Andrew N Rider

List of Publications by Year
in descending order

55 papers	1,589 citations	279798 23 h-index	302126 39 g-index
55 all docs	55 docs citations	55 times ranked	1466 citing authors

#	Article	IF	Citations
1	Electrophoretic deposition of carbon nanotubes onto carbon-fiber fabric for production of carbon/epoxy composites with improved mechanical properties. Carbon, 2012, 50, 4130-4143.	10.3	236
2	Hierarchical Composite Structures Prepared by Electrophoretic Deposition of Carbon Nanotubes onto Glass Fibers. ACS Applied Materials & Interfaces, 2013, 5, 2022-2032.	8.0	140
3	Boiling water and silane pre-treatment of aluminium alloys for durable adhesive bonding. International Journal of Adhesion and Adhesives, 2000, 20, 209-220.	2.9	139
4	Tailoring Interfacial Properties by Controlling Carbon Nanotube Coating Thickness on Glass Fibers Using Electrophoretic Deposition. ACS Applied Materials & Interfaces, 2016, 8, 1501-1510.	8.0	92
5	Hydrated oxide film growth on aluminium alloys immersed in warm water. Surface and Coatings Technology, 2005, 192, 199-207.	4.8	58
6	Multifunctional magneto-polymer matrix composites for electromagnetic interference suppression, sensors and actuators. Progress in Materials Science, 2021, 115, 100705.	32.8	58
7	Polymer nanocomposite â€“ fiber model interphases: Influence of processing and interface chemistry on mechanical performance. Chemical Engineering Journal, 2015, 269, 121-134.	12.7	55
8	The influence of mechanical and chemical treatments on the environmental resistance of epoxy adhesive bonds to titanium. International Journal of Adhesion and Adhesives, 2014, 48, 20-27.	2.9	48
9	Factors influencing the durability of epoxy adhesion to silane pretreated aluminium. International Journal of Adhesion and Adhesives, 2006, 26, 67-78.	2.9	47
10	The influence of porosity and morphology of hydrated oxide films on epoxy-aluminium bond durability. Journal of Adhesion Science and Technology, 2001, 15, 395-422.	2.6	40
11	Tailored glass fiber interphases via electrophoretic deposition of carbon nanotubes: Fiber and interphase characterization. Composites Science and Technology, 2018, 166, 131-139.	7.8	39
12	The influence of hydroxyl group concentration on epoxyâ€“aluminium bond durability. Journal of Adhesion Science and Technology, 2004, 18, 1123-1152.	2.6	38
13	Impact damage tolerance of composite repairs to highly-loaded, high temperature composite structures. Composites Part A: Applied Science and Manufacturing, 2011, 42, 1321-1334.	7.6	36
14	Warm water treatment of aluminum for adhesive bonding. International Journal of Adhesion and Adhesives, 2003, 23, 307-313.	2.9	34
15	Residual strength of composite laminates containing scarfed and straight-sided holes. Composites Part A: Applied Science and Manufacturing, 2011, 42, 1951-1961.	7.6	33
16	Synergetic effects of carbon nanotubes and triblock copolymer on the lap shear strength of epoxy adhesive joints. Composites Part B: Engineering, 2019, 178, 107457.	12.0	33
17	Theoretical and experimental research into optimal edge taper of bonded repair patches subject to fatigue loadings. International Journal of Adhesion and Adhesives, 2005, 25, 410-426.	2.9	31
18	Bonded repairs for carbon/BMI composite at high operating temperatures. Composites Part A: Applied Science and Manufacturing, 2010, 41, 902-912.	7.6	31

