

# Quan Wang

## List of Publications by Citations

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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	Wave propagation in carbon nanotubes via nonlocal continuum mechanics. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 124301	2.5	515
261	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
260	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
259	Application of nonlocal continuum mechanics to static analysis of micro- and nano-structures. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2007</b> , 363, 236-242	2.3	389
258	Nonlocal shell model for elastic wave propagation in single- and double-walled carbon nanotubes. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2008</b> , 56, 3475-3485	5	333
257	The constitutive relation and small scale parameter of nonlocal continuum mechanics for modelling carbon nanotubes. <i>Nanotechnology</i> , <b>2007</b> , 18, 075702	3.4	285
256	Vibration of carbon nanotubes studied using nonlocal continuum mechanics. <i>Smart Materials and Structures</i> , <b>2006</b> , 15, 659-666	3.4	265
255	Mechanical properties of carbon nanotube/polymer composites. <i>Scientific Reports</i> , <b>2014</b> , 4, 6479	4.9	258
254	Damage detection with spatial wavelets. <i>International Journal of Solids and Structures</i> , <b>1999</b> , 36, 3443-3468	3.5	215
253	Small scale effect on elastic buckling of carbon nanotubes with nonlocal continuum models. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2006</b> , 357, 130-135	2.3	177
252	On buckling of column structures with a pair of piezoelectric layers. <i>Engineering Structures</i> , <b>2002</b> , 24, 199-205	4.7	163
251	Application of nonlocal elastic shell theory in wave propagation analysis of carbon nanotubes. <i>Smart Materials and Structures</i> , <b>2007</b> , 16, 178-190	3.4	156
250	Detection of cracks in plates using piezo-actuated Lamb waves. <i>Smart Materials and Structures</i> , <b>2004</b> , 13, 643-660	3.4	155
249	Analysis of piezoelectric coupled circular plate. <i>Smart Materials and Structures</i> , <b>2001</b> , 10, 229-239	3.4	154
248	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
247	Application of Wavelet Theory for Crack Identification in Structures. <i>Journal of Engineering Mechanics - ASCE</i> , <b>1998</b> , 124, 152-157	2.4	147
246	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

245	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
244	Energy harvesting from a vehicle suspension system. <i>Energy</i> , <b>2015</b> , 86, 385-392	7.9	123
243	Wave characteristics of carbon nanotubes. <i>International Journal of Solids and Structures</i> , <b>2006</b> , 43, 254-265	9.1	120
242	Sensitivity analysis of crack detection in beams by wavelet technique. <i>International Journal of Mechanical Sciences</i> , <b>2001</b> , 43, 2899-2910	5.5	112
241	Scale effect on wave propagation of double-walled carbon nanotubes. <i>International Journal of Solids and Structures</i> , <b>2006</b> , 43, 6071-6084	3.1	109
240	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
239	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
238	Detecting anomalies in beams and plate based on the Hilbert-Huang transform of real signals. <i>Smart Materials and Structures</i> , <b>2003</b> , 12, 447-460	3.4	104
237	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
236	Atomic transportation via carbon nanotubes. <i>Nano Letters</i> , <b>2009</b> , 9, 245-9	11.5	94
235	Effective in-plane stiffness and bending rigidity of armchair and zigzag carbon nanotubes. <i>International Journal of Solids and Structures</i> , <b>2004</b> , 41, 5451-5461	3.1	93
234	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
233	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
232	Analysis of wave propagation in carbon nanotubes via elastic shell theories. <i>International Journal of Engineering Science</i> , <b>2007</b> , 45, 227-241	5.7	91
231	Flexural vibration analysis of sandwich beam coupled with piezoelectric actuator. <i>Smart Materials and Structures</i> , <b>2000</b> , 9, 103-109	3.4	90
230	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
229	Molecular mechanics modeling of carbon nanotube fracture. <i>Carbon</i> , <b>2007</b> , 45, 1769-1776	10.4	86
228	Ocean wave energy harvesting with a piezoelectric coupled buoy structure. <i>Applied Ocean Research</i> , <b>2015</b> , 50, 110-118	3.4	78

227	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
226	Energy harvesting from ocean waves by a floating energy harvester. <i>Energy</i> , <b>2016</b> , 112, 1219-1226	7.9	76
225	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
224	Magnetorheological elastomer-based smart sandwich beams with nonconductive skins. <i>Smart Materials and Structures</i> , <b>2005</b> , 14, 1001-1009	3.4	73
223	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
222	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
221	Free vibration analysis of piezoelectric coupled thin and thick annular plate. <i>Journal of Sound and Vibration</i> , <b>2005</b> , 281, 119-139	3.9	71
220	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
219	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
218	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
217	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
216	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
215	Water transport with a carbon nanotube pump. <i>ACS Nano</i> , <b>2010</b> , 4, 2338-44	16.7	66
214	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
213	Vibration of Single- and Double-Layered Graphene Sheets. <i>Journal of Nanotechnology in Engineering and Medicine</i> , <b>2011</b> , 2,		65
212	Axi-symmetric wave propagation in a cylinder coated with a piezoelectric layer. <i>International Journal of Solids and Structures</i> , <b>2002</b> , 39, 3023-3037	3.1	65
211	Love waves in piezoelectric coupled solid media. <i>Smart Materials and Structures</i> , <b>2001</b> , 10, 380-388	3.4	64
210	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

