

Abdessattar Abdelkefi

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260
papers

6,224
citations

44
h-index

70
g-index

301
ext. papers

7,824
ext. citations

3.9
avg, IF

6.97
L-index

#	Paper	IF	Citations
260	Classifications, applications, and design challenges of drones: A review. <i>Progress in Aerospace Sciences</i> , 2017 , 91, 99-131	8.8	471
259	Aeroelastic energy harvesting: A review. <i>International Journal of Engineering Science</i> , 2016 , 100, 112-135	5.7	293
258	Piezoelectric energy harvesting from vortex-induced vibrations of circular cylinder. <i>Journal of Sound and Vibration</i> , 2013 , 332, 4656-4667	3.9	178
257	Piezoelectric energy harvesting from concurrent vortex-induced vibrations and base excitations. <i>Nonlinear Dynamics</i> , 2014 , 77, 967-981	5	145
256	Modeling and analysis of piezoaeroelastic energy harvesters. <i>Nonlinear Dynamics</i> , 2012 , 67, 925-939	5	139
255	An energy harvester using piezoelectric cantilever beams undergoing coupled bending-torsion vibrations. <i>Smart Materials and Structures</i> , 2011 , 20, 115007	3.4	130
254	Piezoelectric energy harvesting from transverse galloping of bluff bodies. <i>Smart Materials and Structures</i> , 2013 , 22, 015014	3.4	122
253	Global nonlinear distributed-parameter model of parametrically excited piezoelectric energy harvesters. <i>Nonlinear Dynamics</i> , 2012 , 67, 1147-1160	5	120
252	Theoretical modeling and nonlinear analysis of piezoelectric energy harvesting from vortex-induced vibrations. <i>Journal of Intelligent Material Systems and Structures</i> , 2014 , 25, 1861-1874	2.3	112
251	Performance enhancement of piezoelectric energy harvesters from wake galloping. <i>Applied Physics Letters</i> , 2013 , 103, 033903	3.4	106
250	Piezomagnetoelastic energy harvesting from vortex-induced vibrations using monostable characteristics. <i>Applied Energy</i> , 2017 , 203, 142-153	10.7	104
249	Modeling and nonlinear analysis of piezoelectric energy harvesting from transverse galloping. <i>Smart Materials and Structures</i> , 2013 , 22, 025016	3.4	102
248	Power harvesting from transverse galloping of square cylinder. <i>Nonlinear Dynamics</i> , 2012 , 70, 1355-1363	5	99
247	Design and performance of variable-shaped piezoelectric energy harvesters. <i>Journal of Intelligent Material Systems and Structures</i> , 2014 , 25, 174-186	2.3	96
246	Phenomena and modeling of piezoelectric energy harvesting from freely oscillating cylinders. <i>Nonlinear Dynamics</i> , 2012 , 70, 1377-1388	5	89
245	Design of piezoaeroelastic energy harvesters. <i>Nonlinear Dynamics</i> , 2012 , 68, 519-530	5	89
244	Modeling and performance of electromagnetic energy harvesting from galloping oscillations. <i>Smart Materials and Structures</i> , 2015 , 24, 045012	3.4	88

