

Jeff Dozier

List of Publications by Year in descending order

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161
papers

13,573
citations

23500

58
h-index

22764

112
g-index

187
all docs

187
docs citations

187
times ranked

8681
citing authors

#	ARTICLE	IF	CITATIONS
1	A generalized split-window algorithm for retrieving land-surface temperature from space. IEEE Transactions on Geoscience and Remote Sensing, 1996, 34, 892-905.	2.7	1,383
2	Spectral signature of alpine snow cover from the landsat thematic mapper. Remote Sensing of Environment, 1989, 28, 9-22.	4.6	814
3	A method for satellite identification of surface temperature fields of subpixel resolution. Remote Sensing of Environment, 1981, 11, 221-229.	4.6	590
4	Recent Third Pole's Rapid Warming Accompanies Cryospheric Melt and Water Cycle Intensification and Interactions between Monsoon and Environment: Multidisciplinary Approach with Observations, Modeling, and Analysis. Bulletin of the American Meteorological Society, 2019, 100, 423-444.	1.7	590
5	Mountain hydrology of the western United States. Water Resources Research, 2006, 42, .	1.7	521
6	Retrieval of subpixel snow covered area, grain size, and albedo from MODIS. Remote Sensing of Environment, 2009, 113, 868-879.	4.6	446
7	Rapid calculation of terrain parameters for radiation modeling from digital elevation data. IEEE Transactions on Geoscience and Remote Sensing, 1990, 28, 963-969.	2.7	368
8	Retrieval of subpixel snow-covered area and grain size from imaging spectrometer data. Remote Sensing of Environment, 2003, 85, 64-77.	4.6	340
9	Climatic and Hydrologic Changes in the Tien Shan, Central Asia. Journal of Climate, 1997, 10, 1393-1404.	1.2	319
10	A Hyperspectral Method for Remotely Sensing the Grain Size of Snow. Remote Sensing of Environment, 2000, 74, 207-216.	4.6	311
11	Climate and energy exchange at the snow surface in the Alpine Region of the Sierra Nevada: 2. Snow cover energy balance. Water Resources Research, 1992, 28, 3043-3054.	1.7	305
12	Snow accumulation and distribution in an Alpine Watershed. Water Resources Research, 1991, 27, 1541-1552.	1.7	287
13	Assessment of methods for mapping snow cover from MODIS. Advances in Water Resources, 2013, 51, 367-380.	1.7	287
14	MULTISPECTRAL AND HYPERSPECTRAL REMOTE SENSING OF ALPINE SNOW PROPERTIES. Annual Review of Earth and Planetary Sciences, 2004, 32, 465-494.	4.6	266
15	Inroads of remote sensing into hydrologic science during the WRR era. Water Resources Research, 2015, 51, 7309-7342.	1.7	243
16	Automated Mapping of Montane Snow Cover at Subpixel Resolution from the Landsat Thematic Mapper. Water Resources Research, 1996, 32, 115-130.	1.7	219
17	Effect of viewing angle on the infrared brightness temperature of snow. Water Resources Research, 1982, 18, 1424-1434.	1.7	210
18	Estimation of snow water equivalence using SIR-C/X-SAR. I. Inferring snow density and subsurface properties. IEEE Transactions on Geoscience and Remote Sensing, 2000, 38, 2465-2474.	2.7	183

