

Abdessattar Abdelkefi

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.

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	Uncertainty Quantification and Effectiveness of Cantilevered Pipeline Conveying Fluid with Constraints. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2022 , 63-66	0.3	
259	Comparative Analysis of Mechanical and Magnetic Amplitude Stoppers in an Energy Harvesting Absorber. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2022 , 109-112	0.3	
258	Nonlinear Dynamics and Characterization of Beam-Based Systems with Contact/Impact Boundaries. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2022 , 119-122	0.3	
257	Bifurcation Analysis of a Piecewise-Smooth Freeplay System. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2022 , 75-77	0.3	
256	Insights on the Bifurcation Behavior of a Freeplay System with Piecewise and Continuous Representations. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2022 , 79-81	0.3	
255	Parameter Uncertainty Effects on the Buckling Characteristics of Cylindrical Structures in a Thermal Environment. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2022 , 77-80	0.3	
254	Uncertainty Quantification of Axially Loaded Beams with Boundary Condition Imperfections. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2022 , 73-76	0.3	
253	Experimental hydrodynamic investigations on the effectiveness of inverted flag-based piezoelectric energy harvester in the wake of bluff body. <i>Ocean Engineering</i> , 2022 , 245, 110454	3.9	0
252	Nonlinear modeling and efficacy of VIV-based energy harvesters: Monostable and bistable designs. <i>Mechanical Systems and Signal Processing</i> , 2022 , 169, 108775	7.8	0
251	Nonlinear Analysis and Characterization of Piezoaeroelastic Energy Harvesters with Discontinuous Nonlinearities. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2022 , 231-234	0.3	
250	Characterization and interaction of geometric and contact/impact nonlinearities in dynamical systems. <i>Mechanical Systems and Signal Processing</i> , 2022 , 167, 108481	7.8	0
249	Effective design and characterization of flutter-based piezoelectric energy harvesters with discontinuous nonlinearities. <i>Energy</i> , 2022 , 238, 121662	7.9	2
248	Hydrokinetic power scavenging from galloping phenomenon with two juxtaposed bluff bodies. <i>Applied Ocean Research</i> , 2022 , 121, 103109	3.4	1
247	Applicability and efficacy of Galerkin-based approximation for solving the buckling and dynamics of nanobeams with higher-order boundary conditions. <i>European Journal of Mechanics, A/Solids</i> , 2022 , 94, 104596	3.7	0
246	Wake Propagation and Characteristics of a Multi-Rotor Unmanned Vehicle in Forward Flight. <i>Drones</i> , 2022 , 6, 130	5.4	
245	Nonlocal Timoshenko modeling effectiveness for carbon nanotube-based mass sensors. <i>European Journal of Mechanics, A/Solids</i> , 2021 , 104462	3.7	0
244	Effect of periodic metamaterial structures with different arrangement patterns on the effectiveness of hydroelastic energy harvesters: Computational investigation. <i>Ocean Engineering</i> , 2021 , 244, 110229	3.9	0

