

# 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  
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docs citations

211  
times ranked

3999  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrode Transport Layerâ€“Metal Electrode Interface Morphology Tailoring for Enhancing the Performance of Perovskite Solar Cells. ACS Applied Electronic Materials, 2022, 4, 689-697.	4.3	13
2	Role of electrodes on perovskite solar cells performance: A review. ISSS Journal of Micro and Smart Systems, 2022, 11, 61-79.	2.0	9
3	Ultrasonic horn contact-induced transient anharmonic resonance effect on vibro-thermography. Journal of Sound and Vibration, 2022, 525, 116786.	3.9	5
4	Nanomaterials in Optoelectronics. Energy Systems in Electrical Engineering, 2022, , 29-41.	0.7	0
5	Introduction to Photovoltaic Devices. Energy Systems in Electrical Engineering, 2022, , 43-69.	0.7	0
6	Fluid-thermo-structural response of actively cooled scramjet combustor in hypersonic accelerating-cruise flight. International Journal of Heat and Mass Transfer, 2022, 194, 123060.	4.8	12
7	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
8	Mechanical and Acoustic Behavior of 3Dâ€“Printed Hierarchical Mathematical Fractal Menger Sponge. Advanced Engineering Materials, 2021, 23, 2001471.	3.5	32
9	Monitoring microbial growth on a microfluidic lab-on-chip with electrochemical impedance spectroscopic technique. Biomedical Microdevices, 2021, 23, 26.	2.8	8
10	Hermetic Sealed Perovskite Solar Cells: Water Stable Encapsulation. , 2021, , .		0
11	Stochastic modeling of the polygonal microstructures of alloys using representative microscopic images. Materials Today Communications, 2021, 29, 102832.	1.9	2
12	Laser-assisted graphene layer exfoliation from graphite slab. Molecular Simulation, 2021, 47, 1540-1548.	2.0	0
13	Micromechanical effect of pores on elastic properties of polymer matrix composites. Polymer Composites, 2021, 42, 1497-1518.	4.6	7
14	Shear exfoliation synthesis of large-scale graphene-reinforced nanofibers. Carbon, 2020, 166, 405-413.	10.3	9
15	Ionic Diffusion and Drug Release Behavior of Coreâ€“Shell-Functionalized Alginateâ€“Chitosan-Based Hydrogel. ACS Omega, 2020, 5, 758-765.	3.5	20
16	Pathogenic Escherichia coli (E. coli) detection through tuned nanoparticles enhancement study. Biotechnology Letters, 2020, 42, 853-863.	2.2	19
17	Ultrasonic guided wave scattering due to delamination in curved composite structures. Composite Structures, 2020, 239, 111987.	5.8	22
18	Review on electrochemical sensing strategies for C-reactive protein and cardiac troponin I detection. Microchemical Journal, 2020, 156, 104857.	4.5	47

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19	Transient Vibro-Thermography and Nonlinear Resonant Modes. Journal of Vibration and Acoustics, Transactions of the ASME, 2020, 142, .	1.6	4
20	Field enhancement in microfluidic semiconductor nanowire array. Biomicrofluidics, 2020, 14, 064102.	2.4	2
21	Shaping Resonant Light Confinement and Optoelectronic Spectra Using Strain in Hierarchical Multiscale Structures. Advanced Optical Materials, 2019, 7, 1900471.	7.3	2
22	Recent advances in electrochemical nonenzymatic hydrogen peroxide sensors based on nanomaterials: a review. Journal of Materials Science, 2019, 54, 12319-12357.	3.7	135
23	Effect of intrinsic structural defects on mechanical properties of single layer MoS2. Nano Structures Nano Objects, 2019, 18, 100247.	3.5	23
24	Light trapping in photovoltaic devices with weak dielectric absorbers: Nanostructured dielectric and metal interfaces. Optical Materials, 2019, 89, 288-294.	3.6	4
25	Enhancing mechanical properties of glass fabric composite with surfactant treated zirconia nanoparticles. Composites Part A: Applied Science and Manufacturing, 2019, 118, 131-141.	7.6	15
26	Modeling and simulation of vibro-thermography including nonlinear contact dynamics of ultrasonic actuator. Ultrasonics, 2019, 93, 81-92.	3.9	16
27	Ultrasonic Lamb wave sensitivity of P(VDF-TrFE) thin films. ISSS Journal of Micro and Smart Systems, 2018, 7, 35-43.	2.0	7
28	Embedded silicon nanocrystal interface structure and strain. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	3
29	Moldable biomimetic nanoscale optoelectronic platforms for simultaneous enhancement in optical absorption and charge transport. Nanoscale, 2018, 10, 3730-3737.	5.6	11
30	Graphene Oxide—A Tool for the Preparation of Chemically Crosslinking Free Alginate—Chitosan—Collagen Scaffolds for Bone Tissue Engineering. ACS Applied Materials & Interfaces, 2018, 10, 12441-12452.	8.0	152
31	Multi-layer graphene reinforced aluminum — Manufacturing of high strength composite by friction stir alloying. Composites Part B: Engineering, 2018, 136, 63-71.	12.0	134
32	Electrochemical nonenzymatic sensing of glucose using advanced nanomaterials. Mikrochimica Acta, 2018, 185, 49.	5.0	166
33	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
34	FPGA based Ultrasonic thickness measuring device. , 2018, , .		0
35	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
36	Lamb wave interaction with composite delamination. Composite Structures, 2018, 206, 484-498.	5.8	69

