

Debiprosad Roy Mahapatra

List of Publications by Year in descending order

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204
papers

4,143
citations

109321

35
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138484

58
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211
all docs

211
docs citations

211
times ranked

3999
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical nonenzymatic sensing of glucose using advanced nanomaterials. <i>Mikrochimica Acta</i> , 2018, 185, 49.	5.0	166
2	Numerical integration over arbitrary polygonal domains based on Schwarzâ€“Christoffel conformal mapping. <i>International Journal for Numerical Methods in Engineering</i> , 2009, 80, 103-134.	2.8	158
3	Graphene Oxideâ€“A Tool for the Preparation of Chemically Crosslinking Free Alginateâ€“Chitosanâ€“Collagen Scaffolds for Bone Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12441-12452.	8.0	152
4	A spectral finite element model for analysis of axialâ€“flexuralâ€“shear coupled wave propagation in laminated composite beams. <i>Composite Structures</i> , 2003, 59, 67-88.	5.8	146
5	On the performance of strain smoothing for quadratic and enriched finite element approximations (XFEM/GFEM/PUFEM). <i>International Journal for Numerical Methods in Engineering</i> , 2011, 86, 637-666.	2.8	142
6	Recent advances in electrochemical nonenzymatic hydrogen peroxide sensors based on nanomaterials: a review. <i>Journal of Materials Science</i> , 2019, 54, 12319-12357.	3.7	135
7	Multi-layer graphene reinforced aluminum â€“ Manufacturing of high strength composite by friction stir alloying. <i>Composites Part B: Engineering</i> , 2018, 136, 63-71.	12.0	134
8	Finite element analysis of free vibration and wave propagation in asymmetric composite beams with structural discontinuities. <i>Composite Structures</i> , 2002, 55, 23-36.	5.8	114
9	Integrating strong and weak discontinuities without integration subcells and example applications in an XFEM/GFEM framework. <i>International Journal for Numerical Methods in Engineering</i> , 2010, 83, 269-294.	2.8	102
10	A review of micromechanics based models for effective elastic properties of reinforced polymer matrix composites. <i>Composite Structures</i> , 2018, 204, 607-619.	5.8	98
11	Characterization of a large-area PVDF thin film for electro-mechanical and ultrasonic sensing applications. <i>Sensors and Actuators A: Physical</i> , 2010, 163, 164-171.	4.1	94
12	Prediction of nonlocal scaling parameter for armchair and zigzag single-walled carbon nanotubes based on molecular structural mechanics, nonlocal elasticity and wave propagation. <i>International Journal of Engineering Science</i> , 2011, 49, 509-522.	5.0	88
13	A refined higher order finite element for asymmetric composite beams. <i>Composite Structures</i> , 2005, 67, 27-35.	5.8	87
14	Rapid localization of damage using a circular sensor array and Lamb wave based triangulation. <i>Mechanical Systems and Signal Processing</i> , 2010, 24, 2929-2946.	8.0	84
15	Ultrasonic Lamb wave based monitoring of corrosion type of damage in plate using a circular array of piezoelectric transducers. <i>NDT and E International</i> , 2011, 44, 628-636.	3.7	77
16	SPECTRAL-ELEMENT-BASED SOLUTIONS FOR WAVE PROPAGATION ANALYSIS OF MULTIPLY CONNECTED UNSYMMETRIC LAMINATED COMPOSITE BEAMS. <i>Journal of Sound and Vibration</i> , 2000, 237, 819-836.	3.9	73
17	A meshless adaptive multiscale method for fracture. <i>Computational Materials Science</i> , 2015, 96, 382-395.	3.0	71
18	Lamb wave interaction with composite delamination. <i>Composite Structures</i> , 2018, 206, 484-498.	5.8	69