243	Experimental investigation on the efficiency of circular cylinder-based wind energy harvester with different rod-shaped attachments. <i>Applied Energy</i> , 2018 , 226, 682-689	10.7	88
242	Orientation of bluff body for designing efficient energy harvesters from vortex-induced vibrations. <i>Applied Physics Letters</i> , 2016 , 108, 053902	3.4	87
241	Performance analysis of galloping-based piezoaeroelastic energy harvesters with different cross-section geometries. <i>Journal of Intelligent Material Systems and Structures</i> , 2014 , 25, 246-256	2.3	85
240	Modeling and Characterization of a Piezoelectric Energy Harvester Under Combined Aerodynamic and Base Excitations. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2015 , 137,	1.6	79
239	Design and experimental analysis of broadband energy harvesting from vortex-induced vibrations. <i>Journal of Sound and Vibration</i> , 2017 , 408, 210-219	3.9	75
238	Comparative modeling of low-frequency piezomagnetoelastic energy harvesters. <i>Journal of Intelligent Material Systems and Structures</i> , 2014 , 25, 1771-1785	2.3	70
237	Effects of nonlinear piezoelectric coupling on energy harvesters under direct excitation. <i>Nonlinear Dynamics</i> , 2012 , 67, 1221-1232	5	69
236	Evolution of space drones for planetary exploration: A review. <i>Progress in Aerospace Sciences</i> , 2018 , 97, 61-105	8.8	65
235	Enhancement of power harvesting from piezoaeroelastic systems. <i>Nonlinear Dynamics</i> , 2012 , 68, 531-545	5	65
234	An analytical and experimental investigation into limit-cycle oscillations of an aeroelastic system. <i>Nonlinear Dynamics</i> , 2013 , 71, 159-173	5	63
233	Classification of biological and bioinspired aquatic systems: A review. <i>Ocean Engineering</i> , 2018 , 148, 75-114	11.4	62
232	New insights on the applicability of Eringen's nonlocal theory. <i>International Journal of Mechanical Sciences</i> , 2017 , 121, 67-75	5.5	60
231	Nonlinear characterization of concurrent energy harvesting from galloping and base excitations. <i>Nonlinear Dynamics</i> , 2014 , 77, 1171-1189	5	58
230	Vortex-induced vibrations mitigation through a nonlinear energy sink. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017 , 42, 22-36	3.7	56
229	Modeling and performance analysis of cambered wing-based piezoaeroelastic energy harvesters. <i>Smart Materials and Structures</i> , 2013 , 22, 095029	3.4	55
228	Experimental investigation of aerodynamic energy harvester with different interference cylinder cross-sections. <i>Energy</i> , 2019 , 167, 970-981	7.9	55
227	Representation and analysis of control surface freeplay nonlinearity. <i>Journal of Fluids and Structures</i> , 2012 , 31, 79-91	3.1	52
226	Improving the performance of aeroelastic energy harvesters by an interference cylinder. <i>Applied Physics Letters</i> , 2017 , 111, 073904	3.4	52

225	Modeling the material structure and couple stress effects of nanocrystalline silicon beams for pull-in and bio-mass sensing applications. <i>International Journal of Mechanical Sciences</i> , 2015 , 101-102, 280-291	5.5	47
224	Piezoelectric energy harvesting from hybrid vibrations. <i>Smart Materials and Structures</i> , 2014 , 23, 025026	3.4	47
223	Modeling and nonlinear dynamics of fluid-conveying risers under hybrid excitations. <i>International Journal of Engineering Science</i> , 2014 , 81, 1-14	5.7	47
222	Modeling and identification of freeplay nonlinearity. <i>Journal of Sound and Vibration</i> , 2012 , 331, 1898-1907	3.9	47
221	Pull-in instability of multi-phase nanocrystalline silicon beams under distributed electrostatic force. <i>International Journal of Engineering Science</i> , 2015 , 90, 58-75	5.7	47
220	Modeling, validation, and performance of low-frequency piezoelectric energy harvesters. <i>Journal of Intelligent Material Systems and Structures</i> , 2014 , 25, 1429-1444	2.3	46
219	A novel methodology for wing sizing of bio-inspired flapping wing micro air vehicles: theory and prototype. <i>Acta Mechanica</i> , 2017 , 228, 1097-1113	2.1	46
218	Sensitivity analysis of piezoaeroelastic energy harvesters. <i>Journal of Intelligent Material Systems and Structures</i> , 2012 , 23, 1523-1531	2.3	46
217	Modeling and Vibration Characteristics of Cracked Nano-Beams Made of Nanocrystalline Materials. <i>International Journal of Mechanical Sciences</i> , 2016 , 115-116, 574-585	5.5	46
216	Exact modes for post-buckling characteristics of nonlocal nanobeams in a longitudinal magnetic field. <i>Applied Mathematical Modelling</i> , 2018 , 55, 758-775	4.5	41
215	Two-dimensional concentrated-stress low-frequency piezoelectric vibration energy harvesters. <i>Applied Physics Letters</i> , 2015 , 107, 093901	3.4	40
214	On nonlinear behavior and buckling of fluid-transporting nanotubes. <i>International Journal of Engineering Science</i> , 2015 , 87, 13-22	5.7	39
213	Energy harvesting from a multifrequency response of a tuned bending-torsion system. <i>Smart Materials and Structures</i> , 2012 , 21, 075029	3.4	38
212	Linear and nonlinear active feedback controls for vortex-induced vibrations of circular cylinders. <i>JVC/Journal of Vibration and Control</i> , 2014 , 20, 1137-1147	2	37
211	Piezoelectric energy harvesting from morphing wing motions for micro air vehicles. <i>Theoretical and Applied Mechanics Letters</i> , 2013 , 3, 052004	1.8	37
210	Modeling of mechanical resonators used for nanocrystalline materials characterization and disease diagnosis of HIVs. <i>Microsystem Technologies</i> , 2016 , 22, 305-318	1.7	36
209	The potential of electrical impedance on the performance of galloping systems for energy harvesting and control applications. <i>Journal of Sound and Vibration</i> , 2016 , 370, 191-208	3.9	36
208	Low-frequency Zigzag energy harvesters operating in torsion-dominant mode. <i>Applied Energy</i> , 2017 , 204, 413-419	10.7	36

