Dmitry J Nicolsky

List of Publications by Year
in descending order

52 papers	2,904 citations	293460 24 h-index	223390 49 g-index

70 all docs	70 docs citations	70 times ranked	4065 citing authors

#	Article	IF	Citations
1	Validation and inter-comparison of models for landslide tsunami generation. Ocean Modelling, 2022, 170, 101943.	1.0	18
2	Understanding Effects of Permafrost Degradation and Coastal Erosion on Civil Infrastructure in Arctic Coastal Villages: A Community Survey and Knowledge Co-Production. Journal of Marine Science and Engineering, 2022, 10, 422.	1.2	9
3	Synthesis of physical processes of permafrost degradation and geophysical and geomechanical properties of permafrost. Cold Regions Science and Technology, 2022, 198, 103522.	1.6	8
4	Sub-aerial talik formation observed across the discontinuous permafrost zone of Alaska. Nature Geoscience, 2022, 15, 475-481.	5.4	23
5	The Generalized Carrierâ€“Greenspan Transform for the Shallow Water System with Arbitrary Initial and Boundary Conditions. Water Waves, 2021, 3, 267-296.	0.3	7
6	Constraints on the Slip Distribution of the 1938 M_W 8.3 Alaska Peninsula Earthquake From Tsunami Modeling. Geophysical Research Letters, 2021, 48, e2021GL092812.	1.5	17
7	Ecohydrological modelling in a deciduous boreal forest: Model evaluation for application in nonâ€stationary climates. Hydrological Processes, 2021, 35, e14251.	1.1	8
8	Projecting Permafrost Thaw of Subâ€Arctic Tundra With a Thermodynamic Model Calibrated to Site Measurements. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006218.	1.3	11
9	Water balance response of permafrost-affected watersheds to changes in air temperatures. Environmental Research Letters, 2021, 16, 084054.	2.2	6
10	Robust Computations of Runup in Inclined U- and V-Shaped Bays. Pure and Applied Geophysics, 2021, 178, 5017-5029.	0.8	2
11	Modeling Present and Future Permafrost Distribution at the Seward Peninsula, Alaska. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2019JF005355.	1.0	12
12	Coâ€producing knowledge: the Integrated Ecosystem Model for resource management in Arctic Alaska. Frontiers in Ecology and the Environment, 2020, 18, 447-455.	1.9	3
13	Application of the Non-Hermitian Singular Spectrum Analysis to the Exponential Retrieval Problem. Journal of the Russian Universities Radioelectronics, 2020, 23, 6-24.	0.1	0
14	Climate Change Drives Widespread and Rapid Thermokarst Development in Very Cold Permafrost in the Canadian High Arctic. Geophysical Research Letters, 2019, 46, 6681-6689.	1.5	168
15	Developing an Approximate Tsunami Hazard Zone for Areas with Poor Topographic Coverage in Alaska. Pure and Applied Geophysics, 2019, 176, 3185-3205.	0.8	1
16	Developing A Soil Inversion Model Framework for Regional Permafrost Monitoring. , 2019, , .		0
17	Changing characteristics of runoff and freshwater export from watersheds draining northern Alaska. Cryosphere, 2019, 13, 3337-3352.	1.5	23
18	Dependence of the evolution of carbon dynamics in the northern permafrost region on the trajectory of climate change. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3882-3887.	3.3	296