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37	Hierarchical structures and multiscale optical coupling for improved photodetectors. , 2018, , .		0
38	A review of micromechanics based models for effective elastic properties of reinforced polymer matrix composites. Composite Structures, 2018, 204, 607-619.	5.8	98
39	Lattice orientation and crack size effect on the mechanical properties of Graphene. International Journal of Fracture, 2017, 203, 81-98.	2.2	31
40	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
41	Stable configurations of graphene on silicon. Applied Surface Science, 2017, 414, 25-33.	6.1	10
42	Morphing Airfoil with Thermally Activated SMA Actuators. ISSS Journal of Micro and Smart Systems, 2017, 6, 29-45.	2.0	3
43	Integration of Non-Destructive Evaluation-based Ultrasonic Simulation: A means for simulation in structural health monitoring. Structural Health Monitoring, 2017, 16, 611-629.	7.5	10
44	Nature Inspired Strategy to Enhance Mechanical Properties via Liquid Reinforcement. Advanced Materials Interfaces, 2017, 4, 1700240.	3.7	30
45	Ultrasonic guided wave sensing characteristics of large area thin piezo coating. Smart Materials and Structures, 2017, 26, 105009.	3.5	7
46	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
47	Optimization of a Diaphragm for a Micro-Shock Tube-Based Drug Delivery Method. Bioengineering, 2017, 4, 24.	3.5	3
48	Transient dynamic distributed strain sensing using photonic crystal waveguides. Applied Optics, 2017, 56, 7877.	1.8	1
49	Design of Thermal Barrier Coating System for Scramjet using Coupled Thermo-Structural Analysis. Transactions of the Indian Ceramic Society, 2016, 75, 242-249.	1.0	9
50	Understanding coupled electro-thermal processes in the catastrophic failure of organic electronic devices. Organic Electronics, 2016, 39, 354-360.	2.6	5
51	Design of nanostructures for light management in organic photovoltaic devices. , 2016, , .		1
52	Laser Doppler imaging of delamination in a composite T-joint with remotely located ultrasonic actuators. Composite Structures, 2016, 147, 197-210.	5.8	23
53	Modal Analysis of Power Electronics Module of Spacecraft and its Health Monitoring – An Approach. Procedia Engineering, 2016, 144, 283-288.	1.2	3
54	Mechanical properties of Graphene: Molecular dynamics simulations correlated to continuum based scaling laws. Computational Materials Science, 2016, 125, 319-327.	3.0	42

