

Alexander S Komarov

List of Publications by Year in descending order

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48
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	A 10-year record of Arctic summer sea ice freeboard from CryoSat-2. Remote Sensing of Environment, 2022, 268, 112744.	11.0	17
15	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
16	Proof of Concept for Sea Ice Stage of Development Classification Using Deep Learning. Remote Sensing, 2020, 12, 2486.	4.0	16
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Climate change and ice hazards in the Beaufort Sea. <i>Elementa</i> , 2014, 2, .	3.2	15
20	Recent extreme light sea ice years in the Canadian Arctic Archipelago: 2011 and 2012 eclipse 1998 and 2007. <i>Cryosphere</i> , 2013, 7, 1753-1768.	3.9	14
21	Marine wind speed retrieval from RADARSAT-2 dual-polarization imagery. <i>Canadian Journal of Remote Sensing</i> , 2011, 37, 520-528.	2.4	11
22	Tidally-generated internal waves in Southeast Hudson Bay. <i>Continental Shelf Research</i> , 2018, 167, 65-76.	1.8	9
23	Inversion-Based Sensitivity Analysis of Snow-Covered Sea Ice Electromagnetic Profiles. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 3643-3655.	4.9	8
24	Evaluating Scattering Contributions to C-Band Radar Backscatter From Snow-Covered First-Year Sea Ice at the Winter-Spring Transition Through Measurement and Modeling. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 5702-5718.	6.3	8
25	Ice Concentration From Dual-Polarization SAR Images Using Ice and Water Retrievals at Multiple Spatial Scales. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 950-961.	6.3	8
26	Retrieval of Young Snow-Covered Sea-Ice Temperature and Salinity Evolution Through Radar Cross-Section Inversion. <i>IEEE Journal of Oceanic Engineering</i> , 2016, 41, 326-338.	3.8	7
27	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. <i>Cryosphere</i> , 2022, 16, 1125-1139.	3.9	7
28	Detection of sea ice motion from co- and cross-polarization RADARSAT-2 images. , 2012, , .		6
29	On the Physical Settings of Ice Bridge Formation in Nares Strait. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017331.	2.6	6
30	Sea-ice and water dynamics and moonlight impact the acoustic backscatter diurnal signal over the eastern Beaufort Sea continental slope. <i>Ocean Science</i> , 2020, 16, 1261-1283.	3.4	5
31	Estimating instantaneous sea-ice dynamics from space using the bi-static radar measurements of Earth Explorer 10 candidate Harmony. <i>Cryosphere</i> , 2021, 15, 3101-3118.	3.9	4
32	Modeling Backscatter from Oil-Contaminated Sea Ice using a Multi-layered Scattering Model. , 2020, , .		4
33	Improved Retrieval of Ice and Open Water From Sequential RADARSAT-2 Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 3694-3702.	6.3	3
34	Sea Ice Concentration from the RADARSAT Constellation Mission for Numerical Sea Ice Prediction. , 2021, , .		2
35	Ocean Surface Wind Speed Retrieval From the RADARSAT Constellation Mission Co- and Cross-Polarization Images Without Wind Direction Input. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-15.	6.3	2
36	Wind speed and sea ice motion retrieval in the marginal ice zone from RADARSAT-2 HH-HV images. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
37	Secondary-scale surface roughness parameterization using terrestrial LiDAR. , 2015, , .		1
38	First-year snow-covered sea ice polarimetric NRCS inversion in Cambridge Bay, Nunavut. , 2015, , .		1
39	SAR Sea Ice Type Classification and Drift Retrieval in the Arctic. Springer Polar Sciences, 2020, , 247-299.	0.1	1
40	Measurement and simulation of diurnal radiobrightness variations for a bare unfrozen soil. , 2007, , .		0
41	Use of sequential SAR images for detecting ice and water in view of data assimilation. , 2017, , .		0
42	Quantifying C-band scattering mechanisms from snow-covered first-year sea ice at the winter-spring transition. , 2017, , .		0
43	Extraction of Sea Ice Information from SAR for Numerical Sea Ice Prediction. , 2018, , .		0
44	Estimation of Ice Concentration from Sar Using Multiscale Ice and Water Retrievals. , 2020, , .		0
45	Coastal Polynya Disrupts the Acoustic Backscatter Diurnal Signal Over the Eastern Laptev Sea Shelf. Frontiers in Marine Science, 2021, 8, .	2.5	0