Aaron A Berg

List of Publications by Year
in descending order

167 papers	7,874 citations	57758 44 h-index	54911 84 g-index
179 all docs	179 docs citations	179 times ranked	6887 citing authors

#	Article	IF	Citations
1	The Impact of In Situ Probe Orientation on SMAP Validation Statistics. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	1
2	Application of L-band SAR for mapping tundra shrub biomass, leaf area index, and rainfall interception. Remote Sensing of Environment, 2022, 268, 112747.	11.0	12
3	Regularized Dual-Channel Algorithm for the Retrieval of Soil Moisture and Vegetation Optical Depth From SMAP Measurements. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 102-114.	4.9	13
4	Cover crop mixtures: A powerful strategy to reduce post-harvest surplus of soil nitrate and leaching. Agriculture, Ecosystems and Environment, 2022, 325, 107750.	5.3	11
5	Validation of Soil Moisture Data Products From the NASA SMAP Mission. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 364-392.	4.9	62
6	Evaluation of Agrobiodiversity and Cover Crop Adoption in Southern Ontario Field Crops. Agronomy, 2022, 12, 415.	3.0	1
7	Applying Machine Learning and Time-Series Analysis on Sentinel-1A SAR/InSAR for Characterizing Arctic Tundra Hydro-Ecological Conditions. Remote Sensing, 2022, 14, 1123.	4.0	8
8	Multi-frequency radiometer-based soil moisture retrieval and algorithm parameterization using in situ sites. Remote Sensing of Environment, 2022, 279, 113113.	11.0	6
9	Exploring the Relationship between Cover Crop Adoption and Soil Erosion Severity: A Case Study from the Simcoe Watershed, Ontario, Canada. Land, 2022, 11, 988.	2.9	0
10	Effects of sample size and covariate resolution on field-scale predictive digital mapping of soil carbon. Geoderma, 2022, 425, 116054.	5.1	13
11	Evaluating the temporal accuracy of grassland to cropland change detection using multitemporal image analysis. Remote Sensing of Environment, 2021, 255, 112292.	11.0	17
12	Soil dielectric characterization during freezeâ€“thaw transitions using L-band coaxial and soil moisture probes. Hydrology and Earth System Sciences, 2021, 25, 1117-1131.	4.9	10
13	Summary and synthesis of Changing Cold Regions Network (CCRN) research in the interior of western Canada â€“ PartÂ2: Future change in cryosphere, vegetation, and hydrology. Hydrology and Earth System Sciences, 2021, 25, 1849-1882.	4.9	20
14	Sensitivity of C-Band SAR Polarimetric Variables to the Directionality of Surface Roughness Parameters. Remote Sensing, 2021, 13, 2210.	4.0	4
15	Implications of measurement metrics on soil freezing curves: A simulation of freezeâ€“thaw hysteresis. Hydrological Processes, 2021, 35, e14269.	2.6	5
16	Within-Field Yield Prediction in Cereal Crops Using LiDAR-Derived Topographic Attributes with Geographically Weighted Regression Models. Remote Sensing, 2021, 13, 4152.	4.0	9
17	An inverse dielectric mixing model at 50â€‰MHz that considers soil organic carbon. Hydrology and Earth System Sciences, 2021, 25, 6407-6420.	4.9	3
18	Evaluating the utility of remotely sensed soil moisture for the characterization of runoff response over Canadian watersheds. Canadian Water Resources Journal, 2020, 45, 77-89.	1.2	4

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19	L-Band response to freeze/thaw in a boreal forest stand from ground- and tower-based radiometer observations. Remote Sensing of Environment, 2020, 237, 111542.	11.0	16
20	Parameterization of Vegetation Scattering Albedo in the Tau-Omega Model for Soil Moisture Retrieval on Croplands. Remote Sensing, 2020, 12, 2939.	4.0	4
21	Debris cover on thaw slumps and its insulative role in a warming climate. Earth Surface Processes and Landforms, 2020, 45, 2631-2646.	2.5	8
22	Semi-Automated Roadside Image Data Collection for Characterization of Agricultural Land Management Practices. Remote Sensing, 2020, 12, 2342.	4.0	4
