

Kourosh Shoele

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,039
citations

567281

15
h-index

501196

28
g-index

46
all docs

46
docs citations

46
times ranked

887
citing authors

#	ARTICLE	IF	CITATIONS
1	Harvesting ambient wind energy with an inverted piezoelectric flag. <i>Applied Energy</i> , 2017, 194, 212-222.	10.1	317
2	Energy harvesting by flow-induced flutter in a simple model of an inverted piezoelectric flag. <i>Journal of Fluid Mechanics</i> , 2016, 790, 582-606.	3.4	96
3	Propulsion performance of a skeleton-strengthened fin. <i>Journal of Experimental Biology</i> , 2008, 211, 2087-2100.	1.7	82
4	Computational study of flow-induced vibration of a reed in a channel and effect on convective heat transfer. <i>Physics of Fluids</i> , 2014, 26, .	4.0	81
5	Leading edge strengthening and the propulsion performance of flexible ray fins. <i>Journal of Fluid Mechanics</i> , 2012, 693, 402-432.	3.4	54
6	Performance of a wing with nonuniform flexibility in hovering flight. <i>Physics of Fluids</i> , 2013, 25, .	4.0	52
7	Flutter instability of a thin flexible plate in a channel. <i>Journal of Fluid Mechanics</i> , 2016, 786, 29-46.	3.4	52
8	Numerical simulation of a pectoral fin during labriform swimming. <i>Journal of Experimental Biology</i> , 2010, 213, 2038-2047.	1.7	48
9	Fluid-structure interactions of skeleton-reinforced fins: performance analysis of a paired fin in lift-based propulsion. <i>Journal of Experimental Biology</i> , 2009, 212, 2679-2690.	1.7	29
10	Performance of synchronized fins in biomimetic propulsion. <i>Bioinspiration and Biomimetics</i> , 2015, 10, 026008.	2.9	21
11	Axisymmetric squirmers in Stokes fluid with nonuniform viscosity. <i>Physical Review Fluids</i> , 2020, 5, .	2.5	20
12	Flow-induced vibrations of a deformable ring. <i>Journal of Fluid Mechanics</i> , 2010, 650, 343-362.	3.4	18
13	Heat transfer enhancement in laminar flow heat exchangers due to flapping flags. <i>Physics of Fluids</i> , 2020, 32, .	4.0	18
14	One size fits all?: A simulation framework for face-mask fit on population-based faces. <i>PLoS ONE</i> , 2021, 16, e0252143.	2.5	18
15	Aerodynamic characterization of barge and spar type floating offshore wind turbines at different sea states. <i>Wind Energy</i> , 2020, 23, 2087-2112.	4.2	16
16	Perimeter leakage of face masks and its effect on the mask's efficacy. <i>Physics of Fluids</i> , 2022, 34, .	4.0	16
17	Drafting mechanisms between a dolphin mother and calf. <i>Journal of Theoretical Biology</i> , 2015, 382, 363-377.	1.7	10
18	Geometrically weighted modal decomposition techniques. <i>Journal of Fluid Mechanics</i> , 2021, 911, .	3.4	10

#	ARTICLE	IF	CITATIONS
19	Effects of nonuniform viscosity on ciliary locomotion. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	10
20	Bridge the gap: correlate face mask leakage and facial features with 3D morphable face models. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2022, 32, 735-743.	3.9	10
21	Aero-thermo-elastic Simulation of Shock-Boundary Layer Interaction over a Compliant Surface. , 2018, , .		9
22	Fluid-structure interaction of thin flexible bodies in multi-material multi-phase systems. <i>Journal of Computational Physics</i> , 2021, 429, 110008.	3.8	8
23	Flapping dynamics of a flag in the presence of thermal convection. <i>Journal of Fluid Mechanics</i> , 2020, 895, .	3.4	6
24	Mechanical design, instrumentation and measurements from a hemoacoustic cardiac phantom. , 2015, , .		4
25	Interaction of an Oscillating Flexible Plate and Nucleate Pool Boiling Vapor Bubble: Fluid-Structure Interaction in a Multimaterial Multiphase System. , 2018, , .		4
26	Mode competition in a plunging foil with an active flap: A multiscale modal analysis approach. <i>Physical Review Fluids</i> , 2022, 7, .	2.5	4
27	Formation of a strong negative wake behind a helical swimmer in a viscoelastic fluid. <i>Journal of Fluid Mechanics</i> , 2022, 942, .	3.4	4
28	Aeroelastic Flutter in the Presence of an Active Flap. , 2018, , .		3
29	Aspect ratio effects in wind energy harvesting using piezoelectric inverted flags. , 2019, , .		3
30	Aspect ratio-dependent hysteresis response of a heavy inverted flag. <i>Journal of Fluid Mechanics</i> , 2022, 942, .	3.4	3
31	Branching pattern of flexible trees for environmental load mitigation. <i>Bioinspiration and Biomimetics</i> , 2022, 17, 056003.	2.9	3
32	Efficient electronic cooling via flow-induced vibrations. , 2017, , .		2
33	Numerical and Experimental Investigations of Energy Harvesting From Piezoelectric Inverted Flags. , 2021, , .		2
34	A Novel Supermesh Method for Computing Solutions to the Multi-material Stefan Problem with Complex Deforming Interfaces and Microstructure. <i>Journal of Scientific Computing</i> , 2022, 91, 1.	2.3	2
35	Vortex interactions in the wake of the axisymmetric body in uniform cross-stream. , 2021, , .		1
36	Investigation of the Role of Face Shape on the Flow Dynamics and Effectiveness of Face Masks. <i>Fluids</i> , 2022, 7, 209.	1.7	1

#	ARTICLE	IF	CITATIONS
37	Addendum to: "Drafting mechanisms between a dolphin mother and calf" [J. Theor. Biol. 382 (2015) 363-377]. Journal of Theoretical Biology, 2016, 389, 310.	1.7	0
38	A Combined Experimental and Numerical Study of the Floating Wind Turbines. , 2018, , .		0
39	Resolvent Analysis of Morphing Bodies. , 2021, , .		0
40	Analysis of Shock-wave Boundary Layer Interaction in Compressible Flows over Rigid and Flexible Surfaces. , 2021, , .		0
41	Geometrically Weighted Modal Decomposition Method for Fluid-Structure Interaction Problems. , 2021, , .		0
42	Numerical Modeling of the Performance of Ray Fins in Fish Locomotion. The IMA Volumes in Mathematics and Its Applications, 2012, , 151-157.	0.5	0
43	Fluid dynamics of frozen precipitation at the air-water interface. Journal of Fluid Mechanics, 2022, 933, .	3.4	0
44	10.1063/5.0086320.2. , 2022, , .		0
45	10.1063/5.0086320.1. , 2022, , .		0