

Mohammad-Reza Alam

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,237
citations

394286

19
h-index

377752

34
g-index

54
all docs

54
docs citations

54
times ranked

1121
citing authors

#	ARTICLE	IF	CITATIONS
1	Ocean wave energy in the United States: Current status and future perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 74, 1300-1313.	8.2	151
2	Multi-stable mechanisms for high-efficiency and broadband ocean wave energy harvesting. <i>Applied Energy</i> , 2017, 197, 292-302.	5.1	150
3	Continuous profile flexural GRIN lens: Focusing and harvesting flexural waves. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	58
4	Broadband Cloaking in Stratified Seas. <i>Physical Review Letters</i> , 2012, 108, 084502.	2.9	52
5	Shape optimization of wave energy converters for broadband directional incident waves. <i>Ocean Engineering</i> , 2019, 174, 186-200.	1.9	48
6	Oblique sub- and super-harmonic Bragg resonance of surface waves by bottom ripples. <i>Journal of Fluid Mechanics</i> , 2010, 643, 437-447.	1.4	47
7	Bragg resonance of waves in a two-layer fluid propagating over bottom ripples. Part II. Numerical simulation. <i>Journal of Fluid Mechanics</i> , 2009, 624, 225-253.	1.4	44
8	Bragg resonance of waves in a two-layer fluid propagating over bottom ripples. Part I. Perturbation analysis. <i>Journal of Fluid Mechanics</i> , 2009, 624, 191-224.	1.4	42
9	Cloaking in shallow-water waves via nonlinear medium transformation. <i>Journal of Fluid Mechanics</i> , 2015, 778, 273-287.	1.4	42
10	Ultrasonic sculpting of virtual optical waveguides in tissue. <i>Nature Communications</i> , 2019, 10, 92.	5.8	39
11	A new triad resonance between co-propagating surface and interfacial waves. <i>Journal of Fluid Mechanics</i> , 2012, 691, 267-278.	1.4	33
12	The evolution of air resonance power efficiency in the violin and its ancestors. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20140905.	1.0	30
13	Landslide tsunamis in lakes. <i>Journal of Fluid Mechanics</i> , 2015, 772, 784-804.	1.4	25
14	Waves due to an oscillating and translating disturbance in a two-layer density-stratified fluid. <i>Journal of Engineering Mathematics</i> , 2009, 65, 179-200.	0.6	24
15	Nonlinear analysis of an actuated seafloor-mounted carpet for a high-performance wave energy extraction. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012, 468, 3153-3171.	1.0	24
16	Predictability horizon of oceanic rogue waves. <i>Geophysical Research Letters</i> , 2014, 41, 8477-8485.	1.5	24
17	Broadband cloaking of flexural waves. <i>Physical Review E</i> , 2017, 95, 063002.	0.8	24
18	Attenuation of long interfacial waves over a randomly rough seabed. <i>Journal of Fluid Mechanics</i> , 2007, 587, 73-96.	1.4	22