23	Evaluation of SMAP Core Validation Site Representativeness Errors Using Dense Networks of In Situ Sensors and Random Forests. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 6457-6472.	4.9	6
24	How climatic and sociotechnical factors influence crop production: a case study of canola production. SN Applied Sciences, 2020, 2, 1.	2.9	3
25	Comparing the Assimilation of SMOS Brightness Temperatures and Soil Moisture Products on Hydrological Simulation in the Canadian Land Surface Scheme. Remote Sensing, 2020, 12, 3405.	4.0	2
26	Development of a trapezoidal framework-based model (PCALEP) for partition of land evapotranspiration. Journal of Hydrology, 2020, 589, 124994.	5.4	10
27	Satellite-Observed Soil Moisture as an Indicator of Wildfire Risk. Remote Sensing, 2020, 12, 1543.	4.0	29
28	Assessing Soil Cover Levels during the Non-Growing Season Using Multitemporal Satellite Imagery and Spectral Unmixing Techniques. Remote Sensing, 2020, 12, 1397.	4.0	12
29	Improving crop yield forecasts with satellite-based soil moisture estimates: An example for township level canola yield forecasts over the Canadian Prairies. International Journal of Applied Earth Observation and Geoinformation, 2020, 89, 102092.	2.8	6
30	Effect of Rainfall Events on SMAP Radiometer-Based Soil Moisture Accuracy Using Core Validation Sites. Journal of Hydrometeorology, 2020, 21, 255-264.	1.9	9
31	Temporal Change of Soil Carbon on a Long-Term Experimental Site with Variable Crop Rotations and Tillage Systems. Agronomy, 2020, 10, 840.	3.0	17
32	The environmental consequences of climate-driven agricultural frontiers. PLoS ONE, 2020, 15, e0228305.	2.5	58
33	Improved SMAP Dual-Channel Algorithm for the Retrieval of Soil Moisture. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 3894-3905.	6.3	62
34	In Situ Estimates of Freezing/Melting Point Depression in Agricultural Soils Using Permittivity and Temperature Measurements. Water Resources Research, 2020, 56, e2019WR026020.	4.2	14
35	Uncertainty of Reference Pixel Soil Moisture Averages Sampled at SMAP Core Validation Sites. Journal of Hydrometeorology, 2019, 20, 1553-1569.	1.9	24
36	Vegetationâ€“soil moisture coupling metrics from dual-polarization microwave radiometry using regularization. Remote Sensing of Environment, 2019, 231, 111257.	11.0	11

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37	An Analysis of Ground-Point Classifiers for Terrestrial LiDAR. Remote Sensing, 2019, 11, 1915.	4.0	15
38	The SMAP and Copernicus Sentinel 1A/B microwave active-passive high resolution surface soil moisture product. Remote Sensing of Environment, 2019, 233, 111380.	11.0	175
39	Assessment of nitrification and urease inhibitors on nitrate leaching in corn (Zea mays L.). Canadian Journal of Soil Science, 2019, 99, 80-91.	1.2	9
40	A synthesis of three decades of hydrological research at Scotty Creek, NWT, Canada. Hydrology and Earth System Sciences, 2019, 23, 2015-2039.	4.9	30
41	Shrub tundra ecohydrology: rainfall interception is a major component of the water balance. Environmental Research Letters, 2019, 14, 055005.	5.2	24
42	Ensemble Identification of Spectral Bands Related to Soil Organic Carbon Levels over an Agricultural Field in Southern Ontario, Canada. Remote Sensing, 2019, 11, 1298.	4.0	32
43	Comparison of high-resolution airborne soil moisture retrievals to SMAP soil moisture during the SMAP validation experiment 2016 (SMAPVEX16). Remote Sensing of Environment, 2019, 227, 137-150.	11.0	45
44	Impact of Soil Moisture Data Characteristics on the Sensitivity to Crop Yields Under Drought and Excess Moisture Conditions. Remote Sensing, 2019, 11, 372.	4.0	18
45	Fine-Scale SAR Soil Moisture Estimation in the Subarctic Tundra. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4898-4912.	6.3	14
46	Improving Permafrost Modeling by Assimilating Remotely Sensed Soil Moisture. Water Resources Research, 2019, 55, 1814-1832.	4.2	22