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19	Crack propagation in graphene. Journal of Applied Physics, 2015, 118, .	2.5	68
20	Descri�o de um novo m�todo de ooforectomia em ratas. Revista Brasileira De Reumatologia, 2012, 52, 466-470.	0.8	67
21	Development, in vitro and in vivo characterization of zoledronic acid functionalized hydroxyapatite nanoparticle based formulation for treatment of osteoporosis in animal model. European Journal of Pharmaceutical Sciences, 2015, 66, 173-183.	4.0	67
22	Vibration analysis of multi-walled carbon nanotubes embedded in elastic medium. Frontiers of Structural and Civil Engineering, 2014, 8, 151-159.	2.9	60
23	A spectral finite element with embedded delamination for modeling of wave scattering in composite beams. Composites Science and Technology, 2003, 63, 2187-2200.	7.8	54
24	Identification of delamination in composite beams using spectral estimation and a genetic algorithm. Smart Materials and Structures, 2002, 11, 899-908.	3.5	50
25	Improvement in Bone Properties by Using Risedronate Adsorbed Hydroxyapatite Novel Nanoparticle Based Formulation in a Rat Model of Osteoporosis. Journal of Biomedical Nanotechnology, 2013, 9, 193-201.	1.1	50
26	Risedronate/zinc-hydroxyapatite based nanomedicine for osteoporosis. Materials Science and Engineering C, 2016, 63, 78-87.	7.3	50
27	Morphogenesis and mechanostabilization of complex natural and 3D printed shapes. Science Advances, 2015, 1, e1400052.	10.3	48
28	Review on electrochemical sensing strategies for C-reactive protein and cardiac troponin I detection. Microchemical Journal, 2020, 156, 104857.	4.5	47
29	Single and multi-step phase transformation in CuZr nanowire under compressive/tensile loading. Intermetallics, 2010, 18, 679-687.	3.9	46
30	Quasi-static and dynamic strain sensing using carbon nanotube/epoxy nanocomposite thin films. Smart Materials and Structures, 2009, 18, 045013.	3.5	44
31	Mechanical properties of Graphene: Molecular dynamics simulations correlated to continuum based scaling laws. Computational Materials Science, 2016, 125, 319-327.	3.0	42
32	Stress-induced martensitic phase transformation in CuZr nanowires. Materials Letters, 2009, 63, 1289-1292.	2.6	41
33	Guided wave based detection of damage in honeycomb core sandwich structures. NDT and E International, 2012, 49, 27-33.	3.7	38
34	A spectral finite element for wave propagation and structural diagnostic analysis of composite beam with transverse crack. Finite Elements in Analysis and Design, 2004, 40, 1729-1751.	3.2	37
35	On the sensitivity of elastic waves due to structural damages: Time-frequency based indexing method. Journal of Sound and Vibration, 2009, 320, 915-941.	3.9	37
36	Energy harvesting using ionic electro-active polymer thin films with Ag-based electrodes. Smart Materials and Structures, 2010, 19, 045026.	3.5	37

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37	Coupled effect of size, strain rate, and temperature on the shape memory of a pentagonal Cu nanowire. <i>Nanotechnology</i> , 2009, 20, 045701.	2.6	36
38	Investigation of the effect of nonlocal scale on ultrasonic wave dispersion characteristics of a monolayer graphene. <i>Computational Materials Science</i> , 2010, 49, 734-742.	3.0	34
39	Mechanical and Acoustic Behavior of 3D-Printed Hierarchical Mathematical Fractal Menger Sponge. <i>Advanced Engineering Materials</i> , 2021, 23, 2001471.	3.5	32
40	Osteoprotective effect of propranolol in ovariectomized rats: a comparison with zoledronic acid and alfacalcidol. <i>Journal of Orthopaedic Science</i> , 2013, 18, 832-842.	1.1	31
41	Lattice orientation and crack size effect on the mechanical properties of Graphene. <i>International Journal of Fracture</i> , 2017, 203, 81-98.	2.2	31
42	Formation of stable ultra-thin pentagon Cu nanowires under high strain rate loading. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 335206.	1.8	30
43	Nature Inspired Strategy to Enhance Mechanical Properties via Liquid Reinforcement. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700240.	3.7	30
44	Polyvinylidene fluoride film based nasal sensor to monitor human respiration pattern: An initial clinical study. <i>Journal of Clinical Monitoring and Computing</i> , 2013, 27, 647-657.	1.6	29
45	Effect of length scale on mechanical properties of Al-Cu eutectic alloy. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	28
46	Description of a new method of ovariectomy in female rats. <i>Revista Brasileira De Reumatologia</i> , 2012, 52, 462-70.	0.8	28
47	Active feedback control of multiple waves in helicopter gearbox support struts. <i>Smart Materials and Structures</i> , 2001, 10, 1046-1058.	3.5	27
48	Estimation of composite damage model parameters using spectral finite element and neural network. <i>Composites Science and Technology</i> , 2004, 64, 2477-2493.	7.8	27
49	Laser Doppler imaging of delamination in a composite T-joint with remotely located ultrasonic actuators. <i>Composite Structures</i> , 2016, 147, 197-210.	5.8	23
50	Effect of intrinsic structural defects on mechanical properties of single layer MoS ₂ . <i>Nano Structures Nano Objects</i> , 2019, 18, 100247.	3.5	23
51	Constrained piezoelectric thin film for sensing of subsurface cracks. <i>Smart Materials and Structures</i> , 2005, 14, 376-386.	3.5	22
52	Numerical Analysis of the Inclusion-Crack Interaction by the Extended Finite Element Method. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2014, 15, 26-32.	2.1	22
53	Ultrasonic guided wave scattering due to delamination in curved composite structures. <i>Composite Structures</i> , 2020, 239, 111987.	5.8	22
54	Identification of Delamination in a Composite Beam Using a Damaged Spectral Element. <i>Structural Health Monitoring</i> , 2002, 1, 105-126.	7.5	21