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19	Time-space continuity of daily maps of fractional snow cover and albedo from MODIS. <i>Advances in Water Resources</i> , 2008, 31, 1515-1526.	1.7	176
20	Interpretation of snow properties from imaging spectrometry. <i>Remote Sensing of Environment</i> , 2009, 113, S25-S37.	4.6	167
21	Snow Reflectance from LANDSAT-4 Thematic Mapper. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1984, GE-22, 323-328.	2.7	166
22	The Effect of Grain Size on Spectral Mixture Analysis of Snow-Covered Area from AVIRIS Data. <i>Remote Sensing of Environment</i> , 1998, 65, 320-332.	4.6	166
23	A clear-sky spectral solar radiation model for snow-covered mountainous terrain. <i>Water Resources Research</i> , 1980, 16, 709-718.	1.7	165
24	Estimating the spatial distribution of snow water equivalent in an alpine basin using binary regression tree models: the impact of digital elevation data and independent variable selection. <i>Hydrological Processes</i> , 2005, 19, 1459-1479.	1.1	163
25	Land-surface temperature measurement from space: physical principles and inverse modeling. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1989, 27, 268-278.	2.7	160
26	Estimating the spatial distribution of snow in mountain basins using remote sensing and energy balance modeling. <i>Water Resources Research</i> , 1998, 34, 1275-1285.	1.7	152
27	Estimating the spatial distribution of snow water equivalent in the world's mountains. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 461-474.	2.8	152
28	Inferring snow wetness using C-band data from SIR-C's polarimetric synthetic aperture radar. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1995, 33, 905-914.	2.7	150
29	Estimating snow grain size using AVIRIS data. <i>Remote Sensing of Environment</i> , 1993, 44, 231-238.	4.6	145
30	Estimation of snow water equivalence using SIR-C/X-SAR. II. Inferring snow depth and particle size. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2000, 38, 2475-2488.	2.7	131
31	Effect of grain size and snowpack water equivalence on visible and near-infrared satellite observations of snow. <i>Water Resources Research</i> , 1981, 17, 1213-1221.	1.7	128
32	Snow Mapping and Classification from Landsat Thematic Mapper Data. <i>Annals of Glaciology</i> , 1987, 9, 97-103.	2.8	124
33	Measurements of the hemispherical-directional reflectance of snow at fine spectral and angular resolution. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	122
34	Detection and Quantification of Snow Algae with an Airborne Imaging Spectrometer. <i>Applied and Environmental Microbiology</i> , 2001, 67, 5267-5272.	1.4	115
35	A faster solution to the horizon problem. <i>Computers and Geosciences</i> , 1981, 7, 145-151.	2.0	112
36	Snow mapping in alpine regions with synthetic aperture radar. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1994, 32, 152-158.	2.7	102

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37	Evaluation of distributed hydrologic impacts of temperature-index and energy-based snow models. <i>Advances in Water Resources</i> , 2013, 56, 77-89.	1.7	101
38	Snow water equivalent in the Sierra Nevada: Blending snow sensor observations with snowmelt model simulations. <i>Water Resources Research</i> , 2013, 49, 5029-5046.	1.7	90
39	Mapping seasonal snow with SIR-C/X-SAR in mountainous areas. <i>Remote Sensing of Environment</i> , 1997, 59, 294-307.	4.6	87
40	A clear-sky longwave radiation model for remote alpine areas. <i>Archiv für Meteorologie Geophysik Und Bioklimatologie Serie B</i> , 1979, 27, 159-187.	0.8	85
41	Climate and energy exchange at the snow surface in the Alpine Region of the Sierra Nevada: 1. Meteorological measurements and monitoring. <i>Water Resources Research</i> , 1992, 28, 3029-3042.	1.7	84
42	High-Elevation Precipitation Patterns: Using Snow Measurements to Assess Daily Gridded Datasets across the Sierra Nevada, California*. <i>Journal of Hydrometeorology</i> , 2015, 16, 1773-1792.	0.7	83
43	Snow water equivalent along elevation gradients in the Merced and Tuolumne River basins of the Sierra Nevada. <i>Water Resources Research</i> , 2011, 47, .	1.7	82
44	Retention and radiative forcing of black carbon in eastern Sierra Nevada snow. <i>Cryosphere</i> , 2013, 7, 365-374.	1.5	81
45	Variation in Rising Limb of Colorado River Snowmelt Runoff Hydrograph Controlled by Dust Radiative Forcing in Snow. <i>Geophysical Research Letters</i> , 2018, 45, 797-808.	1.5	81
46	Spectral snow-reflectance models for grain-size and liquid-water fraction in melting snow for the solar-reflected spectrum. <i>Annals of Glaciology</i> , 2002, 34, 71-73.	2.8	76
47	Measuring the expressed abundance of the three phases of water with an imaging spectrometer over melting snow. <i>Water Resources Research</i> , 2006, 42, .	1.7	76
48	Spatially distributed temperatures at the base of two mountain snowpacks measured with fiber-optic sensors. <i>Journal of Glaciology</i> , 2008, 54, 673-679.	1.1	75
49	Mapping alpine snow using a spectral mixture modeling technique. <i>Annals of Glaciology</i> , 1993, 17, 121-124.	2.8	73
50	Incorporating remotely-sensed snow albedo into a spatially-distributed snowmelt model. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	71
51	Cloud Masking for Landsat 8 and MODIS Terra Over Snow-Covered Terrain: Error Analysis and Spectral Similarity Between Snow and Cloud. <i>Water Resources Research</i> , 2019, 55, 6169-6184.	1.7	70
52	An Approach toward Energy Balance Simulation over Rugged Terrain. <i>Geographical Analysis</i> , 1979, 11, 65-85.	1.9	68
53	Validating reconstruction of snow water equivalent in California's Sierra Nevada using measurements from the NASA Airborne Snow Observatory. <i>Water Resources Research</i> , 2016, 52, 8437-8460.	1.7	67
54	Mountain hydrology, snow color, and the fourth paradigm. <i>Eos</i> , 2011, 92, 373-374.	0.1	66

