

Sathiskumar A Ponnusami

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

330
citations

1163117

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26
all docs

26
docs citations

26
times ranked

226
citing authors

#	ARTICLE	IF	CITATIONS
1	Predictions of the mechanical properties of unidirectional fibre composites by supervised machine learning. <i>Scientific Reports</i> , 2019, 9, 13964.	3.3	89
2	Cohesive-zone modelling of crack nucleation and propagation in particulate composites. <i>Engineering Fracture Mechanics</i> , 2015, 149, 170-190.	4.3	62
3	A cohesive-zone crack healing model for self-healing materials. <i>International Journal of Solids and Structures</i> , 2018, 134, 249-263.	2.7	48
4	Computational investigation of porosity effects on fracture behavior of thermal barrier coatings. <i>Ceramics International</i> , 2019, 45, 20518-20527.	4.8	19
5	Numerical Investigation into the Effect of Splats and Pores on the Thermal Fracture of Air Plasma-Sprayed Thermal Barrier Coatings. <i>Journal of Thermal Spray Technology</i> , 2019, 28, 1881-1892.	3.1	19
6	Modelling the fracture behaviour of thermal barrier coatings containing healing particles. <i>Materials and Design</i> , 2018, 157, 75-86.	7.0	16
7	Investigation on the interphase effects on the energy harvesting characteristics of three phase magneto-electro-elastic cantilever beam. <i>Mechanics of Advanced Materials and Structures</i> , 2023, 30, 2735-2747.	2.6	15
8	Coupon scale Z-pinned IM7/8552 delamination tests under dynamic loading. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 125, 105565.	7.6	9
9	A micromechanical fracture analysis to investigate the effect of healing particles on the overall mechanical response of a self-healing particulate composite. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019, 42, 533-545.	3.4	9
10	Nonlinear damped transient response of sandwich auxetic plates with porous magneto-electro-elastic facesheets. <i>European Physical Journal Plus</i> , 2022, 137, .	2.6	8
11	Vibration-Based Energy Harvesting Characteristics of Functionally Graded Magneto-Elastic Beam Structures Using Lumped Parameter Model. <i>Journal of Vibration Engineering and Technologies</i> , 2022, 10, 1705-1720.	2.2	6
12	An integrated inverse numerical-experimental approach to determine the dynamic Mode-I interlaminar fracture toughness of fibre composites. <i>Composite Structures</i> , 2022, 293, 115734.	5.8	5
13	Position-dependent shear-induced austenite-martensite transformation in double-notched TRIP and dual-phase steel samples. <i>Journal of Applied Crystallography</i> , 2014, 47, 956-964.	4.5	4
14	A Wedge-DCB Test Methodology to Characterise High Rate Mode-I Interlaminar Fracture Properties of Fibre Composites. <i>EPJ Web of Conferences</i> , 2018, 183, 02052.	0.3	4
15	Thermal cyclic behavior and lifetime prediction of self-healing thermal barrier coatings. <i>International Journal of Solids and Structures</i> , 2021, 222-223, 111034.	2.7	4
16	Asymptotic Modeling of Nonlinear Bending and Buckling Behavior of Carbon Nanotubes. <i>AIAA Journal</i> , 2019, 57, 4132-4140.	2.6	3
17	Aerofoil wake-induced transition characteristics on a flat-plate boundary layer. <i>Journal of Fluid Mechanics</i> , 2021, 920, .	3.4	3
18	On the Rate-dependent Plasticity Modelling of Unidirectional Fibre-reinforced Polymeric Matrix Composites. <i>EPJ Web of Conferences</i> , 2018, 183, 01055.	0.3	2

#	ARTICLE	IF	CITATIONS
19	Nonlinear Bending and Buckling Behavior of Carbon Nanotubes and Their Composites- Continuum Modelling using Variational Asymptotic Method. , 2018, , .		1
20	Experimental characterisation of rate-dependent compression behaviour of fibre reinforced composites. EPJ Web of Conferences, 2018, 183, 02053.	0.3	1
21	Geometric Nonlinear Analysis of Composite Stiffened Panels Using Variational Asymptotic Method. AIAA Journal, 2020, 58, 4189-4203.	2.6	1
22	Nonlinear Modeling of Piezocomposite Actuators with Application to Self-actuating Flapping Wing Micro Aerial Vehicles. , 2012, , .		0
23	Evaluating the effect of matrix voids and interface flaws on the mechanical behaviour of fiber composites. , 2018, , .		0
24	Elucidating the effect of cohesive zone length in fracture simulations of particulate composites. Engineering Fracture Mechanics, 2022, , 108431.	4.3	0