

# Subhas Chandra Kattimani

## List of Publications by Year in descending order

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39  
papers

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#	ARTICLE	IF	CITATIONS
1	Static, buckling, and free vibration characteristics of porous skew partially functionally graded magneto-electro-elastic plate. <i>Mechanics Based Design of Structures and Machines</i> , 2023, 51, 5541-5576.	4.7	7
2	Geometrically Nonlinear Study of Functionally Graded Saturated Porous Plates Based on Refined Shear Deformation Plate Theory and Biot's Theory. <i>International Journal of Structural Stability and Dynamics</i> , 2023, 23, .	2.4	15
3	Effect of different geometrical non-uniformities on nonlinear vibration of porous functionally graded skew plates: A finite element study. <i>Defence Technology</i> , 2022, 18, 918-936.	4.2	8
4	Effect of porosity on active damping of geometrically nonlinear vibrations of a functionally graded magneto-electro-elastic plate. <i>Defence Technology</i> , 2022, 18, 891-906.	4.2	20
5	Effect of temperature on the performance of active constrained layer damping of skew sandwich plate with CNT reinforced composite core. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 5423-5442.	2.6	9
6	Nonlinear free vibration and transient responses of porous functionally graded magneto-electro-elastic plates. <i>Archives of Civil and Mechanical Engineering</i> , 2022, 22, 1.	3.8	24
7	Influence of Temperature and Moisture on Free Vibration Behavior of Skew Laminated Composite Sandwich Panels with CNTRC Core. <i>International Journal of Structural Stability and Dynamics</i> , 2022, 22, .	2.4	10
8	Experimental investigation of the pseudoelastic behavior on zirconium modified Cu-Al-Be shape memory alloys for seismic applications. <i>Smart Materials and Structures</i> , 2022, 31, 055009.	3.5	0
9	Vibration control of laminated composite cantilever beam operating in elevated thermal environments using fuzzy logic controller. <i>Noise and Vibration Worldwide</i> , 2022, 53, 261-273.	1.0	1
10	Frequency response analysis of edge-cracked magneto-electro-elastic functionally graded plates using extended finite element method. <i>Theoretical and Applied Fracture Mechanics</i> , 2022, 120, 103417.	4.7	11
11	Geometrically nonlinear behavior of two-directional functionally graded porous plates with four different materials. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2022, 236, 11008-11023.	2.1	19
12	Influence of porosity distribution on nonlinear free vibration and transient responses of porous functionally graded skew plates. <i>Defence Technology</i> , 2021, 17, 1918-1935.	4.2	24
13	Pseudoelastic Behavior of Boron-Doped $\eta_1$ -Type Cu-Al-Be Shape Memory Alloys. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 6068-6078.	2.5	8
14	Neural Network-Based Prediction Model to Investigate the Influence of Temperature and Moisture on Vibration Characteristics of Skew Laminated Composite Sandwich Plates. <i>Materials</i> , 2021, 14, 3170.	2.9	22
15	Dynamic analysis of laminated composite sandwich plates with a circular hole. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1136, 012050.	0.6	0
16	Prediction of Cohesive Zone Length and Accurate Numerical Simulation of Delamination under Mixed-mode Loading. <i>Applied Composite Materials</i> , 2021, 28, 1861-1898.	2.5	0
17	Effect of similar and dissimilar interface layers on delamination in hybrid plain woven glass/carbon epoxy laminated composite double cantilever beam under Mode-I loading. <i>Theoretical and Applied Fracture Mechanics</i> , 2021, 114, 102988.	4.7	6
18	An experimental evaluation of the microstructure, mechanical and functional fatigue properties of the boron-doped Cu-Al-Be SMA wires. <i>Materials and Design</i> , 2021, 210, 110081.	7.0	4

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19	Study of mechanical and dynamic mechanical behavior of halloysite nanotube reinforced multiscale syntactic foam. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49855.	2.6	9
20	Assessment of Vibrational Frequencies and Static Characteristics of Multilayered Skew Magneto-Electro-Elastic Plates: A Finite Element Study. <i>Iranian Journal of Science and Technology - Transactions of Mechanical Engineering</i> , 2020, 44, 61-82.	1.3	7
21	Modal analysis of laminated composite and sandwich plates using finite element method. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	4
22	Investigation on Properties of Shape Memory Alloy Wire of Cu-Al-Be Doped with Zirconium. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 7260-7269.	2.5	6
23	Flexural behavior of nanoclay filled glass fiber/epoxy polymer nanocomposites. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
24	Hygrothermal response analysis of MEE beam embedded in adaptive wood through FE methods. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
25	Dynamic performance of laminated composite plates with a circular hole. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	2
26	Experimental investigation on modal characteristics of plain woven glass/carbon hybrid composite beams with fixed-free end condition. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
27	Finite element simulation of controlled frequency response of skew multiphase magneto-electro-elastic plates. <i>Journal of Intelligent Material Systems and Structures</i> , 2019, 30, 1757-1771.	2.5	28
28	Experimental investigation on free vibration of composite beams implanted Ni-Ti shape memory alloy wires. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	3
29	Buckling analysis of skew magneto-electro-elastic plates under in-plane loading. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 2206-2222.	2.5	9
30	Hygrothermal coupling analysis of magneto-electroelastic beams using finite element methods. <i>Journal of Thermal Stresses</i> , 2018, 41, 1063-1079.	2.0	32
31	Influence of coupled fields on free vibration and static behavior of functionally graded magneto-electro-thermo-elastic plate. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 1430-1455.	2.5	49
32	Effect of BaTiO <sub>3</sub> /CoFe <sub>2</sub> O <sub>4</sub> micro-topological textures on the coupled static behaviour of magneto-electro-thermo-elastic beams in different thermal environment. <i>Materials Research Express</i> , 2018, 5, 125702.	1.6	29
33	Finite element modelling for mode-I fracture behaviour of CFRP. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
34	Investigation of free vibration characteristics for skew multiphase magneto-electro-elastic plate. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
35	Static studies of stepped functionally graded magneto-electro-elastic beam subjected to different thermal loads. <i>Composite Structures</i> , 2017, 163, 216-237.	5.8	90
36	Active damping of multiferroic composite plates using 1 <sup>st</sup> order piezoelectric composites. <i>Smart Materials and Structures</i> , 2017, 26, 125021.	3.5	12

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37	Static analysis of stepped functionally graded magneto-electro-elastic plates in thermal environment: A finite element study. <i>Composite Structures</i> , 2017, 178, 63-86.	5.8	84
38	Active control of large amplitude vibrations of smart magneto-electro-elastic doubly curved shells. <i>International Journal of Mechanics and Materials in Design</i> , 2014, 10, 351-378.	3.0	49
39	Effect of Piezoelectric Interphase Thickness on Nonlinear Behavior of Multiphase Magneto-electro-elastic Fibrous Composite Plate. <i>Journal of Vibration Engineering and Technologies</i> , 0, , 1.	2.2	4