47	Canola yield sensitivity to climate indicators and passive microwave-derived soil moisture estimates in Saskatchewan, Canada. Agricultural and Forest Meteorology, 2019, 268, 354-362.	4.8	14
48	Seasonal Dependence of SMAP Radiometer-Based Soil Moisture Performance as Observed Over Core Validation Sites. , 2019, , .		5
49	A Method for Assessing SMAP Core Validation Site Scaling Bias Using Enhanced Sampling and Random Forests. , 2019, , .		0
50	An 11-year (2007â€“2017) soil moisture and precipitation dataset from the Kenaston Network in the Brightwater Creek basin, Saskatchewan, Canada. Earth System Science Data, 2019, 11, 787-796.	9.9	30
51	Capturing agricultural soil freeze/thaw state through remote sensing and ground observations: A soil freeze/thaw validation campaign. Remote Sensing of Environment, 2018, 211, 59-70.	11.0	36
52	An assessment of the differences between spatial resolution and grid size for the SMAP enhanced soil moisture product over homogeneous sites. Remote Sensing of Environment, 2018, 207, 65-70.	11.0	46
53	L-band radiometry freeze/ thaw validation using air temperature and ground measurements. Remote Sensing Letters, 2018, 9, 403-410.	1.4	13
54	GCOM-W AMSR2 Soil Moisture Product Validation Using Core Validation Sites. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 209-219.	4.9	44

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55	Validation of the SMAP freeze/thaw product using categorical triple collocation. Remote Sensing of Environment, 2018, 205, 329-337.	11.0	27
56	Minor contribution of overstorey transpiration to landscape evapotranspiration in boreal permafrost peatlands. Ecohydrology, 2018, 11, e1975.	2.4	25
57	The SMAP mission combined active-passive soil moisture product at 9â€¯km and 3â€¯km spatial resolutions. Remote Sensing of Environment, 2018, 211, 204-217.	11.0	59
58	Plot-scale assessment of soil freeze/thaw detection and variability with impedance probes: implications for remote sensing validation networks. Hydrology Research, 2018, 49, 1-16.	2.7	7
59	Development and assessment of the SMAP enhanced passive soil moisture product. Remote Sensing of Environment, 2018, 204, 931-941.	11.0	297
60	Temporal transferability of soil moisture calibration equations. Journal of Hydrology, 2018, 556, 349-358.	5.4	11
61	Analysis of Soil Freeze/Thaw Signatures During Slapex F/T Campaign. , 2018, , .		0
62	Use of L-Band Ground-Based Radiometers for Freeze/Thaw Retrieval in A Boreal Forest Site. , 2018, , .		0
63	L-, C- and X-Band Passive Microwave Soil Moisture Retrieval Algorithm Parameterization Using in Situ Validation Sites. , 2018, , .		2
64	Assessing SMAP Soil Moisture Scaling and Retrieval in the Carman (Canada) Study Site. Vadose Zone Journal, 2018, 17, 1-14.	2.2	59
65	Contributions of Geophysical and C-Band SAR Data for Estimation of Field Scale Soil Moisture. , 2018, , .		1
66	Precision conservation meets precision agriculture: A case study from southern Ontario. Agricultural Systems, 2018, 167, 176-185.	6.1	40
67	Modelling the L-Band Snow-Covered Surface Emission in a Winter Canadian Prairie Environment. Remote Sensing, 2018, 10, 1451.	4.0	8
68	Climate change and permafrost thaw-induced boreal forest loss in northwestern Canada. Environmental Research Letters, 2018, 13, 084018.	5.2	60
69	Canadian snow and sea ice: assessment of snow, sea ice, and related climate processes in Canada's Earth system model and climate-prediction system. Cryosphere, 2018, 12, 1137-1156.	3.9	27
70	Using a Mobile Device â€œAppâ€•and Proximal Remote Sensing Technologies to Assess Soil Cover Fractions on Agricultural Fields. Sensors, 2018, 18, 708.	3.8	15
71	Influence of snowmelt on soil moisture and on near surface air temperature during winterâ€“spring transition season. Climate Dynamics, 2018, 51, 1295-1309.	3.8	14
72	Estimating time-dependent vegetation biases in the SMAP soil moisture product. Hydrology and Earth System Sciences, 2018, 22, 4473-4489.	4.9	33

