

# Vernon A Squire

## List of Publications by Year in descending order

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111  
papers

4,539  
citations

101543

36  
h-index

110387

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112  
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112  
docs citations

112  
times ranked

1583  
citing authors

#	ARTICLE	IF	CITATIONS
1	Resonance and interactions of infragravity waves with sea ice. <i>Cold Regions Science and Technology</i> , 2021, 182, 103217.	3.5	4
2	On the trapping of energy from storm surges on the coasts of the Sea of Okhotsk. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 250, 107136.	2.1	2
3	Aspects of surface wave propagation with and without sea ice on the south-eastern shelf of Sakhalin Island. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 251, 107227.	2.1	0
4	How sea ice can affect coastal swells, infragravity waves and leaky wave modes: Spectral adaptation from modulation. <i>Wave Motion</i> , 2021, 105, 102764.	2.0	0
5	A cornucopia of oscillations on the Laptev Sea shelf. <i>Continental Shelf Research</i> , 2021, 227, 104514.	1.8	1
6	Ocean Wave Interactions with Sea Ice: A Reappraisal. <i>Annual Review of Fluid Mechanics</i> , 2020, 52, 37-60.	25.0	154
7	Ocean wave/sea ice interactions in the south-eastern coastal zone of Sakhalin Island. <i>Estuarine, Coastal and Shelf Science</i> , 2020, 238, 106725.	2.1	5
8	Crack formation and breakout of shore fast sea ice in Mordvinova Bay, south-east Sakhalin Island. <i>Cold Regions Science and Technology</i> , 2020, 175, 103082.	3.5	8
9	A transport equation for flexural-gravity wave propagation under a sea ice cover of variable thickness. <i>Wave Motion</i> , 2019, 88, 153-166.	2.0	7
10	Overview of the Arctic Sea State and Boundary Layer Physics Program. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 8674-8687.	2.6	96
11	A fresh look at how ocean waves and sea ice interact. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170342.	3.4	49
12	Modelling of sea-ice phenomena. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20180157.	3.4	7
13	Attenuation and Directional Spreading of Ocean Waves During a Storm Event in the Autumn Beaufort Sea Marginal Ice Zone. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 5912-5932.	2.6	38
14	Antarctic ice shelf disintegration triggered by sea ice loss and ocean swell. <i>Nature</i> , 2018, 558, 383-389.	27.8	200
15	Modelling wave-induced sea ice break-up in the marginal ice zone. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20170258.	2.1	31
16	Water wave scattering from a mass loading ice floe of random length using generalised polynomial chaos. <i>Wave Motion</i> , 2017, 70, 222-239.	2.0	2
17	Attenuation and directional spreading of ocean wave spectra in the marginal ice zone. <i>Journal of Fluid Mechanics</i> , 2016, 790, 492-522.	3.4	80
18	Emerging trends in the sea state of the Beaufort and Chukchi seas. <i>Ocean Modelling</i> , 2016, 105, 1-12.	2.4	78

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19	Evolution of Directional Wave Spectra in the Marginal Ice Zone: A New Model Tested with Legacy Data. <i>Journal of Physical Oceanography</i> , 2016, 46, 3121-3137.	1.7	33
20	An idealized wave-ice interaction model without subgrid spatial or temporal discretizations. <i>Annals of Glaciology</i> , 2015, 56, 258-262.	1.4	6
21	Comparison of viscoelastic-type models for ocean wave attenuation in ice-covered seas. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 6072-6090.	2.6	82
22	Reflection and transmission of ocean wave spectra by a band of randomly distributed ice floes. <i>Annals of Glaciology</i> , 2015, 56, 315-322.	1.4	9
23	Evolution of Directional Wave Spectra Through Finite Regular and Randomly Perturbed Arrays of Scatterers. <i>SIAM Journal on Applied Mathematics</i> , 2015, 75, 630-651.	1.8	20
24	Wave-ice interactions in the marginal ice zone. Part 2: Numerical implementation and sensitivity studies along 1D transects of the ocean surface. <i>Ocean Modelling</i> , 2013, 71, 92-101.	2.4	103
25	Hydroelastic response of floating elastic discs to regular waves. Part 1. Wave basin experiments. <i>Journal of Fluid Mechanics</i> , 2013, 723, 604-628.	3.4	51
26	Hydroelastic response of floating elastic discs to regular waves. Part 2. Modal analysis. <i>Journal of Fluid Mechanics</i> , 2013, 723, 629-652.	3.4	49
27	Wave-ice interactions in the marginal ice zone. Part 1: Theoretical foundations. <i>Ocean Modelling</i> , 2013, 71, 81-91.	2.4	146
28	On the calculation of an attenuation coefficient for transects of ice-covered ocean. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2012, 468, 136-162.	2.1	68
29	The transient response of floating elastic plates to wavemaker forcing in two dimensions. <i>Journal of Fluids and Structures</i> , 2012, 28, 416-433.	3.4	28
30	Wave induced fracture probabilities for arctic sea-ice. <i>Cold Regions Science and Technology</i> , 2011, 67, 31-36.	3.5	9
31	Past, present and impendent hydroelastic challenges in the polar and subpolar seas. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 2813-2831.	3.4	78
32	Linear wave forcing of an array of axisymmetric ice floes. <i>IMA Journal of Applied Mathematics</i> , 2010, 75, 108-138.	1.6	5
33	A three-dimensional model of wave attenuation in the marginal ice zone. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	50
34	On the estimation of ice thickness from scattering observations. <i>Dynamics of Atmospheres and Oceans</i> , 2010, 49, 215-233.	1.8	7
35	The decay of flexural-gravity waves in long sea ice transects. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2009, 465, 2785-2812.	2.1	22
36	Ocean surface wave evolution in the Arctic Basin. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	41

