.7	55
47	Improving the fracture toughness and the cyclic-fatigue resistance of epoxy-polymer blends. <i>Polymer</i> , 2014, 55, 6325-6334.	3.8	57
48	Durability of asphalt mixtures: Effect of aggregate type and adhesion promoters. <i>International Journal of Adhesion and Adhesives</i> , 2014, 54, 100-111.	2.9	144
49	The mechanical properties and toughening mechanisms of an epoxy polymer modified with polysiloxane-based core-shell particles. <i>Polymer</i> , 2013, 54, 4276-4289.	3.8	186
50	The microstructure and fracture performance of styrene-butadiene-methylmethacrylate block copolymer-modified epoxy polymers. <i>Journal of Materials Science</i> , 2013, 48, 6762-6777.	3.7	42
51	The effects of particle morphology on the analysis of discrete particle dispersion using Delaunay tessellation. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 54, 37-45.	7.6	13
52	The modelling of the toughening of epoxy polymers via silica nanoparticles: The effects of volume fraction and particle size. <i>Polymer</i> , 2013, 54, 7022-7032.	3.8	106
53	A modelling study of the visco-elastic behaviour of polyester-based coil coatings. <i>Progress in Organic Coatings</i> , 2013, 76, 1556-1566.	3.9	9
54	The development of a novel test method to assess the durability of asphalt road-pavement materials. <i>International Journal of Adhesion and Adhesives</i> , 2013, 42, 1-10.	2.9	32

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55	Enhanced fatigue behavior of a glass fiber reinforced hybrid particles modified epoxy nanocomposite under WISPERX spectrum load sequence. <i>International Journal of Fatigue</i> , 2013, 54, 25-31.	5.7	43
56	Fatigue Behaviour of a Hybrid Particle Modified Fiberglass/Epoxy Composite under a Helicopter Spectrum Load Sequence. <i>Advanced Composites Letters</i> , 2013, 22, 096369351302200.	1.3	5
57	THE FATIGUE AND FRACTURE BEHAVIOR OF MICRON-RUBBER AND NANO-SILICA PARTICLES MODIFIED EPOXY POLYMER. <i>International Journal of Nanoscience</i> , 2012, 11, 1240002.	0.7	8
58	Quantifying Nanoparticle Dispersion by Using The Area Disorder of Delaunay Triangulation. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2012, 61, 253-275.	1.0	16
59	Epoxy modified with triblock copolymers: morphology, mechanical properties and fracture mechanisms. <i>Journal of Materials Science</i> , 2012, 47, 4546-4560.	3.7	56
60	THE EFFECT OF MICRON-RUBBER AND NANO-SILICA PARTICLES ON THE FATIGUE CRACK GROWTH BEHAVIOR OF AN EPOXY POLYMER. <i>International Journal of Nanoscience</i> , 2011, 10, 1095-1099.	0.7	19
61	Improved variable-amplitude fatigue behavior of a glass-fiber-reinforced hybrid-toughened epoxy composite. <i>Journal of Reinforced Plastics and Composites</i> , 2011, 30, 1783-1793.	3.1	23
62	Determining the Fracture Energy of Structural Adhesives from Wedge-Peel Tests. <i>Journal of Adhesion</i> , 2011, 87, 482-503.	3.0	8
63	Adhesives with Nanoparticles. , 2011, , 1437-1460.		8
64	A MARTINI Coarse-Grained Model of a Thermoset Polyester Coating. <i>Macromolecules</i> , 2011, 44, 6198-6208.	4.8	66
65	Toughening of epoxy using core-shell particles. <i>Journal of Materials Science</i> , 2011, 46, 327-338.	3.7	145
66	Quantifying the dispersion of carbon nanotubes in thermoplastic-toughened epoxy polymers. <i>Journal of Materials Science</i> , 2011, 46, 3108-3118.	3.7	8
67	Quantifying nanoparticle dispersion: application of the Delaunay network for objective analysis of sample micrographs. <i>Journal of Materials Science</i> , 2011, 46, 6437-6452.	3.7	24
68	The effect of carbon nanotubes on the fracture toughness and fatigue performance of a thermosetting epoxy polymer. <i>Journal of Materials Science</i> , 2011, 46, 7525.	3.7	217
69	The effect of silica nanoparticles and carbon nanotubes on the toughness of a thermosetting epoxy polymer. <i>Journal of Applied Polymer Science</i> , 2011, 119, 2135-2142.	2.6	65
70	Nano-and micro-silica modification of epoxy polymers. , 2010, , .		3
71	The toughness of epoxy polymers and fibre composites modified with rubber microparticles and silica nanoparticles. <i>Journal of Materials Science</i> , 2010, 45, 1193-1210.	3.7	331
72	Particle cavitation in rubber toughened epoxies: the role of particle size. <i>Journal of Materials Science</i> , 2010, 45, 3882-3894.	3.7	44