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55	Nanostructure-based enhancement of performance in thin-film photovoltaic devices. , 2016, , .		0
56	Magnetic nanoparticles for thermal lysis and application in cancer treatment. Proceedings of SPIE, 2016, , .	0.8	0
57	Optical diagnostics of osteoblast cells and osteogenic drug screening. Proceedings of SPIE, 2016, , .	0.8	1
58	Risedronate/zinc-hydroxyapatite based nanomedicine for osteoporosis. Materials Science and Engineering C, 2016, 63, 78-87.	7.3	50
59	Plasmonic nanoparticle interaction with cell membrane for diagnostic applications. , 2015, , .		0
60	Experimental Investigation on Metal Sandwich Panel for Hypersonic Cruise Vehicle Airframe with Active Cooling. , 2015, , .		0
61	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
62	Enhancement mechanism of fluorescence intensity in presence of plasmonic nanoparticles. Proceedings of SPIE, 2015, , .	0.8	1
63	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
64	Morphogenesis and mechanostabilization of complex natural and 3D printed shapes. Science Advances, 2015, 1, e1400052.	10.3	48
65	Mechanical properties of CNTs/Bisphenol E cyanate ester-based CFRP nanocomposite developed through VARTM process. Journal of Reinforced Plastics and Composites, 2015, 34, 1000-1014.	3.1	11
66	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
67	Optoelectronic properties of graphene on silicon substrate: effect of defects in graphene. , 2015, , .		0
68	Photonic monitoring of chitosan nanostructured alginate microcapsules for drug release. , 2015, , .		4
69	Understanding degradation phenomena in organic electronic devices. , 2015, , .		0
70	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
71	Crack propagation in graphene. Journal of Applied Physics, 2015, 118, , .	2.5	68
72	Efeitos combinados do Ácido zoledrÁnico e do propranolol sobre a densidade Ássea e marcadores bioquÁmicos de remodelaÁo Ássea em ratas osteopÁnicas submetidas Á ovariectomia. Revista Brasileira De Reumatologia, 2015, 55, 103-112.	0.8	7

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73	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
74	A meshless adaptive multiscale method for fracture. Computational Materials Science, 2015, 96, 382-395.	3.0	71
75	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
76	The Combination Therapy with Zoledronic Acid and Propranolol Improves the Trabecular Microarchitecture and Mechanical Property in an Rat Model of Postmenopausal Osteoporosis. Journal of Osteoporosis, 2014, 2014, 1-10.	0.5	12
77	Prophylactic Effects of Propranolol Versus the Standard Therapy on a New Model of Disuse Osteoporosis in Rats. Scientia Pharmaceutica, 2014, 82, 357-374.	2.0	19
78	Ultrasonic guided wave sensing properties of PVDF thin film with inter digital electrodes. , 2014, , .		2
79	Photonic hydrogel beads for controlled release of risedronate. , 2014, , .		3
80	Transient dynamic distributed strain sensing using photonic crystal fibres. Proceedings of SPIE, 2014, , .	0.8	0
81	Localized morphological change-induced degradation in organic electronic devices. , 2014, , .		0
82	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
83	Electronic band structure and photoemission spectra of graphene on silicon substrate. , 2014, , .		1
84	Molecular dynamics study of phonon screening in graphene. , 2014, , .		0
85	Detection of target DNA using photo-reactive protoporphyrin moiety on a nanocomposite substrate. , 2014, , .		0
86	Strength and fatigue life evaluation of composite laminate with embedded sensors. , 2014, , .		4
87	Vibration analysis of multi-walled carbon nanotubes embedded in elastic medium. Frontiers of Structural and Civil Engineering, 2014, 8, 151-159.	2.9	60
88	Numerical Analysis of the Inclusion-Crack Interaction by the Extended Finite Element Method. International Journal for Computational Methods in Engineering Science and Mechanics, 2014, 15, 26-32.	2.1	22
89	Zoledronic acid in combination with alfacalcidol has additive effects on trabecular microarchitecture and mechanical properties in osteopenic ovariectomized rats. Journal of Orthopaedic Science, 2014, 19, 646-656.	1.1	18
90	Interfacial stresses in shape memory alloy-reinforced composites. Proceedings of SPIE, 2014, , .	0.8	0