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73	Comparing the Use of Terrestrial LiDAR Scanners and Pin Profilers for Deriving Agricultural Roughness Statistics. Canadian Journal of Remote Sensing, 2018, 44, 153-168.	2.4	6
74	Characterization of the Spatial Variability of In-Situ Soil Moisture Measurements for Upscaling at the Spatial Resolution of RADARSAT-2. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 1813-1823.	4.9	7
75	Validation of SMAP surface soil moisture products with core validation sites. Remote Sensing of Environment, 2017, 191, 215-231.	11.0	503
76	Response of L-Band brightness temperatures to freeze/thaw and snow dynamics in a prairie environment from ground-based radiometer measurements. Remote Sensing of Environment, 2017, 191, 67-80.	11.0	50
77	A Time-Series Approach to Estimating Soil Moisture From Vegetated Surfaces Using L-Band Radar Backscatter. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 3186-3193.	6.3	60
78	Surface Soil Moisture Retrieval Using the L-Band Synthetic Aperture Radar Onboard the Soil Moisture Activeâ€"Passive Satellite and Evaluation at Core Validation Sites. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1897-1914.	6.3	64
79	Globally important nitrous oxide emissions from croplands induced by freezeâ€"thaw cycles. Nature Geoscience, 2017, 10, 279-283.	12.9	200
80	A Method for Upscaling In Situ Soil Moisture Measurements to Satellite Footprint Scale Using Random Forests. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 2663-2673.	4.9	47
81	Validation of the Soil Moisture Active Passive (SMAP) satellite soil moisture retrieval in an Arctic tundra environment. Geophysical Research Letters, 2017, 44, 4152-4158.	4.0	15
82	Contributions of C-Band SAR Data and Polarimetric Decompositions to Subarctic Boreal Peatland Mapping. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 1467-1482.	4.9	24
83	Sensitivity of GRACE-derived estimates of groundwater-level changes in southern Ontario, Canada. Hydrogeology Journal, 2017, 25, 2391-2402.	2.1	14
84	Assessment of the SMAP Level-4 Surface and Root-Zone Soil Moisture Product Using In Situ Measurements. Journal of Hydrometeorology, 2017, 18, 2621-2645.	1.9	196
85	Domain Adaptation Using Representation Learning for the Classification of Remote Sensing Images. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 4198-4209.	4.9	61
86	Soil moisture retrieval with airborne PALS instrument over agricultural areas in SMAPVEX16. , 2017, , .		1
87	Development and validation of the SMAP enhanced passive soil moisture product. , 2017, , .		6
88	Importance of soil organic carbon in near-surface soil water content estimation: A simple model comparison in dry-end Canadian Prairie soils. Canadian Water Resources Journal, 2017, 42, 364-377.	1.2	3
89	Spatial Variability of L-Band Brightness Temperature during Freeze/Thaw Events over a Prairie Environment. Remote Sensing, 2017, 9, 894.	4.0	13
90	Assessment of version 4 of the SMAP passive soil moisture standard product. , 2017, , .		5

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91	AMSR2 soil moisture product validation. , 2017, , .		2
92	Seasonal Variability in Vadose Zone Biodegradation at a Crude Oil Pipeline Rupture Site. Vadose Zone Journal, 2016, 15, 1-14.	2.2	29
93	Soil Moisture Retrievals Using Optical/TIR Methods. , 2016, , 47-72.		5
94	Analysis of L-Band brightness temperatures response to freeze/thaw in two prairie environments from surface-based radiometer measurements. , 2016, , .		0
95	Surface soil moisture retrieval using L-band SMAP SAR data and its validation. , 2016, , .		2
96	SMAP soil moisture drying more rapid than observed in situ following rainfall events. Geophysical Research Letters, 2016, 43, 8068-8075.	4.0	84
97	Development and validation of the GCOM-W AMSR2 soil moisture product. , 2016, , .		2
