Sathiskumar A Ponnusami

List of Publications by Year
in descending order

24	330	1163117 8	839539 18
papers	citations	h-index	g-index

26	26	26	226
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Investigation on the interphase effects on the energy harvesting characteristics of three phase magneto-electro-elastic cantilever beam. Mechanics of Advanced Materials and Structures, 2023, 30, 2735-2747.	2.6	15
2	Vibration-Based Energy Harvesting Characteristics of Functionally Graded Magneto-Electro-Elastic Beam Structures Using Lumped Parameter Model. Journal of Vibration Engineering and Technologies, 2022, 10, 1705-1720.	2.2	6
3	Elucidating the effect of cohesive zone length in fracture simulations of particulate composites. Engineering Fracture Mechanics, 2022, , 108431.	4.3	0
4	Nonlinear damped transient response of sandwich auxetic plates with porous magneto-electro-elastic facesheets. European Physical Journal Plus, 2022, 137, .	2.6	8
5	An integrated inverse numericalâ€“experimental approach to determine the dynamic Mode-I interlaminar fracture toughness of fibre composites. Composite Structures, 2022, 293, 115734.	5.8	5
6	Aerofoil wake-induced transition characteristics on a flat-plate boundary layer. Journal of Fluid Mechanics, 2021, 920, .	3.4	3
7	Thermal cyclic behavior and lifetime prediction of self-healing thermal barrier coatings. International Journal of Solids and Structures, 2021, 222-223, 111034.	2.7	4
8	Geometric Nonlinear Analysis of Composite Stiffened Panels Using Variational Asymptotic Method. AIAA Journal, 2020, 58, 4189-4203.	2.6	1
9	Asymptotic Modeling of Nonlinear Bending and Buckling Behavior of Carbon Nanotubes. AIAA Journal, 2019, 57, 4132-4140.	2.6	3
10	Computational investigation of porosity effects on fracture behavior of thermal barrier coatings. Ceramics International, 2019, 45, 20518-20527.	4.8	19
11	Coupon scale Z-pinned IM7/8552 delamination tests under dynamic loading. Composites Part A: Applied Science and Manufacturing, 2019, 125, 105565.	7.6	9
12	Predictions of the mechanical properties of unidirectional fibre composites by supervised machine learning. Scientific Reports, 2019, 9, 13964.	3.3	89
13	Numerical Investigation into the Effect of Splats and Pores on the Thermal Fracture of Air Plasma-Sprayed Thermal Barrier Coatings. Journal of Thermal Spray Technology, 2019, 28, 1881-1892.	3.1	19
14	A micromechanical fracture analysis to investigate the effect of healing particles on the overall mechanical response of a selfâ€healing particulate composite. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 533-545.	3.4	9
15	Evaluating the effect of matrix voids and interface flaws on the mechanical behaviour of fiber composites. , 2018, , .		0
16	Nonlinear Bending and Buckling Behavior of Carbon Nanotubes and Their Composites- Continuum Modelling using Variational Asymptotic Method. , 2018, , .		1
17	A cohesive-zone crack healing model for self-healing materials. International Journal of Solids and Structures, 2018, 134, 249-263.	2.7	48
18	On the Rate-dependent Plasticity Modelling of Unidirectional Fibre-reinforced Polymeric Matrix Composites. EPJ Web of Conferences, 2018, 183, 01055.	0.3	2

#	Article	IF	Citations
19	A Wedge-DCB Test Methodology to Characterise High Rate Mode-I Interlaminar Fracture Properties of Fibre Composites. EPJ Web of Conferences, 2018, 183, 02052.	0.3	4
20	Experimental characterisation of rate-dependent compression behaviour of fibre reinforced composites. EPJ Web of Conferences, 2018, 183, 02053.	0.3	1
21	Modelling the fracture behaviour of thermal barrier coatings containing healing particles. Materials and Design, 2018, 157, 75-86.	7.0	16
22	Cohesive-zone modelling of crack nucleation and propagation in particulate composites. Engineering Fracture Mechanics, 2015, 149, 170-190.	4.3	62
23	Position-dependent shear-induced austeniteâ€“martensite transformation in double-notched TRIP and dual-phase steel samples. Journal of Applied Crystallography, 2014, 47, 956-964.	4.5	4
24	Nonlinear Modeling of Piezocomposite Actuators with Application to Self-actuating Flapping Wing Micro Aerial Vehicles. , 2012, , .		0