

# Quan Wang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

262  
papers

11,657  
citations

60  
h-index

98  
g-index

274  
ext. papers

12,982  
ext. citations

4.7  
avg. IF

7.18  
L-index

#	Paper	IF	Citations
262	An investigation on a cylinder harvester made of piezoelectric coupled torsional beams. <i>Energy Conversion and Management</i> , <b>2022</b> , 251, 114857	10.6	4
261	Experimental Study on Hydroelectric Energy Harvester Based on a Hybrid Qiqi and Turbine Structure. <i>Energies</i> , <b>2021</b> , 14, 7601	3.1	0
260	Hand-held piezoelectric energy harvesting structure: Design, dynamic analysis, and experimental validation. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2021</b> , 174, 109011	4.6	5
259	Review on engineering structural designs for efficient piezoelectric energy harvesting to obtain high power output. <i>Engineering Structures</i> , <b>2021</b> , 235, 112068	4.7	25
258	Load path-guided fiber trajectory in composite panels: A comparative study and a novel combined method. <i>Composite Structures</i> , <b>2021</b> , 263, 113689	5.3	2
257	Cement-Based Piezoelectric Ceramic Composites for Sensing Elements: A Comprehensive State-of-the-Art Review. <i>Sensors</i> , <b>2021</b> , 21,	3.8	10
256	A rain energy harvester using a self-release tank. <i>Mechanical Systems and Signal Processing</i> , <b>2021</b> , 147, 107099	7.8	15
255	Experimental investigation of underwater locally multi-resonant metamaterials under high hydrostatic pressure for low frequency sound absorption. <i>Applied Acoustics</i> , <b>2021</b> , 172, 107605	3.1	14
254	A study on effects of stone thrower's defective carbon nanotubes on glass transition temperature of polymer composites using molecular dynamics simulations. <i>Computational Materials Science</i> , <b>2021</b> , 186, 110005	3.2	1
253	Bladeless rotational piezoelectric energy harvester for hydroelectric applications of ultra-low and wide-range flow rates. <i>Energy Conversion and Management</i> , <b>2021</b> , 227, 113619	10.6	6
252	Interplay between internal resonance and nonlinear magnetic interaction for multi-directional energy harvesting. <i>Energy Conversion and Management</i> , <b>2021</b> , 244, 114465	10.6	6
251	Role of carbon nanotube in reinforcing cementitious materials: An experimental and coarse-grained molecular dynamics study. <i>Cement and Concrete Research</i> , <b>2021</b> , 147, 106517	10.3	12
250	Influence of hydration capacity for cement matrix on the piezoelectric properties and microstructure of cement-based piezoelectric ceramic composites. <i>Materials Characterization</i> , <b>2021</b> , 179, 111390	3.9	3
249	Self-powered and plant-wearable hydrogel as LED power supply and sensor for promoting and monitoring plant growth in smart farming. <i>Chemical Engineering Journal</i> , <b>2021</b> , 422, 129499	14.7	13
248	Piezoelectric properties and microstructure of ceramic-concrete-based piezoelectric composites. <i>Ceramics International</i> , <b>2021</b> , 47, 29681-29687	5.1	5
247	High-Porosity Foam-Based Iontronic Pressure Sensor with Superhigh Sensitivity of 9280kPa. <i>Nano-Micro Letters</i> , <b>2021</b> , 14, 21	19.5	11
246	Protein Gel Phase Transition: Toward Superiorly Transparent and Hysteresis-Free Wearable Electronics. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910080	15.6	19

