

Soraia Pimenta

List of Publications by Year in descending order

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35
papers

1,846
citations

394421

19
h-index

395702

33
g-index

35
all docs

35
docs citations

35
times ranked

1545
citing authors

#	ARTICLE	IF	CITATIONS
1	Recycling carbon fibre reinforced polymers for structural applications: Technology review and market outlook. <i>Waste Management</i> , 2011, 31, 378-392.	7.4	677
2	A micromechanical model for kink-band formation: Part I " Experimental study and numerical modelling. <i>Composites Science and Technology</i> , 2009, 69, 948-955.	7.8	138
3	The effect of recycling on the mechanical response of carbon fibres and their composites. <i>Composite Structures</i> , 2012, 94, 3669-3684.	5.8	95
4	A micromechanical model for kink-band formation: Part II "Analytical modelling. <i>Composites Science and Technology</i> , 2009, 69, 956-964.	7.8	84
5	An analytical shear-lag model for composites with "brick-and-mortar"™ architecture considering non-linear matrix response and failure. <i>Composites Science and Technology</i> , 2014, 104, 111-124.	7.8	82
6	Demonstration of pseudo-ductility in unidirectional discontinuous carbon fibre/epoxy prepreg composites. <i>Composites Science and Technology</i> , 2015, 106, 110-119.	7.8	81
7	Hybrid titanium"CFRP laminates for high-performance bolted joints. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009, 40, 1826-1837.	7.6	80
8	Hierarchical scaling law for the strength of composite fibre bundles. <i>Journal of the Mechanics and Physics of Solids</i> , 2013, 61, 1337-1356.	4.8	70
9	Engineering the translaminar fracture behaviour of thin-ply composites. <i>Composites Science and Technology</i> , 2016, 131, 110-122.	7.8	60
10	Mechanical analysis and toughening mechanisms of a multiphase recycled CFRP. <i>Composites Science and Technology</i> , 2010, 70, 1713-1725.	7.8	48
11	An analytical model for the translaminar fracture toughness of fibre composites with stochastic quasi-fractal fracture surfaces. <i>Journal of the Mechanics and Physics of Solids</i> , 2014, 66, 78-102.	4.8	45
12	Benchmarking of strength models for unidirectional composites under longitudinal tension. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 111, 138-150.	7.6	36
13	Experimental investigation of randomly-oriented tow-based discontinuous composites and their equivalent laminates. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 102, 64-75.	7.6	34
14	Carbon fibre sheet moulding compounds with high in-mould flow: Linking morphology to tensile and compressive properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 126, 105600.	7.6	32
15	Semi-analytical simulation of aligned discontinuous composites. <i>Composites Science and Technology</i> , 2017, 144, 230-244.	7.8	31
16	On longitudinal compressive failure of carbon-fibre-reinforced polymer: from unidirectional to woven, and from virgin to recycled. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 1871-1895.	3.4	29
17	Advancing mechanical recycling of multilayer plastics through finite element modelling and environmental policy. <i>Resources, Conservation and Recycling</i> , 2021, 166, 105371.	10.8	27
18	Development and assessment of modelling strategies to predict failure in tow-based discontinuous composites. <i>Composite Structures</i> , 2019, 209, 1005-1021.	5.8	23

#	ARTICLE	IF	CITATIONS
19	The influence of micromechanical properties and reinforcement architecture on the mechanical response of recycled composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 56, 213-225.	7.6	20
20	Exploring the potential of interleaving to delay catastrophic failure in unidirectional composites under tensile loading. <i>Composites Science and Technology</i> , 2015, 106, 100-109.	7.8	20
21	A computationally-efficient hierarchical scaling law to predict damage accumulation in composite fibre-bundles. <i>Composites Science and Technology</i> , 2017, 146, 210-225.	7.8	17
22	Towards quasi isotropic laminates with engineered fracture behaviour for industrial applications. <i>Composites Science and Technology</i> , 2018, 165, 290-306.	7.8	17
23	A computationally-efficient micromechanical model for the fatigue life of unidirectional composites under tension-tension loading. <i>International Journal of Fatigue</i> , 2018, 116, 677-690.	5.7	16
24	Wavy-ply sandwich with composite skins and crushable core for ductility and energy absorption. <i>Composite Structures</i> , 2014, 116, 364-376.	5.8	15
25	Interlocking thin-ply reinforcement concept for improved fracture toughness and damage tolerance. <i>Composites Science and Technology</i> , 2019, 181, 107681.	7.8	15
26	Microscale material variability and its effect on longitudinal tensile failure of unidirectional carbon fibre composites. <i>Composite Structures</i> , 2021, 261, 113300.	5.8	10
27	Recycling of Carbon Fibers. , 2014, , 269-283.		9
28	On the role of dynamic stress concentrations and fracture mechanics in the longitudinal tensile failure of fibre-reinforced composites. <i>Engineering Fracture Mechanics</i> , 2020, 228, 106920.	4.3	8
29	Morphology-induced fatigue crack arresting in carbon fibre sheet moulding compounds. <i>International Journal of Fatigue</i> , 2020, 134, 105510.	5.7	7
30	The influence of 3D microstructural features on the elastic behaviour of tow-based discontinuous composites. <i>Composite Structures</i> , 2020, 251, 112484.	5.8	6
31	The influence of variability and defects on the mechanical performance of tailorable composites. <i>Journal of Composite Materials</i> , 2020, 54, 565-589.	2.4	5
32	A synchrotron computed tomography dataset for validation of longitudinal tensile failure models based on fibre break and cluster development. <i>Data in Brief</i> , 2021, 39, 107590.	1.0	5
33	Data-driven intelligent optimisation of discontinuous composites. <i>Composite Structures</i> , 2020, 243, 112176.	5.8	3
34	Multiscale composites. <i>Reinforced Plastics</i> , 2015, 59, 132-134.	0.1	1
35	Predicting damage accumulation and fatigue life of UD composites under longitudinal tension. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 388, 012007.	0.6	0