William J Emery

List of Publications by Year
in descending order

155 papers	7,319 citations	66250 44 h-index	66518 82 g-index
160 all docs	160 docs citations	160 times ranked	7669 citing authors

#	Article	IF	Citations
1	Incorporating Metric Learning and Adversarial Network for Seasonal Invariant Change Detection. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 2720-2731.	2.7	44
2	Deep nonsmooth nonnegative matrix factorization network with semi-supervised learning for SAR image change detection. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 160, 167-179.	4.9	37
3	Unsupervised Change Detection Based on a Unified Framework for Weighted Collaborative Representation With RDDL and Fuzzy Clustering. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 8890-8903.	2.7	11
4	Variational Textured Dirichlet Process Mixture Model With Pairwise Constraint for Unsupervised Classification of Polarimetric SAR Images. IEEE Transactions on Image Processing, 2019, 28, 4145-4160.	6.0	17
5	Variational Bayesian Change Detection of Remote Sensing Images Based on Spatially Variant Gaussian Mixture Model and Separability Criterion. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 849-861.	2.3	9
6	Development of an IEEE Standard for Calibration of Microwave Radiometers. , 2019, , .		3
7	Unsupervised Change Detection of SAR Images Based on Variational Multivariate Gaussian Mixture Model and Shannon Entropy. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 826-830.	1.4	19
8	An Integrated Spatio-Spectralâ€“Temporal Sparse Representation Method for Fusing Remote-Sensing Images With Different Resolutions. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 3358-3370.	2.7	33
9	Modified Tensor Locality Preserving Projection for Dimensionality Reduction of Hyperspectral Images. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 277-281.	1.4	56
10	Very High Spatial Resolution Optical Imagery: Tree-Based Methods and Multi-temporal Models for Mining and Analysis. Signals and Communication Technology, 2018, , 81-135.	0.4	0
11	Deep Semi-Nonnegative Matrix Factorization Based Unsupervised Change Detection of Remote Sensing Images. , 2018, , .		2
12	Editorial for â€œRemote Sensing from Unmanned Aerial Vehiclesâ€• Remote Sensing, 2018, 10, 1877.	1.8	5
13	Land Cover Mapping with Higher Order Graph-Based Co-Occurrence Model. Remote Sensing, 2018, 10, 1713.	1.8	7
14	Brightness Temperature Calculation and Uncertainty Propagation for Conical Microwave Blackbody Targets. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 7246-7256.	2.7	13
15	Hyperspectral Unmixing Using Sparsity-Constrained Deep Nonnegative Matrix Factorization With Total Variation. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 6245-6257.	2.7	99
16	Tensor Low-Rank Discriminant Embedding for Hyperspectral Image Dimensionality Reduction. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 7183-7194.	2.7	25
17	Robust semiâ€NMF with total variation for unsupervised SAR image change detection. Electronics Letters, 2018, 54, 892-894.	0.5	4
18	Ocean Surface Current Extraction Scheme With High-Frequency Distributed Hybrid Sky-Surface Wave Radar System. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 4678-4690.	2.7	18

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19	Comparing the theoretical performances of 1.65- and 3.3-Î¼m differential absorption lidar systems used for airborne remote sensing of natural gas leaks. Journal of Applied Remote Sensing, 2018, 12, 1.	0.6	4
20	Comparing the theoretical performances of 1.65- and 3.3-Î¼m differential absorption lidar systems used for airborne remote sensing of natural gas leaks (Erratum). Journal of Applied Remote Sensing, 2018, 12, 1.	0.6	3
21	SAR Image Content Retrieval Based on Fuzzy Similarity and Relevance Feedback. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 1824-1842.	2.3	51
22	$mathcal {H}$ Distribution for Multilook Polarimetric SAR Data. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 489-493.	1.4	9
23	Hyperspectral Unmixing Using Double Reweighted Sparse Regression and Total Variation. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1146-1150.	1.4	85
24	Electromagnetic Design and Performance of a Conical Microwave Blackbody Target for Radiometer Calibration. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 4586-4596.	2.7	19
25	Hyperspectral Image Classification via Low-Rank and Sparse Representation With Spectral Consistency Constraint. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 2117-2121.	1.4	19
26	Direction-of-Arrival Estimation and Sensor Array Error Calibration Based on Blind Signal Separation. IEEE Signal Processing Letters, 2017, 24, 7-11.	2.1	21
27	Computing Ocean Surface Currents From GOCI Ocean Color Satellite Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 7113-7125.	2.7	10
28	Computing Coastal Ocean Surface Currents from MODIS and VIIRS Satellite Imagery. Remote Sensing, 2017, 9, 1083.	1.8	6
29	Submesoscale Sea Surface Temperature Variability from UAV and Satellite Measurements. Remote Sensing, 2017, 9, 1089.	1.8	28
30	Tensor locality preserving projection for hyperspectral image classification. , 2017, , .		11
31	Contextually guided very-high-resolution imagery classification with semantic segments. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 132, 48-60.	4.9	91
32	Analysis of the impact of wavelength separation on reflectivity error for differential absorption lidar using the ASTER spectral library. Journal of Applied Remote Sensing, 2017, 11, 1.	0.6	2
33	Pairwise-Distance-Analysis-Driven Dimensionality Reduction Model with Double Mappings for Hyperspectral Image Visualization. Remote Sensing, 2015, 7, 7785-7808.	1.8	6
34	Gabor Feature Based Unsupervised Change Detection of Multitemporal SAR Images Based on Two-Level Clustering. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 2458-2462.	1.4	112
35	Ship-Borne Thermal Infrared Radiometer Systems. Experimental Methods in the Physical Sciences, 2014, , 305-404.	0.1	12
36	Unsupervised change detection of remote sensing images based on semi-nonnegative matrix factorization. , 2014, , .		1

