Kalifa Goïta

List of Publications by Year
in descending order

45 papers	1,296 citations	430874 18 h-index	361022 35 g-index
47 all docs	47 docs citations	47 times ranked	1541 citing authors

#	Article	IF	Citations
1	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
2	Automatic change detection of buildings in urban environment from very high spatial resolution images using existing geodatabase and prior knowledge. ISPRS Journal of Photogrammetry and Remote Sensing, 2010, 65, 143-153.	11.1	183
3	Validation of the Sentinel Simplified Level 2 Product Prototype Processor (SL2P) for mapping cropland biophysical variables using Sentinel-2/MSI and Landsat-8/OLI data. Remote Sensing of Environment, 2019, 225, 416-430.	11.0	64
4	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
5	Crop phenology retrieval via polarimetric SAR decomposition and Random Forest algorithm. Remote Sensing of Environment, 2019, 231, 111234.	11.0	62
6	Comparison of different polarimetric decompositions for soil moisture retrieval over vegetation covered agricultural area. Remote Sensing of Environment, 2017, 199, 120-136.	11.0	58
7	Rule-Based Classification of a Very High Resolution Image in an Urban Environment Using Multispectral Segmentation Guided by Cartographic Data. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 3198-3211.	6.3	57
8	A combination of DISPATCH downscaling algorithm with CLASS land surface scheme for soil moisture estimation at fine scale during cloudy days. Remote Sensing of Environment, 2016, 184, 1-14.	11.0	51
9	Improved Corrections of Forest Effects on Passive Microwave Satellite Remote Sensing of Snow Over Boreal and Subarctic Regions. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3824-3837.	6.3	46
10	Evaluation of SMOS soil moisture products over the CanEx-SM10 area. Journal of Hydrology, 2015, 520, 254-267.	5.4	40
11	Disaggregation of SMOS soil moisture over the Canadian Prairies. Remote Sensing of Environment, 2015, 170, 255-268.	11.0	38
12	Potential of a two-component polarimetric decomposition at C-band for soil moisture retrieval over agricultural fields. Remote Sensing of Environment, 2018, 217, 38-51.	11.0	38
13	A Case Study of Using a Multilayered Thermodynamical Snow Model for Radiance Assimilation. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 2828-2837.	6.3	36
14	Evaluation of Simplified Polarimetric Decomposition for Soil Moisture Retrieval over Vegetated Agricultural Fields. Remote Sensing, 2016, 8, 142.	4.0	33
15	Characterization of land surface thermal structure from NOAA-AVHRR data over a northern ecosystem. Remote Sensing of Environment, 1997, 60, 282-298.	11.0	23
16	Simultaneous assimilation of in situ soil moisture and streamflow in the SWAT model using the Extended Kalman Filter. Journal of Hydrology, 2016, 543, 671-685.	5.4	23
17	Polarimetric Decomposition for Monitoring Crop Growth Status. IEEE Geoscience and Remote Sensing Letters, 2016, 13, 870-874.	3.1	20
18	Monitoring Dry, Wet, and No-Snow Conditions From Microwave Satellite Observations. IEEE Geoscience and Remote Sensing Letters, 2010, 7, 670-674.	3.1	18

