Hayley H Shen

List of Publications by Year
in descending order

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64 papers	1,807 citations	236925 25 h-index	289244 40 g-index
72 all docs	72 docs citations	72 times ranked	829 citing authors

#	Article	IF	Citations
1	Modeling and Observations of Wave Energy Attenuation in Fields of Colliding Ice Floes. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2022, , 167-182.	0.2	0
2	Wave-Ice Interaction Models and Experimental Observations. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2022, , 183-200.	0.2	0
3	Wave-influenced formation of new ice: Model building and a test case. Ocean Modelling, 2021, 167, 101878.	2.4	2
4	An experimental study of gravity waves through segmented floating viscoelastic covers. Applied Ocean Research, 2020, 101, 102233.	4.1	5
5	Comparison of ice and wind-wave modules in WAVEWATCH IIIÂ® in the Barents Sea. Cold Regions Science and Technology, 2020, 172, 103008.	3.5	6
6	Spectral attenuation of ocean waves in pack ice and its application in calibrating viscoelastic wave-in-ice models. Cryosphere, 2020, 14, 2053-2069.	3.9	8
7	Wave Attenuation by Sea Ice Turbulence. Geophysical Research Letters, 2019, 46, 6796-6803.	4.0	42
8	Floe Size Effect on Gravity Wave Propagation Through Ice Covers. Journal of Geophysical Research: Oceans, 2019, 124, 320-334.	2.6	18
9	Wave energy attenuation in fields of colliding ice floes â€“ Part 2: AÂlaboratory case study. Cryosphere, 2019, 13, 2901-2914.	3.9	22
10	Wave energy attenuation in fields of colliding ice floes â€“ Part 1: Discrete-element modelling of dissipation due to iceâ€“water drag. Cryosphere, 2019, 13, 2887-2900.	3.9	21
11	Modelling ocean waves in ice-covered seas. Applied Ocean Research, 2019, 83, 30-36.	4.1	23
12	Overview of the Arctic Sea State and Boundary Layer Physics Program. Journal of Geophysical Research: Oceans, 2018, 123, 8674-8687.	2.6	96
13	An experimental study on gravity waves through a floating viscoelastic cover. Cold Regions Science and Technology, 2018, 155, 289-299.	3.5	24
14	Three-layer viscoelastic model with eddy viscosity effect for flexural-gravity wave propagation through ice cover. Ocean Modelling, 2018, 131, 15-23.	2.4	18
15	On the Ocean Wave Attenuation Rate in Greaseâ€Pancake Ice, a Comparison of Viscous Layer Propagation Models With Field Data. Journal of Geophysical Research: Oceans, 2018, 123, 5933-5948.	2.6	16
16	Rollover of Apparent Wave Attenuation in Ice Covered Seas. Journal of Geophysical Research: Oceans, 2017, 122, 8557-8566.	2.6	31
17	Nature of Wave Modes in a Coupled Viscoelastic Layer over Water. Journal of Engineering Mechanics - ASCE, 2017, 143, 04017114.	2.9	16
18	An experimental study on the interactions between surface waves and floating viscoelastic covers. Wave Motion, 2017, 70, 195-208.	2.0	29

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19	Calibrating a Viscoelastic Sea Ice Model for Wave Propagation in the Arctic Fall Marginal Ice Zone. Journal of Geophysical Research: Oceans, 2017, 122, 8770-8793.	2.6	73
20	The Balance of Ice, Waves, and Winds in the Arctic Autumn. Eos, 2017, , .	0.1	4
21	Wind and wave influences on sea ice floe size and leads in the <scp>B</scp>eaufort and <scp>C</scp>hukchi <scp>S</scp>eas during the summerâ€fall transition 2014. Journal of Geophysical Research: Oceans, 2016, 121, 1502-1525.	2.6	27
22	A diffusion approximation for ocean wave scatterings by randomly distributed ice floes. Ocean Modelling, 2016, 107, 21-27.	2.4	14
23	Emerging trends in the sea state of the Beaufort and Chukchi seas. Ocean Modelling, 2016, 105, 1-12.	2.4	78
24	Dissipation of wind waves by pancake and frazil ice in the autumn Beaufort Sea. Journal of Geophysical Research: Oceans, 2016, 121, 7991-8007.	2.6	96
25	Comparison of wave propagation through ice covers in calm and storm conditions. Geophysical Research Letters, 2015, 42, 5935-5941.	4.0	34
26	Wave propagation in frazil/pancake, pancake, and fragmented ice covers. Cold Regions Science and Technology, 2015, 113, 71-80.	3.5	32
27	Ocean wave transmission and reflection by viscoelastic ice covers. Ocean Modelling, 2015, 92, 1-10.	2.4	11
28	Modeling ocean wave propagation under sea ice covers. Acta Mechanica Sinica/Lixue Xuebao, 2015, 31, 1-15.	3.4	29
29	Sensitivity analysis of a viscoelastic parameterization for gravity wave dispersion in ice covered seas. Cold Regions Science and Technology, 2015, 120, 63-75.	3.5	11
30	Particle size and boundary geometry effects on the bulk friction coefficient of sheared granular materials in the inertial regime. Comptes Rendus - Mecanique, 2014, 342, 151-155.	2.1	2
31	Using the annular shear cell as a rheometer for rapidly sheared granular materials: a DEM study. Granular Matter, 2013, 15, 183-194.	2.2	3
32	Ocean wave transmission and reflection between two connecting viscoelastic ice covers: An approximate solution. Ocean Modelling, 2013, 71, 102-113.	2.4	17
33	Rolling resistance effect for sheared granular materials in the inertial regime. , 2013, , .		0
34	On Developing a Continuum Model for Wave Propagation in Ice Covered Seas. , 2013, , .		3
35	Simulation of pancake ice load on a circular cylinder in a wave and current field. Cold Regions Science and Technology, 2012, 78, 31-39.	3.5	60
36	Effect of particle size and boundary conditions on the shear stress in an annular shear cell. Granular Matter, 2012, 14, 423-431.	2.2	12