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91	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
92	Estimation of fatigue damage parameters using guided wave technique. , 2014, , .		0
93	A Novel Active Vibration Control Design Methodology using Viscoelastic Constitutive Model. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1072-1079.	0.4	0
94	Shape memory alloy-based active chiral composite cells. Proceedings of SPIE, 2014, , .	0.8	1
95	Osteoprotective effect of propranolol in ovariectomized rats: a comparison with zoledronic acid and alfacalcidol. Journal of Orthopaedic Science, 2013, 18, 832-842.	1.1	31
96	Identification of different respiratory rate by a piezo polymer based nasal sensor. , 2013, , .		5
97	Polyvinylidene fluoride film based nasal sensor to monitor human respiration pattern: An initial clinical study. Journal of Clinical Monitoring and Computing, 2013, 27, 647-657.	1.6	29
98	Sensitivity of polyvinylidene fluoride films to mechanical vibration modes and impact after optimizing stretching conditions. Polymer Engineering and Science, 2013, 53, 707-715.	3.1	21
99	Mechanism of Cell Lysis in Microfluidic Channel With Integrated Nanocomposite Electrodes. , 2013, , .		0
100	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
101	Charge injection through nanocomposite electrode in microfluidic channel for electrical lysis of biological cells. , 2013, , .		0
102	Large-area piezoceramic coating with IDT electrodes for ultrasonic sensing applications. , 2013, , .		2
103	pH induced switching in hydrogel coated fiber Bragg grating sensor. Proceedings of SPIE, 2013, , .	0.8	0
104	Electromagnetic characteristics of Polyaniline/SWCNT composites. , 2013, , .		0
105	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
106	Guided ultrasonic wave propagation through inaccessible damage in a folded plate using sensor-actuator network. Proceedings of SPIE, 2013, , .	0.8	0
107	Ultrasonic performance of the PVDF thin film sensors under thermal fatigue. Proceedings of SPIE, 2012, , .	0.8	3
108	Electromagnetic characteristics of carbon nanotubes with strain. Proceedings of SPIE, 2012, , .	0.8	0

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109	Guided-wave-based damage detection in a composite T-joint using 3D scanning laser Doppler vibrometer. Proceedings of SPIE, 2012, , .	0.8	3
110	Ultrasonic guided wave characterization and damage detection in foam-core sandwich panel using PWAS and LDV. , 2012, , .		3
111	Carbon nanotube based composite fibers for strain sensing, signal processing, and computing. Proceedings of SPIE, 2012, , .	0.8	0
112	pH sensing by single and multi-layer hydrogel coated Fiber Bragg Grating. , 2012, , .		2
113	MODELING HETEROSTRUCTURES WITH SCHRÖDINGER-POISSON-NAVIER ITERATIVE SCHEMES, EFFECT OF CARRIER CHARGE, AND INFLUENCE OF ELECTROMECHANICAL COUPLING. Nano, 2012, 07, 1250031.	1.0	4
114	Effect of length scale on mechanical properties of Al-Cu eutectic alloy. Applied Physics Letters, 2012, 101, .	3.3	28
115	Temperature- and pressure-induced solid-solid $\alpha$ to $\beta$ reorientation in FCC metallic nanowire: a molecular dynamic study. Journal of Physics Condensed Matter, 2012, 24, 015401.	1.8	13
116	Descrição de um novo método de ooforectomia em ratas. Revista Brasileira De Reumatologia, 2012, 52, 466-470.	0.8	67
117	Guided wave based detection of damage in honeycomb core sandwich structures. NDT and E International, 2012, 49, 27-33.	3.7	38
118	Description of a new method of ovariectomy in female rats. Revista Brasileira De Reumatologia, 2012, 52, 462-70.	0.8	28
119	Universal Stability and Temperature Dependent Phase Transformation in Group VIII-IB Transition Metal FCC Nanowires. Journal of Physical Chemistry C, 2011, 115, 10394-10398.	3.1	15
120	Lamb wave based detection of damage in a stiffener bonded to a plate. Proceedings of SPIE, 2011, , .	0.8	0
121	Degradation and Failure of Field Emitting Carbon Nanotube Arrays. Journal of Nanoscience and Nanotechnology, 2011, 11, 3911-3915.	0.9	5
122	COUPLED EFFECT OF STRAIN AND MAGNETIC FIELD ON ELECTRONIC BAND STRUCTURE OF GRAPHENE. International Journal of Nanoscience, 2011, 10, 345-349.	0.7	1
123	Size and temperature dependent stability and phase transformation in single-crystal zirconium nanowire. Journal of Nanoparticle Research, 2011, 13, 5335-5346.	1.9	9
124	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
125	On the performance of strain smoothing for quadratic and enriched finite element approximations (XFEM/GFEM/PUFEM). International Journal for Numerical Methods in Engineering, 2011, 86, 637-666.	2.8	142
126	Ultrasonic wave characteristics of a monolayer graphene on silicon substrate. Composite Structures, 2011, 93, 1997-2009.	5.8	16