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37	SVM Active Learning Approach for Image Classification Using Spatial Information. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2217-2233.	2.7	128
38	The Importance of Physical Quantities for the Analysis of Multitemporal and Multiangular Optical Very High Spatial Resolution Images. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 6241-6256.	2.7	89
39	A Microbolometer Airborne Calibrated Infrared Radiometer: The Ball Experimental Sea Surface Temperature (BESST) Radiometer. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 7775-7781.	2.7	9
40	Computing Ocean Surface Currents Over the Coastal California Current System Using 30-Min-Lag Sequential SAR Images. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 7559-7580.	2.7	50
41	Multispectral land-use/land-cover model portability in multi-temporal multi-angle very high resolution imagery. , 2013, , .		2
42	Estimating the extent of drained supraglacial lakes on the Greenland Ice Sheet. International Journal of Remote Sensing, 2013, 34, 4754-4768.	1.3	5
43	Winter and spring surface velocity fields in the Cape Blanc region as deduced with the maximum cross-correlation technique. International Journal of Remote Sensing, 2013, 34, 3587-3606.	1.3	13
44	Klaus Wyrtki (1925-2013). Eos, 2013, 94, 192-193.	0.1	0
45	Development and validation of multitemporal image analysis methodologies for multirisk monitoring of critical structures and infrastructures. , 2012, , .		2
46	Multi-temporal and multi-angular analysis of very high spatial resolution images. , 2012, , .		1
47	Evaluation of the relative performance of sea surface temperature measurements from different types of drifting and moored buoys using satelliteâ€derived reference products. Journal of Geophysical Research, 2012, 117, .	3.3	35
48	In-track multi-angle model portability of multispectral land-cover classification using very high spatial resolution data. , 2012, , .		2
49	Very High Resolution Multiangle Urban Classification Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 1155-1170.	2.7	152
50	A Sensor Package for Ice Surface Observations Using Small Unmanned Aircraft Systems. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 1033-1047.	2.7	35
51	Introduction to Special Section on Space Technology. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 335-336.	2.7	0
52	Spatial classification of WorldView-2 multi-angle sequence. , 2011, , .		4
53	Dataset shift adaptation with active queries. , 2011, , .		10
54	Neural Networks for Arctic Atmosphere Sounding From Radio Occultation Data. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4846-4855.	2.7	12