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73	The mechanisms and mechanics of the toughening of epoxy polymers modified with silica nanoparticles. <i>Polymer</i> , 2010, 51, 6284-6294.	3.8	386
74	The tensile fatigue behaviour of a silica nanoparticle-modified glass fibre reinforced epoxy composite. <i>Composites Science and Technology</i> , 2010, 70, 193-199.	7.8	181
75	Advances in nanoparticle reinforcement in structural adhesives. , 2010, , 151-182.		11
76	The Morphology and Fracture Properties of Thermoplastic-Toughened Epoxy Polymers. <i>Journal of Adhesion</i> , 2010, 86, 726-741.	3.0	91
77	The Tensile Fatigue Behavior of a GFRP Composite with Rubber Particle Modified Epoxy Matrix. <i>Journal of Reinforced Plastics and Composites</i> , 2010, 29, 2170-2183.	3.1	35
78	The Tensile Fatigue Behavior of a Glass-fiber Reinforced Plastic Composite Using a Hybrid-toughened Epoxy Matrix. <i>Journal of Composite Materials</i> , 2010, 44, 2095-2109.	2.4	60
79	The effect of rubber micro-particles and silica nano-particles on the tensile fatigue behaviour of a glass-fibre epoxy composite. <i>Journal of Materials Science</i> , 2009, 44, 342-345.	3.7	55
80	The cyclic-fatigue behaviour of an epoxy polymer modified with micron-rubber and nano-silica particles. <i>Journal of Materials Science</i> , 2009, 44, 4487-4490.	3.7	50
81	Nanoclay-filled epoxy composites for electrical insulation applications. , 2009, , .		5
82	The fracture of glass-fibre-reinforced epoxy composites using nanoparticle-modified matrices. <i>Journal of Materials Science</i> , 2008, 43, 1151-1154.	3.7	98
83	Toughening mechanisms of nanoparticle-modified epoxy polymers. <i>Polymer</i> , 2007, 48, 530-541.	3.8	815
84	The fracture and fatigue behaviour of nano-modified epoxy polymers. <i>Journal of Materials Science</i> , 2007, 42, 7049-7051.	3.7	156
85	The mechanical properties and fracture behaviour of epoxy-inorganic micro- and nano-composites. <i>Journal of Materials Science</i> , 2006, 41, 3271-3297.	3.7	152
86	The interlaminar toughness of carbon-fibre reinforced plastic composites using "hybrid-toughened" matrices. <i>Journal of Materials Science</i> , 2006, 41, 5043-5046.	3.7	85
87	Toughness of syndiotactic polystyrene/epoxy polymer blends: microstructure and toughening mechanisms. <i>Polymer</i> , 2005, 46, 7352-7369.	3.8	114
88	The effect of silica nano particles and rubber particles on the toughness of multiphase thermosetting epoxy polymers. <i>Journal of Materials Science</i> , 2005, 40, 5083-5086.	3.7	263
89	Mechanical and fracture properties of epoxy/inorganic micro- and nano-composites. <i>Journal of Materials Science Letters</i> , 2003, 22, 1439-1441.	0.5	102
90	The toughening of cyanate-ester polymers: Part II Chemical modification. <i>Journal of Materials Science</i> , 2003, 38, 65-79.	3.7	32

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91	Toughness of syndiotactic polystyrene (sPS)/epoxy blends. Journal of Materials Science Letters, 2003, 22, 507-512.	0.5	7
92	The prediction of crack growth in bonded joints under cyclic-fatigue loading I. Experimental studies. International Journal of Adhesion and Adhesives, 2003, 23, 449-461.	2.9	70
93	The prediction of crack growth in bonded joints under cyclic-fatigue loading II. Analytical and finite element studies. International Journal of Adhesion and Adhesives, 2003, 23, 463-471.	2.9	41
94	Toughening structural adhesives via nano- and micro-phase inclusions. Journal of Adhesion, 2003, 79, 867-873.	3.0	198
95	Title is missing!. Journal of Materials Science, 2002, 37, 433-460.	3.7	94
96	The impact wedge-peel performance of structural adhesives. Journal of Materials Science, 2000, 35, 1867-1884.	3.7	71
97	Predicting the service-life of adhesively-bonded joints. International Journal of Fracture, 2000, 103, 41-69.	2.2	115