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55	Sensitivity of polyvinylidene fluoride films to mechanical vibration modes and impact after optimizing stretching conditions. <i>Polymer Engineering and Science</i> , 2013, 53, 707-715.	3.1	21
56	Ionic Diffusion and Drug Release Behavior of Core-Shell-Functionalized Alginate-Chitosan-Based Hydrogel. <i>ACS Omega</i> , 2020, 5, 758-765.	3.5	20
57	Analysis of Wave Propagation in Beams With Transverse and Lateral Cracks Using a Weakly Formulated Spectral Method. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2007, 74, 119-127.	2.2	19
58	Prophylactic Effects of Propranolol Versus the Standard Therapy on a New Model of Disuse Osteoporosis in Rats. <i>Scientia Pharmaceutica</i> , 2014, 82, 357-374.	2.0	19
59	Pathogenic Escherichia coli (E. coli) detection through tuned nanoparticles enhancement study. <i>Biotechnology Letters</i> , 2020, 42, 853-863.	2.2	19
60	Drugs for the management of osteoporosis: a review. <i>Revista Brasileira De Reumatologia</i> , 2011, 51, 365-71, 379-82.	0.8	19
61	Asymmetry in structural and thermo-mechanical behavior of intermetallic NiAl nanowire under tensile/compressive loading: A molecular dynamics study. <i>Intermetallics</i> , 2010, 18, 1565-1571.	3.9	18
62	Zoledronic acid in combination with alfacalcidol has additive effects on trabecular microarchitecture and mechanical properties in osteopenic ovariectomized rats. <i>Journal of Orthopaedic Science</i> , 2014, 19, 646-656.	1.1	18
63	Lamb wave characteristics of thickness-graded piezoelectric IDT. <i>Ultrasonics</i> , 2005, 43, 736-746.	3.9	17
64	Ultrasonic wave characteristics of a monolayer graphene on silicon substrate. <i>Composite Structures</i> , 2011, 93, 1997-2009.	5.8	16
65	Modeling and simulation of vibro-thermography including nonlinear contact dynamics of ultrasonic actuator. <i>Ultrasonics</i> , 2019, 93, 81-92.	3.9	16
66	Universal Stability and Temperature Dependent Phase Transformation in Group VIII-IB Transition Metal FCC Nanowires. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10394-10398.	3.1	15
67	Enhancing mechanical properties of glass fabric composite with surfactant treated zirconia nanoparticles. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 118, 131-141.	7.6	15
68	Stress-induced phase transformation and pseudo-elastic/pseudo-plastic recovery in intermetallic Ni-Al nanowires. <i>Nanotechnology</i> , 2009, 20, 295705.	2.6	14
69	Superplasticity in intermetallic NiAl nanowires via atomistic simulations. <i>Materials Letters</i> , 2010, 64, 879-881.	2.6	14
70	Electromechanical interactions in a carbon nanotube based thin film field emitting diode. <i>Nanotechnology</i> , 2008, 19, 025701.	2.6	13
71	Temperature-pressure-induced solid-solid α to β reorientation in FCC metallic nanowire: a molecular dynamic study. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 015401.	1.8	13
72	Electrode Transport Layer-Metal Electrode Interface Morphology Tailoring for Enhancing the Performance of Perovskite Solar Cells. <i>ACS Applied Electronic Materials</i> , 2022, 4, 689-697.	4.3	13