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55	Objects textural features sensitivity for earthquake damage mapping. , 2011, , .		6
56	Absolute Thermal Radiometry from a UAS. , 2011, , .		2
57	Distribution and trends in Arctic sea ice age through spring 2011. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	528
58	The Gulf of Mexico oil rig accident: analysis by different SAR satellite images. Proceedings of SPIE, 2011, , .	0.8	2
59	Using active learning to adapt remote sensing image classifiers. Remote Sensing of Environment, 2011, 115, 2232-2242.	4.6	163
60	Spectral classification of WorldView-2 multi-angle sequence. , 2011, , .		5
61	Improving active learning methods using spatial information. , 2011, , .		7
62	Instruments and Methods. , 2011, , 1-83.		1
63	Satellite Altimetry Applications off the Coasts of North America. , 2011, , 417-451.		7
64	Correction to "Active Learning Methods for Remote Sensing Image Classification" [Jul 09 2218-2232]. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2767-2767.	2.7	5
65	The impact of measurement uncertainty and spatial variability on the accuracy of skin and subsurface regression-based sea surface temperature algorithms. Remote Sensing of Environment, 2010, 114, 2666-2678.	4.6	14
66	Automatic damage detection Using pulse-coupled neural networks For the 2009 Italian earthquake. , 2010, , .		6
67	Validation of Jason-2 Altimeter Data by Waveform Retracking over California Coastal Ocean. Marine Geodesy, 2010, 33, 304-316.	0.9	35
68	Pulse Coupled Neural Networks for detecting urban areas changes at very high resolutions. , 2009, , .		5
69	Classification of Very High Spatial Resolution Imagery Using Mathematical Morphology and Support Vector Machines. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 3866-3879.	2.7	164
70	Plant water parameters and the remote sensing R 1300/R 1450 leaf water index: controlled condition dynamics during the development of water deficit stress. Irrigation Science, 2009, 27, 357-365.	1.3	34
71	A neural network approach using multi-scale textural metrics from very high-resolution panchromatic imagery for urban land-use classification. Remote Sensing of Environment, 2009, 113, 1276-1292.	4.6	325
72	Exploiting SAR and VHR Optical Images to Quantify Damage Caused by the 2003 Bam Earthquake. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 145-152.	2.7	132

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73	Active Learning Methods for Remote Sensing Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2218-2232.	2.7	408
74	Morphological operators applied to X-band SAR for urban land use classification. , 2009, , .		10
75	Pulse Coupled Neural Networks for Automatic Urban Change Detection at Very High Spatial Resolution. Lecture Notes in Computer Science, 2009, , 929-942.	1.0	2
76	Relations of remote sensing leaf water indices to leaf water thickness in cowpea, bean, and sugarbeet plants. Remote Sensing of Environment, 2008, 112, 445-455.	4.6	94
77	Extraneous variables and their influence on reflectance-based measurements of leaf water content. Irrigation Science, 2008, 26, 407-414.	1.3	38
78	Comparing Statistical and Neural Network Methods Applied to Very High Resolution Satellite Images Showing Changes in Man-Made Structures at Rocky Flats. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 1812-1821.	2.7	46
79	Error characterization of infrared and microwave satellite sea surface temperature products for merging and analysis. Journal of Geophysical Research, 2008, 113, .	3.3	41
80	Quickbird Panchromatic Images for Mapping Damage at Building Scale Caused by the 2003 Bam Earthquake. , 2008, , .		5
81	Evolution of the 2007â€“2008 Arctic sea ice cover and prospects for a new record in 2008. Geophysical Research Letters, 2008, 35, .	1.5	24
82	Wavenumber Spectra of High Resolution Optical Images for Characterizing Urban Features. , 2008, , .		0
83	Urban Land-Use Multi-Scale Textural Analysis. , 2008, , .		5
84	Urban Mapping Using Coarse SAR and Optical Data: Outcome of the 2007 GRSS Data Fusion Contest. IEEE Geoscience and Remote Sensing Letters, 2008, 5, 331-335.	1.4	111
85	Active Learning of Very-High Resolution Optical Imagery with SVM: Entropy vs Margin Sampling. , 2008, , .		5
86	The assessment of leaf water content using leaf reflectance ratios in the visible, nearâ€, and shortâ€waveâ€infrared. International Journal of Remote Sensing, 2008, 29, 3701-3713.	1.3	142
87	Very-High Resolution Image Classification using Morphological Operators and SVM. , 2008, , .		4
88	Neural Networks for Land Cover Applications. Studies in Computational Intelligence, 2008, , 267-293.	0.7	8
89	A robust neural network design for detecting changes from multispectral satellite imagery. , 2007, , .		0
90	Satellite mapping of the demolition of the rocky flats nuclear weapons plant. , 2007, , .		0