209	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
208	Analytical solution for free vibration of piezoelectric coupled moderately thick circular plates. <i>International Journal of Solids and Structures</i> , <b>2002</b> , 39, 2129-2151	3.1	62
207	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
206	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
205	Inelastic buckling of carbon nanotubes. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 033110	3.4	61
204	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
203	Energy harvesting from wind by a piezoelectric harvester. <i>Engineering Structures</i> , <b>2017</b> , 133, 74-80	4.7	60
202	Wind energy harvesting with a piezoelectric harvester. <i>Smart Materials and Structures</i> , <b>2013</b> , 22, 095023	3.4	60
201	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
200	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
199	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
198	Enhancing flutter and buckling capacity of column by piezoelectric layers. <i>International Journal of Solids and Structures</i> , <b>2002</b> , 39, 4167-4180	3.1	56
197	Detection of gas atoms with carbon nanotubes. <i>Scientific Reports</i> , <b>2013</b> , 3,	4.9	55
196	Optimal placement and size of piezoelectric patches on beams from the controllability perspective. <i>Smart Materials and Structures</i> , <b>2000</b> , 9, 558-567	3.4	54
195	Use of magnetorheological elastomer in an adaptive sandwich beam with conductive skins. Part II: Dynamic properties. <i>International Journal of Solids and Structures</i> , <b>2006</b> , 43, 5403-5420	3.1	53
194	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
193	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
192	Stability analysis of carbon nanotubes via continuum models. <i>Smart Materials and Structures</i> , <b>2005</b> , 14, 281-286	3.4	52

191	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
190	Practical issues in the detection of damage in beams using wavelets. <i>Smart Materials and Structures</i> , <b>2001</b> , 10, 1009-1017	3.4	50
189	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
188	Energy harvesting from high-rise buildings by a piezoelectric harvester device. <i>Energy</i> , <b>2015</b> , 93, 1345-1353	3.7	48
187	Torsional buckling of carbon nanotubes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2007</b> , 367, 135-139	2.3	48
186	A CONTROLLABILITY INDEX FOR OPTIMAL DESIGN OF PIEZOELECTRIC ACTUATORS IN VIBRATION CONTROL OF BEAM STRUCTURES. <i>Journal of Sound and Vibration</i> , <b>2001</b> , 242, 507-518	3.9	48
185	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
184	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
183	Study on the adjustable rigidity of magnetorheological-elastomer-based sandwich beams. <i>Smart Materials and Structures</i> , <b>2006</b> , 15, 59-74	3.4	45
182	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
181	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
180	Flow-induced instability of double-walled carbon nanotubes based on an elastic shell model. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 044307	2.5	41
179	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
178	Optimal design of a piezoelectric coupled beam for power harvesting. <i>Smart Materials and Structures</i> , <b>2012</b> , 21, 085013	3.4	40
177	Use of magnetorheological elastomer in an adaptive sandwich beam with conductive skins. Part I: Magnetoelastic loads in conductive skins. <i>International Journal of Solids and Structures</i> , <b>2006</b> , 43, 5386-5402	2.1	40
176	On the repair of a cracked beam with a piezoelectric patch. <i>Smart Materials and Structures</i> , <b>2002</b> , 11, 404-410	3.4	40
175	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
174	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

173	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
172	Torsional instability of carbon nanotubes encapsulating C60 fullerenes. <i>Carbon</i> , <b>2009</b> , 47, 507-512	10.4	38
171	Modeling of the mechanical instability of carbon nanotubes. <i>Carbon</i> , <b>2008</b> , 46, 285-290	10.4	38
170	Detection of cracks in cylindrical pipes and plates using piezo-actuated Lamb waves. <i>Smart Materials and Structures</i> , <b>2005</b> , 14, 1325-1342	3.4	38
169	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
168	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
167	Modeling of vibrations of carbon nanotubes. <i>Procedia Engineering</i> , <b>2012</b> , 31, 343-347		36
166	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
165	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
164	Torsional buckling of double-walled carbon nanotubes. <i>Carbon</i> , <b>2008</b> , 46, 1172-1174	10.4	34
163	Lamb wave propagation in a metallic semi-infinite medium covered with piezoelectric layer. <i>International Journal of Solids and Structures</i> , <b>2002</b> , 39, 2547-2556	3.1	34
162	Bending instability characteristics of double-walled carbon nanotubes. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	33
161	Analysis of wave propagation in piezoelectric coupled cylinder affected by transverse shear and rotary inertia. <i>International Journal of Solids and Structures</i> , <b>2003</b> , 40, 6653-6667	3.1	33
160	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
159	A Model for the Analysis of Beams with Embedded Piezoelectric Layers. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2002</b> , 13, 61-70	2.3	32
158	On dispersion relations in piezoelectric coupled-plate structures. <i>Smart Materials and Structures</i> , <b>2000</b> , 9, 859-867	3.4	32
157	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
156	Repair of notched beam under dynamic load using piezoelectric patch. <i>International Journal of Mechanical Sciences</i> , <b>2004</b> , 46, 1517-1533	5.5	31