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37	Wave scattering by multiple rows of circular ice floes. <i>Journal of Fluid Mechanics</i> , 2009, 639, 213-238.	3.4	51
38	A boundary-integral method for the interaction of large-amplitude ocean waves with a compliant floating raft such as a sea-ice floe. <i>Journal of Engineering Mathematics</i> , 2008, 62, 355-372.	1.2	22
39	The effect of submergence on wave scattering across a transition between two floating flexible plates. <i>Wave Motion</i> , 2008, 45, 361-379.	2.0	19
40	Ocean wave scattering by natural sea ice transects. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	6
41	Wave propagation across sea-ice thickness changes. <i>Ocean Modelling</i> , 2008, 21, 1-11.	2.4	21
42	Wave Scattering at the Sea-Ice/Ice-Shelf Transition with Other Applications. <i>SIAM Journal on Applied Mathematics</i> , 2007, 67, 938-959.	1.8	13
43	Of ocean waves and sea-ice revisited. <i>Cold Regions Science and Technology</i> , 2007, 49, 110-133.	3.5	387
44	Scattering of ice coupled waves by a sea-ice sheet with random thickness. <i>Waves in Random and Complex Media</i> , 2007, 17, 357-380.	2.7	14
45	Perfect transmission and asymptotic solutions for reflection of ice-coupled waves by inhomogeneities. <i>Wave Motion</i> , 2007, 44, 371-384.	2.0	17
46	Scattering of flexural gravity waves at the boundaries between three floating sheets with applications. <i>Journal of Fluid Mechanics</i> , 2006, 569, 113.	3.4	43
47	Scattering of ice-coupled waves by variable sea-ice terrain. <i>Annals of Glaciology</i> , 2006, 44, 88-94.	1.4	10
48	Oblique scattering of plane flexural gravity waves by heterogeneities in sea-ice. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2004, 460, 3469-3497.	2.1	37
49	Energy transport in the marginal ice zone. <i>Journal of Geophysical Research</i> , 2001, 106, 19917-19927.	3.3	8
50	How a region of cracked sea ice affects ice-coupled wave propagation. <i>Annals of Glaciology</i> , 2001, 33, 327-332.	1.4	25
51	Lifetime estimation for a land-fast ice sheet subjected to ocean swell. <i>Annals of Glaciology</i> , 2001, 33, 333-338.	1.4	29
52	On modelling an iceberg embedded in shore-fast sea ice. <i>Journal of Engineering Mathematics</i> , 2001, 40, 211-226.	1.2	14
53	Energy transport velocity of flexural waves in a random medium. <i>Waves in Random and Complex Media</i> , 2000, 10, 83-102.	1.5	10
54	Consequences of dissipation on the group velocity in a flexible ice cover. <i>Cold Regions Science and Technology</i> , 1998, 27, 75-81.	3.5	4

