

# Mitesh B Panchal

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

183  
citations

1039406

9  
h-index

1058022

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. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013, 50, 73-82.	1.3	20
2	Vibrational characteristics of defective single walled BN nanotube based nanomechanical mass sensors: single atom vacancies and divacancies. <i>Sensors and Actuators A: Physical</i> , 2013, 197, 111-121.	2.0	18
3	Boron nitride nanotube-based biosensor for acetone detection: molecular structural mechanics-based simulation. <i>Molecular Simulation</i> , 2014, 40, 1035-1042.	0.9	18
4	MASS DETECTION USING SINGLE WALLED BORON NITRIDE NANOTUBE AS A NANOMECHANICAL RESONATOR. <i>Nano</i> , 2012, 07, 1250029.	0.5	17
5	Vibration Analysis of Single Walled Boron Nitride Nanotube Based Nanoresonators. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2012, 3, .	0.8	17
6	Boron nitride nanotube-based biosensing of various bacterium/viruses: continuum modelling-based simulation approach. <i>IET Nanobiotechnology</i> , 2014, 8, 143-148.	1.9	15
7	Single walled boron nitride nanotube-based biosensor: an atomistic finite element modelling approach. <i>IET Nanobiotechnology</i> , 2014, 8, 149-156.	1.9	13
8	AN EFFICIENT FINITE ELEMENT MODEL FOR ANALYSIS OF SINGLE WALLED BORON NITRIDE NANOTUBE-BASED RESONANT NANOMECHANICAL SENSORS. <i>Nano</i> , 2013, 08, 1350011.	0.5	12
9	Vibrational characteristics of defective single walled BN nanotube based nanomechanical mass sensors: Extended defect or dislocation line. <i>Sensors and Actuators A: Physical</i> , 2013, 203, 160-167.	2.0	11
10	Effect of interphase on elastic and shear moduli of metal matrix nanocomposites. <i>European Physical Journal Plus</i> , 2020, 135, 1.	1.2	9
11	Doubly-Clamped Single Walled Boron Nitride Nanotube Based Nanomechanical Resonators: A Computational Investigation of Their Behavior. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2012, 3, .	0.8	8
12	Boron Nitride Nanotube-Based Mass Sensing of Zeptogram Scale. <i>Spectroscopy Letters</i> , 2015, 48, 17-21.	0.5	8
13	Vibrational Analysis of Zigzag and Armchair Fixed Free Single Walled Boron Nitride Nanotubes: Atomistic Modeling Approach. <i>Current Nanoscience</i> , 2013, 9, 254-261.	0.7	7
14	Vibrational characterization of wavy atomic structures of single walled boron nitride nanotubes. <i>European Physical Journal Plus</i> , 2019, 134, 1.	1.2	3
15	Effect of Chirality on Resonant Behavior of Single Walled BN Nanotube Based Nanomechanical Resonator. <i>Current Nanoscience</i> , 2013, 9, 525-531.	0.7	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. <i>Perspectives in Science</i> , 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. <i>Materials Today: Proceedings</i> , 2021, 47, 686-690.	0.9	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. <i>Biosensors Journal</i> , 2015, s4, .	0.4	0
22	Effect of chirality and point defect on resonant characterization of single-walled boron nitride nanotube-based mass sensor. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems</i> , 2015, 229, 85-95.	0.1	0
23	Design and Analysis of Reciprocating Screw for Injection Moulding Machine. <i>Lecture Notes in Mechanical Engineering</i> , 2019, , 573-584.	0.3	0
24	Vibro-acoustic Analysis of Simple Vehicle Cabin Using Finite Element Method. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 117-123.	0.3	0
25	Size-Dependent Natural Frequency Variation Analysis of Single-Layer Graphene Sheet. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 1-10.	0.3	0