

Gareth Rees

List of Publications by Year in descending order

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112
papers

2,548
citations

201674

27
h-index

223800

46
g-index

116
all docs

116
docs citations

116
times ranked

3239
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy Landscapes Shape Animal Movement Ecology. <i>American Naturalist</i> , 2013, 182, 298-312.	2.1	293
2	Paludification and Forest Retreat in Northern Oceanic Environments. <i>Annals of Botany</i> , 2003, 91, 213-226.	2.9	146
3	Topographic controls on the surface energy balance of a high Arctic valley glacier. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	124
4	Least-cost paths in mountainous terrain. <i>Computers and Geosciences</i> , 2004, 30, 203-209.	4.2	107
5	Coccolith chemistry reveals secular variations in the global ocean carbon cycle?. <i>Earth and Planetary Science Letters</i> , 2007, 253, 83-95.	4.4	98
6	Mapping land cover change in a reindeer herding area of the Russian Arctic using Landsat TM and ETM+ imagery and indigenous knowledge. <i>Remote Sensing of Environment</i> , 2003, 85, 441-452.	11.0	77
7	Is subarctic forest advance able to keep pace with climate change?. <i>Global Change Biology</i> , 2020, 26, 3965-3977.	9.5	76
8	The accuracy of Digital Elevation Models interpolated to higher resolutions. <i>International Journal of Remote Sensing</i> , 2000, 21, 7-20.	2.9	74
9	Reflectance spectra of subarctic lichens between 400 and 2400 nm. <i>Remote Sensing of Environment</i> , 2004, 90, 281-292.	11.0	71
10	Latitudinal forest advance in northernmost Norway since the early 20th century. <i>Journal of Biogeography</i> , 2013, 40, 938-949.	3.0	70
11	Vulnerability of European reindeer husbandry to global change. <i>Climatic Change</i> , 2008, 87, 199-217.	3.6	66
12	Evaluating the potential of high-resolution airborne LiDAR data in glaciology. <i>International Journal of Remote Sensing</i> , 2006, 27, 1233-1251.	2.9	63
13	Angular variation of the infrared emissivity of ice and water surfaces. <i>International Journal of Remote Sensing</i> , 1992, 13, 2873-2886.	2.9	59
14	Open Access Data in Polar and Cryospheric Remote Sensing. <i>Remote Sensing</i> , 2014, 6, 6183-6220.	4.0	51
15	Monitoring changes in land cover induced by atmospheric pollution in the Kola Peninsula, Russia, using Landsat-MSS data. <i>International Journal of Remote Sensing</i> , 1997, 18, 1703-1723.	2.9	49
16	Impact of spatial, spectral, and radiometric properties of multispectral imagers on glacier surface classification. <i>Remote Sensing of Environment</i> , 2014, 141, 1-13.	11.0	40
17	The spatial and temporal effect of cloud cover on the acquisition of high quality landsat imagery in the European Arctic sector. <i>Remote Sensing of Environment</i> , 1994, 50, 149-160.	11.0	39
18	A technique for the identification and analysis of icebergs in synthetic aperture radar images of Antarctica. <i>International Journal of Remote Sensing</i> , 1999, 20, 3183-3199.	2.9	39