207	Nonlinear analysis and power improvement of broadband low-frequency piezomagnetoelastic energy harvesters. <i>Nonlinear Dynamics</i> , 2016 , 83, 41-56	5	33
206	Design, manufacturing, and flight testing of a fixed wing micro air vehicle with Zimmerman planform. <i>Meccanica</i> , 2017 , 52, 1265-1282	2.1	33
205	Thermal impact of migrating birds' wing color on their flight performance: Possibility of new generation of biologically inspired drones. <i>Journal of Thermal Biology</i> , 2017 , 66, 27-32	2.9	33
204	Role of the galloping force and moment of inertia of inclined square cylinders on the performance of hybrid galloping energy harvesters. <i>Applied Energy</i> , 2018 , 231, 259-276	10.7	33
203	Impacts of the aerodynamic force representation on the stability and performance of a galloping-based energy harvester. <i>Journal of Sound and Vibration</i> , 2017 , 400, 213-226	3.9	32
202	Grazing bifurcation in aeroelastic systems with freeplay nonlinearity. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014 , 19, 1611-1625	3.7	32
201	On a second-order rotation gradient theory for linear elastic continua. <i>International Journal of Engineering Science</i> , 2016 , 100, 74-98	5.7	31
200	Nonlinear analysis and enhancement of wing-based piezoaeroelastic energy harvesters. <i>Journal of Sound and Vibration</i> , 2014 , 333, 166-177	3.9	31
199	Performance enhancement of wing-based piezoaeroelastic energy harvesting through freeplay nonlinearity. <i>Theoretical and Applied Mechanics Letters</i> , 2013 , 3, 041001	1.8	30
198	Wing shape and dynamic twist design of bio-inspired nano air vehicles for forward flight purposes. <i>Aerospace Science and Technology</i> , 2017 , 68, 518-529	4.9	29
197	Nonlinear dynamics of cantilevered pipes conveying fluid: Towards a further understanding of the effect of loose constraints. <i>International Journal of Non-Linear Mechanics</i> , 2017 , 95, 19-29	2.8	29
196	Morphing and growing micro unmanned air vehicle: Sizing process and stability. <i>Aerospace Science and Technology</i> , 2018 , 78, 130-146	4.9	29
195	Theoretical modeling, wind tunnel measurements, and realistic environment testing of galloping-based electromagnetic energy harvesters. <i>Applied Energy</i> , 2019 , 254, 113737	10.7	29
194	Nonlinear analysis and characteristics of inductive galloping energy harvesters. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018 , 59, 580-591	3.7	29
193	Frequency and mode veering phenomena of axially functionally graded non-uniform beams with nonlocal residuals. <i>Composite Structures</i> , 2017 , 163, 280-292	5.3	28
192	A review on the modeling, materials, and actuators of aquatic unmanned vehicles. <i>Ocean Engineering</i> , 2019 , 172, 257-285	3.9	28
191	Reporting the sensitivities and resolutions of CNT-based resonators for mass sensing. <i>Materials and Design</i> , 2017 , 114, 591-598	8.1	27
190	Temperature impact on the performance of galloping-based piezoaeroelastic energy harvesters. <i>Smart Materials and Structures</i> , 2013 , 22, 055026	3.4	27