98	Method for upscaling in-situ soil moisture measurements for calibration and validation of smap soil moisture products. , 2016, , .		1
99	Assessment of the SMAP Passive Soil Moisture Product. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 4994-5007.	6.3	460
100	DEM Fusion using a modifiedk-means clustering algorithm. International Journal of Digital Earth, 2016, 9, 1242-1255.	3.9	14
101	Evaluating DEM conditioning techniques, elevation source data, and grid resolution for field-scale hydrological parameter extraction. Journal of Hydrology, 2016, 540, 1022-1029.	5.4	74
102	Regional scale spatial and temporal variability of soil moisture in a prairie region. Hydrological Processes, 2016, 30, 3639-3649.	2.6	11
103	Monitoring tomato root zone water content variation and partitioning evapotranspiration with a novel horizontally-oriented mobile dielectric sensor. Agricultural and Forest Meteorology, 2016, 228-229, 85-94.	4.8	15
104	Evaluation of the validated Soil Moisture product from the SMAP radiometer. , 2016, , .		9
105	Satellite surface soil moisture from SMOS and Aquarius: Assessment for applications in agricultural landscapes. International Journal of Applied Earth Observation and Geoinformation, 2016, 45, 143-154.	2.8	36
106	Impact of sub-pixel heterogeneity on modelled brightness temperature for an agricultural region. International Journal of Applied Earth Observation and Geoinformation, 2016, 45, 212-220.	2.8	9
107	Hyperresolution Land Surface Modeling in the Context of SMAP Calâ€“Val. Journal of Hydrometeorology, 2016, 17, 345-352.	1.9	13
108	Modelling desertification risk in the north-west of Jordan using geospatial and remote sensing techniques. Geomatics, Natural Hazards and Risk, 2016, 7, 531-549.	4.3	11

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109	Influence of snow and soil moisture initialization on sub-seasonal predictability and forecast skill in boreal spring. Climate Dynamics, 2016, 47, 49-65.	3.8	25
110	Errors associated with estimating vegetation water content from radar for use in passive microwave brightness temperature algorithms. International Journal of Remote Sensing, 2015, 36, 782-796.	2.9	8
111	Sediment-assisted nutrient transfer from a small, no-till, tile drained watershed in Southwestern Ontario, Canada. Agricultural Water Management, 2015, 152, 31-40.	5.6	19
112	Evaluation of SMOS soil moisture products over the CanEx-SM10 area. Journal of Hydrology, 2015, 520, 254-267.	5.4	40
113	Use of in situ soil moisture network for estimating regional-scale soil moisture during high soil moisture conditions. Canadian Water Resources Journal, 2015, 40, 343-351.	1.2	17
114	Evaluation of near-surface soil moisture data from an AAFC monitoring network in Manitoba, Canada: Implications for L-band satellite validation. Journal of Hydrology, 2015, 521, 582-592.	5.4	36
115	Soil organic carbon as a factor in passive microwave retrievals of soil water content over agricultural croplands. Journal of Hydrology, 2015, 528, 643-651.	5.4	14
116	The Soil Moisture Active Passive Validation Experiment 2012 (SMAPVEX12): Prelaunch Calibration and Validation of the SMAP Soil Moisture Algorithms. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 2784-2801.	6.3	206
117	Laboratory Calibration Procedures of the Hydra Probe Soil Moisture Sensor:Infiltration Wet-Up vs. Dry-Down. Vadose Zone Journal, 2014, 13, vzj2014.07.0081.	2.2	22
118	Evaluation of L-Band passive microwave soil moisture for Canada. , 2014, , .		1
119	Importance of soil organic carbon on surface soil water content variability among agricultural fields. Journal of Hydrology, 2014, 516, 297-303.	5.4	46
120	A comparison of two models to predict soil moisture from remote sensing data of RADARSAT II. Arabian Journal of Geosciences, 2014, 7, 4851-4860.	1.3	9
121	Horizontal monitoring of soil water content using a novel automated and mobile electromagnetic access-tube sensor. Journal of Hydrology, 2014, 516, 50-55.	5.4	18