245	Development of a unified model to predict the axial stress-strain behavior of recycled aggregate concrete confined through spiral reinforcement. <i>Engineering Structures</i> , <b>2020</b> , 218, 110851	4.7	17
244	Highly Transparent and Flexible Iontronic Pressure Sensors Based on an Opaque to Transparent Transition. <i>Advanced Science</i> , <b>2020</b> , 7, 2000348	13.6	61
243	Frequency Comparison Function Method for Real-Time Identification of Breathing Crack at Welding Joint. <i>International Journal of Structural Stability and Dynamics</i> , <b>2020</b> , 20, 2041001	1.9	1
242	Transparent Protein Hydrogels: Protein Gel Phase Transition: Toward Superiorly Transparent and Hysteresis-Free Wearable Electronics (Adv. Funct. Mater. 27/2020). <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2070176	15.6	1
241	Large amplitude vibration of functionally graded graphene nanocomposite annular plates in thermal environments. <i>Composite Structures</i> , <b>2020</b> , 239, 112047	5.3	39
240	Novel Damage Detection Tool Based on Load Path Analysis Using Ustar (U*). <i>IEEE Access</i> , <b>2020</b> , 8, 82607-82616	3.3	163
239	Deep residual U-net with input of static structural responses for efficient U* load transfer path analysis. <i>Advanced Engineering Informatics</i> , <b>2020</b> , 46, 101184	7.4	4
238	Performance analysis of piezoelectric energy harvesters with a tip mass and nonlinearities of geometry and damping under parametric and external excitations. <i>Archive of Applied Mechanics</i> , <b>2020</b> , 90, 2297-2318	2.2	3
237	Small-scale experimental study on the optimisation of a rooftop rainwater energy harvester using electromagnetic generators in light rains. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 10778-10796	4.5	6
236	Modeling the behavior of bilayer shape memory alloy/functionally graded material beams considering asymmetric shape memory alloy response. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2020</b> , 31, 84-99	2.3	4
235	2D underwater acoustic metamaterials incorporating a combination of particle-filled polyurethane and spiral-based local resonance mechanisms. <i>Composite Structures</i> , <b>2019</b> , 220, 1-10	5.3	17
234	A piezoelectric hydro-energy harvester featuring a special container structure. <i>Energy</i> , <b>2019</b> , 189, 116267-9	4.9	18
233	Ionic liquid-activated wearable electronics. <i>Materials Today Physics</i> , <b>2019</b> , 8, 78-85	8	30
232	Vortex-induced vibrational tristable energy harvester: Design and experiments. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 531, 012011	0.4	3
231	A review on enhancement of mechanical and tribological properties of polymer composites reinforced by carbon nanotubes and graphene sheet: Molecular dynamics simulations. <i>Composites Part B: Engineering</i> , <b>2019</b> , 160, 348-361	10	98
230	A Novel Heaving Ocean Wave Energy Harvester with a Frequency Tuning Capability. <i>Arabian Journal for Science and Engineering</i> , <b>2019</b> , 44, 5711-5722	2.5	3
229	A noise-robust damage indicator for characterizing singularity of mode shapes for incipient delamination identification in CFRP laminates. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 121, 183-200	7.8	13
228	Elastic wave manipulation in piezoelectric beam meta-structure using electronic negative capacitance dual-adjacent/staggered connections. <i>Composite Structures</i> , <b>2019</b> , 210, 567-580	5.3	14