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19	Scale-dependent roughness of a glacier surface: implications for radar backscatter and aerodynamic roughness modelling. <i>Journal of Glaciology</i> , 2006, 52, 214-222.	2.2	38
20	Climate Change in the Kola Peninsula, Arctic Russia, during the Last 50 Years from Meteorological Observations. <i>Journal of Climate</i> , 2016, 29, 6823-6840.	3.2	37
21	Self-similarity in glacier surface characteristics. <i>Journal of Glaciology</i> , 2003, 49, 547-554.	2.2	35
22	The Cambridge IPS survey at 81.5 MHz. <i>Monthly Notices of the Royal Astronomical Society</i> , 1987, 229, 589-619.	4.4	34
23	Iceberg detection using ERS-1 Synthetic Aperture Radar. <i>International Journal of Remote Sensing</i> , 1996, 17, 1777-1795.	2.9	34
24	Remote sensing of industrial impact on Arctic vegetation around Noril'sk, northern Siberia: Preliminary results. <i>International Journal of Remote Sensing</i> , 1999, 20, 2979-2990.	2.9	34
25	Characterisation of Arctic treelines by LiDAR and multispectral imagery. <i>Polar Record</i> , 2007, 43, 345-352.	0.8	30
26	Comparing the spatial content of thematic maps. <i>International Journal of Remote Sensing</i> , 2008, 29, 3833-3844.	2.9	29
27	Vegetation degradation in a permafrost region as seen from space: Noril'sk (1961-1999). <i>Cold Regions Science and Technology</i> , 2001, 32, 191-203.	3.5	28
28	Three decades of forest cover change in Uganda's Northern Albertine Rift Landscape. <i>Land Use Policy</i> , 2015, 49, 236-251.	5.6	28
29	Using in situ spectra to explore Landsat classification of glacier surfaces. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2014, 27, 42-52.	2.8	26
30	The effect of median filtering on synthetic aperture radar images. <i>International Journal of Remote Sensing</i> , 1997, 18, 2887-2893.	2.9	25
31	Mass balance and dynamics of a valley glacier measured by high-resolution LiDAR. <i>Polar Record</i> , 2007, 43, 311-319.	0.8	24
32	Infrared emissivities of Arctic land cover types. <i>International Journal of Remote Sensing</i> , 1993, 14, 1013-1017.	2.9	22
33	Analysis of ERS-1 Synthetic Aperture Radar data from Nordaustlandet, Svalbard. <i>International Journal of Remote Sensing</i> , 1995, 16, 905-924.	2.9	22
34	Contrasting snow and ice albedos derived from MODIS, Landsat ETM+ and airborne data from Langjökull, Iceland. <i>Remote Sensing of Environment</i> , 2016, 175, 183-195.	11.0	22
35	Inversion of atmospheric refraction data. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1991, 8, 330.	1.5	21
36	Measurement of the fractal dimension of ice-sheet surfaces using Landsat data. <i>International Journal of Remote Sensing</i> , 1992, 13, 663-671.	2.9	19

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37	Segmentation of Synthetic-Aperture Radar imagery of sea ice. <i>International Journal of Remote Sensing</i> , 1994, 15, 803-825.	2.9	19
38	Do livelihood typologies influence local perceptions of forest cover change? Evidence from a tropical forested and non-forested rural landscape in western Uganda. <i>Journal of Rural Studies</i> , 2017, 50, 12-29.	4.7	18
39	The accuracy of climate variability and trends across Arctic Fennoscandia in four reanalyses. <i>International Journal of Climatology</i> , 2018, 38, 3878-3895.	3.5	16
40	Assessment of spring floods and surface water extent over the Yamalo-Nenets Autonomous District. <i>Environmental Research Letters</i> , 2013, 8, 045026.	5.2	15
41	Mirages with linear image diagrams. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1990, 7, 1351.	1.5	14
42	Are vegetation indices useful in the Arctic?. <i>Polar Record</i> , 1998, 34, 333-336.	0.8	14
43	Combining airborne lidar and Landsat ETM+ data with photogrammetry to produce a digital elevation model for Langjökull, Iceland. <i>International Journal of Remote Sensing</i> , 2013, 34, 1005-1025.	2.9	14
44	What colour is penguin guano?. <i>Antarctic Science</i> , 2017, 29, 417-425.	0.9	14
45	On cooling tea and coffee. <i>American Journal of Physics</i> , 1988, 56, 434-437.	0.7	13
46	Potential impact of climate change and reindeer density on tundra indicator species in the Barents Sea region. <i>Climatic Change</i> , 2008, 87, 119-130.	3.6	13
47	James Croll: a scientist ahead of his time. <i>Polar Record</i> , 2012, 48, 201-205.	0.8	13
48	Remote Detection of Surge-Related Glacier Terminus Change across High Mountain Asia. <i>Remote Sensing</i> , 2021, 13, 1309.	4.0	13
49	Technical note: Simple masks for shadowing and highlighting in SAR images. <i>International Journal of Remote Sensing</i> , 2000, 21, 2145-2152.	2.9	12
50	Radar backscatter coefficients and snow detectability for upland terrain in Scotland. <i>International Journal of Remote Sensing</i> , 2001, 22, 3015-3026.	2.9	12
51	Role of disturbed vegetation in mapping the boreal zone in northern Eurasia. <i>Applied Vegetation Science</i> , 2010, 13, 460-472.	1.9	12
52	Industrial pollution in the Kol'skiy Poluostrov, Russia. <i>Polar Record</i> , 1994, 30, 181-188.	0.8	11
53	Effects of digital elevation model spatial resolution on distributed calculations of solar radiation loading on a High Arctic glacier. <i>Journal of Glaciology</i> , 2009, 55, 973-984.	2.2	11
54	Quantitative particle size, microtextural and outline shape analyses of glacial sediment reworked by paraglacial debris flows. <i>Earth Surface Processes and Landforms</i> , 2009, 34, 48-62.	2.5	11