155	Wave propagation in piezoelectric coupled plates by use of interdigital transducer: Part 1. Dispersion characteristics. <i>International Journal of Solids and Structures</i> , <b>2002</b> , 39, 1119-1130	3.1	31
154	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
153	Ionic liquid-activated wearable electronics. <i>Materials Today Physics</i> , <b>2019</b> , 8, 78-85	8	30
152	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
151	Ocean wave energy pitching harvester with a frequency tuning capability. <i>Energy</i> , <b>2018</b> , 162, 603-617	7.9	29
150	Design of a smart piezoelectric actuator based on a magnetorheological elastomer. <i>Smart Materials and Structures</i> , <b>2005</b> , 14, 504-510	3.4	29
149	Design of interdigital transducers for crack detection in plates. <i>Ultrasonics</i> , <b>2005</b> , 43, 481-93	3.5	29
148	Wave propagation in a piezoelectric coupled cylindrical membrane shell. <i>International Journal of Solids and Structures</i> , <b>2001</b> , 38, 8207-8218	3.1	29
147	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
146	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
145	Transportation of hydrogen molecules using carbon nanotubes in torsion. <i>Carbon</i> , <b>2009</b> , 47, 1870-1873	10.4	27
144	Nonlocal continuum models for carbon nanotubes subjected to static loading. <i>Journal of Mechanics of Materials and Structures</i> , <b>2006</b> , 1, 663-680	1.2	27
143	Molecular dynamics simulations of the torsional instability of carbon nanotubes filled with hydrogen or silicon atoms. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 043120	3.4	26
142	Local buckling of carbon nanotubes under bending. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 093128	3.4	25
141	Repair of cracked column under axially compressive load via piezoelectric patch. <i>Computers and Structures</i> , <b>2005</b> , 83, 1355-1363	4.5	25
140	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
139	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
138	Effective Young's modulus of carbon nanotube/epoxy composites. <i>Composites Part B: Engineering</i> , <b>2016</b> , 94, 160-166	10	25

137	A new nonlinearly tapered FGM piezoelectric energy harvester. <i>Engineering Structures</i> , <b>2018</b> , 173, 52-60	4.7	25
136	A comprehensive stability analysis of a cracked beam subjected to follower compression. <i>International Journal of Solids and Structures</i> , <b>2004</b> , 41, 4875-4888	3.1	24
135	A study on a high efficient cylinder composite piezoelectric energy harvester. <i>Composite Structures</i> , <b>2017</b> , 161, 237-245	5.3	23
134	Ejection of DNA molecules from carbon nanotubes. <i>Carbon</i> , <b>2012</b> , 50, 4945-4952	10.4	23
133	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
132	Orientation-dependent mechanical properties of Au nanowires under uniaxial loading. <i>Computational Materials Science</i> , <b>2010</b> , 48, 513-519	3.2	23
131	Modeling of fracture of carbon nanotubes with vacancy defect. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	23
130	Repair of delaminated beams via piezoelectric patches. <i>Smart Materials and Structures</i> , <b>2004</b> , 13, 1222-1229	3.2	22
129	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
128	Carbon Nanotube-Based Sensors for Detection of Gas Atoms. <i>Journal of Nanotechnology in Engineering and Medicine</i> , <b>2011</b> , 2,		21
127	Repair of vibrating delaminated beam structures using piezoelectric patches. <i>Smart Materials and Structures</i> , <b>2010</b> , 19, 035027	3.4	21
126	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
125	Wave Propagation in a Piezoelectric Coupled Solid Medium. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2002</b> , 69, 819-824	2.7	21
124	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
123	Detection of gas atoms with graphene sheets. <i>Computational Materials Science</i> , <b>2012</b> , 60, 245-249	3.2	20
122	Generalized hypergeometric function solutions for transverse vibration of a class of non-uniform annular plates. <i>Journal of Sound and Vibration</i> , <b>2005</b> , 287, 785-807	3.9	20
121	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
120	Finite element analysis of the piezoelectric-based repair of a delaminated beam. <i>Smart Materials and Structures</i> , <b>2008</b> , 17, 015017	3.4	19

119	Wave propagation in piezoelectric coupled plates by use of interdigital transducer. Part 2: Wave excitation by interdigital transducer. <i>International Journal of Solids and Structures</i> , <b>2002</b> , 39, 1131-1144	3.1	19
118	Dispersion Relations in Piezoelectric Coupled Beams. <i>AIAA Journal</i> , <b>2000</b> , 38, 2357-2361	2.1	19
117	A piezoelectric hydro-energy harvester featuring a special container structure. <i>Energy</i> , <b>2019</b> , 189, 116267-9	1.9	18
116	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
115	Analytical solution of excitation of Lamb waves in plates by inter-digital transducers. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2003</b> , 459, 1117-1134	2.4	18
114	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
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