227	Free Vibration Analysis of a Nonlinearly Tapered Cone Beam by Adomian Decomposition Method. <i>International Journal of Structural Stability and Dynamics</i> , <b>2018</b> , 18, 1850101	1.9	14
226	Enhancement of fracture properties of polymer composites reinforced by carbon nanotubes: A molecular dynamics study. <i>Carbon</i> , <b>2018</b> , 129, 504-509	10.4	48
225	Development of an ocean wave energy harvester with a built-in frequency conversion function. <i>International Journal of Energy Research</i> , <b>2018</b> , 42, 684-695	4.5	12
224	A comparison study on mechanical properties of polymer composites reinforced by carbon nanotubes and graphene sheet. <i>Composites Part B: Engineering</i> , <b>2018</b> , 133, 35-41	10	108
223	Ocean wave energy pitching harvester with a frequency tuning capability. <i>Energy</i> , <b>2018</b> , 162, 603-617	7.9	29
222	Molecular Dynamics Simulations of Thermal Properties of Polymer Composites Enhanced by Cross-Linked Graphene Sheets. <i>Acta Mechanica Solida Sinica</i> , <b>2018</b> , 31, 673-682	2	7
221	Nonlocal magneto-thermo-vibro-elastic analysis of vertically aligned arrays of single-walled carbon nanotubes. <i>European Journal of Mechanics, A/Solids</i> , <b>2018</b> , 72, 497-515	3.7	7
220	On the snap-through instability of post-buckled FG-CNTRC rectangular plates with integrated piezoelectric layers. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2018</b> , 331, 53-71	5.7	37
219	Snubbing effect in atomic scale friction of graphene. <i>Composites Part B: Engineering</i> , <b>2018</b> , 136, 119-125	10	3
218	Vibration analysis of non-uniform tapered beams with nonlinear FGM properties. <i>Journal of Mechanical Science and Technology</i> , <b>2018</b> , 32, 5325-5337	1.6	6
217	Supercapacitor with extraordinary cycling stability and high rate from nano-architected polyaniline/graphene on Janus nanofibrous film with shape memory. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 21064-21077	13	43
216	A new nonlinearly tapered FGM piezoelectric energy harvester. <i>Engineering Structures</i> , <b>2018</b> , 173, 52-60	4.7	25
215	Crack identification through scan-tuning of vibration characteristics using piezoelectric materials. <i>Smart Materials and Structures</i> , <b>2017</b> , 26, 025005	3.4	3
214	An octo-generator for energy harvesting based on the piezoelectric effect. <i>Applied Ocean Research</i> , <b>2017</b> , 64, 128-134	3.4	14
213	An efficient piezoelectric energy harvester with frequency self-tuning. <i>Journal of Sound and Vibration</i> , <b>2017</b> , 396, 69-82	3.9	29
212	A numerical study on flow-induced instabilities of supersonic FG-CNT reinforced composite flat panels in thermal environments. <i>Composite Structures</i> , <b>2017</b> , 171, 113-125	5.3	47
211	A theoretical model for a piezoelectric energy harvester with a tapered shape. <i>Engineering Structures</i> , <b>2017</b> , 144, 19-25	4.7	36
210	Skin-Inspired Multifunctional Autonomic-Intrinsic Conductive Self-Healing Hydrogels with Pressure Sensitivity, Stretchability, and 3D Printability. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700533	24	434