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55	Limitations imposed by cloud cover on multitemporal visible band satellite data sets from polar regions. <i>Annals of Glaciology</i> , 1993, 17, 113-120.	1.4	10
56	A rapid method of measuring snow-surface profiles. <i>Journal of Glaciology</i> , 1998, 44, 674-675.	2.2	10
57	Potential operational multi-satellite sensor mapping of snow cover in maritime sub-polar regions. <i>International Journal of Remote Sensing</i> , 1999, 20, 3019-3030.	2.9	10
58	Polar mirages. <i>Polar Record</i> , 1988, 24, 193-198.	0.8	9
59	Orbital subcycles for Earth remote sensing satellites. <i>International Journal of Remote Sensing</i> , 1992, 13, 825-833.	2.9	9
60	Detecting Pollution Damage to Forests in the Kola Peninsula Using the ERS SAR. <i>Remote Sensing of Environment</i> , 2001, 75, 22-28.	11.0	9
61	Derivation and assessment of vegetation maps for reindeer pasture analysis in Arctic European Russia. <i>Polar Record</i> , 2007, 43, 290-304.	0.8	9
62	Assessment of ASTER global digital elevation model data for Arctic research. <i>Polar Record</i> , 2012, 48, 31-39.	0.8	9
63	Climate-driven phenological changes in the Russian Arctic derived from MODIS LAI time series 2000–2019. <i>Environmental Research Letters</i> , 2021, 16, 084009.	5.2	9
64	Estimation of Boreal Forest Growing Stock Volume in Russia from Sentinel-2 MSI and Land Cover Classification. <i>Remote Sensing</i> , 2021, 13, 4483.	4.0	9
65	Technological limitations to satellite glaciology. <i>International Journal of Remote Sensing</i> , 1989, 10, 7-22.	2.9	8
66	Reconstruction of an atmospheric temperature profile from a 166-year old polar mirage. <i>Polar Record</i> , 1988, 24, 325-327.	0.8	7
67	Infrared emissivity of Arctic winter snow. <i>International Journal of Remote Sensing</i> , 1993, 14, 3069-3073.	2.9	7
68	Simplified radar mapping equations for terrain correction of space-borne SAR images. <i>International Journal of Remote Sensing</i> , 2001, 22, 3643-3649.	2.9	7
69	The Barents Sea impact study (BASIS): methodology and first results. <i>Continental Shelf Research</i> , 2003, 23, 1673-1694.	1.8	7
70	Automated spaceborne detection of degraded vegetation around Monchegorsk, Kola Peninsula, Russia. <i>Polar Record</i> , 2012, 48, 107-112.	0.8	7
71	Altitudinal forest-tundra ecotone categorization using texture-based classification. <i>Remote Sensing of Environment</i> , 2019, 232, 111312.	11.0	7
72	Delineation of the forest-tundra ecotone using texture-based classification of satellite imagery. <i>International Journal of Remote Sensing</i> , 2020, 41, 6384-6408.	2.9	7