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55	Using machine learning for real-time estimates of snow water equivalent in the watersheds of Afghanistan. <i>Cryosphere</i> , 2018, 12, 1579-1594.	1.5	65
56	EFFECTS OF CLIMATE CHANGE ON INLAND WATERS OF THE PACIFIC COASTAL MOUNTAINS AND WESTERN GREAT BASIN OF NORTH AMERICA. <i>Hydrological Processes</i> , 1997, 11, 971-992.	1.1	63
57	Spatial estimates of snow water equivalent from reconstruction. <i>Advances in Water Resources</i> , 2016, 94, 345-363.	1.7	62
58	Topographic distribution of clear-sky radiation over the Konza prairie, Kansas, USA. <i>Water Resources Research</i> , 1990, 26, 679-690.	1.7	61
59	A parameterized multiple-scattering model for microwave emission from dry snow. <i>Remote Sensing of Environment</i> , 2007, 111, 357-366.	4.6	49
60	Automated spectro-goniometer: A spherical robot for the field measurement of the directional reflectance of snow. <i>Review of Scientific Instruments</i> , 2003, 74, 5179-5188.	0.6	48
61	Measurements of snow- and glacier-covered areas with single-polarization SAR. <i>Annals of Glaciology</i> , 1993, 17, 72-76.	2.8	47
62	The effect of anisotropic reflectance on imaging spectroscopy of snow properties. <i>Remote Sensing of Environment</i> , 2004, 89, 409-422.	4.6	45
63	Social science in a water observing system. <i>Water Resources Research</i> , 2009, 45, .	1.7	45
64	Atmospheric corrections to satellite radiometric data over rugged terrain. <i>Remote Sensing of Environment</i> , 1981, 11, 191-205.	4.6	41
65	Topographic distribution of clear-sky radiation over the Konza Prairie, Kansas. <i>Water Resources Research</i> , 1990, 26, 679-690.	1.7	41
66	Driving forces of land surface temperature anomalous changes in North America in 2002-2018. <i>Scientific Reports</i> , 2020, 10, 6931.	1.6	41
67	Recent research in snow hydrology. <i>Reviews of Geophysics</i> , 1987, 25, 153-161.	9.0	40
68	Spectral emissivity measurements of land-surface materials and related radiative transfer simulations. <i>Advances in Space Research</i> , 1994, 14, 91-94.	1.2	40
69	An Examination of Snow Albedo Estimates From MODIS and Their Impact on Snow Water Equivalent Reconstruction. <i>Water Resources Research</i> , 2019, 55, 7826-7842.	1.7	39
70	Snow Mapping and Classification from Landsat Thematic Mapper Data. <i>Annals of Glaciology</i> , 1987, 9, 97-103.	2.8	39
71	Opportunities to improve hydrologic data. <i>Reviews of Geophysics</i> , 1992, 30, 315-331.	9.0	38
72	Canopy Adjustment and Improved Cloud Detection for Remotely Sensed Snow Cover Mapping. <i>Water Resources Research</i> , 2020, 56, e2019WR024914.	1.7	38