243	Numerical modeling of porous functionally graded shells response in large deflection. <i>Computers and Mathematics With Applications</i> , 2021 , 104, 59-70	2.7	
242	Nonlinear Analysis and Bifurcation Characteristics of Whirl Flutter in Unmanned Aerial Systems. <i>Drones</i> , 2021 , 5, 122	5.4	0
241	Multi-rotor wake propagation and flow development modeling: A review. <i>Progress in Aerospace Sciences</i> , 2021 , 127, 100762	8.8	2
240	Enhancement of Fixed-Wing Space Drone Performance Through Thermoelectric Power Generation. <i>Lecture Notes in Mechanical Engineering</i> , 2021 , 194-199	0.4	
239	Uncertainty analysis and stochastic characterization of carbon nanotube-based mass sensor with multiple deposited nanoparticles. <i>Sensors and Actuators A: Physical</i> , 2021 , 332, 113182	3.9	0
238	Insights on the crack modeling and effectiveness of piezoelectric energy harvesters. <i>Smart Materials and Structures</i> , 2021 , 30, 015030	3.4	
237	Aerodynamic analysis and structural integrity for optimal performance of sweeping and spanning morphing unmanned air vehicles. <i>Aerospace Science and Technology</i> , 2021 , 110, 106458	4.9	2
236	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
235	Nonlocal elasticity and boundary condition paradoxes: a review. <i>Journal of Nanoparticle Research</i> , 2021 , 23, 1	2.3	5
234	Investigations on the performance of piezoelectric-flexoelectric energy harvesters. <i>Applied Energy</i> , 2021 , 288, 116611	10.7	3
233	Insights on the potential of vibratory actuation mechanism for enhanced performance of flapping-wing drones. <i>Meccanica</i> , 2021 , 56, 2153	2.1	1
232	Crack severity and size dependent effects on the effectiveness and operability of micro/nanogyroscopes. <i>International Journal of Solids and Structures</i> , 2021 , 216, 94-107	3.1	0
231	Presence of Longitudinal Roll Structures during Synoptic Forced Conditions in Complex Terrain. <i>Atmosphere</i> , 2021 , 12, 737	2.7	
230	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
229	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
228	Comparative experimental investigation and effectiveness of sphere- and cylinder-based piezoelectric energy harvesters. <i>Smart Materials and Structures</i> , 2021 , 30, 08LT01	3.4	0
227	On the Aerodynamic Analysis and Conceptual Design of Bioinspired Multi-Flapping-Wing Drones. <i>Drones</i> , 2021 , 5, 64	5.4	2
226	Nonlocal Timoshenko representation and analysis of multi-layered functionally graded nanobeams. <i>Microsystem Technologies</i> , 2021 , 27, 893-911	1.7	6

225	Comparative analysis between surrounding viscoelastic media on the buckling characteristics of nanobeams. <i>Microsystem Technologies</i> , 2021 , 27, 3007-3024	1.7	1
224	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
223	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
222	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
221	Comparative design, hydrodynamic analysis, and physical performance of fish-like robots. <i>Applied Ocean Research</i> , 2021 , 106, 102443	3.4	2
220	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
219	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
218	Observations on the general nonlocal theory applied to axially loaded nanobeams. <i>Microsystem Technologies</i> , 2021 , 27, 739-761	1.7	3
217	Importance of Event Detection and Nonlinear Characterization of Dynamical Systems with Discontinuity Boundary 2021 ,		2
216	Three-dimensional computational fluid dynamics investigation on size effect of small-scale wind turbine blades. 2021 ,		1
215	Role of Electromechanical Coupling, Locomotion Type and Damping on the Effectiveness of Fish-Like Robot Energy Harvesters. <i>Energies</i> , 2021 , 14, 693	3.1	2
214	Probabilistic uncertainty and sensitivity analysis of a vibratory-based actuation mechanism for a bio-inspired flapping-wing system. <i>Acta Mechanica</i> , 2021 , 232, 3669-3685	2.1	
213	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
212	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
211	Relationship between the contact force strength and numerical inaccuracies in piecewise-smooth systems. <i>International Journal of Mechanical Sciences</i> , 2021 , 210, 106729	5.5	2
210	Effectiveness and nonlinear characterization of vibro-impact energy harvesting absorbers in controlling base-excited systems. <i>Smart Materials and Structures</i> , 2021 , 30, 095028	3.4	2
209	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
208	Application of sensitivity analysis and uncertainty quantification methods on the dynamic response of general nonlocal beams. <i>Applied Mathematical Modelling</i> , 2021 , 97, 322-343	4.5	2