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73	Topographic Effects On Light Scattering From Snow. , 0, , .		6
74	Long-baseline interferometry with a portable antenna at 81.5 MHz. Monthly Notices of the Royal Astronomical Society, 1983, 205, 625-636.	4.4	5
75	The Scoresby ship mirage of 1822. Polar Record, 1990, 26, 181-186.	0.8	5
76	A new wind-chill nomogram. Polar Record, 1993, 29, 229-234.	0.8	5
77	Construction of a high-resolution DEM of an Arctic ice cap using shape-from-shading. International Journal of Remote Sensing, 1999, 20, 3231-3242.	2.9	5
78	Analysis of human impact on boreal vegetation around Monchegorsk, Kola peninsula, using automated remote sensing technique. Polar Record, 2012, 48, 94-106.	0.8	5
79	Spectral reflectance of whale skin above the sea surface: a proposed measurement protocol. Remote Sensing in Ecology and Conservation, 2020, 6, 411-423.	4.3	5
80	The contribution of Seasat to ice sheet glaciology. International Journal of Remote Sensing, 1991, 12, 1753-1774.	2.9	4
81	Elevation change, mass balance, dynamics and surging of Langjökull, Iceland from 1997 to 2007. Journal of Glaciology, 2016, 62, 497-511.	2.2	4
82	A historical Southern Ocean climate dataset from whaling ships's logbooks. Geoscience Data Journal, 2019, 6, 30-40.	4.4	4
83	Relation between leaf area index and NDVI for subarctic deciduous vegetation. International Journal of Remote Sensing, 2020, 41, 8573-8589.	2.9	4
84	Moscow University's field station in the Khibiny Mountains, Russian Arctic: A 70-year history to the present day. Polar Record, 2021, 57, .	0.8	4
85	Limitations imposed by cloud cover on multitemporal visible band satellite data sets from polar regions. Annals of Glaciology, 1993, 17, 113-120.	1.4	4
86	Remote sensing of oil spills on frozen ground. Polar Record, 1999, 35, 19-24.	0.8	3
87	Correlation between the dynamics and spatial configuration of the circumarctic latitudinal forest-tundra ecotone. International Journal of Remote Sensing, 2021, 42, 1250-1274.	2.9	3
88	Satellite Remote Sensing of the Impact of Industrial Pollution on Tundra Biodiversity. , 1997, , 253-282.		3
89	REMOTE SENSING METHODS FOR PHYTOMASS ESTIMATION AND MAPPING OF TUNDRA VEGETATION. Geography, Environment, Sustainability, 2010, 3, 4-13.	1.3	3
90	Synthetic Aperture Radar Data Over Terrestrial Ice. , 0, , .		2

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91	Improving the accuracy of low-cost GPS measurements for remote sensing applications. International Journal of Remote Sensing, 2001, 22, 871-881.	2.9	2
92	Finding the Arctic pole of inaccessibility. Polar Record, 2014, 50, 86-91.	0.8	2
93	Geomorphometric analysis of a rocky coastline: an example from Hornsund, Svalbard. International Journal of Geographical Information Science, 2015, 29, 1694-1717.	4.8	2
94	Finding Antarctica's Pole of Inaccessibility. Polar Record, 2021, 57, .	0.8	2
95	How old is Cygnus A?. Nature, 1986, 319, 471-473.	27.8	1
96	Segmentation of Land and Sea-Ice Synthetic-Aperture Radar Imagery. , 0, , .		1
97	Strategies for Development of Cost-Effective Amelioration Procedures for Oil Spills in Cold Regions. , 2000, , 39-56.		1
98	Methodologies for Remote Sensing of The Environmental Impacts of Industrial Activity in the Arctic and Sub-Arctic. , 2003, , 67-88.		1
99	Refraction correction for radio-echo sounding of large ice masses. Journal of Glaciology, 1992, 38, 302-308.	2.2	1
100	Texture-based classification of cloud and ice-cap surface features. Annals of Glaciology, 1993, 17, 250-254.	1.4	1
101	How can the dynamics of the tundra-taiga boundary be remotely monitored?. Ambio, 2002, Spec No 12, 56-62.	5.5	1
102	A microprocessor-controlled steerable array for metre-wave radio astronomy. Monthly Notices of the Royal Astronomical Society, 1983, 205, 759-764.	4.4	0
103	Down with metric. Nature, 1985, 317, 10-10.	27.8	0
104	The phase power spectrum of the solar wind measured by long-baseline interferometry at 81.5 MHz. Monthly Notices of the Royal Astronomical Society, 1985, 212, 463-470.	4.4	0
105	Eclipses visible from polar regions 1987-1989. Polar Record, 1986, 23, 356-359.	0.8	0
106	Remote sensing terminology: a reply. International Journal of Remote Sensing, 1986, 7, 1197-1197.	2.9	0
107	The simulation of geometric distortion in a synthetic aperture radar image of Alpine terrain. , 0, , .		0
108	The combination of ERS-1 altimetry and Landsat visible data for mapping of polar ice mass elevation. , 0, , .		0

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109	Machine-based snow line determination and the identification of ice sheet features in visible and SAR imagery. , 0, , .		0
110	A new bipolar map projection. Polar Record, 2005, 41, 215-222.	0.8	0
111	Introduction: The 11th International Circumpolar Remote Sensing Symposium. Polar Record, 2012, 48, 1-1.	0.8	0
112	The suitability of using ASTER GDEM2 for terrain-based extraction of stream channel networks in a lowland Arctic permafrost catchment. Fennia, 2015, , .	0.5	0