209	Enhanced tribological properties of polymer composites by incorporation of nano-SiO <sub>2</sub> particles: A molecular dynamics simulation study. <i>Computational Materials Science</i> , <b>2017</b> , 134, 93-99	3.2	28
208	Polyaniline nanoflowers grown on vibration-isolator-mimetic polyurethane nanofibers for flexible supercapacitors with prolonged cycle life. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 7933-7943	13	32
207	Enhancement of tribological properties of polymer composites reinforced by functionalized graphene. <i>Composites Part B: Engineering</i> , <b>2017</b> , 120, 83-91	10	68
206	Dynamic stability analysis of a pressurized FG-CNTRC cylindrical shell interacting with supersonic airflow. <i>Composites Part B: Engineering</i> , <b>2017</b> , 118, 15-25	10	60
205	Energy harvesting from wind by a piezoelectric harvester. <i>Engineering Structures</i> , <b>2017</b> , 133, 74-80	4.7	60
204	Reinforcing mechanism of graphene at atomic level: Friction, crack surface adhesion and 2D geometry. <i>Carbon</i> , <b>2017</b> , 114, 557-565	10.4	65
203	Large amplitude vibration of FG-CNT reinforced composite annular plates with integrated piezoelectric layers on elastic foundation. <i>Thin-Walled Structures</i> , <b>2017</b> , 120, 203-214	4.7	59
202	A study on an ocean wave energy harvester made of a composite piezoelectric buoy structure. <i>Composite Structures</i> , <b>2017</b> , 178, 447-454	5.3	21
201	Postbuckling analysis of smart FG-CNTRC annular sector plates with surface-bonded piezoelectric layers using generalized differential quadrature method. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2017</b> , 325, 689-710	5.7	52
200	A review on energy harvesting from ocean waves by piezoelectric technology <b>2017</b> , 1,		11
199	A molecular dynamics simulation study on enhancement of mechanical and tribological properties of polymer composites by introduction of graphene. <i>Carbon</i> , <b>2017</b> , 111, 538-545	10.4	92
198	An investigation on the aeroelastic flutter characteristics of FG-CNTRC beams in the supersonic flow. <i>Composites Part B: Engineering</i> , <b>2017</b> , 116, 486-499	10	47
197	A study on a high efficient cylinder composite piezoelectric energy harvester. <i>Composite Structures</i> , <b>2017</b> , 161, 237-245	5.3	23
196	Buckling and vibration analysis of a pressurized CNT reinforced functionally graded truncated conical shell under an axial compression using HDQ method. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2016</b> , 303, 75-100	5.7	106
195	Damage Detection of Beams by a Vibration Characteristic Tuning Technique Through an Optimal Design of Piezoelectric Layers. <i>International Journal of Structural Stability and Dynamics</i> , <b>2016</b> , 16, 1550078	1.0	12
194	A study on tribology of nitrile-butadiene rubber composites by incorporation of carbon nanotubes: Molecular dynamics simulations. <i>Carbon</i> , <b>2016</b> , 100, 145-150	10.4	39
193	Nonlinear aero-thermal flutter postponement of supersonic laminated composite beams with shape memory alloys. <i>European Journal of Mechanics, A/Solids</i> , <b>2016</b> , 57, 18-28	3.7	50
192	On dynamic instability of a pressurized functionally graded carbon nanotube reinforced truncated conical shell subjected to yawed supersonic airflow. <i>Composite Structures</i> , <b>2016</b> , 153, 938-951	5.3	59

191	Design of a piezoelectric harvester fixed under the roof of a high-rise building. <i>Engineering Structures</i> , <b>2016</b> , 117, 1-9	4.7	25
190	The effect of sliding velocity on the tribological properties of polymer/carbon nanotube composites. <i>Carbon</i> , <b>2016</b> , 106, 106-109	10.4	21
189	Effective Young's modulus of carbon nanotube/epoxy composites. <i>Composites Part B: Engineering</i> , <b>2016</b> , 94, 160-166	10	25
188	Flexible Electrode Design: Fabrication of Freestanding Polyaniline-Based Composite Films for High-Performance Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 11379-89	9.5	69
187	Molecular dynamics simulations of tribology properties of NBR (Nitrile-Butadiene Rubber) /carbon nanotube composites. <i>Composites Part B: Engineering</i> , <b>2016</b> , 97, 62-67	10	36
186	Energy harvesting from ocean waves by a floating energy harvester. <i>Energy</i> , <b>2016</b> , 112, 1219-1226	7.9	76
185	A mathematical model for piezoelectric ring energy harvesting technology from vehicle tires. <i>International Journal of Engineering Science</i> , <b>2015</b> , 94, 113-127	5.7	43
184	Energy harvesting from a vehicle suspension system. <i>Energy</i> , <b>2015</b> , 86, 385-392	7.9	123
183	Nonlinear thermo-inertial instability of functionally graded shape memory alloy sandwich plates. <i>Composite Structures</i> , <b>2015</b> , 120, 496-508	5.3	40
182	A high-capacitance solid-state supercapacitor based on free-standing film of polyaniline and carbon particles. <i>Applied Energy</i> , <b>2015</b> , 153, 87-93	10.7	67
181	Energy harvesting from high-rise buildings by a piezoelectric harvester device. <i>Energy</i> , <b>2015</b> , 93, 1345-1353	7.9	48
180	Gum Sensor: A Stretchable, Wearable, and Foldable Sensor Based on Carbon Nanotube/Chewing Gum Membrane. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 26195-205	9.5	66
179	Load sharing inside multi-layered graphene nanosheets under bending and tension. <i>Computational Materials Science</i> , <b>2015</b> , 110, 62-70	3.2	6
178	Flexible Cellulose-Based Films of Polyaniline/Graphene/Silver Nanowire for High-Performance Supercapacitors. <i>Journal of Nanotechnology in Engineering and Medicine</i> , <b>2015</b> , 6,		11
177	Ocean wave energy harvesting with a piezoelectric coupled buoy structure. <i>Applied Ocean Research</i> , <b>2015</b> , 50, 110-118	3.4	78
176	Mechanical properties of carbon nanotube/polymer composites. <i>Scientific Reports</i> , <b>2014</b> , 4, 6479	4.9	258
175	Energy harvesting from transverse ocean waves by a piezoelectric plate. <i>International Journal of Engineering Science</i> , <b>2014</b> , 81, 41-48	5.7	89
174	Potential of a piezoelectric energy harvester from sea waves. <i>Journal of Sound and Vibration</i> , <b>2014</b> , 333, 1421-1429	3.9	59