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73	Glacial regime of the highest Tien Shan mountain, Pobeda-Khan Tengry massif. <i>Journal of Glaciology</i> , 1997, 43, 503-512.	1.1	36
74	Characterizing Biases in Mountain Snow Accumulation From Global Data Sets. <i>Water Resources Research</i> , 2019, 55, 9873-9891.	1.7	36
75	Stereological determination of dry-snow parameters for discrete-scatterer microwave modeling. <i>Annals of Glaciology</i> , 1993, 17, 295-299.	2.8	35
76	Observations of snowpack ripening in the Sierra Nevada, California, U.S.A.. <i>Journal of Glaciology</i> , 1999, 45, 409-416.	1.1	34
77	Field and Laboratory Measurements of Snow Liquid Water by Dilution. <i>Water Resources Research</i> , 1985, 21, 1415-1420.	1.7	33
78	Stereological characterization of dry Alpine snow for microwave remote sensing. <i>Advances in Space Research</i> , 1989, 9, 245-251.	1.2	33
79	Impact of Initialized Land Surface Temperature and Snowpack on Subseasonal to Seasonal Prediction Project, Phase I (LS4P-I): organization and experimental design. <i>Geoscientific Model Development</i> , 2021, 14, 4465-4494.	1.3	31
80	Preparation of serial sections in dry snow specimens. <i>Journal of Microscopy</i> , 1986, 142, 111-114.	0.8	30
81	Climate change impacts on groundwater storage in the Central Valley, California. <i>Climatic Change</i> , 2019, 157, 387-406.	1.7	30
82	Can Managed Aquifer Recharge Mitigate the Groundwater Overdraft in California's Central Valley?. <i>Water Resources Research</i> , 2020, 56, e2020WR027244.	1.7	30
83	Snow Property Measurements Correlative to Microwave Emission at 35 GHz. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1987, GE-25, 751-757.	2.7	29
84	Mapping alpine snow using a spectral mixture modeling technique. <i>Annals of Glaciology</i> , 1993, 17, 121-124.	2.8	29
85	Snow Property Inversion From Remote Sensing (SPIReS): A Generalized Multispectral Unmixing Approach With Examples From MODIS and Landsat 8 OLI. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 7270-7284.	2.7	29
86	Scanning electron microscopy of impurity structures in snow. <i>Cold Regions Science and Technology</i> , 2007, 47, 80-89.	1.6	27
87	Towards predicting temporal changes of the spectral signature of snow in visible and near-infrared wavelengths. <i>Annals of Glaciology</i> , 1993, 17, 143-148.	2.8	26
88	Separating snow and forest temperatures with thermal infrared remote sensing. <i>Remote Sensing of Environment</i> , 2018, 209, 764-779.	4.6	26
89	Hourly mass and snow energy balance measurements from Mammoth Mountain, CA USA, 2011-2017. <i>Earth System Science Data</i> , 2018, 10, 549-563.	3.7	22
90	Computational provenance in hydrologic science: a snow mapping example. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 1021-1033.	1.6	21

