Mitesh B Panchal

List of Publications by Year
in descending order

25 papers	183 citations	1040056 9 h-index	1058476 14 g-index
26 all docs	26 docs citations	26 times ranked	130 citing authors

#	Article	IF	Citations
1	Cantilevered single walled boron nitride nanotube based nanomechanical resonators of zigzag and armchair forms. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 50, 73-82.	2.7	20
2	Vibrational characteristics of defective single walled BN nanotube based nanomechanical mass sensors: single atom vacancies and divacancies. Sensors and Actuators A: Physical, 2013, 197, 111-121.	4.1	18
3	Boron nitride nanotube-based biosensor for acetone detection: molecular structural mechanics-based simulation. Molecular Simulation, 2014, 40, 1035-1042.	2.0	18
4	MASS DETECTION USING SINGLE WALLED BORON NITRIDE NANOTUBE AS A NANOMECHANICAL RESONATOR. Nano, 2012, 07, 1250029.	1.0	17
5	Vibration Analysis of Single Walled Boron Nitride Nanotube Based Nanoresonators. Journal of Nanotechnology in Engineering and Medicine, 2012, 3, .	0.8	17
6	Boron nitride nanotubeâ€based biosensing of various bacterium/viruses: continuum modellingâ€based simulation approach. IET Nanobiotechnology, 2014, 8, 143-148.	3.8	15
7	Single walled boron nitride nanotubeâ€based biosensor: an atomistic finite element modelling approach. IET Nanobiotechnology, 2014, 8, 149-156.	3.8	13
8	AN EFFICIENT FINITE ELEMENT MODEL FOR ANALYSIS OF SINGLE WALLED BORON NITRIDE NANOTUBE-BASED RESONANT NANOMECHANICAL SENSORS. Nano, 2013, 08, 1350011.	1.0	12
9	Vibrational characteristics of defective single walled BN nanotube based nanomechanical mass sensors: Extended defect or dislocation line. Sensors and Actuators A: Physical, 2013, 203, 160-167.	4.1	11
10	Effect of interphase on elastic and shear moduli of metal matrix nanocomposites. European Physical Journal Plus, 2020, 135, 1.	2.6	9
11	Doubly-Clamped Single Walled Boron Nitride Nanotube Based Nanomechanical Resonators: A Computational Investigation of Their Behavior. Journal of Nanotechnology in Engineering and Medicine, 2012, 3, .	0.8	8
12	Boron Nitride Nanotube-Based Mass Sensing of Zeptogram Scale. Spectroscopy Letters, 2015, 48, 17-21.	1.0	8
13	Vibrational Analysis of Zigzag and Armchair Fixed Free Single Walled Boron Nitride Nanotubes: Atomistic Modeling Approach. Current Nanoscience, 2013, 9, 254-261.	1.2	7
14	Vibrational characterization of wavy atomic structures of single walled boron nitride nanotubes. European Physical Journal Plus, 2019, 134, 1.	2.6	3
15	Effect of Chirality on Resonant Behavior of Single Walled BN Nanotube Based Nanomechanical Resonator. Current Nanoscience, 2013, 9, 525-531.	1.2	3
16	Lamb Wave Based Sensor Network for Identification of Damages in Plate Structures. , 2009, , .		1
17	Continuum Solid Modeling based FEM Simulation Approach for Single Walled Boron Nitride Nanotube based Biosensing. , 2014, 5, 2-10.		1
18	Design analysis of rotary turret of poucher machine. Perspectives in Science, 2016, 8, 310-312.	0.6	1

#	Article	IF	Citations
19	Effect of built-in tension due to variation in temperature on natural frequency of graphene nano ribbon resonator. Materials Today: Proceedings, 2021, 47, 686-690.	1.8	1
20	Ultrasonic Signal Sensitivity due to Crack Parameters and Computational Approach Based on Wavelet Energy Correlated Damage Index. , 2008, , .		0
21	Boron Nitride Nanotube as a Nano-mechanical Biosensor: A Computational Approach. Biosensors Journal, 2015, s4, .	0.4	0
22	Effect of chirality and point defect on resonant characterization of single-walled boron nitride nanotube-based mass sensor. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems, 2015, 229, 85-95.	0.1	0
23	Design and Analysis of Reciprocating Screw for Injection Moulding Machine. Lecture Notes in Mechanical Engineering, 2019, , 573-584.	0.4	0
24	Vibro-acoustic Analysis of Simple Vehicle Cabin Using Finite Element Method. Lecture Notes in Mechanical Engineering, 2021, , 117-123.	0.4	0
25	Size-Dependent Natural Frequency Variation Analysis of Single-Layer Graphene Sheet. Lecture Notes in Mechanical Engineering, 2021, , 1-10.	0.4	0