#	Article	IF	Citations
19	Soil Moisture Retrievals by Combining Passive Microwave and Optical Data. Remote Sensing, 2020, 12, 3173.	4.0	18
20	Mapping terrestrial water storage changes in Canada using GRACE and GRACE-FO. Science of the Total Environment, 2021, 779, 146435.	8.0	18
21	Soil moisture retrievals using ALOS2-ScanSAR and MODIS synergy over Tibetan Plateau. Remote Sensing of Environment, 2020, 251, 112100.	11.0	16
22	A new approach for generating optimal GLDAS hydrological products and uncertainties. Science of the Total Environment, 2020, 730, 138932.	8.0	16
23	Analysing the contribution of snow water equivalent to the terrestrial water storage over Canada. Hydrological Processes, 2020, 34, 175-188.	2.6	14
24	Estimation of Mineral Abundance From Hyperspectral Data Using a New Supervised Neighbor-Band Ratio Unmixing Approach. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 6754-6766.	6.3	13
25	Improving the Estimation of Water Level over Freshwater Ice Cover using Altimetry Satellite Active and Passive Observations. Remote Sensing, 2020, 12, 967.	4.0	13
26	Estimation of aboveground biomass and carbon in a tropical rain forest in Gabon using remote sensing and GPS data. Geocarto International, 2019, 34, 243-259.	3.5	12
27	Spatial Gap-Filling of SMAP Soil Moisture Pixels Over Tibetan Plateau via Machine Learning Versus Geostatistics. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 9899-9912.	4.9	12
28	Validation and use of rainfall radar data to simulate water flows in the Rio Escondido basin. Stochastic Environmental Research and Risk Assessment, 2010, 24, 559-565.	4.0	11
29	Hydrodynamic groundwater modeling and hydrochemical conceptualization of the mining area of Moulares Redeyef (southwestern of Tunisia): New local insights. Physics and Chemistry of the Earth, 2021, 121, 102974.	2.9	11
30	Impact of temporal variations in vegetation optical depth and vegetation temperature on L-band passive soil moisture retrievals over a tropical forest using *in-situ* information. International Journal of Remote Sensing, 2020, 41, 2098-2139.	2.9	10
31	On-Farm Evaluation on Yield and Economic Performance of Cereal-Cowpea Intercropping to Support the Smallholder Farming System in the Soudano-Sahelian Zone of Mali. Agriculture (Switzerland), 2020, 10, 214.	3.1	10
32	Reconstructing groundwater storage variations from GRACE observations using a new Gaussian-Han-Fan (GHF) smoothing approach. Journal of Hydrology, 2022, 604, 127234.	5.4	9
33	Estimation of Aboveground Oil Palm Biomass in a Mature Plantation in the Congo Basin. Forests, 2020, 11, 544.	2.1	8
34	Data assimilation of satellite-based terrestrial water storage changes into a hydrology land-surface model. Journal of Hydrology, 2021, 597, 125744.	5.4	8
35	Analysis of Air Pollution from Swine Production by Using Air Dispersion Model and GIS in Quebec. Journal of Environmental Quality, 2010, 39, 1975-1983.	2.0	7
36	Estimation of the total dry aboveground biomass in the tropical forests of Congo Basin using optical, LiDAR, and radar data. GIScience and Remote Sensing, 2022, 59, 431-460.	5.9	7

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37	Analysis of boreal forest dynamics using the global vegetation index. International Journal of Remote Sensing, 1997, 15, 265-282.	1.0	6
38	Literature review of artificial neural networks and knowledge-based systems for image analysis and interpretation of data in remote sensing. Canadian Journal of Electrical and Computer Engineering, 1994, 19, 53-61.	2.0	4
39	Evaluation of FORMOSAT-2 and PlanetScope Imagery for Aboveground Oil Palm Biomass Estimation in a Mature Plantation in the Congo Basin. Remote Sensing, 2020, 12, 2926.	4.0	4
40	Soil moisture retrieval over a site of intensive agricultural production using airborne radiometer data. International Journal of Applied Earth Observation and Geoinformation, 2021, 97, 102287.	2.8	3
41	Evidential Data Fusion for Characterization of Pavement Surface Conditions during Winter Using a Multi-Sensor Approach. Sensors, 2021, 21, 8218.	3.8	3
42	Land surface climatology and land cover change monitoring since 1973 over a northâ€Sahelian zone (Ansongo â€•Mali) using landsat data. Geocarto International, 1993, 8, 15-28.	3.5	2
43	Incertitudes des niveaux dâ€™eau dÃ©rivÃ©s de lâ€™altimÃ©trie satellitaire pour des Ã©tendues dâ€™eau soumises Ã lâ€™action de la glace. Canadian Journal of Remote Sensing, 2020, 46, 429-453.	2.4	1
44	Mineralogical and lithological unmixing with radiative transfer modelling in the open-pit context of Mine Canadian Malartic. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 241, 106707.	2.3	0
45	A semi-empirical approach to quantify and handle the effect of moisture on spectral unmixing. International Journal of Applied Earth Observation and Geoinformation, 2021, 96, 102259.	2.8	0