207	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
206	Role of Active Morphing in the Aerodynamic Performance of Flapping Wings in Formation Flight. <i>Drones</i> , 2021 , 5, 90	5.4	1
205	Considerations for increasing the survivability of Gannet-inspired drones during diving. <i>Ocean Engineering</i> , 2021 , 238, 109681	3.9	
204	Predefined angle of attack and corner shape effects on the effectiveness of square-shaped galloping energy harvesters. <i>Applied Energy</i> , 2021 , 302, 117522	10.7	2
203	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
202	Fatigue in piezoelectric ceramic vibrational energy harvesting: A review. <i>Applied Energy</i> , 2020 , 270, 115160	10.7	19
201	Wind-induced vibration of structural cables. <i>Nonlinear Dynamics</i> , 2020 , 100, 351-421	5	22
200	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
199	Computational modeling and optimization of small-scale wind turbines for low-power applications. 2020 ,		2
198	Investigations on the buckling and dynamics of diving-inspired systems when entering water. <i>Bioinspiration and Biomimetics</i> , 2020 , 15, 036015	2.6	2
197	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
196	Surface integrity and size dependent modeling and performance of non-uniform flexoelectric energy harvesters. <i>Microsystem Technologies</i> , 2020 , 26, 3629-3656	1.7	1
195	Comparative Study of Piezoelectric Vortex-Induced Vibration-Based Energy Harvesters with Multi-Stability Characteristics. <i>Energies</i> , 2020 , 13, 71	3.1	18
194	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
193	Nonlinear size dependent analysis and effectiveness of nanocrystalline micro/nanogyroscopes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 117, 113808	3	9
192	Nonlinear modeling and performance analysis of cracked beam microgyroscopes. <i>International Journal of Mechanical Sciences</i> , 2020 , 188, 105965	5.5	6
191	Size-dependent modeling and performance enhancement of functionally graded piezoelectric energy harvesters. <i>Journal of Nanoparticle Research</i> , 2020 , 22, 1	2.3	3
190	Modeling and Investigations on Surface Colors of Wings on the Performance of Albatross-Inspired Mars Drones and Thermoelectric Generation Capabilities. <i>Drones</i> , 2020 , 4, 43	5.4	1

189	Towards Bio-Inspiration, Development, and Manufacturing of a Flapping-Wing Micro Air Vehicle. <i>Drones</i> , 2020 , 4, 39	5.4	1
188	Multifidelity modeling and comparative analysis of electrically coupled microbeams under squeeze-film damping effect. <i>Nonlinear Dynamics</i> , 2020 , 99, 445-460	5	7
187	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
186	An investigation into the electrostatic force representation for electrically actuated microelectromechanical systems. <i>Microsystem Technologies</i> , 2020 , 26, 3685-3704	1.7	
185	Buckling response of functionally graded nanoplates under combined thermal and mechanical loadings. <i>Journal of Nanoparticle Research</i> , 2020 , 22, 1	2.3	
184	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
183	Enhanced design considerations on the buckling and dynamics of Gannet-inspired systems during water entry. <i>Bioinspiration and Biomimetics</i> , 2020 ,	2.6	1
182	Neutral axis modeling and effectiveness of functionally graded piezoelectric energy harvesters. <i>Composite Structures</i> , 2019 , 213, 25-36	5.3	9
181	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
180	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
179	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
178	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
177	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
176	Nonlinear size dependent modeling and performance analysis of flexoelectric energy harvesters. <i>Microsystem Technologies</i> , 2019 , 25, 3899-3921	1.7	8
175	Nonlinear analysis and characteristics of electrically-coupled microbeams under mechanical shock. <i>Microsystem Technologies</i> , 2019 , 25, 829-843	1.7	7
174	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
173	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
172	Numerical and experimental comparative performance analysis of emerging spherical-caged drones. <i>Aerospace Science and Technology</i> , 2019 , 95, 105512	4.9	7