122	Impact of soil surface characteristics on soil water content variability in agricultural fields. Hydrological Processes, 2014, 28, 4340-4351.	2.6	28
123	Estimation of soil moisture using optical/thermal infrared remote sensing in the Canadian Prairies. ISPRS Journal of Photogrammetry and Remote Sensing, 2013, 83, 94-103.	11.1	122
124	Evaluation of several calibration procedures for a portable soil moisture sensor. Journal of Hydrology, 2013, 498, 335-344.	5.4	77
125	Canadian Experiment for Soil Moisture in 2010 (CanEx-SM10): Overview and Preliminary Results. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 347-363.	6.3	71
126	Evaluating the Cloudeâ€“Pottier and Freemanâ€“Durden scattering decompositions for distinguishing between unharvested and post-harvest agricultural fields. Canadian Journal of Remote Sensing, 2013, 39, 318-327.	2.4	18

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127	Sensitivity of C-band SAR polarimetric variables to unvegetated agricultural fields. Canadian Journal of Remote Sensing, 2013, 39, 1-16.	2.4	49
128	Field Level Soil Moisture Variability at 6â€•and 3â€cm Sampling Depths: Implications for Microwave Sensor Validation. Vadose Zone Journal, 2013, 12, 1-12.	2.2	17
129	Validating the BERMS in situ Soil Water Content Data Record with a Large Scale Temporary Network. Vadose Zone Journal, 2013, 12, 1-5.	2.2	15
130	Evaluating Autoselection Methods Used for Choosing Solutions from Pareto-Optimal Set: Does Nondominance Persist from Calibration to Validation Phase?. Journal of Hydrologic Engineering - ASCE, 2012, 17, 150-159.	1.9	14
131	Pareto-optimality and a search for robustness: choosing solutions with desired properties in objective space and parameter space. Journal of Hydroinformatics, 2012, 14, 270-285.	2.4	11
132	Effect of Realistic Soil Moisture Initialization on the Canadian CanCM3 Seasonal Forecast Model. Atmosphere - Ocean, 2012, 50, 466-474.	1.6	12
133	Airborne active and passive L-band measurements using PALS instrument in SMAPVEX12 soil moisture field campaign. Proceedings of SPIE, 2012, , .	0.8	0
134	Validation of SMOS Data Over Agricultural and Boreal Forest Areas in Canada. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 1623-1635.	6.3	62
135	Upscaling sparse groundâ€based soil moisture observations for the validation of coarseâ€resolution satellite soil moisture products. Reviews of Geophysics, 2012, 50, .	23.0	493
136	Evaluation of soil moisture extremes for agricultural productivity in the Canadian prairies. Agricultural and Forest Meteorology, 2012, 165, 1-11.	4.8	34
137	Soil Moisture Initialization Effects in the CCCma AGCM3: Relationship of Sub-Seasonal Climate Forecast Error to Uncertainty in Soil Moisture Initializations. Atmosphere - Ocean, 2011, 49, 179-188.	1.6	5
138	Energy-based comparison between a dynamic cone penetrometer and a motor-operated static cone penetrometer. Soil and Tillage Research, 2011, 115-116, 105-109.	5.6	12
139	Observing soil water dynamics under two field conditions by a novel sensor system. Journal of Hydrology, 2011, 409, 555-560.	5.4	11
140	Soil moisture retrieval over agricultural fields from multi-polarized and multi-angular RADARSAT-2 SAR data. Remote Sensing of Environment, 2011, 115, 33-43.	11.0	172
141	Monitoring agricultural soil moisture extremes in Canada using passive microwave remote sensing. Remote Sensing of Environment, 2011, 115, 2434-2444.	11.0	39
142	An Integrated Framework for a Joint Assimilation of Brightness Temperature and Soil Moisture Using the Nondominated Sorting Genetic Algorithm II. Journal of Hydrometeorology, 2011, 12, 1596-1609.	1.9	23
143	The Second Phase of the Global Landâ€“Atmosphere Coupling Experiment: Soil Moisture Contributions to Subseasonal Forecast Skill. Journal of Hydrometeorology, 2011, 12, 805-822.	1.9	296