189	Time-delay feedback controller for amplitude reduction in vortex-induced vibrations. <i>Nonlinear Dynamics</i> , 2015 , 80, 59-70	5	26
188	An improved stability characterization for aeroelastic energy harvesting applications. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016 , 36, 252-265	3.7	26
187	Incident flow effects on the performance of piezoelectric energy harvesters from galloping vibrations. <i>Theoretical and Applied Mechanics Letters</i> , 2014 , 4, 022002	1.8	26
186	Methodologies for weight estimation of fixed and flapping wing micro air vehicles. <i>Meccanica</i> , 2017 , 52, 2047-2068	2.1	24
185	Bifurcation analysis of an aeroelastic system with concentrated nonlinearities. <i>Nonlinear Dynamics</i> , 2012 , 69, 57-70	5	24
184	Role of wing color and seasonal changes in ambient temperature and solar irradiation on predicted flight efficiency of the Albatross. <i>Journal of Thermal Biology</i> , 2018 , 71, 112-122	2.9	24
183	Ultra-wide bandwidth improvement of piezoelectric energy harvesters through electrical inductance coupling. <i>European Physical Journal: Special Topics</i> , 2015 , 224, 2733-2753	2.3	23
182	Insights on the thermal impacts of wing colorization of migrating birds on their skin friction drag and the choice of their flight route. <i>Journal of Thermal Biology</i> , 2018 , 72, 81-93	2.9	23
181	Nonlinear dynamics and comparative analysis of hybrid piezoelectric-inductive energy harvesters subjected to galloping vibrations. <i>European Physical Journal: Special Topics</i> , 2015 , 224, 2929-2948	2.3	23
180	Nonlinear analysis of rotating nanocrystalline silicon microbeams for microgyroscope applications. <i>Microsystem Technologies</i> , 2017 , 23, 5931-5946	1.7	22
179	Wind-induced vibration of structural cables. <i>Nonlinear Dynamics</i> , 2020 , 100, 351-421	5	22
178	Usefulness of passive non-linear energy sinks in controlling galloping vibrations. <i>International Journal of Non-Linear Mechanics</i> , 2016 , 81, 83-94	2.8	22
177	Conceptual design and optimization of a tilt-rotor micro air vehicle. <i>Chinese Journal of Aeronautics</i> , 2019 , 32, 369-381	3.7	22
176	Control of cross-flow-induced vibrations of square cylinders using linear and nonlinear delayed feedbacks. <i>Nonlinear Dynamics</i> , 2014 , 78, 907-919	5	21
175	Material structure and size effects on the nonlinear dynamics of electrostatically-actuated nano-beams. <i>International Journal of Non-Linear Mechanics</i> , 2017 , 89, 25-42	2.8	21
174	Stochastic analysis of a galloping-random wind energy harvesting performance on a buoy platform. <i>Energy Conversion and Management</i> , 2021 , 238, 114174	10.6	21
173	Size dependent and micromechanical modeling of strain gradient-based nanoparticle composite plates with surface elasticity. <i>European Journal of Mechanics, A/Solids</i> , 2016 , 58, 54-68	3.7	20
172	Nonlinear dynamical analysis of an aeroelastic system with multi-segmented moment in the pitch degree-of-freedom. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015 , 20, 324-334	3.7	19

171	Fatigue in piezoelectric ceramic vibrational energy harvesting: A review. <i>Applied Energy</i> , 2020 , 270, 115161-7	10.7	19
170	Significance of size dependent and material structure coupling on the characteristics and performance of nanocrystalline micro/nano gyroscopes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 99, 169-181	3	19
169	Review of marine animals and bioinspired robotic vehicles: Classifications and characteristics. <i>Progress in Aerospace Sciences</i> , 2017 , 93, 95-119	8.8	18
168	Comparative Study of Piezoelectric Vortex-Induced Vibration-Based Energy Harvesters with Multi-Stability Characteristics. <i>Energies</i> , 2020 , 13, 71	3.1	18
167	Bridged single-walled carbon nanotube-based atomic-scale mass sensors. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	18
166	Characteristics and comparative analysis of piezoelectric-electromagnetic energy harvesters from vortex-induced oscillations. <i>Nonlinear Dynamics</i> , 2019 , 95, 3309-3333	5	18
165	Theoretical modeling and nonlinear analysis of piezoelectric energy harvesters with different stoppers. <i>International Journal of Mechanical Sciences</i> , 2020 , 166, 105233	5.5	18
164	Aeroelastic analysis and nonlinear dynamics of an elastically mounted wing. <i>Journal of Sound and Vibration</i> , 2012 , 331, 5774-5787	3.9	16
163	Towards control of cross-flow-induced vibrations based on energy harvesting. <i>Nonlinear Dynamics</i> , 2017 , 88, 2329-2346	5	15
162	Control of base-excited dynamical systems through piezoelectric energy harvesting absorber. <i>Smart Materials and Structures</i> , 2017 , 26, 095013	3.4	15
161	Higher power generation from torsion-dominant mode in a zigzag shaped two-dimensional energy harvester. <i>Applied Energy</i> , 2018 , 216, 494-503	10.7	14
160	Effective design of flapping wing actuation mechanisms: theory and experiments 2016 ,		14
159	Performance analysis of fixed wing space drones in different solar system bodies. <i>Acta Astronautica</i> , 2018 , 152, 27-48	2.9	14
158	Geometrical influence of a deposited particle on the performance of bridged carbon nanotube-based mass detectors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 94, 31-46	3	14
157	Performance analysis and validation of thermoelectric energy harvesters. <i>Smart Materials and Structures</i> , 2013 , 22, 095014	3.4	14
156	Comparative Analysis of One-Dimensional and Two-Dimensional Cantilever Piezoelectric Energy Harvesters. <i>Energy Harvesting and Systems</i> , 2014 , 1,	4.4	13
155	Nonlinear dynamics of galloping-based piezoaeroelastic energy harvesters. <i>European Physical Journal: Special Topics</i> , 2013 , 222, 1483-1501	2.3	13
154	Experimental electro-hydrodynamic investigation of flag-based energy harvesting in the wake of inverted C-shape cylinder. <i>Energy</i> , 2021 , 215, 119195	7.9	13