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73	The Combination Therapy with Zoledronic Acid and Propranolol Improves the Trabecular Microarchitecture and Mechanical Property in an Rat Model of Postmenopausal Osteoporosis. <i>Journal of Osteoporosis</i> , 2014, 2014, 1-10.	0.5	12
74	Carbon Nanotube Thin Film Field Emitting Diode: Understanding the System Response Based on Multiphysics Modeling. <i>Journal of Computational and Theoretical Nanoscience</i> , 2007, 4, 535-549.	0.4	12
75	Fluid-thermo-structural response of actively cooled scramjet combustor in hypersonic accelerating-cruise flight. <i>International Journal of Heat and Mass Transfer</i> , 2022, 194, 123060.	4.8	12
76	A higher-order finite waveguide model for spectral analysis of composite structures. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006, 195, 1116-1135.	6.6	11
77	Mechanical properties of CNT-Bisphenol E cyanate ester-based CFRP nanocomposite developed through VARTM process. <i>Journal of Reinforced Plastics and Composites</i> , 2015, 34, 1000-1014.	3.1	11
78	Moldable biomimetic nanoscale optoelectronic platforms for simultaneous enhancement in optical absorption and charge transport. <i>Nanoscale</i> , 2018, 10, 3730-3737.	5.6	11
79	LAMB WAVE BASED MONITORING OF PLATE-STIFFENER DEBODING USING A CIRCULAR ARRAY OF PIEZOELECTRIC SENSORS. <i>International Journal on Smart Sensing and Intelligent Systems</i> , 2010, 3, 27-44.	0.7	11
80	Detailed studies on the formation of piezoelectric β -phase of PVDF at different hot-stretching conditions. <i>Proceedings of SPIE</i> , 2010, , .	0.8	10
81	Stable configurations of graphene on silicon. <i>Applied Surface Science</i> , 2017, 414, 25-33.	6.1	10
82	Integration of Non-Destructive Evaluation-based Ultrasonic Simulation: A means for simulation in structural health monitoring. <i>Structural Health Monitoring</i> , 2017, 16, 611-629.	7.5	10
83	Characterization Of Cracks And Delaminations Using Pwas Ad Lamb Wave Based Time-Frequency Methods. <i>International Journal on Smart Sensing and Intelligent Systems</i> , 2010, 3, 703-735.	0.7	10
84	Estimation of Dynamic Fracture Parameters in a Transverse Cracked Composite Beam using a Simplified Diagnostic Wave Propagation Model. <i>Structural Health Monitoring</i> , 2006, 5, 99-124.	7.5	9
85	The partition of unity finite element method for elastic wave propagation in Reissner-Mindlin plates. <i>International Journal for Numerical Methods in Engineering</i> , 2007, 70, 1451-1479.	2.8	9
86	Size and temperature dependent stability and phase transformation in single-crystal zirconium nanowire. <i>Journal of Nanoparticle Research</i> , 2011, 13, 5335-5346.	1.9	9
87	Design of Thermal Barrier Coating System for Scramjet using Coupled Thermo-Structural Analysis. <i>Transactions of the Indian Ceramic Society</i> , 2016, 75, 242-249.	1.0	9
88	Shear exfoliation synthesis of large-scale graphene-reinforced nanofibers. <i>Carbon</i> , 2020, 166, 405-413.	10.3	9
89	Finite Element Simulation of BAW Propagation in Inhomogeneous Plate Due to Piezoelectric Actuation. <i>Lecture Notes in Computer Science</i> , 2003, , 715-724.	1.3	9
90	Role of electrodes on perovskite solar cells performance: A review. <i>ISSS Journal of Micro and Smart Systems</i> , 2022, 11, 61-79.	2.0	9