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127	Prediction of nonlocal scaling parameter for armchair and zigzag single-walled carbon nanotubes based on molecular structural mechanics, nonlocal elasticity and wave propagation. International Journal of Engineering Science, 2011, 49, 509-522.	5.0	88
128	Ultrasonic Lamb wave based monitoring of corrosion type of damage in plate using a circular array of piezoelectric transducers. NDT and E International, 2011, 44, 628-636.	3.7	77
129	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
130	Magneto-resistance of flexible CNT-Fe composite thin films in a dynamic electric field. , 2011, , .		0
131	Linear phased array of piezoelectric transducers for delamination monitoring in a composite laminate using Lamb waves. Proceedings of SPIE, 2011, , .	0.8	3
132	Electromechanical fatigue in IPMC under dynamic energy harvesting conditions. , 2011, , .		0
133	Self-actuating and self-diagnosing plastically deforming piezo-composite flapping wing MAV. , 2011, , .		1
134	Drugs for the management of osteoporosis: a review. Revista Brasileira De Reumatologia, 2011, 51, 365-71, 379-82.	0.8	19
135	Field Emission Efficiency of a Carbon Nanotube Array Under Parasitic Nonlinearities. , 2010, , .		0
136	Gyrosonics: Signature Analysis and Reduced-Order Models. , 2010, , .		0
137	Structural stability of slender aerospace vehicles: Part II. International Journal of Mechanical Sciences, 2010, 52, 1145-1157.	6.7	4
138	Superplasticity in intermetallic NiAl nanowires via atomistic simulations. Materials Letters, 2010, 64, 879-881.	2.6	14
139	Integrating strong and weak discontinuities without integration subcells and example applications in an XFEM/GFEM framework. International Journal for Numerical Methods in Engineering, 2010, 83, 269-294.	2.8	102
140	Characterization of a large-area PVDF thin film for electro-mechanical and ultrasonic sensing applications. Sensors and Actuators A: Physical, 2010, 163, 164-171.	4.1	94
141	Structural stability of slender aerospace vehicles: Part I. International Journal of Mechanical Sciences, 2010, 52, 937-951.	6.7	7
142	Wave propagation and bandgaps in a parametrically modulated composite laminate. Wave Motion, 2010, 47, 103-116.	2.0	1
143	Rapid localization of damage using a circular sensor array and Lamb wave based triangulation. Mechanical Systems and Signal Processing, 2010, 24, 2929-2946.	8.0	84
144	Detailed studies on the formation of piezoelectric $\hat{\Gamma}^2$ -phase of PVDF at different hot-stretching conditions. Proceedings of SPIE, 2010, , .	0.8	10

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145	Modeling the interface effect of shape memory alloy composite materials. Multidiscipline Modeling in Materials and Structures, 2010, 6, 257-283.	1.3	6
146	Effect of Core-Shell Structure of Hydrogel Beads on the Threshold Concentration of Water for Swelling and its pH Sensitivity. , 2010, , .		1
147	Modeling of Cohesive Zone and Crack Growth in Ni-Al Thin-Film Using MD-XFEM Based Approach. , 2010, , .		0
148	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
149	Energy harvesting using ionic electro-active polymer thin films with Ag-based electrodes. Smart Materials and Structures, 2010, 19, 045026.	3.5	37
150	Single and multi-step phase transformation in CuZr nanowire under compressive/tensile loading. Intermetallics, 2010, 18, 679-687.	3.9	46
151	Asymmetry in structural and thermo-mechanical behavior of intermetallic NiAl nanowire under tensile/compressive loading: A molecular dynamics study. Intermetallics, 2010, 18, 1565-1571.	3.9	18
152	Investigation of the effect of nonlocal scale on ultrasonic wave dispersion characteristics of a monolayer graphene. Computational Materials Science, 2010, 49, 734-742.	3.0	34
153	Hydrodynamic Energy Harvesting Using an Ionic Polymer-Metal Composite Stack for Underwater Applications. , 2010, , .		1
154	LAMB WAVE BASED MONITORING OF PLATE-STIFFENER DEBODING USING A CIRCULAR ARRAY OF PIEZOELECTRIC SENSORS. International Journal on Smart Sensing and Intelligent Systems, 2010, 3, 27-44.	0.7	11
155	Characterization Of Cracks And Delaminations Using Pwas Ad Lamb Wave Based Time-Frequency Methods. International Journal on Smart Sensing and Intelligent Systems, 2010, 3, 703-735.	0.7	10
156	Stress-induced phase transformation and pseudo-elastic/pseudo-plastic recovery in intermetallic Ni-Al nanowires. Nanotechnology, 2009, 20, 295705.	2.6	14
157	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
158	Enhancing field emission from a carbon nanotube array by lateral control of electrodynamic force field. Molecular Simulation, 2009, 35, 512-519.	2.0	5
159	Coupled effect of size, strain rate, and temperature on the shape memory of a pentagonal Cu nanowire. Nanotechnology, 2009, 20, 045701.	2.6	36
160	The dynamics of polymerized carbon nanotubes in semiconductor polymer electronics and electro-mechanical sensing. Nanotechnology, 2009, 20, 145707.	2.6	5
161	Coupled electro-mechanical response of an electroactive polymer cantilever structure and its application in energy harvesting. Proceedings of SPIE, 2009, , .	0.8	1
162	Stress-induced martensitic phase transformation in Cu-Zr nanowires. Materials Letters, 2009, 63, 1289-1292.	2.6	41

