James D Randall

List of Publications by Year
in descending order

19	492	840776 11	794594 19
papers	citations	h-index	g-index

19	19	19	326
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Using surface grafted poly(acrylamide) to simultaneously enhance the tensile strength, tensile modulus, and interfacial adhesion of carbon fibres in epoxy composites. Carbon, 2022, 186, 367-379.	10.3	24
2	Surface modification of carbon fiber as a protective strategy against thermal degradation. Composites Part A: Applied Science and Manufacturing, 2022, 153, 106740.	7.6	6
3	Mixed Surface Chemistry on Carbon Fibers to Promote Adhesion in Epoxy and PMMA Polymers. Industrial & Engineering Chemistry Research, 2022, 61, 1615-1623.	3.7	5
4	Carbon fiber polypropylene interphase modification as a route to improved toughness. Composites Part A: Applied Science and Manufacturing, 2022, 159, 107001.	7.6	14
5	Multifunctional polymeric surface coatings of carbon fibre electrodes for enhanced energy storage performance. Chemical Engineering Journal, 2022, 447, 137560.	12.7	7
6	Using in situ polymerisation to enhance adhesion of dissimilar materials. International Journal of Adhesion and Adhesives, 2021, 104, 102740.	2.9	2
7	Carbon fibre surface chemistry and its role in fibre-to-matrix adhesion. Journal of Materials Chemistry A, 2021, 9, 26528-26572.	10.3	27
8	Examining interfacial interactions in a range of polymers using poly(ethylene oxide) functionalized carbon fibers. Composites Part A: Applied Science and Manufacturing, 2020, 138, 106053.	7.6	28
9	Using molecular entanglement as a strategy to enhance carbon fiber-epoxy composite interfaces. Composites Science and Technology, 2020, 196, 108225.	7.8	39
10	Expanding the Scope of Surface Grafted Polymers Using Electroinitiated Polymerization. Langmuir, 2020, 36, 7217-7226.	3.5	20
11	Improved out-of-plane strength and weight reduction using hybrid interface composites. Composites Science and Technology, 2019, 182, 107730.	7.8	8
12	Fiber with Butterfly Wings: Creating Colored Carbon Fibers with Increased Strength, Adhesion, and Reversible Malleability. ACS Applied Materials & Interfaces, 2019, 11, 41617-41625.	8.0	43
13	Designing carbon fiber composite interfaces using a â€˜graft-toâ€™ approach: Surface grafting density versus interphase penetration. Carbon, 2019, 146, 88-96.	10.3	56
14	Increasing the resistivity and IFSS of unsized carbon fibre by covalent surface modification. Reactive and Functional Polymers, 2018, 129, 123-128.	4.1	20
15	Effect of Tow Size and Interface Interaction on Interfacial Shear Strength Determined by Iosipescu (V-Notch) Testing in Epoxy Resin. Materials, 2018, 11, 1786.	2.9	6
16	Modification of Carbon Fibre Surfaces by Sulfurâ€Fluoride Exchange Click Chemistry. ChemPhysChem, 2018, 19, 3176-3181.	2.1	28
17	Using variable interfacial adhesion characteristics within a composite to improve flexural strength and decrease fiber volume. Composites Science and Technology, 2018, 165, 250-258.	7.8	12
18	An efficient high-throughput grafting procedure for enhancing carbon fiber-to-matrix interactions in composites. Chemical Engineering Journal, 2018, 353, 373-380.	12.7	50

#	Article	IF	Citations
19	Electrochemical surface modification of carbon fibres by grafting of amine, carboxylic and lipophilic amide groups. Carbon, 2017, 118, 393-403.	10.3	97