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91	Electrostatic measures for a piezoelectric thin film with an embedded crack in the substrate: II. Mode II. Smart Materials and Structures, 2008, 17, 025038.	3.5	8
92	Monitoring microbial growth on a microfluidic lab-on-chip with electrochemical impedance spectroscopic technique. Biomedical Microdevices, 2021, 23, 26.	2.8	8
93	Numerical analysis of Lamb wave generation in piezoelectric composite IDT. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2005, 52, 1851-1860.	3.0	7
94	Electrostatic measures for a piezoelectric thin film with an embedded crack in the substrate: I. Mode I. Smart Materials and Structures, 2008, 17, 025037.	3.5	7
95	Structural stability of slender aerospace vehicles: Part I. International Journal of Mechanical Sciences, 2010, 52, 937-951.	6.7	7
96	Efeitos combinados do �cido zoledr�nico e do propranolol sobre a densidade �ssea e marcadores bioqu�micos de remodela�o �ssea em ratas osteop�nicas submetidas � ovariectomia. Revista Brasileira De Reumatologia, 2015, 55, 103-112.	0.8	7
97	Ultrasonic guided wave sensing characteristics of large area thin piezo coating. Smart Materials and Structures, 2017, 26, 105009.	3.5	7
98	Ultrasonic Lamb wave sensitivity of P(VDF�TrFE) thin films. ISSS Journal of Micro and Smart Systems, 2018, 7, 35-43.	2.0	7
99	Optimal Numerical Integration Schemes for a Family of Polygonal Finite Elements with Schwarz�Christoffel Conformal Mapping. International Journal for Computational Methods in Engineering Science and Mechanics, 2018, 19, 283-304.	2.1	7
100	Micro-crack Pinning and Interfacial Fracture in Mixed Metal Oxide Reinforced Epoxy Nanocomposite. Journal of Materials Engineering and Performance, 2018, 27, 5938-5946.	2.5	7
101	Micromechanical effect of pores on elastic properties of polymer matrix composites. Polymer Composites, 2021, 42, 1497-1518.	4.6	7
102	Estimation of degraded composite laminate properties using acoustic wave propagation model and a reduction�prediction network. Engineering Computations, 2005, 22, 849-876.	1.4	6
103	Comment on �Pseudoelasticity of Cu�Zr nanowires via stress-induced martensitic phase transformations�[Appl. Phys. Lett. 95, 021911 (2009)]. Applied Physics Letters, 2009, 95, 136101.	3.3	6
104	Modeling the interface effect of shape memory alloy composite materials. Multidiscipline Modeling in Materials and Structures, 2010, 6, 257-283.	1.3	6
105	Comment on �Surface stress induced structural transformations and pseudoelastic effects in palladium nanowires�[Appl. Phys. Lett. 93, 093108 (2008)]. Applied Physics Letters, 2010, 97, 146101.	3.3	6
106	Designing copper�zirconium based nanowires for improving yield strength and plasticity by configuring surface atoms. Journal of Nanoparticle Research, 2011, 13, 6907-6918.	1.9	6
107	Additive effects of zoledronic acid and propranolol on bone density and biochemical markers of bone turnover in osteopenic ovariectomized rats. Revista Brasileira De Reumatologia, 2015, 55, 103-112.	0.7	6
108	Length-scale and strain rate-dependent mechanism of defect formation and fracture in carbon nanotubes under tensile loading. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	6

