

Mohammad-Reza Alam

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,237
citations

393982

19
h-index

377514

34
g-index

54
all docs

54
docs citations

54
times ranked

1121
citing authors

#	ARTICLE	IF	CITATIONS
1	Reply to: The overwhelming role of ballistic photons in ultrasonically guided light through tissue. Nature Communications, 2022, 13, 1872.	5.8	2
2	Real-time in situ prediction of ocean currents. Ocean Engineering, 2021, 228, 108922.	1.9	17
3	Why does water shoot higher if we partially block the garden hose outlet?. American Journal of Physics, 2021, 89, 567-574.	0.3	1
4	Rapid phase-resolved prediction of nonlinear dispersive waves using machine learning. Applied Ocean Research, 2021, 117, 102920.	1.8	12
5	Active cloaking in Stokes flows via reinforcement learning. Journal of Fluid Mechanics, 2020, 903, .	1.4	13
6	Stealthy movements and concealed swarms of swimming micro-robots. Physics of Fluids, 2020, 32, 071901.	1.6	5
7	Frequency-dependent higher-order Stokes singularities near a planar elastic boundary: Implications for the hydrodynamics of an active microswimmer near an elastic interface. Physical Review E, 2019, 100, 032610.	0.8	14
8	Shape optimization of wave energy converters for broadband directional incident waves. Ocean Engineering, 2019, 174, 186-200.	1.9	48
9	Propulsion and Mixing Generated by the Digitized Gait of Caenorhabditis elegans. Physical Review Applied, 2019, 11, .	1.5	0
10	The Experimental Realization of an Artificial Low-Reynolds-Number Swimmer with Three-Dimensional Maneuverability. , 2019, , .		6
11	Ultrasonic sculpting of virtual optical waveguides in tissue. Nature Communications, 2019, 10, 92.	5.8	39
12	In situ 3D reconfigurable ultrasonically sculpted optical beam paths. Optics Express, 2019, 27, 7249.	1.7	18
13	Hydrodynamic Choreographies of Microswimmers. Scientific Reports, 2018, 8, 3670.	1.6	19
14	Continuous profile flexural GRIN lens: Focusing and harvesting flexural waves. Applied Physics Letters, 2018, 112, .	1.5	58
15	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
16	Broadband Bending of Flexural Waves: Acoustic Shapes and Patterns. Scientific Reports, 2018, 8, 11219.	1.6	17
17	Flow characteristics of <i>Chlamydomonas</i> result in purely hydrodynamic scattering. Physical Review E, 2018, 98, 012603.	0.8	13
18	Suppression of epileptic seizures via Anderson localization. Journal of the Royal Society Interface, 2017, 14, 20160872.	1.5	1

#	ARTICLE	IF	CITATIONS
19	Shore protection by oblique seabed bars. <i>Journal of Fluid Mechanics</i> , 2017, 815, 481-510.	1.4	14
20	Multi-stable mechanisms for high-efficiency and broadband ocean wave energy harvesting. <i>Applied Energy</i> , 2017, 197, 292-302.	5.1	150
21	Inherently unstable internal gravity waves due to resonant harmonic generation. <i>Journal of Fluid Mechanics</i> , 2017, 811, 400-420.	1.4	8
22	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
23	Sensitivity of internal wave energy distribution over seabed corrugations to adjacent seabed features. <i>Journal of Fluid Mechanics</i> , 2017, 824, 74-96.	1.4	1
24	Oblique internal-wave chain resonance over seabed corrugations. <i>Journal of Fluid Mechanics</i> , 2017, 833, 538-562.	1.4	1
25	Broadband cloaking of flexural waves. <i>Physical Review E</i> , 2017, 95, 063002.	0.8	24
26	Sheltering the Shore via Nearshore Oblique Seabed Bars. , 2016, , .		0
27	Statistical Investigation of the Surface Profile of Rogue Waves in 2D Non-Breaking Seas. , 2016, , .		0
28	Landslide tsunamis in lakes. <i>Journal of Fluid Mechanics</i> , 2015, 772, 784-804.	1.4	25
29	Cloaking in shallow-water waves via nonlinear medium transformation. <i>Journal of Fluid Mechanics</i> , 2015, 778, 273-287.	1.4	42
30	Microswimmer-induced chaotic mixing. <i>Journal of Fluid Mechanics</i> , 2015, 779, 669-683.	1.4	18
31	Terminal retrograde turn of rolling rings. <i>Physical Review E</i> , 2015, 92, 032913.	0.8	15
32	Fabry-Perot resonance of water waves. <i>Physical Review E</i> , 2015, 92, 043015.	0.8	8
33	The "Wave Bridge" for bypassing oceanic wave momentum. <i>Journal of Ocean Engineering and Marine Energy</i> , 2015, 1, 395-404.	0.9	3
34	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
35	Real time hybrid modeling for ocean wave energy converters. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 43, 784-795.	8.2	18
36	Bragg Resonance of Gravity Waves and Ocean Renewable Energy. , 2015, , 211-225.		3

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37	Predictability horizon of oceanic rogue waves. <i>Geophysical Research Letters</i> , 2014, 41, 8477-8485.	1.5	24
38	Brownian motion of tethered nanowires. <i>Physical Review E</i> , 2014, 89, 053010.	0.8	8
39	Versatile low-Reynolds-number swimmer with three-dimensional maneuverability. <i>Physical Review E</i> , 2014, 90, 053006.	0.8	21
40	Surface gravity-wave lensing. <i>Physical Review E</i> , 2014, 89, 023012.	0.8	13
41	Dromions of flexural-gravity waves. <i>Journal of Fluid Mechanics</i> , 2013, 719, 1-13.	1.4	22
42	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
43	A new triad resonance between co-propagating surface and interfacial waves. <i>Journal of Fluid Mechanics</i> , 2012, 691, 267-278.	1.4	33
44	Broadband Cloaking in Stratified Seas. <i>Physical Review Letters</i> , 2012, 108, 084502.	2.9	52
45	A Flexible Seafloor Carpet for High-Performance Wave Energy Extraction. , 2012, , .		4
46	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
47	Resonant-wave signature of an oscillating and translating disturbance in a two-layer density stratified fluid. <i>Journal of Fluid Mechanics</i> , 2011, 675, 477-494.	1.4	5
48	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
49	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
50	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
51	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
52	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
53	Attenuation of long interfacial waves over a randomly rough seabed. <i>Journal of Fluid Mechanics</i> , 2007, 587, 73-96.	1.4	22
54	Closed-loop separation control: An analytic approach. <i>Physics of Fluids</i> , 2006, 18, 043601.	1.6	17