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91	A field study on failure of storm snow slab avalanches. Cold Regions Science and Technology, 2012, 79-80, 20-28.	1.6	20
92	An examination of the variance minimization tendencies of a supraglacial stream. Journal of Hydrology, 1976, 31, 359-380.	2.3	18
93	Estimation of properties of alpine snow from landsat thematic mapper. Advances in Space Research, 1989, 9, 207-215.	1.2	18
94	Looking Ahead to EOS: The Earth Observing System. Computers in Physics, 1990, 4, 248-259.	0.6	18
95	Measurements of snow- and glacier-covered areas with single-polarization SAR. Annals of Glaciology, 1993, 17, 72-76.	2.8	18
96	Commentary On "The Highest Form of the Geographer's Art" Annals of the American Association of Geographers, 1982, 72, 557-558.	3.0	17
97	Environmental Informatics. Annual Review of Environment and Resources, 2012, 37, 449-472.	5.6	17
98	A K_u -Band CMOS FMCW Radar Transceiver for Snowpack Remote Sensing. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 2480-2494.	2.9	17
99	Remote sensing of Greenland ice sheet using multispectral near-infrared and visible radiances. Journal of Geophysical Research, 2007, 112, .	3.3	16
100	Biases of April 1 snow water equivalent records in the Sierra Nevada and their associations with large-scale climate indices. Geophysical Research Letters, 2014, 41, 5912-5918.	1.5	16
101	Evaluation of VIIRS and MODIS Snow Cover Fraction in High-Mountain Asia Using Landsat 8 OLI. Frontiers in Remote Sensing, 2021, 2, .	1.3	16
102	The Future of Imaging Spectroscopy Prospective Technologies and Applications. , 2006, , .		13
103	CUES—a study site for measuring snowpack energy balance in the Sierra Nevada. Frontiers in Earth Science, 2015, 3, .	0.8	13
104	Classification of surface types using SIR-C/X-SAR, Mount Everest Area, Tibet. Journal of Geophysical Research, 1998, 103, 25823-25837.	3.3	12
105	Heat Transfer in the Environment: Development and Use of Fiber-Optic Distributed Temperature Sensing. , 2011, , .		11
106	Quantifying the Spatial Variability of a Snowstorm Using Differential Airborne Lidar. Water Resources Research, 2020, 56, e2019WR025331.	1.7	11
107	Measurement of Snow Grain Properties. , 1987, , 63-74.		11
108	Development of practical multiband algorithms for estimating land-surface temperature from EOS/MODIS data. Advances in Space Research, 1994, 14, 81-90.	1.2	10

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109	Data management for earth system science. SIGMOD Record, 1997, 26, 27-31.	0.7	10
110	Avalanche crownâ€depth distributions. Geophysical Research Letters, 2008, 35, .	1.5	10
111	Achieving Breakthroughs in Global Hydrologic Science by Unlocking the Power of Multisensor, Multidisciplinary Earth Observations. AGU Advances, 2021, 2, e2021AV000455.	2.3	10
112	Deriving snow liquid water content using C-band polarimetric SAR. , 0, , .		9
113	Estimation of snow water equivalence using SIR-C/X-SAR. , 0, , .		9
114	Winter Climate and Lake Morphology Control Ice Phenology and Underâ€Ice Temperature and Oxygen Regimes in Mountain Lakes. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006277.	1.3	9
115	Observations of snowpack ripening in the Sierra Nevada, California, U.S.A.. Journal of Glaciology, 1999, 45, 409-416.	1.1	9
116	A Component Decomposition Model for Evaluating Atmospheric Effects in Remote Sensing. Journal of Electromagnetic Waves and Applications, 1987, 1, 323-347.	1.0	7
117	NASA selects first EOS payload. Eos, 1991, 72, 97-97.	0.1	7
118	Modeling and observation of polarimetric SAR response to dry snow. , 0, , .		7
119	Mapping snow cover with repeat pass synthetic aperture radar. , 0, , .		7
120	Characterization and Retrieval of Snow and Urban Land Cover Parameters using Hyperspectral Imaging. Current Science, 2019, 116, 1182.	0.4	7
121	Divergence of apparent and intrinsic snow albedo over a season at a sub-alpine site with implications for remote sensing. Cryosphere, 2022, 16, 1765-1778.	1.5	7
122	<title>Earth Observing System</title>. , 1991, 1491, 117.		6
123	Polarimetric and Multifrequency Sar Signatures of Wet Snow. , 0, , .		6
124	Snow Wetness Measurement by Fluorescent Dye Dilution. Journal of Glaciology, 1984, 30, 362-363.	1.1	5
125	Radar Backscattering Response to Wet Snow. , 0, , .		5
126	Stereological determination of dry-snow parameters for discrete-scatterer microwave modeling. Annals of Glaciology, 1993, 17, 295-299.	2.8	5

