Subrat Kumar Jena

List of Publications by Year
in descending order

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39	696	430754	610775
papers	citations	18 h-index	24 g-index

41	41	41	239
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hygro-Magnetic Vibration of the Single-Walled Carbon Nanotube with Nonlinear Temperature Distribution Based on a Modified Beam Theory and Nonlocal Strain Gradient Model. International Journal of Applied Mechanics, 2020, 12, 2050054.	1.3	42
2	Stability analysis of single-walled carbon nanotubes embedded in winkler foundation placed in a thermal environment considering the surface effect using a new refined beam theory. Mechanics Based Design of Structures and Machines, 2021, 49, 581-595.	3.4	42
3	Application of shifted Chebyshev polynomial-based Rayleighâ€“Ritz method and Navierâ€™s technique for vibration analysis of a functionally graded porous beam embedded in Kerr foundation. Engineering With Computers, 2021, 37, 3569-3589.	3.5	41
4	Vibration and buckling characteristics of nonlocal beam placed in a magnetic field embedded in Winklerâ€“Pasternak elastic foundation using a new refined beam theory: an analytical approach. European Physical Journal Plus, 2020, 135, 1.	1.2	35
5	Dynamic behavior of an electromagnetic nanobeam using the Haar wavelet method and the higher-order Haar wavelet method. European Physical Journal Plus, 2019, 134, 1.	1.2	30
6	Implementation of Haar wavelet, higher order Haar wavelet, and differential quadrature methods on buckling response of strain gradient nonlocal beam embedded in an elastic medium. Engineering With Computers, 2021, 37, 1251-1264.	3.5	30
7	Free Vibration Analysis of Variable Cross-Section Single-Layered Graphene Nano-Ribbons (SLGNRs) Using Differential Quadrature Method. Frontiers in Built Environment, 2018, 4, .	1.2	28
8	Dynamical behavior of nanobeam embedded in constant, linear, parabolic, and sinusoidal types of Winkler elastic foundation using first-Order nonlocal strain gradient model. Materials Research Express, 2019, 6, 0850f2.	0.8	26
9	Differential Quadrature and Differential Transformation Methods in Buckling Analysis of Nanobeams. Curved and Layered Structures, 2019, 6, 68-76.	0.5	25
10	Implementation of Hermiteâ€“Ritz method and Navierâ€™s technique for vibration of functionally graded porous nanobeam embedded in Winklerâ€“Pasternak elastic foundation using bi-Helmholtz nonlocal elasticity. Journal of Mechanics of Materials and Structures, 2020, 15, 405-434.	0.4	25
11	Implementation of non-probabilistic methods for stability analysis of nonlocal beam with structural uncertainties. Engineering With Computers, 2021, 37, 2957-2969.	3.5	25
12	Buckling Behavior of Nanobeams Placed in Electromagnetic Field Using Shifted Chebyshev Polynomials-Based Rayleigh-Ritz Method. Nanomaterials, 2019, 9, 1326.	1.9	24
13	A novel fractional nonlocal model and its application in buckling analysis of Euler-Bernoulli nanobeam. Materials Research Express, 2019, 6, 055016.	0.8	23
14	Vibration characteristics of nanobeam with exponentially varying flexural rigidity resting on linearly varying elastic foundation using differential quadrature method. Materials Research Express, 2019, 6, 085051.	0.8	23
15	Free Vibration of Single Walled Carbon Nanotube Resting on Exponentially Varying Elastic Foundation. Curved and Layered Structures, 2018, 5, 260-272.	0.5	22
16	Dynamic Response Analysis of Fractionally-Damped Generalized Bagleyâ€“Torvik Equation Subject to External Loads. Russian Journal of Mathematical Physics, 2020, 27, 254-268.	0.4	22
17	Free vibration analysis of Eulerâ€“Bernoulli nanobeam using differential transform method. International Journal of Computational Materials Science and Engineering, 2018, 07, 1850020.	0.5	21
18	Effects of surface energy and surface residual stresses on vibro-thermal analysis of chiral, zigzag, and armchair types of SWCNTs using refined beam theory. Mechanics Based Design of Structures and Machines, 2022, 50, 1565-1579.	3.4	21

