

Valerie Demarez

List of Publications by Year in descending order

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31
papers

2,287
citations

331259

21
h-index

476904

29
g-index

32
all docs

32
docs citations

32
times ranked

2462
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling radiative transfer in heterogeneous 3-D vegetation canopies. Remote Sensing of Environment, 1996, 58, 131-156.	4.6	373
2	Estimating maize biomass and yield over large areas using high spatial and temporal resolution Sentinel-2 like remote sensing data. Remote Sensing of Environment, 2016, 184, 668-681.	4.6	219
3	Maize and sunflower biomass estimation in southwest France using high spatial and temporal resolution remote sensing data. Remote Sensing of Environment, 2012, 124, 844-857.	4.6	213
4	Estimation of leaf area and clumping indexes of crops with hemispherical photographs. Agricultural and Forest Meteorology, 2008, 148, 644-655.	1.9	200
5	Validation of coarse spatial resolution LAI and FAPAR time series over cropland in southwest France. Remote Sensing of Environment, 2013, 139, 216-230.	4.6	155
6	The AMMA-CATCH Gourma observatory site in Mali: Relating climatic variations to changes in vegetation, surface hydrology, fluxes and natural resources. Journal of Hydrology, 2009, 375, 14-33.	2.3	140
7	A Modeling Approach for Studying Forest Chlorophyll Content. Remote Sensing of Environment, 2000, 71, 226-238.	4.6	111
8	Seasonal variation of leaf chlorophyll content of a temperate forest. Inversion of the PROSPECT model. International Journal of Remote Sensing, 1999, 20, 879-894.	1.3	100
9	Modeling BRDF and Radiation Regime of Boreal and Tropical Forests. Remote Sensing of Environment, 1999, 68, 281-316.	4.6	91
10	Response of surface energy balance to water regime and vegetation development in a Sahelian landscape. Journal of Hydrology, 2009, 375, 178-189.	2.3	76
11	A Generic Algorithm to Estimate LAI, FAPAR and FCOVER Variables from SPOT4_HRVIR and Landsat Sensors: Evaluation of the Consistency and Comparison with Ground Measurements. Remote Sensing, 2015, 7, 15494-15516.	1.8	70
12	In-Season Mapping of Irrigated Crops Using Landsat 8 and Sentinel-1 Time Series. Remote Sensing, 2019, 11, 118.	1.8	67
13	Mapping Irrigated Areas Using Sentinel-1 Time Series in Catalonia, Spain. Remote Sensing, 2019, 11, 1836.	1.8	65
14	Land Cover and Crop Type Classification along the Season Based on Biophysical Variables Retrieved from Multi-Sensor High-Resolution Time Series. Remote Sensing, 2015, 7, 10400-10424.	1.8	54
15	Assessing the effects of the clumping phenomenon on BRDF of a maize crop based on 3D numerical scenes using DART model. Agricultural and Forest Meteorology, 2008, 148, 1341-1352.	1.9	46
16	Estimation of LAI, fAPAR and fCover of Sahel rangelands (Gourma, Mali). Agricultural and Forest Meteorology, 2014, 198-199, 155-167.	1.9	43
17	Modeling water needs and total irrigation depths of maize crop in the south west of France using high spatial and temporal resolution satellite imagery. Agricultural Water Management, 2017, 189, 123-136.	2.4	40
18	Detection of Irrigated and Rainfed Crops in Temperate Areas Using Sentinel-1 and Sentinel-2 Time Series. Remote Sensing, 2020, 12, 3044.	1.8	35

#	ARTICLE	IF	CITATIONS
19	Near Real-Time Irrigation Detection at Plot Scale Using Sentinel-1 Data. Remote Sensing, 2020, 12, 1456.	1.8	32
20	Early Detection of Summer Crops Using High Spatial Resolution Optical Image Time Series. Remote Sensing, 2016, 8, 591.	1.8	29
21	Contrasted land surface processes along the West African rainfall gradient. Atmospheric Science Letters, 2011, 12, 31-37.	0.8	23
22	An Operational Framework for Mapping Irrigated Areas at Plot Scale Using Sentinel-1 and Sentinel-2 Data. Remote Sensing, 2021, 13, 2584.	1.8	20
23	Combining hectometric and decametric satellite observations to provide near real time decametric FAPAR product. Remote Sensing of Environment, 2017, 200, 250-262.	4.6	17
24	Extracting Soil Water Holding Capacity Parameters of a Distributed Agro-Hydrological Model from High Resolution Optical Satellite Observations Series. Remote Sensing, 2016, 8, 154.	1.8	16
25	Agro-hydrology and multi-temporal high-resolution remote sensing: toward an explicit spatial processes calibration. Hydrology and Earth System Sciences, 2014, 18, 5219-5237.	1.9	13
26	Modeling of the radiation regime and photosynthesis of a finite canopy using the DART model. Influence of canopy architecture assumptions and border effects. Agronomy for Sustainable Development, 2000, 20, 259-270.	0.8	10
27	STICS crop model and Sentinel-2 images for monitoring rice growth and yield in the Camargue region. Agronomy for Sustainable Development, 2021, 41, 1.	2.2	9
28	Spatialization of crop leaf area index and biomass by combining a simple crop model SAFY and high spatial and temporal resolutions remote sensing data. , 2009, , .		6
29	Photosynthesis of a temperate fallow C_3 herbaceous ecosystem: measurements and model simulations at the leaf and canopy levels. Photosynthetica, 2009, 47, .	0.9	5
30	Contribution of Remote Sensing for Crop and Water Monitoring. , 2016, , 113-177.		5
31	A leaf area index data set acquired in Sahelian rangelands of Gourma in Mali over the 2005-2017 period. Earth System Science Data, 2019, 11, 675-686.	3.7	4