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163	Numerical integration over arbitrary polygonal domains based on Schwarzâ€“Christoffel conformal mapping. International Journal for Numerical Methods in Engineering, 2009, 80, 103-134.	2.8	158
164	Wave propagation in elastic solids undergoing damage and growth process. Acta Mechanica, 2009, 203, 163-181.	2.1	5
165	Constitutive modeling of shape memory alloy wire with non-local rate kinetics. Continuum Mechanics and Thermodynamics, 2009, 21, 1-15.	2.2	2
166	On the sensitivity of elastic waves due to structural damages: Timeâ€“frequency based indexing method. Journal of Sound and Vibration, 2009, 320, 915-941.	3.9	37
167	Quasi-static and dynamic strain sensing using carbon nanotube/epoxy nanocomposite thin films. Smart Materials and Structures, 2009, 18, 045013.	3.5	44
168	Effects of phase inhomogeneity and boundary conditions on the dynamic response of SMA wire actuators. , 2009, , .		0
169	Electrical and magneto-resistance of Co/CNT/Epoxy thin film for strain and magnetic field sensing. , 2009, , .		0
170	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
171	Viscoelastic phenomenology based structure assignment for closed-loop vibration control of a beam with sensors and actuators. Proceedings of SPIE, 2009, , .	0.8	1
172	Formation of stable ultra-thin pentagon Cu nanowires under high strain rate loading. Journal of Physics Condensed Matter, 2008, 20, 335206.	1.8	30
173	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
174	Electromechanical interactions in a carbon nanotube based thin film field emitting diode. Nanotechnology, 2008, 19, 025701.	2.6	13
175	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
176	Analysis of Wave Propagation in Beams With Transverse and Lateral Cracks Using a Weakly Formulated Spectral Method. Journal of Applied Mechanics, Transactions ASME, 2007, 74, 119-127.	2.2	19
177	Multi-mode phonon controlled field emission from carbon nanotubes: Modeling and experiments. , 2007, , .		2
178	The partition of unity finite element method for elastic wave propagation in Reissnerâ€“Mindlin plates. International Journal for Numerical Methods in Engineering, 2007, 70, 1451-1479.	2.8	9
179	Coupled nonlinear effects in modeling field emission from CNTs. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 1030801-1030802.	0.2	0
180	Carbon Nanotube Thin Film Field Emitting Diode: Understanding the System Response Based on Multiphysics Modeling. Journal of Computational and Theoretical Nanoscience, 2007, 4, 535-549.	0.4	12

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181	Active control of dispersive waves: coupling finite-dimensional control system using isospectra. , 2006, , .		1
182	A higher-order finite waveguide model for spectral analysis of composite structures. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 1116-1135.	6.6	11
183	Equivalent constitutive model-based design of wave-absorbing material system and controller. Journal of Sound and Vibration, 2006, 289, 509-528.	3.9	5
184	Estimation of Dynamic Fracture Parameters in a Transverse Cracked Composite Beam using a Simplified Diagnostic Wave Propagation Model. Structural Health Monitoring, 2006, 5, 99-124.	7.5	9
185	Analysis of Constrained Piezoelectric Layer: A Two-Dimensional Coupled Electromechanical Model. Ferroelectrics, 2005, 329, 131-137.	0.6	4
186	Estimation of degraded composite laminate properties using acoustic wave propagation model and a reductionâ€prediction network. Engineering Computations, 2005, 22, 849-876.	1.4	6
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188	A refined higher order finite element for asymmetric composite beams. Composite Structures, 2005, 67, 27-35.	5.8	87
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