

Alexander S Komarov

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

675
citations

567281

15
h-index

580821

25
g-index

48
all docs

48
docs citations

48
times ranked

654
citing authors

#	ARTICLE	IF	CITATIONS
1	A 10-year record of Arctic summer sea ice freeboard from CryoSat-2. Remote Sensing of Environment, 2022, 268, 112744.	11.0	17
2	Ocean Surface Wind Speed Retrieval From the RADARSAT Constellation Mission Co- and Cross-Polarization Images Without Wind Direction Input. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	6.3	2
3	Generating large-scale sea ice motion from Sentinel-1 and the RADARSAT Constellation Mission using the Environment and Climate Change Canada automated sea ice tracking system. Cryosphere, 2022, 16, 1125-1139.	3.9	7
4	Evaluation of a Neural Network With Uncertainty for Detection of Ice and Water in SAR Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 247-259.	6.3	15
5	Ice Concentration From Dual-Polarization SAR Images Using Ice and Water Retrievals at Multiple Spatial Scales. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 950-961.	6.3	8
6	Estimating instantaneous sea-ice dynamics from space using the bi-static radar measurements of Earth Explorer 10 candidate Harmony. Cryosphere, 2021, 15, 3101-3118.	3.9	4
7	On the Physical Settings of Ice Bridge Formation in Nares Strait. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017331.	2.6	6
8	Sea Ice Concentration from the RADARSAT Constellation Mission for Numerical Sea Ice Prediction. , 2021, , .		2
9	Coastal Polynya Disrupts the Acoustic Backscatter Diurnal Signal Over the Eastern Laptev Sea Shelf. Frontiers in Marine Science, 2021, 8, .	2.5	0
10	Proof of Concept for Sea Ice Stage of Development Classification Using Deep Learning. Remote Sensing, 2020, 12, 2486.	4.0	16
11	Assimilation of SAR Ice and Open Water Retrievals in Environment and Climate Change Canada Regional Ice-Ocean Prediction System. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 4290-4303.	6.3	15
12	SAR Sea Ice Type Classification and Drift Retrieval in the Arctic. Springer Polar Sciences, 2020, , 247-299.	0.1	1
13	Sea-ice and water dynamics and moonlight impact the acoustic backscatter diurnal signal over the eastern Beaufort Sea continental slope. Ocean Science, 2020, 16, 1261-1283.	3.4	5
14	Modeling Backscatter from Oil-Contaminated Sea Ice using a Multi-layered Scattering Model. , 2020, , .		4
15	Estimation of Ice Concentration from Sar Using Multiscale Ice and Water Retrievals. , 2020, , .		0
16	Detection of First-Year and Multi-Year Sea Ice from Dual-Polarization SAR Images Under Cold Conditions. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 9109-9123.	6.3	20
17	Improved Retrieval of Ice and Open Water From Sequential RADARSAT-2 Images. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 3694-3702.	6.3	3
18	Adaptive Probability Thresholding in Automated Ice and Open Water Detection From RADARSAT-2 Images. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 552-556.	3.1	17

#	ARTICLE	IF	CITATIONS
19	Comparing L- and C-band synthetic aperture radar estimates of sea ice motion over different ice regimes. Remote Sensing of Environment, 2018, 204, 380-391.	11.0	29
20	Extraction of Sea Ice Information from SAR for Numerical Sea Ice Prediction. , 2018, , .		0
21	Tidally-generated internal waves in Southeast Hudson Bay. Continental Shelf Research, 2018, 167, 65-76.	1.8	9
22	Automated Detection of Ice and Open Water From Dual-Polarization RADARSAT-2 Images for Data Assimilation. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5755-5769.	6.3	34
23	Evaluating Scattering Contributions to C-Band Radar Backscatter From Snow-Covered First-Year Sea Ice at the Winter-Spring Transition Through Measurement and Modeling. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5702-5718.	6.3	8
24	Use of sequential SAR images for detecting ice and water in view of data assimilation. , 2017, , .		0
25	Quantifying C-band scattering mechanisms from snow-covered first-year sea ice at the winter-spring transition. , 2017, , .		0
26	Open-Ended Coaxial Probe Technique for Dielectric Spectroscopy of Artificially Grown Sea Ice. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 4941-4951.	6.3	40
27	Retrieval of Young Snow-Covered Sea-Ice Temperature and Salinity Evolution Through Radar Cross-Section Inversion. IEEE Journal of Oceanic Engineering, 2016, 41, 326-338.	3.8	7
28	Modeling and Measurement of C-Band Radar Backscatter From Snow-Covered First-Year Sea Ice. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4063-4078.	6.3	20
29	Secondary-scale surface roughness parameterization using terrestrial LiDAR. , 2015, , .		1
30	First-year snow-covered sea ice polarimetric NRCS inversion in Cambridge Bay, Nunavut. , 2015, , .		1
31	Inversion-Based Sensitivity Analysis of Snow-Covered Sea Ice Electromagnetic Profiles. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 3643-3655.	4.9	8
32	Numerical and Experimental Evaluation of Terrestrial LiDAR for Parameterizing Centimeter-Scale Sea Ice Surface Roughness. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 4887-4898.	6.3	19
33	Parameterization of Centimeter-Scale Sea Ice Surface Roughness Using Terrestrial LiDAR. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1271-1286.	6.3	32
34	ELECTROMAGNETIC WAVE SCATTERING FROM ROUGH BOUNDARIES INTERFACING INHOMOGENEOUS MEDIA AND APPLICATION TO SNOW-COVERED SEA ICE. Progress in Electromagnetics Research, 2014, 144, 201-219.	4.4	16
35	Ocean Surface Wind Speed Retrieval From C-Band SAR Images Without Wind Direction Input. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 980-990.	6.3	42
36	Sea Ice Motion Tracking From Sequential Dual-Polarization RADARSAT-2 Images. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 121-136.	6.3	97

#	ARTICLE	IF	CITATIONS
37	A Study on the C-Band Polarimetric Scattering and Physical Characteristics of Frost Flowers on Experimental Sea Ice. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1787-1798.	6.3	31
38	Climate change and ice hazards in the Beaufort Sea. Elementa, 2014, 2, .	3.2	15
39	Sea-Ice Motion and Flux within the Prince Gustaf Adolf Sea, Queen Elizabeth Islands, Canada during 2010. Atmosphere - Ocean, 2013, 51, 1-17.	1.6	18
40	Recent changes in the exchange of sea ice between the Arctic Ocean and the Canadian Arctic Archipelago. Journal of Geophysical Research: Oceans, 2013, 118, 3595-3607.	2.6	69
41	Recent extreme light sea ice years in the Canadian Arctic Archipelago: 2011 and 2012 eclipse 1998 and 2007. Cryosphere, 2013, 7, 1753-1768.	3.9	14
42	Wind speed and sea ice motion retrieval in the marginal ice zone from RADARSAT-2 HH-HV images. , 2013, , .		1
43	Detection of sea ice motion from co- and cross-polarization RADARSAT-2 images. , 2012, , .		6
44	Marine wind speed retrieval from RADARSAT-2 dual-polarization imagery. Canadian Journal of Remote Sensing, 2011, 37, 520-528.	2.4	11
45	Measurement and simulation of diurnal radiobrightness variations for a bare unfrozen soil. , 2007, , .		0