

James D Randall

List of Publications by Year in descending order

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19
papers

492
citations

840776

11
h-index

794594

19
g-index

19
all docs

19
docs citations

19
times ranked

326
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical surface modification of carbon fibres by grafting of amine, carboxylic and lipophilic amide groups. Carbon, 2017, 118, 393-403.	10.3	97
2	Designing carbon fiber composite interfaces using a "graft-to" approach: Surface grafting density versus interphase penetration. Carbon, 2019, 146, 88-96.	10.3	56
3	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
4	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
5	Using molecular entanglement as a strategy to enhance carbon fiber-epoxy composite interfaces. Composites Science and Technology, 2020, 196, 108225.	7.8	39
6	Modification of Carbon Fibre Surfaces by Sulfur-Fluoride Exchange Click Chemistry. ChemPhysChem, 2018, 19, 3176-3181.	2.1	28
7	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
8	Carbon fibre surface chemistry and its role in fibre-to-matrix adhesion. Journal of Materials Chemistry A, 2021, 9, 26528-26572.	10.3	27
9	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
10	Increasing the resistivity and IFSS of unsized carbon fibre by covalent surface modification. Reactive and Functional Polymers, 2018, 129, 123-128.	4.1	20
11	Expanding the Scope of Surface Grafted Polymers Using Electroinitiated Polymerization. Langmuir, 2020, 36, 7217-7226.	3.5	20
12	Carbon fiber polypropylene interphase modification as a route to improved toughness. Composites Part A: Applied Science and Manufacturing, 2022, 159, 107001.	7.6	14
13	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
14	Improved out-of-plane strength and weight reduction using hybrid interface composites. Composites Science and Technology, 2019, 182, 107730.	7.8	8
15	Multifunctional polymeric surface coatings of carbon fibre electrodes for enhanced energy storage performance. Chemical Engineering Journal, 2022, 447, 137560.	12.7	7
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Using in situ polymerisation to enhance adhesion of dissimilar materials. International Journal of Adhesion and Adhesives, 2021, 104, 102740.	2.9	2