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37	A continuum model for the linear wave propagation in ice-covered oceans: An approximate solution. Ocean Modelling, 2011, 38, 244-250.	2.4	23
38	EM08 mini-symposium on granular materialsâ€"editorial: interconnecting engineering and physics perspectives. Granular Matter, 2010, 12, 143-144.	2.2	0
39	Effect of rolling friction on binary collisions of spheres. Physics of Fluids, 2010, 22, 033304.	4.0	12
40	Gravity waves propagating into an iceâ€covered ocean: A viscoelastic model. Journal of Geophysical Research, 2010, 115, .	3.3	85
41	Experimental study on surface wave propagating through a greaseâ€"pancake ice mixture. Cold Regions Science and Technology, 2010, 61, 90-96.	3.5	49
42	Comparisons of physical experiment and discrete element simulations of sheared granular materials in an annular shear cell. Mechanics of Materials, 2009, 41, 764-776.	3.2	28
43	Scale dependence of direct shear tests. Science Bulletin, 2009, 54, 4337-4348.	9.0	26
44	Internal parameters and regime map for soft polydispersed granular materials. Journal of Rheology, 2008, 52, 87-103.	2.6	41
45	Effect of Contact Force Models on Granular Flow Dynamics. Journal of Engineering Mechanics - ASCE, 2006, 132, 1252-1259.	2.9	37
46	Internal length and time scales in a simple shear granular flow. Physical Review E, 2004, 70, 051308.	2.1	34
47	Limiting diameter of pancake ice. Journal of Geophysical Research, 2004, 109, .	3.3	22
48	Wave rafting and the equilibrium pancake ice cover thickness. Journal of Geophysical Research, 2004, 109, .	3.3	35
49	Wave-Ice Interactions in Barents Sea Marginal Ice Zone. Journal of Cold Regions Engineering - ASCE, 2001, 15, 91-102.	1.1	22
50	Simulation of pancake-ice dynamics in a wave field. Annals of Glaciology, 2001, 33, 355-360.	1.4	44
51	A conceptual model for pancake-ice formation in a wave field. Annals of Glaciology, 2001, 33, 361-367.	1.4	30
52	A COMPUTER SIMULATION OF DILUTE PNEUMATIC CONVEYING OF GRANULAR MATERIALS IN PIPE BRANCHES. Particulate Science and Technology, 1996, 14, 213-219.	2.1	4
53	A COMPUTER SIMULATION OF PIPE BEND EROSION IN A DILUTE PNEUMATIC TRANSPORT OF GRANULAR MATERIALS. Particulate Science and Technology, 1996, 14, 59-73.	2.1	5
54	A Monte Carlo solution for rapidly shearing granular flows based on the kinetic theory of dense gases. Journal of Fluid Mechanics, 1992, 244, 477.	3.4	48

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55	Workshop on wave-ice interaction. Eos, 1992, 73, 375-375.	0.1	7
56	A one-dimensional model for wave-induced ice-floe collisions. Annals of Glaciology, 1991, 15, 87-95.	1.4	20
57	A one-dimensional model for wave-induced ice-floe collisions. Annals of Glaciology, 1991, 15, 87-95.	1.4	24
58	Dynamic transport of river ice. Journal of Hydraulic Research/De Recherches Hydrauliques, 1990, 28, 659-671.	1.7	47
59	The stress tensor in granular shear flows of uniform, deformable disks at high solids concentrations. Journal of Fluid Mechanics, 1990, 219, 81.	3.4	101
60	STRESSES IN A RAPID, SIMPLE SHEAR FLOW OF GRANULAR MATERIALS WITH MULTIPLE GRAIN SIZES. Particulate Science and Technology, 1988, 6, 1-15.	2.1	7
61	The role of floe collisions in sea ice rheology. Journal of Geophysical Research, 1987, 92, 7085-7096.	3.3	72
62	On applying granular flow theory to a deforming broken ice field. Acta Mechanica, 1986, 63, 143-160.	2.1	64
63	STRESSES IN A RAPID FLOW OF SPHERICAL SOLID WITH TWO SIZES. Particulate Science and Technology, 1984, 2, 37-56.	2.1	16
64	Wave Damping in Compact Pancake Ice Fields Due to Interactions Between Pancakes. Antarctic Research Series, 0, , 325-341.	0.2	11