171	Nonlinear Analysis and Performance of Electret-Based Microcantilever Energy Harvesters. <i>Energies</i> , 2019 , 12, 4249	3.1	5
170	Solving Large Dynamical Systems by Constraint Sampling. <i>Communications in Computer and Information Science</i> , 2019 , 3-15	0.3	2
169	Towards Improved Hybrid Actuation Mechanisms for Flapping Wing Micro Air Vehicles: Analytical and Experimental Investigations. <i>Drones</i> , 2019 , 3, 73	5.4	8
168	A review on the modeling, materials, and actuators of aquatic unmanned vehicles. <i>Ocean Engineering</i> , 2019 , 172, 257-285	3.9	28
167	Nonlinear modeling and experimental verification of Gannet-inspired beam systems during diving. <i>Bioinspiration and Biomimetics</i> , 2019 , 14, 026002	2.6	2
166	Conceptual design and optimization of a tilt-rotor micro air vehicle. <i>Chinese Journal of Aeronautics</i> , 2019 , 32, 369-381	3.7	22
165	Experimental investigation of aerodynamic energy harvester with different interference cylinder cross-sections. <i>Energy</i> , 2019 , 167, 970-981	7.9	55
164	Characteristics and comparative analysis of piezoelectric-electromagnetic energy harvesters from vortex-induced oscillations. <i>Nonlinear Dynamics</i> , 2019 , 95, 3309-3333	5	18
163	Sizing and aerodynamic analysis of biplane flapping wing nano air vehicle: theory and experiments 2019 ,		1
162	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
161	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
160	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
159	Morphing and growing micro unmanned air vehicle: Sizing process and stability. <i>Aerospace Science and Technology</i> , 2018 , 78, 130-146	4.9	29
158	Insights on the point of contact analysis and characterization of constrained pipelines conveying fluid. <i>Nonlinear Dynamics</i> , 2018 , 93, 1261-1275	5	4
157	Sizing and performance analysis of albatross-inspired tilt-wing unmanned air vehicle 2018 ,		5
156	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
155	Evolution of space drones for planetary exploration: A review. <i>Progress in Aerospace Sciences</i> , 2018 , 97, 61-105	8.8	65
154	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

153	Analysis and optimization of a tilt rotor unmanned air vehicle for long distances delivery and payload transportation 2018 ,		5
152	Characteristics and comparative analysis of monostable and bistable piezomagnetoelastic energy harvesters under vortex-induced vibrations 2018 ,		2
151	Buckling characteristics of nanocrystalline nano-beams. <i>International Journal of Mechanics and Materials in Design</i> , 2018 , 14, 71-89	2.5	10
150	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
149	Nonlinear analysis of hybrid galloping energy harvesting system integrated with a nonlinear torsional spring 2018 ,		1
148	Impact of albatross wing colors on their skin friction drag: thermal analysis and blasius boundary layer solution 2018 ,		1
147	Performance analysis of fixed wing space drones in different solar system bodies. <i>Acta Astronautica</i> , 2018 , 152, 27-48	2.9	14
146	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
145	Modeling and Performance Enhancement of Low-Frequency Energy Harvesters 2018 , 826-862		
144	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
143	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
142	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
141	Classification of biological and bioinspired aquatic systems: A review. <i>Ocean Engineering</i> , 2018 , 148, 75-114	3.4	62
140	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
139	Shock response of electrostatically coupled microbeams under the squeeze-film damping effect. <i>Acta Mechanica</i> , 2018 , 229, 5051-5065	2.1	4
138	Aerodynamic performance of albatross-inspired wing shape for marine unmanned air vehicles 2018 ,		6
137	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
136	Optimal design and energy harvesting performance of carangiform fish-like robotic system. <i>Smart Materials and Structures</i> , 2018 , 27, 075045	3.4	9