173	A review on applications of carbon nanotubes and graphenes as nano-resonator sensors. <i>Computational Materials Science</i> , <b>2014</b> , 82, 350-360	3.2	152
172	On nonconservativeness of Eringen's nonlocal elasticity in beam mechanics: correction from a discrete-based approach. <i>Archive of Applied Mechanics</i> , <b>2014</b> , 84, 1275-1292	2.2	128
171	Molecular separation with carbon nanotubes. <i>Computational Materials Science</i> , <b>2014</b> , 90, 50-55	3.2	5
170	A ring piezoelectric energy harvester excited by magnetic forces. <i>International Journal of Engineering Science</i> , <b>2014</b> , 77, 71-78	5.7	63
169	Nonlinear thermal stability of geometrically imperfect shape memory alloy hybrid laminated composite plates. <i>Smart Materials and Structures</i> , <b>2014</b> , 23, 075012	3.4	28
168	Nanoresonators in Sensors and Molecular Transportation: An Introduction to the Possibilities of Carbon Nanotubes and Graphene Sheets. <i>IEEE Nanotechnology Magazine</i> , <b>2014</b> , 8, 29-37	1.7	2
167	A high-capacitance solid-state supercapacitor based on polyaniline and ground carbon fibers <b>2014</b> ,		1
166	A Review on the Application of Nonlocal Elastic Models in Modeling of Carbon Nanotubes and Graphenes. <i>Springer Series in Materials Science</i> , <b>2014</b> , 57-82	0.9	14
165	Molecular simulations on separation of atoms with carbon nanotubes in torsion. <i>Computational Materials Science</i> , <b>2014</b> , 81, 280-283	3.2	6
164	Detection of gas atoms with carbon nanotubes. <i>Scientific Reports</i> , <b>2013</b> , 3,	4.9	55
163	Energy harvesting from high-rise buildings by a piezoelectric coupled cantilever with a proof mass. <i>International Journal of Engineering Science</i> , <b>2013</b> , 72, 98-106	5.7	61
162	Dispersion of a bundle of carbon nanotubes by mechanical torsional energy. <i>Carbon</i> , <b>2013</b> , 59, 229-236	10.4	5
161	Wind energy harvesting with a piezoelectric harvester. <i>Smart Materials and Structures</i> , <b>2013</b> , 22, 095023	3.4	60
160	On the interaction of a single-walled carbon nanotube with a moving nanoparticle using nonlocal Rayleigh, Timoshenko, and higher-order beam theories. <i>European Journal of Mechanics, A/Solids</i> , <b>2012</b> , 31, 179-202	3.7	63
159	Ejection of DNA molecules from carbon nanotubes. <i>Carbon</i> , <b>2012</b> , 50, 4945-4952	10.4	23
158	Detection of gas atoms with graphene sheets. <i>Computational Materials Science</i> , <b>2012</b> , 60, 245-249	3.2	20
157	A review on the application of nonlocal elastic models in modeling of carbon nanotubes and graphenes. <i>Computational Materials Science</i> , <b>2012</b> , 51, 303-313	3.2	431
156	Mechanical properties of platinum nanowires: An atomistic investigation on single-crystalline and twinned structures. <i>Computational Materials Science</i> , <b>2012</b> , 55, 205-210	3.2	23