153	Free vibration analysis of cantilever open-hole composite plates. <i>Meccanica</i> , 2017 , 52, 2819-2836	2.1	12
152	Nonlocal modeling and buckling features of cracked nanobeams with von Karman nonlinearity. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	12
151	Effects of thermal loads representations on the dynamics and characteristics of carbon nanotubes-based mass sensors. <i>Smart Materials and Structures</i> , 2019 , 28, 074003	3.4	12
150	Reduced-order modeling and usefulness of non-uniform beams for flexoelectric energy harvesting applications. <i>Acta Mechanica</i> , 2019 , 230, 2339-2361	2.1	12
149	Accurate modeling, comparative analysis, and performance enhancement of broadband piezoelectric energy harvesters with single and dual magnetic forces. <i>International Journal of Non-Linear Mechanics</i> , 2017 , 95, 355-363	2.8	12
148	Reporting buckling strength and elastic properties of nanowires. <i>Journal of Applied Physics</i> , 2016 , 120, 235104	2.5	12
147	Nonlinear reduced-order modeling and effectiveness of electrically-actuated microbeams for bio-mass sensing applications. <i>International Journal of Mechanics and Materials in Design</i> , 2019 , 15, 125-143	2.5	12
146	Investigations on the presence of electrical frequency on the characteristics of energy harvesters under base and galloping excitations. <i>Nonlinear Dynamics</i> , 2017 , 89, 2461-2479	5	11
145	Novel design of microgyroscopes employing electrostatic actuation and resistance-change based sensing. <i>Journal of Sound and Vibration</i> , 2017 , 411, 278-288	3.9	11
144	Preloaded freeplay wide-bandwidth low-frequency piezoelectric harvesters. <i>Applied Physics Letters</i> , 2015 , 107, 023902	3.4	11
143	Airfoil control surface discontinuous nonlinearity experimental assessment and numerical model validation. <i>JVC/Journal of Vibration and Control</i> , 2016 , 22, 1633-1644	2	11
142	Performance analysis of differential-frequency microgyroscopes made of nanocrystalline material. <i>International Journal of Mechanical Sciences</i> , 2017 , 133, 495-503	5.5	11
141	Role and significance of thermal loading on the performance of carbon nanotube-based mass sensors. <i>Materials and Design</i> , 2018 , 160, 229-250	8.1	11
140	Conceptual design and analysis of separation flight for an unmanned air vehicle to five micro air vehicles 2017 ,		10
139	Impacts of stopper type and material on the broadband characteristics and performance of energy harvesters. <i>AIP Advances</i> , 2019 , 9, 035228	1.5	10
138	Buckling characteristics of nanocrystalline nano-beams. <i>International Journal of Mechanics and Materials in Design</i> , 2018 , 14, 71-89	2.5	10
137	Nonlinear performance analysis of forced carbon nanotube-based bio-mass sensors. <i>International Journal of Mechanics and Materials in Design</i> , 2019 , 15, 291-315	2.5	10
136	Modeling and assessment of a thermochemical energy storage using salt hydrates. <i>International Journal of Energy Research</i> , 2017 , 41, 2149-2161	4.5	9