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109	Equivalent constitutive model-based design of wave-absorbing material system and controller. Journal of Sound and Vibration, 2006, 289, 509-528.	3.9	5
110	Enhancing field emission from a carbon nanotube array by lateral control of electrodynamic force field. Molecular Simulation, 2009, 35, 512-519.	2.0	5
111	The dynamics of polymerized carbon nanotubes in semiconductor polymer electronics and electro-mechanical sensing. Nanotechnology, 2009, 20, 145707.	2.6	5
112	Wave propagation in elastic solids undergoing damage and growth process. Acta Mechanica, 2009, 203, 163-181.	2.1	5
113	Lamb wave based identification and parameter estimation of corrosion in metallic plate structure using a circular PWAS array. Proceedings of SPIE, 2009, , .	0.8	5
114	Degradation and Failure of Field Emitting Carbon Nanotube Arrays. Journal of Nanoscience and Nanotechnology, 2011, 11, 3911-3915.	0.9	5
115	Identification of different respiratory rate by a piezo polymer based nasal sensor. , 2013, , .		5
116	Understanding coupled electro-thermal processes in the catastrophic failure of organic electronic devices. Organic Electronics, 2016, 39, 354-360.	2.6	5
117	Ultrasonic horn contact-induced transient anharmonic resonance effect on vibro-thermography. Journal of Sound and Vibration, 2022, 525, 116786.	3.9	5
118	Analysis of Constrained Piezoelectric Layer: A Two-Dimensional Coupled Electromechanical Model. Ferroelectrics, 2005, 329, 131-137.	0.6	4
119	Structural stability of slender aerospace vehicles: Part II. International Journal of Mechanical Sciences, 2010, 52, 1145-1157.	6.7	4
120	MODELING HETEROSTRUCTURES WITH SCHRÖDINGER-POISSON-NAVIER ITERATIVE SCHEMES, EFFECT OF CARRIER CHARGE, AND INFLUENCE OF ELECTROMECHANICAL COUPLING. Nano, 2012, 07, 1250031.	1.0	4
121	Modelling of optical transport behavior of organic photovoltaic devices with nano-pillar transparent conducting electrodes. Journal of Applied Physics, 2014, 116, 074504.	2.5	4
122	Strength and fatigue life evaluation of composite laminate with embedded sensors. , 2014, , .		4
123	Evaluation of Polyvinylidene Fluoride Nasal Sensor to Assess Deviated Nasal Septum in Comparison with Peak Nasal Inspiratory Flow Measurements. American Journal of Rhinology and Allergy, 2014, 28, e62-e67.	2.0	4
124	Photonic monitoring of chitosan nanostructured alginate microcapsules for drug release. , 2015, , .		4
125	Light trapping in photovoltaic devices with weak dielectric absorbers: Nanostructured dielectric and metal interfaces. Optical Materials, 2019, 89, 288-294.	3.6	4
126	Transient Vibro-Thermography and Nonlinear Resonant Modes. Journal of Vibration and Acoustics, Transactions of the ASME, 2020, 142, .	1.6	4

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127	Identification of delaminations in composite: structural health monitoring software based on spectral estimation and hierarchical genetic algorithm. , 2003, 5062, 720.		3
128	Linear phased array of piezoelectric transducers for delamination monitoring in a composite laminate using Lamb waves. Proceedings of SPIE, 2011, , .	0.8	3
129	Ultrasonic performance of the PVDF thin film sensors under thermal fatigue. Proceedings of SPIE, 2012, , .	0.8	3
130	Guided-wave-based damage detection in a composite T-joint using 3D scanning laser Doppler vibrometer. Proceedings of SPIE, 2012, , .	0.8	3
131	Ultrasonic guided wave characterization and damage detection in foam-core sandwich panel using PWAS and LDV. , 2012, , .		3
132	Photonic hydrogel beads for controlled release of risedronate. , 2014, , .		3
133	Validation of polyvinylidene fluoride nasal sensor to assess nasal obstruction in comparison with subjective technique. American Journal of Otolaryngology - Head and Neck Medicine and Surgery, 2015, 36, 122-129.	1.3	3
134	Efeitos da terapia combinada com �cido zoledr�nico e propranolol na resist�ncia mec�nica em um modelo de rato com osteoporose por desuso. Revista Brasileira De Reumatologia, 2015, 55, 501-511.	0.8	3
135	Modal Analysis of Power Electronics Module of Spacecraft and its Health Monitoring � An Approach. Procedia Engineering, 2016, 144, 283-288.	1.2	3
136	Morphing Airfoil with Thermally Activated SMA Actuators. ISSS Journal of Micro and Smart Systems, 2017, 6, 29-45.	2.0	3
137	Optimization of a Diaphragm for a Micro-Shock Tube-Based Drug Delivery Method. Bioengineering, 2017, 4, 24.	3.5	3
138	Embedded silicon nanocrystal interface structure and strain. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	3
139	Multi-mode phonon controlled field emission from carbon nanotubes: Modeling and experiments. , 2007, , .		2
140	Constitutive modeling of shape memory alloy wire with non-local rate kinetics. Continuum Mechanics and Thermodynamics, 2009, 21, 1-15.	2.2	2
141	Analysis of Dynamic Stability of Space Launch Vehicles under Aerodynamic Forces Using CFD Derived Data. International Journal for Computational Methods in Engineering Science and Mechanics, 2011, 12, 213-224.	2.1	2
142	pH sensing by single and multi-layer hydrogel coated Fiber Bragg Grating. , 2012, , .		2
143	Large-area piezoceramic coating with IDT electrodes for ultrasonic sensing applications. , 2013, , .		2
144	A model of coupled thermal, mechanical, and electrostatic field effects in III-N thin film heterostructures. Journal of Applied Physics, 2013, 114, 044506.	2.5	2