144	Selecting Model Parameter Sets from a Trade-off Surface Generated from the Non-Dominated Sorting Genetic Algorithm-II. Water Resources Management, 2010, 24, 4469-4489.	3.9	48

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145	Evaluation of soil moisture derived from passive microwave remote sensing over agricultural sites in Canada using ground-based soil moisture monitoring networks. International Journal of Remote Sensing, 2010, 31, 3669-3690.	2.9	53
146	Evaluating the Impact of Assimilating Soil Moisture Variability Data on Latent Heat Flux Estimation in a Land Surface Model. Canadian Water Resources Journal, 2010, 35, 157-172.	1.2	16
147	Tree ring evidence for limited direct CO₂ fertilization of forests over the 20th century. Global Biogeochemical Cycles, 2010, 24, .	4.9	127
148	Contribution of land surface initialization to subseasonal forecast skill: First results from a multiâ€model experiment. Geophysical Research Letters, 2010, 37, .	4.0	330
149	Potentials of RADARSAT-2 data to monitor freezing/thawing cycles over agricultural lands in Canada. , 2009, , .		0
150	Use of Radarsat-2 images to develop a scaling method of soil moisture over an agricultural area. , 2009, , .		1
151	Sensitivity of the Statistical DownScaling Model (SDSM) to reanalysis products. Atmosphere - Ocean, 2009, 47, 1-18.	1.6	32
152	Assimilation of Soil Moisture and Temperature Data into Land Surface Models: A Survey. , 2009, , 429-448.		4
153	Field observations of soil moisture variability across scales. Water Resources Research, 2008, 44, .	4.2	316
154	Reply to comment by H. Vereecken et al. on â€œField observations of soil moisture variability across scalesâ€• Water Resources Research, 2008, 44, .	4.2	56
155	Relationships of pest grasshopper populations in Alberta, Canada to soil moisture and climate variables. Agricultural and Forest Meteorology, 2007, 144, 73-84.	4.8	29
156	Streamflow predictability in the Saskatchewan/Nelson River basin given macroscale estimates of the initial soil moisture status. Hydrological Sciences Journal, 2006, 51, 642-654.	2.6	40
157	Filling gaps in evapotranspiration measurements for water budget studies: Evaluation of a Kalman filtering approach. Agricultural and Forest Meteorology, 2006, 141, 57-66.	4.8	78
158	Evaluation of 10 Methods for Initializing a Land Surface Model. Journal of Hydrometeorology, 2005, 6, 146-155.	1.9	108
159	Development of a hydrometeorological forcing data set for global soil moisture estimation. International Journal of Climatology, 2005, 25, 1697-1714.	3.5	51
160	Global Soil Moisture from Satellite Observations, Land Surface Models, and Ground Data: Implications for Data Assimilation. Journal of Hydrometeorology, 2004, 5, 430-442.	1.9	315
161	Realistic Initialization of Land Surface States: Impacts on Subseasonal Forecast Skill. Journal of Hydrometeorology, 2004, 5, 1049-1063.	1.9	178
162	Impact of bias correction to reanalysis products on simulations of North American soil moisture and hydrological fluxes. Journal of Geophysical Research, 2003, 108, ACL 2-1-ACL 2-15.	3.3	116

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163	Characterizing regional uncertainty in the initial soil moisture status. Geophysical Research Letters, 2003, 30, .	4.0	4
164	Spatial distribution of soil moisture over 6 and 30cm depth, Mahurangi river catchment, New Zealand. Journal of Hydrology, 2003, 276, 254-274.	5.4	88
165	Linking observed and general circulation model upper air circulation patterns to current and future snow runoff for the Rocky Mountains. Water Resources Research, 1999, 35, 3793-3802.	4.2	20
166	SPATIAL ANALYSIS OF TEMPERATURE AND PRECIPITATION ANOMALIES ON THE CANADIAN PRAIRIES DURING TWO STRONG EL NINO EVENTS. Canadian Water Resources Journal, 1998, 23, 231-243.	1.2	5
167	AN URBAN WATER BALANCE STUDY, LETHBRIDGE, ALBERTA: ESTIMATION OF URBAN LAWN OVERWATERING AND POTENTIAL EFFECTS ON LOCAL WATER TABLES. Canadian Water Resources Journal, 1996, 21, 355-365.	1.2	9