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91	A New Neural Architecture for Detecting Urban Changes in Quickbird Imagery. , 2007, , .		1
92	Land Cover Change Detection of the Demolition of the Rocky Flats Nuclear Site. , 2007, , .		0
93	A contextual change detection method for high-resolution optical images of urban areas. , 2007, , .		0
94	On the Arctic climate paradox and the continuing role of atmospheric circulation in affecting sea ice conditions. Geophysical Research Letters, 2007, 34, .	1.5	153
95	Achieving Satellite Instrument Calibration for Climate Change. Eos, 2007, 88, 136.	0.1	40
96	A younger, thinner Arctic ice cover: Increased potential for rapid, extensive seaâ€ice loss. Geophysical Research Letters, 2007, 34, .	1.5	593
97	Computing Coastal Ocean Surface Currents From Infrared and Ocean Color Satellite Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 435-447.	2.7	75
98	An Innovative Neural-Net Method to Detect Temporal Changes in High-Resolution Optical Satellite Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 2940-2952.	2.7	102
99	Foreword to the Special Issue on the 2006 International Geoscience and Remote Sensing Symposium (IGARSS): â€œRemote Sensingâ€”A Naturalâ€“Global Partnershipâ€. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 3003-3004.	2.7	0
100	A comparison of sea surface temperatures from microwave remote sensing of the Labrador Sea with in situ measurements and model simulations. Journal of Geophysical Research, 2006, 111, .	3.3	9
101	An automatic system for AVHRR land surface product generation. International Journal of Remote Sensing, 2006, 27, 3925-3942.	1.3	22
102	Seasonal Changes in Microwave Sea Surface Temperature in the Labrador Sea and Its Relationship to Seasonal Changes in Ocean Surface Currents. , 2006, , .		0
103	Coastal Ocean Surface Current Retrievals from Sequences of TerraSAR-X Images. , 2006, , .		1
104	Variability and forcing of the East Australian Current. Journal of Geophysical Research, 2005, 110, .	3.3	82
105	SEAFLUX. Bulletin of the American Meteorological Society, 2004, 85, 409-424.	1.7	120
106	Sampling the mesoscale ocean surface currents with various satellite altimeter configurations. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 795-803.	2.7	17
107	Satellite-Derived Evolution of Arctic Sea Ice Age: October 1978 to March 2003. IEEE Geoscience and Remote Sensing Letters, 2004, 1, 71-74.	1.4	77
108	Maximum cross correlation automatic satellite image navigation and attitude corrections for open-ocean image navigation. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 33-42.	2.7	46

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109	Extracting Multiyear Surface Currents from Sequential Thermal Imagery Using the Maximum Cross-Correlation Technique. Journal of Atmospheric and Oceanic Technology, 2002, 19, 1665-1676.	0.5	102
110	Use of CAIV techniques to build advanced VIIRS approaches for NPOESS key EDRs. , 2002, , .		3
111	An automated, dynamic threshold cloud-masking algorithm for daytime AVHRR images over land. IEEE Transactions on Geoscience and Remote Sensing, 2002, 40, 1682-1694.	2.7	44
112	Mapping mesoscale currents by optimal interpolation of satellite radiometer and altimeter data. Ocean Dynamics, 2002, 52, 95-103.	0.9	45
113	Estimating Sea Surface Temperature from Infrared Satellite and In Situ Temperature Data. Bulletin of the American Meteorological Society, 2001, 82, 2773-2785.	1.7	69
114	Data Analysis Methods in Physical Oceanography. Estuaries and Coasts, 1999, 22, 728.	1.7	55
115	Higher resolution Earth surface features from repeat moderate resolution satellite imagery. IEEE Transactions on Geoscience and Remote Sensing, 1998, 36, 244-255.	2.7	13
116	Online access to weather satellite imagery through the World Wide Web. IEEE Transactions on Geoscience and Remote Sensing, 1998, 36, 1367-1375.	2.7	4
117	Solid-State Radiometer Measurements of Sea Surface Skin Temperature. Journal of Atmospheric and Oceanic Technology, 1998, 15, 775-787.	0.5	35
118	An Automated Neural Network Cloud Classifier for Use over Land and Ocean Surfaces. Journal of Applied Meteorology and Climatology, 1997, 36, 1346-1362.	1.7	33
119	New satellite derived sea ice motion tracks Arctic contamination. Marine Pollution Bulletin, 1997, 35, 345-352.	2.3	13
120	Satellite-derived maps of Arctic and Antarctic sea ice motion: 1988 to 1994. Geophysical Research Letters, 1997, 24, 897-900.	1.5	126
121	AVHRR-based Polar Pathfinder products for modeling applications. Annals of Glaciology, 1997, 25, 388-392.	2.8	5
122	COOL AND FRESHWATER SKIN OF THE OCEAN DURING RAINFALL. Boundary-Layer Meteorology, 1997, 82, 439-474.	1.2	41
123	Optimal sampling conditions for estimating grassland parameters via reflectance. IEEE Transactions on Geoscience and Remote Sensing, 1996, 34, 272-284.	2.7	29
124	Inversion of a vegetation reflectance model with NOAA AVHRR data. Remote Sensing of Environment, 1996, 58, 187-200.	4.6	69
125	Satellite derived sea surface temperature variability in the Western Tropical Pacific Ocean, 1992â€“1993. Remote Sensing of Environment, 1996, 58, 299-310.	4.6	3
126	Occurrence of Nonsurface Superadiabatic Lapse Rates within RAOB Data. Weather and Forecasting, 1996, 11, 350-359.	0.5	9