#	ARTICLE	IF	CITATIONS
19	Dromions of flexural-gravity waves. <i>Journal of Fluid Mechanics</i> , 2013, 719, 1-13.	1.4	22
20	Versatile low-Reynolds-number swimmer with three-dimensional maneuverability. <i>Physical Review E</i> , 2014, 90, 053006.	0.8	21
21	Hydrodynamic Choreographies of Microswimmers. <i>Scientific Reports</i> , 2018, 8, 3670.	1.6	19
22	Attenuation of short surface waves by the sea floor via nonlinear sub-harmonic interaction. <i>Journal of Fluid Mechanics</i> , 2011, 689, 529-540.	1.4	18
23	Microswimmer-induced chaotic mixing. <i>Journal of Fluid Mechanics</i> , 2015, 779, 669-683.	1.4	18
24	Real time hybrid modeling for ocean wave energy converters. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 43, 784-795.	8.2	18
25	In situ 3D reconfigurable ultrasonically sculpted optical beam paths. <i>Optics Express</i> , 2019, 27, 7249.	1.7	18
26	Closed-loop separation control: An analytic approach. <i>Physics of Fluids</i> , 2006, 18, 043601.	1.6	17
27	Broadband Bending of Flexural Waves: Acoustic Shapes and Patterns. <i>Scientific Reports</i> , 2018, 8, 11219.	1.6	17
28	Real-time in situ prediction of ocean currents. <i>Ocean Engineering</i> , 2021, 228, 108922.	1.9	17
29	Terminal retrograde turn of rolling rings. <i>Physical Review E</i> , 2015, 92, 032913.	0.8	15
30	Ships advancing near the critical speed in a shallow channel with a randomly uneven bed. <i>Journal of Fluid Mechanics</i> , 2008, 616, 397-417.	1.4	14
31	Shore protection by oblique seabed bars. <i>Journal of Fluid Mechanics</i> , 2017, 815, 481-510.	1.4	14
32	Frequency-dependent higher-order Stokes singularities near a planar elastic boundary: Implications for the hydrodynamics of an active microswimmer near an elastic interface. <i>Physical Review E</i> , 2019, 100, 032610.	0.8	14
33	Surface gravity-wave lensing. <i>Physical Review E</i> , 2014, 89, 023012.	0.8	13
34	Flow characteristics of <i>Chlamydomonas</i> result in purely hydrodynamic scattering. <i>Physical Review E</i> , 2018, 98, 012603.	0.8	13
35	Active cloaking in Stokes flows via reinforcement learning. <i>Journal of Fluid Mechanics</i> , 2020, 903, .	1.4	13
36	Rapid phase-resolved prediction of nonlinear dispersive waves using machine learning. <i>Applied Ocean Research</i> , 2021, 117, 102920.	1.8	12

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37	Interaction of surface waves with an actuated submerged flexible plate: Optimization for wave energy extraction. Journal of Fluids and Structures, 2018, 81, 673-692.	1.5	9
38	Brownian motion of tethered nanowires. Physical Review E, 2014, 89, 053010.	0.8	8
39	Fabry-Perot resonance of water waves. Physical Review E, 2015, 92, 043015.	0.8	8
40	Inherently unstable internal gravity waves due to resonant harmonic generation. Journal of Fluid Mechanics, 2017, 811, 400-420.	1.4	8
41	The Experimental Realization of an Artificial Low-Reynolds-Number Swimmer with Three-Dimensional Maneuverability. , 2019, , .		6
42	Resonant-wave signature of an oscillating and translating disturbance in a two-layer density stratified fluid. Journal of Fluid Mechanics, 2011, 675, 477-494.	1.4	5
43	Stealthy movements and concealed swarms of swimming micro-robots. Physics of Fluids, 2020, 32, 071901.	1.6	5
44	A Flexible Seafloor Carpet for High-Performance Wave Energy Extraction. , 2012, , .		4
45	The "Wave Bridge" for bypassing oceanic wave momentum. Journal of Ocean Engineering and Marine Energy, 2015, 1, 395-404.	0.9	3
46	Bragg Resonance of Gravity Waves and Ocean Renewable Energy. , 2015, , 211-225.		3
47	Reply to: The overwhelming role of ballistic photons in ultrasonically guided light through tissue. Nature Communications, 2022, 13, 1872.	5.8	2
48	Suppression of epileptic seizures via Anderson localization. Journal of the Royal Society Interface, 2017, 14, 20160872.	1.5	1
49	Sensitivity of internal wave energy distribution over seabed corrugations to adjacent seabed features. Journal of Fluid Mechanics, 2017, 824, 74-96.	1.4	1
50	Oblique internal-wave chain resonance over seabed corrugations. Journal of Fluid Mechanics, 2017, 833, 538-562.	1.4	1
51	Why does water shoot higher if we partially block the garden hose outlet?. American Journal of Physics, 2021, 89, 567-574.	0.3	1
52	Sheltering the Shore via Nearshore Oblique Seabed Bars. , 2016, , .		0
53	Statistical Investigation of the Surface Profile of Rogue Waves in 2D Non-Breaking Seas. , 2016, , .		0
54	Propulsion and Mixing Generated by the Digitized Gait of Caenorhabditis elegans. Physical Review Applied, 2019, 11, .	1.5	0