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55	Break-up of sea ice by ocean waves. <i>Annals of Glaciology</i> , 1998, 27, 438-442.	1.4	58
56	Toward realism in modeling ocean wave behavior in marginal ice zones. <i>Journal of Geophysical Research</i> , 1997, 102, 22981-22991.	3.3	56
57	Response of a circular ice floe to ocean waves. <i>Journal of Geophysical Research</i> , 1996, 101, 8869-8884.	3.3	113
58	Ice-coupled wave propagation across an abrupt change in ice rigidity, density, or thickness. <i>Journal of Geophysical Research</i> , 1996, 101, 20825-20832.	3.3	29
59	Moving Loads on Ice Plates. <i>Solid Mechanics and Its Applications</i> , 1996, , .	0.2	116
60	Of Ocean Waves and Sea Ice. <i>Annual Review of Fluid Mechanics</i> , 1995, 27, 115-168.	25.0	350
61	Geophysical and oceanographic information in the marginal ice zone from ocean wave measurements. <i>Journal of Geophysical Research</i> , 1995, 100, 997.	3.3	11
62	Observations of flexural waves on the Erebus Ice Tongue, McMurdo Sound, Antarctica, and nearby sea ice. <i>Journal of Glaciology</i> , 1994, 40, 377-385.	2.2	19
63	Observations of flexural waves on the Erebus Ice Tongue, McMurdo Sound, Antarctica, and nearby sea ice. <i>Journal of Glaciology</i> , 1994, 40, 377-385.	2.2	22
64	The response of ice floes to ocean waves. <i>Journal of Geophysical Research</i> , 1994, 99, 891.	3.3	158
65	Marginal ice zone rigidity parameterization from ocean wave refraction. <i>Cold Regions Science and Technology</i> , 1994, 22, 235-241.	3.5	2
66	Finite-floe wave reflection and transmission coefficients from a semi-infinite model. <i>Journal of Geophysical Research</i> , 1993, 98, 12537-12542.	3.3	39
67	The breakup of shore fast sea ice. <i>Cold Regions Science and Technology</i> , 1993, 21, 211-218.	3.5	29
68	A comparison of the mass-loading and elastic plate models of an ice field. <i>Cold Regions Science and Technology</i> , 1993, 21, 219-229.	3.5	20
69	Workshop on wave-ice interaction. <i>Eos</i> , 1992, 73, 375-375.	0.1	7
70	A portable CTD system for use in polar environments. <i>Cold Regions Science and Technology</i> , 1991, 20, 1-9.	3.5	0
71	Strain in shore fast ice due to incoming ocean waves and swell. <i>Journal of Geophysical Research</i> , 1991, 96, 4531-4547.	3.3	50
72	The role of incoming waves in ice-edge dynamics. <i>Annals of Glaciology</i> , 1991, 15, 96-100.	1.4	4

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73	Coupling between the ocean and an ice shelf. <i>Annals of Glaciology</i> , 1991, 15, 101-108.	1.4	45
74	The role of incoming waves in ice-edge dynamics. <i>Annals of Glaciology</i> , 1991, 15, 96-100.	1.4	3
75	Coupling between the ocean and an ice shelf. <i>Annals of Glaciology</i> , 1991, 15, 101-108.	1.4	36
76	<b>The growth and decay of ice</b><i>G.S.H. Lock</i> Studies in Polar Research, Cambridge University Press, Cambridge (1990). 434 pp. £65.00. ISBN 0 521 331331. <i>Antarctic Science</i> , 1991, 3, 342-343.	0.9	0
77	Reflection and transmission characteristics at the edge of shore fast sea ice. <i>Journal of Geophysical Research</i> , 1990, 95, 11629-11639.	3.3	169
78	Acoustic emission generated by moving loads on sea ice: Preliminary results. <i>Cold Regions Science and Technology</i> , 1990, 18, 337-342.	3.5	2
79	Super-Critical Reflection of Ocean Waves; A New Factor in Ice-Edge Dynamics?. <i>Annals of Glaciology</i> , 1989, 12, 157-161.	1.4	9
80	Technological limitations to satellite glaciology. <i>International Journal of Remote Sensing</i> , 1989, 10, 7-22.	2.9	8
81	C-band SAR observations of marginal ice zone rheology in the Labrador Sea. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1989, 27, 522-534.	6.3	15
82	Random vibration of floating ice tongues. <i>Antarctic Science</i> , 1989, 1, 157-163.	0.9	8
83	Super-Critical Reflection of Ocean Waves; A New Factor in Ice-Edge Dynamics?. <i>Annals of Glaciology</i> , 1989, 12, 157-161.	1.4	3
84	Vehicles and aircraft on floating ice. <i>Nature</i> , 1988, 333, 159-161.	27.8	58
85	The attenuation rates of ocean waves in the marginal ice zone. <i>Journal of Geophysical Research</i> , 1988, 93, 6799-6818.	3.3	230
86	The Nordic Seas Burton G. Hurdle (ed.), Springer-Verlag, Berlin, 1986 777 pp., DM198. <i>Geophysical Journal International</i> , 1987, 89, 1025-1027.	2.4	0
87	Moving loads on sea ice. <i>Polar Record</i> , 1987, 23, 569-575.	0.8	7
88	Geophysics of Sea Ice - The geophysics of sea ice. N. Untersteiner (editor). 1986. New York, Plenum Press. (NATO ASI Series B, 146). 1196p, illustrated, hard cover. ISBN 0-306-42465-7. US\$89.50.. <i>Polar Record</i> , 1987, 23, 729-730.	0.8	0
89	Shuttle Imaging Radar B (SIRâ€B) Weddell Sea ice observations: A comparison of SIRâ€B and scanning multichannel microwave radiometer ice concentrations. <i>Journal of Geophysical Research</i> , 1987, 92, 7173-7179.	3.3	27
90	Weddellâ€Scotia Sea marginal ice zone observations from space, October 1984. <i>Journal of Geophysical Research</i> , 1986, 91, 3920-3924.	3.3	21