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127	The Behavior of the Bulk â€“ Skin Sea Surface Temperature Difference under Varying Wind Speed and Heat Flux. Journal of Physical Oceanography, 1996, 26, 1969-1988.	0.7	114
128	Effects of orbital drift on advanced very high resolution radiometer products: Normalized difference vegetation index and sea surface temperature. Remote Sensing of Environment, 1995, 53, 164-171.	4.6	86
129	Unmixing multiple land-cover type reflectances from coarse spatial resolution satellite data. Remote Sensing of Environment, 1995, 54, 98-112.	4.6	61
130	Satellite altimeter derived geostrophic currents in the western tropical Pacific during 1992â€“1993 and their validation with drifting buoy trajectories. Journal of Geophysical Research, 1995, 100, 25069.	3.3	18
131	Inversion of a soil bidirectional reflectance model for use with vegetation reflectance models. Journal of Geophysical Research, 1995, 100, 25497.	3.3	29
132	Invertibility of a 1-D discrete ordinates canopy reflectance model. Remote Sensing of Environment, 1994, 48, 89-105.	4.6	69
133	Correcting infrared satellite estimates of sea surface temperature for atmospheric water vapor attenuation. Journal of Geophysical Research, 1994, 99, 5219.	3.3	87
134	Sea surface velocities from visible and infrared multispectral atmospheric mapping sensor (MAMS) imagery. IEEE Transactions on Geoscience and Remote Sensing, 1994, 32, 220-223.	2.7	4
135	Precise AVHRR image navigation. IEEE Transactions on Geoscience and Remote Sensing, 1994, 32, 644-657.	2.7	90
136	Rossby Waves in the Pacific Ocean Extracted from Geosat Altimeter Data. Journal of Physical Oceanography, 1993, 23, 1155-1175.	0.7	30
137	Satellite-Image-derived Gulf Stream Currents Compared with Numerical Model Results. Journal of Atmospheric and Oceanic Technology, 1992, 9, 286-304.	0.5	55
138	A comprehensive comparison between satelliteâ€measured skin and multichannel sea surface temperature. Journal of Geophysical Research, 1992, 97, 5569-5595.	3.3	58
139	Recent improvements in GEOSAT altimeter data. Eos, 1991, 72, 577-577.	0.1	25
140	Atmospheric water vapour over oceans from SSM/I measurements. International Journal of Remote Sensing, 1990, 11, 753-766.	1.3	124
141	Satellite-derived water vapor corrections for Geosat altimetry. Journal of Geophysical Research, 1990, 95, 2953.	3.3	48
142	On the bulkâ€skin temperature difference and its impact on satellite remote sensing of sea surface temperature. Journal of Geophysical Research, 1990, 95, 13341-13356.	3.3	254
143	Global differences between skin and bulk sea surface temperatures. Eos, 1989, 70, 211.	0.1	5
144	A simulation for spaceborne SAR imagery of a distributed, moving scene. IEEE Transactions on Geoscience and Remote Sensing, 1989, 27, 67-78.	2.7	37

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146	Relationships between nearâ€surface plankton concentrations, hydrography, and satelliteâ€measured sea surface temperature. Journal of Geophysical Research, 1988, 93, 15733-15748.	3.3	18
147	Circulation in the Gulf of Alaska, 1981. Deep-sea Research Part A, Oceanographic Research Papers, 1987, 34, 1361-1377.	1.6	21
148	Trends in Atlantic equatorial current variability. Ocean Dynamics, 1987, 40, 261-276.	0.2	4
149	Mean temperature-salinity, salinity-depth and temperature-depth curves for the North Atlantic and the North Pacific. Progress in Oceanography, 1982, 11, 219-305.	1.5	84
150	Dynamical Interpretation of Satellite-Sensed Thermal Features off Vancouver Island. Journal of Physical Oceanography, 1980, 10, 961-970.	0.7	56
151	A Cyclonic Eddy in the Antarctic Circumpolar Current South of Australia: Results of Soviet-American Observations Aboard the R/VProfessor Zubov. Journal of Physical Oceanography, 1978, 8, 825-837.	0.7	38
152	Accuracy improvement in an infrared satellite skin sea surface temperature product. , 0, , .		0
153	Remote sensing and modeling of wildfires. , 0, , .		0
154	A Comparison between Microwave Sea Surface Temperatures and In Situ Measurements and Model Simulations in the Labrador Sea. , 0, , .		0
155	Automated AVHRR image navigation. , 0, , 383-399.		0