155	A review on structural enhancement and repair using piezoelectric materials and shape memory alloys. <i>Smart Materials and Structures</i> , <b>2012</b> , 21, 013001	3-4	34
154	A study on interaction of DNA molecules and carbon nanotubes for an effective ejection of the molecules. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2012</b> , 376, 3267-3271	2-3	3
153	Modeling of vibrations of carbon nanotubes. <i>Procedia Engineering</i> , <b>2012</b> , 31, 343-347		36
152	Optimal design of a piezoelectric coupled beam for power harvesting. <i>Smart Materials and Structures</i> , <b>2012</b> , 21, 085013	3-4	40
151	Wave propagation in graphene sheets with nonlocal elastic theory via finite element formulation. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2012</b> , 223-224, 1-9	5-7	68
150	Gene Detection With Carbon Nanotubes. <i>Journal of Nanotechnology in Engineering and Medicine</i> , <b>2012</b> , 3,		10
149	Buckling and Vibration of Carbon Nanotubes Embedded in Polyethylene Polymers. <i>Journal of Nanotechnology in Engineering and Medicine</i> , <b>2012</b> , 3,		1
148	Driving Forces and Transportation Efficiency in Water Transportation Through Single-Walled Carbon Nanotubes. <i>Journal of Nanotechnology in Engineering and Medicine</i> , <b>2012</b> , 3,		1
147	Reversible ferromagnetism in rutile TiO <sub>2</sub> single crystals induced by nickel impurities. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 142105	3-4	17
146	Vibration of Single- and Double-Layered Graphene Sheets. <i>Journal of Nanotechnology in Engineering and Medicine</i> , <b>2011</b> , 2,		65
145	Dispersion of carbon nanotubes with SDS surfactants: a study from a binding energy perspective. <i>Chemical Science</i> , <b>2011</b> , 2, 1407	9-4	139
144	Nonlocal continuum model and molecular dynamics for free vibration of single-walled carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2011</b> , 11, 10401-7	1-3	30
143	Carbon Nanotube-Based Sensors for Detection of Gas Atoms. <i>Journal of Nanotechnology in Engineering and Medicine</i> , <b>2011</b> , 2,		21
142	An experimental study on the repair of a notched beam subjected to dynamic loading with piezoelectric patches. <i>Smart Materials and Structures</i> , <b>2011</b> , 20, 115023	3-4	16
141	Detection of gas atoms via vibration of graphenes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2011</b> , 375, 2411-2415	2-3	72
140	Compressive buckling of carbon nanotubes containing polyethylene molecules. <i>Carbon</i> , <b>2011</b> , 49, 729-732	2-4	5
139	Controlling the formation of wrinkles in a single layer graphene sheet subjected to in-plane shear. <i>Carbon</i> , <b>2011</b> , 49, 3107-3112	10-4	91
138	Experimental studies on damage detection of beam structures with wavelet transform. <i>International Journal of Engineering Science</i> , <b>2011</b> , 49, 253-261	5-7	78