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19	Long Wave Runup in Asymmetric Bays and in Fjords With Two Separate Heads. Journal of Geophysical Research: Oceans, 2018, 123, 2066-2080.	1.0	9
20	Modeling Longâ€Term Permafrost Degradation. Journal of Geophysical Research F: Earth Surface, 2018, 123, 1756-1771.	1.0	32
21	General initial value problem for the nonlinear shallow water equations: Runup of long waves on sloping beaches and bays. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2738-2743.	0.9	9
22	Applicability of the ecosystem type approach to model permafrost dynamics across the Alaska North Slope. Journal of Geophysical Research F: Earth Surface, 2017, 122, 50-75.	1.0	72
23	Run-Up of Long Waves in Piecewise Sloping U-Shaped Bays. Pure and Applied Geophysics, 2017, 174, 3185-3207.	0.8	14
24	Inter-model analysis of tsunami-induced coastal currents. Ocean Modelling, 2017, 114, 14-32.	1.0	79
25	Modeling coastal tsunami hazard from submarine mass failures: effect of slide rheology, experimental validation, and case studies off the US East Coast. Natural Hazards, 2017, 86, 353-391.	1.6	73
26	Climate change damages to Alaska public infrastructure and the economics of proactive adaptation. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E122-E131.	3.3	174
27	A Response Function Approach for Rapid Far-Field Tsunami Forecasting. Pure and Applied Geophysics, 2017, 174, 3249-3273.	0.8	3
28	The 1975 Kitimat Landslide Tsunami: Validation and Comparative Testing of Modeling Strategies. , 2017, , .		0
29	Evidence for shallow megathrust slip across the Unalaska seismic gap during the great 1957 Andreanof Islands earthquake, eastern Aleutian Islands, Alaska. Geophysical Research Letters, 2016, 43, 10,328.	1.5	11
30	Variability in the sensitivity among model simulations of permafrost and carbon dynamics in the permafrost region between 1960 and 2009. Global Biogeochemical Cycles, 2016, 30, 1015-1037.	1.9	116
31	Run-up of nonlinear long waves in U-shaped bays of finite length: analytical theory and numerical computations. Journal of Ocean Engineering and Marine Energy, 2016, 2, 113-127.	0.9	13
32	The 27 April 1975 Kitimat, British Columbia, submarine landslide tsunami: a comparison of modeling approaches. Landslides, 2016, 13, 1421-1434.	2.7	32
33	The East Siberian Arctic Shelf: towards further assessment of permafrost-related methane fluxes and role of sea ice. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140451.	1.6	117
34	Performance Benchmarking Tsunami Models for NTHMPâ€™s Inundation Mapping Activities. Pure and Applied Geophysics, 2015, 172, 869-884.	0.8	42
35	Runup of Nonlinear Long Waves in Trapezoidal Bays: 1-D Analytical Theory and 2-D Numerical Computations. Pure and Applied Geophysics, 2015, 172, 885-899.	0.8	13
36	A simplified, data-constrained approach to estimate the permafrost carbonâ€“climate feedback. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140423.	1.6	149

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37	Ebullition and storm-induced methane release from the East Siberian Arctic Shelf. Nature Geoscience, 2014, 7, 64-70.	5.4	283
38	Note on the 1964 Alaska Tsunami Generation by Horizontal Displacements of Ocean Bottom. Numerical Modeling of the Runup in Chenega Cove, Alaska. Pure and Applied Geophysics, 2013, 170, 1433-1447.	0.8	5
39	Simulating soil freeze/thaw dynamics with an improved panâ€Arctic water balance model. Journal of Advances in Modeling Earth Systems, 2013, 5, 659-675.	1.3	45
40	Modeling subâ€sea permafrost in the East Siberian Arctic Shelf: The Laptev Sea region. Journal of Geophysical Research, 2012, 117, .	3.3	78
41	Combined Effects of Tectonic and Landslide-Generated Tsunami Runup at Seward, Alaska During the M W 9.2 1964 Earthquake. Pure and Applied Geophysics, 2011, 168, 1053-1074.	0.8	15
42	Validation and Verification of a Numerical Model for Tsunami Propagation and Runup. Pure and Applied Geophysics, 2011, 168, 1199-1222.	0.8	31
43	Numerical modeling of the 1964 Alaska tsunami in western Passage Canal and Whittier, Alaska. Natural Hazards and Earth System Sciences, 2010, 10, 2489-2505.	1.5	5
44	Modeling sub-sea permafrost in the East Siberian Arctic Shelf: the Dmitry Laptev Strait. Environmental Research Letters, 2010, 5, 015006.	2.2	50
45	Estimation of soil thermal properties using in-situ temperature measurements in the active layer and permafrost. Cold Regions Science and Technology, 2009, 55, 120-129.	1.6	85
46	Boundary Control Approach to the Spectral Estimation Problem: The Case of Simple Poles. Sampling Theory in Signal and Information Processing, 2009, 8, 225-248.	0.2	7
47	Sensitivity of a model projection of nearâ€surface permafrost degradation to soil column depth and representation of soil organic matter. Journal of Geophysical Research, 2008, 113, .	3.3	239
48	Arctic patternedâ€ground ecosystems: A synthesis of field studies and models along a North American Arctic Transect. Journal of Geophysical Research, 2008, 113, .	3.3	96
49	Modeling biogeophysical interactions in nonsorted circles in the Low Arctic. Journal of Geophysical Research, 2008, 113, .	3.3	28
50	Improved modeling of permafrost dynamics in a GCM land-surface scheme. Geophysical Research Letters, 2007, 34, .	1.5	179
51	An evaluation of deep soil configurations in the CLM3 for improved representation of permafrost. Geophysical Research Letters, 2007, 34, .	1.5	114
52	Using in-situ temperature measurements to estimate saturated soil thermal properties by solving a sequence of optimization problems. Cryosphere, 2007, 1, 41-58.	1.5	39