135	Neutral axis modeling and effectiveness of functionally graded piezoelectric energy harvesters. <i>Composite Structures</i> , 2019 , 213, 25-36	5.3	9
134	Nonlinear dynamical responses of forced carbon nanotube-based mass sensors under the influence of thermal loadings. <i>Nonlinear Dynamics</i> , 2020 , 100, 1013-1035	5	9
133	Nonlinear aeroelastic characterization of wind turbine blades. <i>JVC/Journal of Vibration and Control</i> , 2016 , 22, 621-631	2	9
132	Nonlinear size dependent analysis and effectiveness of nanocrystalline micro/nanogyroscopes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 117, 113808	3	9
131	Optimal design and energy harvesting performance of carangiform fish-like robotic system. <i>Smart Materials and Structures</i> , 2018 , 27, 075045	3.4	9
130	Nonlinear size dependent modeling and performance analysis of flexoelectric energy harvesters. <i>Microsystem Technologies</i> , 2019 , 25, 3899-3921	1.7	8
129	Towards Improved Hybrid Actuation Mechanisms for Flapping Wing Micro Air Vehicles: Analytical and Experimental Investigations. <i>Drones</i> , 2019 , 3, 73	5.4	8
128	Phenomena and characterization of grazing/sliding bifurcations in aeroelastic systems with discontinuous impact effects. <i>Journal of Sound and Vibration</i> , 2015 , 358, 315-323	3.9	7
127	Investigation on the planform and kinematic optimization of bio-inspired nano air vehicles for hovering applications. <i>Meccanica</i> , 2018 , 53, 2273-2286	2.1	7
126	Unsteady aeroelastic behaviors of rigid airfoils with preset angles of attack. <i>JVC/Journal of Vibration and Control</i> , 2016 , 22, 1010-1022	2	7
125	Nonlinear analysis and characteristics of electrically-coupled microbeams under mechanical shock. <i>Microsystem Technologies</i> , 2019 , 25, 829-843	1.7	7
124	Numerical and experimental comparative performance analysis of emerging spherical-caged drones. <i>Aerospace Science and Technology</i> , 2019 , 95, 105512	4.9	7
123	Shape improvement for piezoelectric energy harvesting applications 2009 ,		7
122	Multifidelity modeling and comparative analysis of electrically coupled microbeams under squeeze-film damping effect. <i>Nonlinear Dynamics</i> , 2020 , 99, 445-460	5	7
121	Nonlinear analysis of a piezoelectric energy harvester in body undulatory caudal fin aquatic unmanned vehicles. <i>Applied Energy</i> , 2020 , 263, 114627	10.7	7
120	Piezoelectric energy harvesting from vortex-induced vibration of a circular cylinder: Effect of Reynolds number. <i>Ocean Engineering</i> , 2021 , 235, 109378	3.9	7
119	Defining a conceptual design for a tilt-rotor micro air vehicle for a well-defined mission 2017 ,		6
118	Sizing process, aerodynamic analysis, and experimental assessment of a biplane flapping wing nano air vehicle. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2019 , 233, 5618-5636	0.9	6