137	Buckling of carbon nanotubes wrapped by polyethylene molecules. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2011</b> , 375, 624-627	2.3	11
136	Detecting the delamination location of a beam with a wavelet transform: an experimental study. <i>Smart Materials and Structures</i> , <b>2011</b> , 20, 012002	3.4	12
135	Buckling and Vibration of Carbon Nanotubes Embedded in Polyethylene Polymers. <i>Applied Mechanics and Materials</i> , <b>2011</b> , 148-149, 1016-1020	0.3	
134	Dynamic Instability of Nanorods/Nanotubes Subjected to an End Follower Force. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2010</b> , 136, 1054-1058	2.4	18
133	ACOUSTIC WAVE IN PIEZOELECTRIC COUPLED PLATES WITH OPEN CIRCUIT. <i>International Journal of Structural Stability and Dynamics</i> , <b>2010</b> , 10, 299-313	1.9	5
132	FE-PML MODELING OF 3D SCATTERING OF TRANSIENT ELASTIC WAVES IN CRACKED PLATE WITH RECTANGULAR CROSS SECTION. <i>International Journal of Structural Stability and Dynamics</i> , <b>2010</b> , 10, 1123-1139 <sup>3</sup>	1.9	139 <sup>3</sup>
131	Applications of Piezoelectric Materials in Structural Health Monitoring and Repair: Selected Research Examples. <i>Materials</i> , <b>2010</b> , 3, 5169-5194	3.5	73
130	Repair of vibrating delaminated beam structures using piezoelectric patches. <i>Smart Materials and Structures</i> , <b>2010</b> , 19, 035027	3.4	21
129	Water transport with a carbon nanotube pump. <i>ACS Nano</i> , <b>2010</b> , 4, 2338-44	16.7	66
128	Orientation-dependent mechanical properties of Au nanowires under uniaxial loading. <i>Computational Materials Science</i> , <b>2010</b> , 48, 513-519	3.2	23
127	Modeling the Instability of Carbon Nanotubes: From Continuum Mechanics to Molecular Dynamics. <i>Journal of Nanotechnology in Engineering and Medicine</i> , <b>2010</b> , 1,		10
126	Repair of a delaminated plate under static loading with piezoelectric patches. <i>Smart Materials and Structures</i> , <b>2010</b> , 19, 105025	3.4	17
125	Free vibration analysis of piezoelectric coupled circular plate with open circuit. <i>Journal of Sound and Vibration</i> , <b>2010</b> , 329, 1126-1136	3.9	31
124	Simulations of the bending rigidity of graphene. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2010</b> , 374, 1180-1183	2.3	52
123	Compressive mechanical behavior of Au nanowires. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2010</b> , 374, 2949-2952	2.3	21
122	Small-scale effect on torsional buckling of multi-walled carbon nanotubes. <i>European Journal of Mechanics, A/Solids</i> , <b>2010</b> , 29, 49-55	3.7	72
121	Time constants of cardiac function and their calculations. <i>Open Cardiovascular Medicine Journal</i> , <b>2010</b> , 4, 168-72	0.7	8
120	Torsional instability of carbon nanotubes encapsulating C60 fullerenes. <i>Carbon</i> , <b>2009</b> , 47, 507-512	10.4	38

119	Transportation of hydrogen molecules using carbon nanotubes in torsion. <i>Carbon</i> , <b>2009</b> , 47, 1870-1873	10.4	27
118	Separation of atoms with carbon nanotubes. <i>Carbon</i> , <b>2009</b> , 47, 2754-2757	10.4	14
117	Nonlocal elastic beam models for flexural wave propagation in double-walled carbon nanotubes. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 044301	2.5	39
116	A novel ring type ultrasonic motor with multiple wavenumbers: design, fabrication and characterization. <i>Smart Materials and Structures</i> , <b>2009</b> , 18, 125025	3.4	14
115	Atomic transportation via carbon nanotubes. <i>Nano Letters</i> , <b>2009</b> , 9, 245-9	11.5	94
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