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19	Application of Haar wavelet discretization and differential quadrature methods for free vibration of functionally graded micro-beam with porosity using modified couple stress theory. Engineering Analysis With Boundary Elements, 2022, 140, 167-185.	2.0	20
20	Free Vibration Analysis of Single Walled Carbon Nanotube with Exponentially Varying Stiffness. Curved and Layered Structures, 2018, 5, 201-212.	0.5	19
21	On the wave solutions of timeâ€fractional Sawadaâ€Koteraâ€to equation arising in shallow water. Mathematical Methods in the Applied Sciences, 2021, 44, 583-592.	1.2	18
22	Propagation of uncertainty in free vibration of Eulerâ€“Bernoulli nanobeam. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	17
23	Wavelet-based techniques for Hygro-Magneto-Thermo vibration of nonlocal strain gradient nanobeam resting on Winkler-Pasternak elastic foundation. Engineering Analysis With Boundary Elements, 2022, 140, 494-506.	2.0	14
24	Dynamic Analysis of Single-Layered Graphene Nano-Ribbons (SLGNRs) with Variable Cross-Section Resting on Elastic Foundation. Curved and Layered Structures, 2019, 6, 132-145.	0.5	12
25	Analysis of the dynamics of phytoplankton nutrient and whooping cough models with nonsingular kernel arising in the biological system. Chaos, Solitons and Fractals, 2020, 141, 110373.	2.5	12
26	Stability analysis of nanobeams in hygrothermal environment based on a nonlocal strain gradient Timoshenko beam model under nonlinear thermal field. Journal of Computational Design and Engineering, 2020, 7, 685-699.	1.5	11
27	Stability analysis of Timoshenko nanobeam with material uncertainties using a double-parametric form-based analytical approach and Monte Carlo simulation technique. European Physical Journal Plus, 2020, 135, 1.	1.2	10
28	Analysis of timeâ€fractional fuzzy vibration equation of large membranes using double parametric based Residual power series method. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2021, 101, e202000165.	0.9	10
29	Analysis of timeâ€fractional dynamical model of romantic and interpersonal relationships with nonâ€singular kernels: A comparative study. Mathematical Methods in the Applied Sciences, 2021, 44, 2183-2199.	1.2	9
30	A novel numerical approach for the stability of nanobeam exposed to hygroâ€thermoâ€magnetic environment embedded in elastic foundation. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2022, 102, e202100380.	0.9	9
31	Time-Fractional Order Biological Systems with Uncertain Parameters. Synthesis Lectures on Mathematics and Statistics, 2020, 12, 1-160.	0.1	7
32	Free vibration of functionally graded beam embedded in Winkler-Pasternak elastic foundation with geometrical uncertainties using symmetric Gaussian fuzzy number. European Physical Journal Plus, 2022, 137, 1.	1.2	5
33	Vibration Analysis of Nonuniform Single-Walled Carbon Nanotube Resting on Winkler Elastic Foundation Using DQM. Lecture Notes in Mechanical Engineering, 2020, , 371-391.	0.3	4
34	Application of HOHWM in the stability analysis of nonlocal Euler-Bernoulli beam. AIP Conference Proceedings, 2020, , .	0.3	2
35	Solving Fuzzy Static Structural Problems Using Symmetric Group Method. , 2018, , 95-107.		1
36	Preface for International Conference on Recent Trends in Applied Research (ICoRTAR2020) Proceedings. Journal of Physics: Conference Series, 2021, 1734, 011001.	0.3	0

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37	Nanostructural dynamics problems with complicating effects. , 2021, , 1-9.		0
38	Vibration of microstructural elements. , 2021, , 35-44.		0
39	Application of Haar wavelet based methods for solving wave propagation problems. , 2020, , .		0