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127	Planned EOS observations of the land, ocean and atmosphere. Atmospheric Research, 1994, 31, 329-357.	1.8	5
128	Mechanics of the energy balance in large lowland rivers, and why the bed matters. Geophysical Research Letters, 2017, 44, 8910-8918.	1.5	5
129	Revisiting Topographic Horizons in the Era of Big Data and Parallel Computing. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	5
130	HIRIS " Eos instrument with high spectral and spatial resolution. Photogrammetria, 1989, 43, 167-180.	0.2	4
131	The restructured Earth observing system: Instrument recommendations. Eos, 1991, 72, 505-505.	0.1	4
132	Characterization Of Snow Grain Size In The Near-infrared And Microwave Wavelengths. , 0, , .		4
133	Measurement and modeling of the bidirectional reflectance of snow. , 0, , .		4
134	HIRIS - The High Resolution Imaging Spectrometer. Proceedings of SPIE, 1988, 0924, 23.	0.8	3
135	Towards predicting temporal changes of the spectral signature of snow in visible and near-infrared wavelengths. Annals of Glaciology, 1993, 17, 143-148.	2.8	3
136	Sequoia 2000: a next-generation information system for the study of global change. , 0, , .		3
137	CoReH<inf>2</inf>O - Cold Regions Hydrology High-resolution Observatory. , 2009, , .		3
138	Effects of Temperature-Dependent Molecular Absorption Coefficients on the Thermal Infrared Remote Sensing of the Earth Surface. , 0, , .		2
139	Hydrology and hydrochemistry of alpine basins. Eos, 1992, 73, 33-33.	0.1	2
140	In situ and photographic measurements of avalanche crown transects. Cold Regions Science and Technology, 2010, 64, 174-181.	1.6	2
141	Inversion technique for quantitative determination of snow grain size with imaging spectrometry. , 1993, , .		1
142	Active microwave measurements of snow cover progress in polarimetric SAR. , 0, , .		1
143	SIR-C/X-SAR investigations of snow properties in alpine region. , 0, , .		1
144	SIR-C/X-SAR mapping snow in alpine region. , 0, , .		1

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145	Reservoir Operators React to Uncertainty in Snowmelt Runoff Forecasts. Journal of Water Resources Planning and Management - ASCE, 2021, 147, 06021010.	1.3	1
146	Snow Wetness Measurement by Fluorescent Dye Dilution. Journal of Glaciology, 1984, 30, 362-363.	1.1	0
147	Methods evolve for snowmelt runoff analysis. Eos, 1990, 71, 292.	0.1	0
148	Snow Properties Derived From TM And SAR Measurements. , 0, , .		0
149	Estimating snow particle size using TM band-4. , 0, , .		0
150	On-line Access to Weather Satellite Imagery and Image Manipulation Software. Bulletin of the American Meteorological Society, 1995, 76, 923-932.	1.7	0
151	<title>Improving alpine region spectral mixture analysis estimates of snow-covered area</title>. , 1995, , .		0
152	A viewing-angle dependent split-window method for retrieving land-surface temperatures from space. , 0, , .		0
153	The Redwood Project [distributed information system]. , 0, , .		0
154	Estimation of snow surface albedo using Landsat Thematic Mapper. , 0, , .		0
155	<title>Estimating snow cover and grain size from AVIRIS data with spectral mixture analysis and modeled snow spectra</title>. , 1997, , .		0
156	Effects of large structure in wet snow cover on SAR measurements. , 0, , .		0
157	Glacial regime of the highest Tien Shan mountain, Pobeda-Khan Tengry massif. Journal of Glaciology, 1997, 43, 503-512.	1.1	0
158	Lundquist Receives 2008 Cryosphere Young Investigator Award. Eos, 2009, 90, 159-159.	0.1	0
159	Snowpack Accumulation Trends in California. , 1999, , 299-304.		0
160	Bruce Barkstrom (1944â€“2018). Eos, 2019, 100, .	0.1	0
161	Remote Sensing of the Cryosphere. , 0, , 397-408.		0