GÃ©rard Dedieu

List of Publications by Year
in descending order

64 papers	**5,155** citations	117625 **34** h-index	182427 **51** g-index
64 all docs	**64** docs citations	**64** times ranked	**5844** citing authors

#	Article	IF	Citations
1	Assessing the robustness of Random Forests to map land cover with high resolution satellite image time series over large areas. Remote Sensing of Environment, 2016, 187, 156-168.	11.0	397
2	A multi-temporal method for cloud detection, applied to FORMOSAT-2, VENÂµS, LANDSAT and SENTINEL-2 images. Remote Sensing of Environment, 2010, 114, 1747-1755.	11.0	345
3	Global-Scale Assessment of Vegetation Phenology Using NOAA/AVHRR Satellite Measurements. Journal of Climate, 1997, 10, 1154-1170.	3.2	317
4	Assessment of an Operational System for Crop Type Map Production Using High Temporal and Spatial Resolution Satellite Optical Imagery. Remote Sensing, 2015, 7, 12356-12379.	4.0	262
5	TURC: A diagnostic model of continental gross primary productivity and net primary productivity. Global Biogeochemical Cycles, 1996, 10, 269-285.	4.9	245
6	Discrete Anisotropic Radiative Transfer (DART 5) for Modeling Airborne and Satellite Spectroradiometer and LIDAR Acquisitions of Natural and Urban Landscapes. Remote Sensing, 2015, 7, 1667-1701.	4.0	234
7	A Multi-Temporal and Multi-Spectral Method to Estimate Aerosol Optical Thickness over Land, for the Atmospheric Correction of FormoSat-2, LandSat, VENÎ¼S and Sentinel-2 Images. Remote Sensing, 2015, 7, 2668-2691.	4.0	219
8	Near real-time agriculture monitoring at national scale at parcel resolution: Performance assessment of the Sen2-Agri automated system in various cropping systems around the world. Remote Sensing of Environment, 2019, 221, 551-568.	11.0	216
9	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.	11.0	213
10	Estimation of leaf area and clumping indexes of crops with hemispherical photographs. Agricultural and Forest Meteorology, 2008, 148, 644-655.	4.8	200
11	Carbon balance of a three crop succession over two cropland sites in South West France. Agricultural and Forest Meteorology, 2009, 149, 1628-1645.	4.8	178
12	SMOSREX: A long term field campaign experiment for soil moisture and land surface processes remote sensing. Remote Sensing of Environment, 2006, 102, 377-389.	11.0	167
13	Spatial and temporal dynamics of vegetation in the San Pedro River basin area. Agricultural and Forest Meteorology, 2000, 105, 55-68.	4.8	148
14	Disaggregation of MODIS surface temperature over an agricultural area using a time series of Formosat-2 images. Remote Sensing of Environment, 2010, 114, 2500-2512.	11.0	147
15	Effect of Training Class Label Noise on Classification Performances for Land Cover Mapping with Satellite Image Time Series. Remote Sensing, 2017, 9, 173.	4.0	145
16	Detection of Flavescence dorée Grapevine Disease Using Unmanned Aerial Vehicle (UAV) Multispectral Imagery. Remote Sensing, 2017, 9, 308.	4.0	142
17	Correction of aerosol effects on multi-temporal images acquired with constant viewing angles: Application to Formosat-2 images. Remote Sensing of Environment, 2008, 112, 1689-1701.	11.0	119
18	Prototyping of MODIS LAI and FPAR algorithm with LASUR and LANDSAT data. IEEE Transactions on Geoscience and Remote Sensing, 2000, 38, 2387-2401.	6.3	99

#	Article	IF	Citations
19	Production of a Dynamic Cropland Mask by Processing Remote Sensing Image Series at High Temporal and Spatial Resolutions. Remote Sensing, 2016, 8, 55.	4.0	99
20	Relative Radiometric Normalization and Atmospheric Correction of a SPOT 5 Time Series. Sensors, 2008, 8, 2774-2791.	3.8	89
21	Impact of doubled CO_2 on global-scale leaf area index and evapotranspiration: Conflicting stomatal conductance and LAI responses. Journal of Geophysical Research, 2002, 107, ACL 30-1.	3.3	79
22	Spatialising crop models. Agronomy for Sustainable Development, 2004, 24, 205-217.	0.8	78
23	Grassland modeling and monitoring with SPOT-4 VEGETATION instrument during the 1997–1999 SALSA experiment. Agricultural and Forest Meteorology, 2000, 105, 91-115.	4.8	70
24	On the Potentiality of UAV Multispectral Imagery to Detect Flavescence dorée and Grapevine Trunk Diseases. Remote Sensing, 2019, 11, 23.	4.0	69
25	Estimation of heat and momentum fluxes over complex terrain using a large aperture scintillometer. Agricultural and Forest Meteorology, 2000, 105, 215-226.	4.8	66
26	Normalization of sun/view angle effects using spectral albedo-based vegetation indices. Remote Sensing of Environment, 1995, 52, 207-217.	11.0	62
27	Preface paper to the Semi-Arid Land-Surface-Atmosphere (SALSA) Program special issue. Agricultural and Forest Meteorology, 2000, 105, 3-20.	4.8	55
28	Biophysical parameter estimations using multidirectional spectral measurements. Remote Sensing of Environment, 1995, 54, 71-83.	11.0	53
29	Normalisation of directional effects in 10-day global syntheses derived from VEGETATION/SPOT:. Remote Sensing of Environment, 2002, 81, 101-113.	11.0	52
30	The MISTIGRI thermal infrared project: scientific objectives and mission specifications. International Journal of Remote Sensing, 2013, 34, 3437-3466.	2.9	52
31	Building a Data Set over 12 Globally Distributed Sites to Support the Development of Agriculture Monitoring Applications with Sentinel-2. Remote Sensing, 2015, 7, 16062-16090.	4.0	47
32	Estimation and Mapping of Forest Structure Parameters from Open Access Satellite Images: Development of a Generic Method with a Study Case on Coniferous Plantation. Remote Sensing, 2019, 11, 1275.	4.0	42
33	An Analytical Model of Evaporation Efficiency for Unsaturated Soil Surfaces with an Arbitrary Thickness. Journal of Applied Meteorology and Climatology, 2011, 50, 457-471.	1.5	41
34	Methods to aggregate turbulent fluxes over heterogeneous surfaces: application to SALSA data set in Mexico. Agricultural and Forest Meteorology, 2000, 105, 133-144.	4.8	39
35	Combined use of FORMOSAT-2 images with a crop model for biomass and water monitoring of permanent grassland in Mediterranean region. Hydrology and Earth System Sciences, 2010, 14, 1731-1744.	4.9	38
36	Spatial and temporal variability of land CO_2 fluxes estimated with remote sensing and analysis data over western Eurasia. Tellus, Series B: Chemical and Physical Meteorology, 2002, 54, 820-833.	1.6	37