117	Scale bridging damage model for quasi-brittle metals informed with crack evolution statistics. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 138, 103921	5	6
116	Nonlocal buckling analysis of functionally graded nano-plates subjected to biaxial linearly varying forces. <i>Microsystem Technologies</i> , 2018 , 24, 1935-1948	1.7	6
115	Nonlinear modeling and performance analysis of cracked beam microgyroscopes. <i>International Journal of Mechanical Sciences</i> , 2020 , 188, 105965	5.5	6
114	Piezoelectric energy harvesting from flow-induced vibrations of a square cylinder at various angles of attack. <i>Smart Materials and Structures</i> , 2021 , 30, 08LT02	3.4	6
113	Nonlocal Timoshenko representation and analysis of multi-layered functionally graded nanobeams. <i>Microsystem Technologies</i> , 2021 , 27, 893-911	1.7	6
112	Hydrodynamic energy harvesting analysis of two piezoelectric tandem flags under influence of upstream body wakes. <i>Applied Energy</i> , 2021 , 282, 116173	10.7	6
111	Aerodynamic performance of albatross-inspired wing shape for marine unmanned air vehicles 2018 ,		6
110	Sizing and performance analysis of albatross-inspired tilt-wing unmanned air vehicle 2018 ,		5
109	Analysis and optimization of a tilt rotor unmanned air vehicle for long distances delivery and payload transportation 2018 ,		5
108	Nonlinear Analysis and Performance of Electret-Based Microcantilever Energy Harvesters. <i>Energies</i> , 2019 , 12, 4249	3.1	5
107	Modeling and Identification of Circular Cylinder-based Piezoaeroelastic Energy Harvesters. <i>Energy Procedia</i> , 2014 , 61, 2818-2821	2.3	5
106	Nonlocal elasticity and boundary condition paradoxes: a review. <i>Journal of Nanoparticle Research</i> , 2021 , 23, 1	2.3	5
105	Piezoelectric property degradation and cracking impacts on the lifetime performance of energy harvesters. <i>Mechanical Systems and Signal Processing</i> , 2021 , 156, 107697	7.8	5
104	Airfoil type and blade size effects on the aerodynamic performance of small-scale wind turbines: Computational fluid dynamics investigation. <i>Energy</i> , 2021 , 229, 120739	7.9	5
103	A review on vibrating beam-based micro/nano-gyroscopes. <i>Microsystem Technologies</i> ,1	1.7	5
102	Insights into Sensitivity of Wing Shape and Kinematic Parameters Relative to Aerodynamic Performance of Flapping Wing Nano Air Vehicles. <i>Drones</i> , 2019 , 3, 49	5.4	4
101	Insights on the point of contact analysis and characterization of constrained pipelines conveying fluid. <i>Nonlinear Dynamics</i> , 2018 , 93, 1261-1275	5	4
100	Insights on the continuous representations of piecewise-smooth nonlinear systems: limits of applicability and effectiveness. <i>Nonlinear Dynamics</i> ,1	5	4

99	Shock response of electrostatically coupled microbeams under the squeeze-film damping effect. <i>Acta Mechanica</i> , 2018 , 229, 5051-5065	2.1	4
98	Usefulness of inclined circular cylinders for designing ultra-wide bandwidth piezoelectric energy harvesters: experiments and computational investigations. <i>Energy</i> , 2021 , 122203	7.9	4
97	Enhancing energy harvesting from flow-induced vibrations of a circular cylinder using a downstream rectangular plate: An experimental study. <i>International Journal of Mechanical Sciences</i> , 2021 , 211, 106781	5.5	4
96	Vortex-induced vibration of a circular cylinder with nonlinear stiffness: prediction using forced vibration data. <i>Nonlinear Dynamics</i> ,1	5	4
95	Optimal design of insect wing shape for hovering nano air vehicles 2017 ,		3
94	Novel growing micro unmanned air vehicle: sizing process and spanning actuation 2017 ,		3
93	On the onset of bifurcation and nonlinear characterization of vortex-induced vibrations under varying initial conditions. <i>Nonlinear Dynamics</i> , 2020 , 99, 575-592	5	3
92	Size-dependent modeling and performance enhancement of functionally graded piezoelectric energy harvesters. <i>Journal of Nanoparticle Research</i> , 2020 , 22, 1	2.3	3
91	Enhancing piezoelectric energy harvesting from the flow-induced vibration of a circular cylinder using dual splitters. <i>Smart Materials and Structures</i> , 2021 , 30, 05LT01	3.4	3
90	Investigations on the performance of piezoelectric-flexoelectric energy harvesters. <i>Applied Energy</i> , 2021 , 288, 116611	10.7	3
89	Comparative investigations of multi-fidelity modeling on performance of electrostatically-actuated cracked micro-beams. <i>International Journal of Mechanical Sciences</i> , 2021 , 192, 106139	5.5	3
88	Nonlinear modeling and vibration mitigation of combined vortex-induced and base vibrations through energy harvesting absorbers. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021 , 95, 105655	3.7	3
87	Thermoelastic modeling and comparative analysis of biomass sensors under rippling deformation and magnetic field. <i>Applied Mathematical Modelling</i> , 2021 , 92, 196-222	4.5	3
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53	Piezoaeroelastic investigation on the control and energy harvesting of galloping systems 2016 ,		1
52	Nonlinear analysis of hybrid galloping energy harvesting system integrated with a nonlinear torsional spring 2018 ,		1
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