135	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
134	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
133	Optimal design of insect wing shape for hovering nano air vehicles 2017 ,		3
132	On the potential of monostable piezomagnetoelastic energy harvesting from vortex-induced vibrations 2017 ,		1
131	Characteristics and control of base-excited dynamical system through a vibration absorber energy harvester 2017 ,		1
130	Novel growing micro unmanned air vehicle: sizing process and spanning actuation 2017 ,		3
129	Effects of birds' wing color on their flight performance for biomimetics purposes 2017 ,		1
128	On the nonlinear dynamics and performance of hybrid piezoelectric-inductive energy harvesters subjected to vortex-induced vibrations 2017 ,		1
127	Free vibration analysis of cantilever open-hole composite plates. <i>Meccanica</i> , 2017 , 52, 2819-2836	2.1	12
126	Defining a conceptual design for a tilt-rotor micro air vehicle for a well-defined mission 2017 ,		6
125	Conceptual design and analysis of separation flight for an unmaned air vehicle to five micro air vehicles 2017 ,		10
124	Forward flight capabilities and performances of bio-inspired flapping wing nano air vehicles 2017 ,		2
123	User subroutine for fatigue modeling of wing structure of flapping micro air vehicle 2017 ,		1
122	Towards control of cross-flow-induced vibrations based on energy harvesting. <i>Nonlinear Dynamics</i> , 2017 , 88, 2329-2346	5	15
121	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
120	Classifications, applications, and design challenges of drones: A review. <i>Progress in Aerospace Sciences</i> , 2017 , 91, 99-131	8.8	471
119	Reporting the sensitivities and resolutions of CNT-based resonators for mass sensing. <i>Materials and Design</i> , 2017 , 114, 591-598	8.1	27
118	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

117	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
116	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
115	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
114	Piezomagnetoelastic energy harvesting from vortex-induced vibrations using monostable characteristics. <i>Applied Energy</i> , 2017 , 203, 142-153	10.7	104
113	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
112	Nonlinear analysis of rotating nanocrystalline silicon microbeams for microgyroscope applications. <i>Microsystem Technologies</i> , 2017 , 23, 5931-5946	1.7	22
111	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
110	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
109	New insights on the applicability of Eringen's nonlocal theory. <i>International Journal of Mechanical Sciences</i> , 2017 , 121, 67-75	5.5	60
108	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
107	Improving the performance of aeroelastic energy harvesters by an interference cylinder. <i>Applied Physics Letters</i> , 2017 , 111, 073904	3.4	52
106	Performance analysis of differential-frequency microgyroscopes made of nanocrystalline material. <i>International Journal of Mechanical Sciences</i> , 2017 , 133, 495-503	5.5	11
105	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
104	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
103	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
102	Low-frequency Zigzag energy harvesters operating in torsion-dominant mode. <i>Applied Energy</i> , 2017 , 204, 413-419	10.7	36
101	Review of marine animals and bioinspired robotic vehicles: Classifications and characteristics. <i>Progress in Aerospace Sciences</i> , 2017 , 93, 95-119	8.8	18
100	Control of base-excited dynamical systems through piezoelectric energy harvesting absorber. <i>Smart Materials and Structures</i> , 2017 , 26, 095013	3.4	15

99	Predictions of the frequencies of bending-torsion coupled laminated composite plates with discontinuities: Novel analytical modeling and experimental validation. <i>Composite Structures</i> , 2017 , 180, 334-350	5.3	2
98	Methodologies for weight estimation of fixed and flapping wing micro air vehicles. <i>Meccanica</i> , 2017 , 52, 2047-2068	2.1	24
97	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
96	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
95	Modeling and Design Enhancement of Differential-Frequency Microgyroscopes Made of Nanocrystalline Material 2017 ,		1
94	Nonlinear analysis and power improvement of broadband low-frequency piezomagnetoelastic energy harvesters. <i>Nonlinear Dynamics</i> , 2016 , 83, 41-56	5	33
93	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
92	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
91	Nonlinear aeroelastic characterization of wind turbine blades. <i>JVC/Journal of Vibration and Control</i> , 2016 , 22, 621-631	2	9
90	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
89	Representation and comparative study of electromagnetic-piezoelectric galloping energy harvesters 2016 ,		1
88	Piezoaeroelastic investigation on the control and energy harvesting of galloping systems 2016 ,		1
87	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
86	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
85	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
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