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37	Estimation of area-average sensible heat flux using a large-aperture scintillometer during the Semi-Arid Land-Surface-Atmosphere (SALSA) Experiment. Water Resources Research, 1999, 35, 2505-2511.	4.2	36
38	Combined use of optical and radar satellite data for the detection of tillage and irrigation operations: Case study in Central Morocco. Agricultural Water Management, 2009, 96, 1120-1127.	5.6	33
39	A preliminary synthesis of major scientific results during the SALSA program. Agricultural and Forest Meteorology, 2000, 105, 311-323.	4.8	32
40	Temporal variations in satellite reflectances at field and regional scales compared with values simulated by linking crop growth and SAIL models. Remote Sensing of Environment, 1995, 54, 261-272.	11.0	31
41	Radiation exchanges above West African moist savannas: Seasonal patterns and comparison with a GCM simulation. Journal of Geophysical Research, 1994, 99, 25857.	3.3	19
42	Satellite-Derived Surface Radiation Budget over the African Continent. Part I: Estimation of Downward Solar Irradiance and Albedo. Journal of Climate, 2001, 14, 45-58.	3.2	18
43	Combined Use of Multi-Temporal Landsat-8 and Sentinel-2 Images for Wheat Yield Estimates at the Intra-Plot Spatial Scale. Agronomy, 2020, 10, 327.	3.0	17
44	Extracting Soil Water Holding Capacity Parameters of a Distributed Agro-Hydrological Model from High Resolution Optical Satellite Observations Series. Remote Sensing, 2016, 8, 154.	4.0	16
45	Spatial and temporal variability of land CO<sub>2</sub> fluxes estimated with remote sensing and analysis data over western Eurasia. Tellus, Series B: Chemical and Physical Meteorology, 2022, 54, 820.	1.6	15
46	Agro-hydrology and multi-temporal high-resolution remote sensing: toward an explicit spatial processes calibration. Hydrology and Earth System Sciences, 2014, 18, 5219-5237.	4.9	13
47	Calibration of a coupled canopy functioning and SVAT model in the ReSeDA experiment. Towards the assimilation of SPOT/HRV observations into the model. Agronomy for Sustainable Development, 2002, 22, 681-686.	0.8	13
48	VENµS (Vegetation and environment monitoring on a new micro satellite). , 2010, , .		9
49	The GLOBCARBON initiative global biophysical products for terrestrial carbon studies. , 2007, , .		8
50	Spatialising Crop Models. , 2009, , 687-705.		7
51	Satellite measurements as a constraint on estimates of vegetation carbon budget. Tellus, Series B: Chemical and Physical Meteorology, 1995, 47, 251-263.	1.6	6
52	VENÎ¼S: Mission Characteristics, Final Evaluation of the First Phase and Data Production. Remote Sensing, 2022, 14, 3281.	4.0	6
53	Multi-temporal remote sensing image segmentation of croplands constrained by a topographical database. , 2012, , .		5
54	Estimation of Forest Parameters Combining Multisensor High Resolution Remote Sensing Data. , 2018, , .		3

#	Article	IF	Citations
55	A framework for the simulation of high temporal resolution image series. , 2011, , .		2
56	VENÎ¼S (Vegetation and Environment Monitoring on a New Micro Satellite). , 2010, , 47-65.		2
57	Comments on â€œSurface Albedo over the Sahel from METEOSAT Radiancesâ€. Journal of Climate and Applied Meteorology, 1986, 25, 575-576.	1.0	1
58	Fusion of multi-temporal high resolution optical image series and crop rotation information for land-cover map production. , 2012, , .		1
59	Estimation of Sunflower Yields at a Decametric Spatial Scaleâ€"A Statistical Approach Based on Multi-Temporal Satellite Images. Proceedings (mdpi), 2019, 18, 7.	0.2	1
60	VENÎ¼S (vegetation and environment monitoring on a new micro satellite) image quality. , 2007, 6677, 506.		0
61	Crop mapping by supervised classification of high resolution optical image time series using prior knowledge about crop rotation and topography. , 2013, , .		0
62	Estimation of Wheat Yields at the Intra-Plot Scale by Combining Multi-Temporal Landsat-8 and Sentinel-2 Images. Proceedings (mdpi), 2019, 24, 14.	0.2	0
63	Estimation of Forest Parameters Combining High Resolution Radar and Optical Spaceborne Sensors. , 2019, , .		0
64	Potential of Sentinel-2 Images for Estimating of Soil Resistivity over Agricultural Fields. Proceedings (mdpi), 2019, 24, 18.	0.2	0