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91	The Effect of the Marginal Ice Zone on the Directional Wave Spectrum of the Ocean. Journal of Physical Oceanography, 1986, 16, 358-376.	1.7	108
92	The Arctic Ocean: Special Number - Oceanus, 29(1), Spring 1986. The Arctic Ocean.. Polar Record, 1986, 23, 364-365.	0.8	0
93	Sea Ice in the Soviet Arctic - Dynamics of Ice Cover. L. A. Timokhov (editor). 1984. Rotterdam, Balkema. (Russian translations series 25.) 219 p, illustrated, hard cover. ISBN 90 6191 441 8. Å£17.65, US\$26.00. Polar Record, 1985, 22, 546-546.	0.8	0
94	Icedive 84 - Arctic Underwater Operations; Medical and Operational Aspects of Diving Activities in Arctic Conditions. L. Rey (editor). 1985. London, Graham and Trotman. 355 p, illustrated, hard cover. ISBN 0 860 10 6314. Å£40.00.. Polar Record, 1985, 22, 548-548.	0.8	0
95	Dynamic strain response of lake and sea ice to moving loads. Cold Regions Science and Technology, 1985, 11, 123-139.	3.5	21
96	How waves break up inshore fast ice. Polar Record, 1984, 22, 281-285.	0.8	12
97	On the critical angle for ocean waves entering shore fast ice. Cold Regions Science and Technology, 1984, 10, 59-68.	3.5	26
98	A theoretical, laboratory, and field study of ice-coupled waves. Journal of Geophysical Research, 1984, 89, 8069-8079.	3.3	40
99	MIZEX West: Bering Sea Marginal Ice Zone Experiment. Eos, 1983, 64, 578-579.	0.1	18
100	Modelling of Antarctic Tabular Icebergs in Ocean Waves. Annals of Glaciology, 1983, 4, 152-157.	1.4	6
101	Numerical Modelling of Realistic Ice Floes in Ocean Waves. Annals of Glaciology, 1983, 4, 277-282.	1.4	9
102	Numerical Modelling of Realistic Ice Floes in Ocean Waves. Annals of Glaciology, 1983, 4, 277-282.	1.4	5
103	Automatic Collection of Tilt and Strain Data from Tabular Icebergs. Annals of Glaciology, 1983, 4, 147-151.	1.4	1
104	Arctic Ocean Atlas - Atlas okeanov. Severnyy ledovityy okean [Atlas of the oceans. Arctic Ocean] edited by V. I. Faleyev and others. Moscow, Ministerstvo Oborony SSSR. Voenno-Morskoy Flot, 1980, xii, 184, 5p. Hardcover. 25 roubles.. Polar Record, 1982, 21, 182-183.	0.8	0
105	Tabular icebergs in ocean waves. Nature, 1982, 297, 669-671.	27.8	38
106	Direct measurement of the attenuation of ocean waves by pack ice. Nature, 1980, 283, 365-368.	27.8	122
107	The Flexural Response of a Tabular Ice Island to Ocean Swell. Annals of Glaciology, 1980, 1, 23-27.	1.4	61
108	Field experiments on wave-ice interaction in the Bering Sea and Greenland waters, 1979. Polar Record, 1980, 20, 147-153.	0.8	10

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109	An Investigation into the use of Strain Rosettes for the Measurement of Propagating Cyclic Strains. Journal of Glaciology, 1978, 20, 425-431.	2.2	14
110	An Investigation into the use of Strain Rosettes for the Measurement of Propagating Cyclic Strains. Journal of Glaciology, 1978, 20, 425-431.	2.2	1
111	Wave Damping in Compact Pancake Ice Fields Due to Interactions Between Pancakes. Antarctic Research Series, 0, , 325-341.	0.2	11