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145	Ultrasonic guided wave sensing properties of PVDF thin film with inter digital electrodes. , 2014, , .		2
146	Effect of combined treatment with zoledronic acid and propranolol on mechanical strength in an rat model of disuse osteoporosis. Revista Brasileira De Reumatologia, 2015, 55, 501-511.	0.7	2
147	Shaping Resonant Light Confinement and Optoelectronic Spectra Using Strain in Hierarchical Multiscale Structures. Advanced Optical Materials, 2019, 7, 1900471.	7.3	2
148	Ultrahigh transverse rupture strength in tungsten-based nanocomposites with minimal lattice misfit and dual microstructure. International Journal of Refractory Metals and Hard Materials, 2021, 95, 105454.	3.8	2
149	Stochastic modeling of the polygonal microstructures of alloys using representative microscopic images. Materials Today Communications, 2021, 29, 102832.	1.9	2
150	Field enhancement in microfluidic semiconductor nanowire array. Biomicrofluidics, 2020, 14, 064102.	2.4	2
151	Active control of dispersive waves: coupling finite-dimensional control system using isospectra. , 2006, , .		1
152	Coupled electro-mechanical response of an electroactive polymer cantilever structure and its application in energy harvesting. Proceedings of SPIE, 2009, , .	0.8	1
153	Viscoelastic phenomenology based structure assignment for closed-loop vibration control of a beam with sensors and actuators. Proceedings of SPIE, 2009, , .	0.8	1
154	Wave propagation and bandgaps in a parametrically modulated composite laminate. Wave Motion, 2010, 47, 103-116.	2.0	1
155	Effect of Core-Shell Structure of Hydrogel Beads on the Threshold Concentration of Water for Swelling and its pH Sensitivity. , 2010, , .		1
156	Hydrodynamic Energy Harvesting Using an Ionic Polymer-Metal Composite Stack for Underwater Applications. , 2010, , .		1
157	COUPLED EFFECT OF STRAIN AND MAGNETIC FIELD ON ELECTRONIC BAND STRUCTURE OF GRAPHENE. International Journal of Nanoscience, 2011, 10, 345-349.	0.7	1
158	Self-actuating and self-diagnosing plastically deforming piezo-composite flapping wing MAV. , 2011, , .		1
159	Electronic band structure and photoemission spectra of graphene on silicon substrate. , 2014, , .		1
160	Shape memory alloy-based active chiral composite cells. Proceedings of SPIE, 2014, , .	0.8	1
161	Enhancement mechanism of fluorescence intensity in presence of plasmonic nanoparticles. Proceedings of SPIE, 2015, , .	0.8	1
162	Additive effect of zoledronic acid and alfacalcidol in the treatment of disuse osteoporosis in rats. Revista Brasileira De Reumatologia, 2015, 55, 240-250.	0.7	1

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163	Design of nanostructures for light management in organic photovoltaic devices. , 2016, , .		1
164	Optical diagnostics of osteoblast cells and osteogenic drug screening. Proceedings of SPIE, 2016, , .	0.8	1
165	Shape memory composite cellular plan-forms for shape and area morphing. ISSS Journal of Micro and Smart Systems, 2017, 6, 161-171.	2.0	1
166	Transient dynamic distributed strain sensing using photonic crystal waveguides. Applied Optics, 2017, 56, 7877.	1.8	1
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