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19	Internal resistance heating for homogeneous curing of adhesively bonded repairs. International Journal of Adhesion and Adhesives, 2011, 31, 168-176.	2.9	30
20	Analysis of energy release rate for fatigue cracked metal-to-metal double-lap shear joints. International Journal of Adhesion and Adhesives, 2005, 25, 181-191.	2.9	27
21	High-performance epoxy-based adhesives modified with functionalized graphene nanoplatelets and triblock copolymers. International Journal of Adhesion and Adhesives, 2020, 98, 102521.	2.9	26
22	Durability of an off-optimum cured aluminium joint. International Journal of Adhesion and Adhesives, 2004, 24, 95-106.	2.9	24
23	Ultrasonicated-ozone modification of exfoliated graphite for stable aqueous graphitic nanoplatelet dispersions. Nanotechnology, 2014, 25, 495607.	2.6	24
24	Structural composite supercapacitor using carbon nanotube mat electrodes with interspersed metallic iron nanoparticles. Electrochimica Acta, 2020, 331, 135233.	5.2	23
25	Studies of the degradation of metal-adhesive interfaces with surface analysis techniques. Applied Surface Science, 1993, 70-71, 109-113.	6.1	22
26	Hierarchical composites with high-volume fractions of carbon nanotubes: Influence of plasma surface treatment and thermoplastic nanophase-modified epoxy. Carbon, 2015, 94, 971-981.	10.3	18
27	Improving the actuation performance of magneto-polymer composites by silane functionalisation of carbonyl-iron particles. Composites Part B: Engineering, 2020, 196, 108091.	12.0	16
28	Low-power r.f. plasma oxidation of aluminium. Surface and Interface Analysis, 2001, 31, 302-312.	1.8	15
29	The effect of warm water surface treatments on the fatigue life in shear of aluminum joints. International Journal of Adhesion and Adhesives, 2006, 26, 199-205.	2.9	15
30	Triblock Copolymer Toughening of a Carbon Fibre-Reinforced Epoxy Composite for Bonded Repair. Polymers, 2018, 10, 888.	4.5	14
31	Influence of Simple Surface Treatments on the Durability of Bonded Aluminium Alloy Plates. Materials Science Forum, 1995, 189-190, 235-240.	0.3	13
32	Development of Stable Boron Nitride Nanotube and Hexagonal Boron Nitride Dispersions for Electrophoretic Deposition. Langmuir, 2020, 36, 3425-3438.	3.5	13
33	An Enhanced Vacuum Cure Technique for On-Aircraft Repair of Carbon-Bismaleimide Composites. Applied Composite Materials, 2011, 18, 231-251.	2.5	12
34	Electrophoretic deposition: Novel in situ film growth mechanism of carbon nanocomposite films within non-conductive fabrics for multi-scale hybrid composites. Composites Science and Technology, 2020, 200, 108415.	7.8	12
35	Toughening boron/epoxy bonded joints using the resin film infusion technique. Composites Part A: Applied Science and Manufacturing, 2003, 34, 341-348.	7.6	11
36	Multi-Walled Carbon Nanotubes Grown from Chemical Vapor: Links between Atomic near Range Order and Growth Parameters. Journal of Physical Chemistry C, 2009, 113, 4307-4314.	3.1	10

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37	Evolution of Magnetic and Structural Properties during Iron Plating of Carbon Nanotubes. Journal of Physical Chemistry C, 2014, 118, 13218-13227.	3.1	10
38	A Comparison of Mechanical and Electrical Properties in Hierarchical Composites Prepared using Electrophoretic or Chemical Vapor Deposition of Carbon Nanotubes. MRS Advances, 2016, 1, 785-790.	0.9	9
39	Surface Treatment and Repair Bonding. , 2002, , 41-86.		8
40	Long-Term Stability of Metallic Iron inside Carbon Nanotubes. Journal of Physical Chemistry C, 2011, 115, 21083-21087.	3.1	8
41	Surface modification of boron fibres for improved strength in composite materials. Journal of Adhesion Science and Technology, 2005, 19, 857-877.	2.6	7
42	On the fatigue durability of clad 7075-T6 aluminium alloy bonded joints representative of aircraft repair. International Journal of Adhesion and Adhesives, 2013, 44, 144-156.	2.9	7
43	Manipulation of carbon nanotube magnetism with metal-rich iron nanoparticles. Journal of Materials Chemistry C, 2016, 4, 1215-1227.	5.5	7
44	3D printed continuous fibre composite repair of sandwich structures. Composite Structures, 2022, 290, 115518.	5.8	6
45	Surface Treatments and Adhesives for Bonded Repairs to High Temperature Carbonâ€“Bismaleimide Composite Structure. Journal of Adhesion Science and Technology, 2012, 26, 911-937.	2.6	5
46	Functionalization and Dispersion of Carbon Nanomaterials Using an Environmentally Friendly Ultrasonicated Ozonolysis Process. Journal of Visualized Experiments, 2017, , .	0.3	3
47	Fatigue Behaviour of Aluminum Bonded Joints as a Function of Wedge Test Performance. Journal of Adhesion Science and Technology, 2009, 23, 555-566.	2.6	2
48	Surface Treatment and Repair Bonding. , 2018, , 253-323.		2
49	Electron Microscope Investigations of Thin Adhesive Layers on Adhesive/Metal Interfaces. Materials Science Forum, 1995, 189-190, 229-234.	0.3	1
50	Effect of Humidity and Thermal Cycling on Carbon-Epoxy Skin/Aramid Honeycomb Structure. Materials Science Forum, 2010, 654-656, 2600-2603.	0.3	1
51	Scaled-up production of multi-walled carbon nanotubes using catalytic chemical vapour deposition. , 2006, , .		0
52	Use of pre-defined architectures for incorporation of aligned carbon nanotubes into epoxy resin. , 2008, , .		0
53	6.12 Hierarchical Nanocomposites/Multi-Scale Composites. , 2018, , 352-379.		0
54	Actuated Dielectric-Lossy Screen for Dynamically Suppressing Electromagnetic Interference. ACS Applied Electronic Materials, 2020, 2, 3923-3935.	4.3	0

#	Article	IF	Citations
55	Zero valence iron nanocube decoration of graphitic nanoplatelets. Nanotechnology, 2022, 33, 025704.	2.6	0