

# Olivier Hagolle

## List of Publications by Year in descending order

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89  
papers

5,335  
citations

87888

38  
h-index

138484

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g-index

92  
all docs

92  
docs citations

92  
times ranked

5400  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cloud Mask Intercomparison eXercise (CMIX): An evaluation of cloud masking algorithms for Landsat 8 and Sentinel-2. Remote Sensing of Environment, 2022, 274, 112990.	11.0	64
2	Assessment of the Usefulness of Spectral Bands for the Next Generation of Sentinel-2 Satellites by Reconstruction of Missing Bands. Remote Sensing, 2022, 14, 2503.	4.0	0
3	SEN2VENÎµS, a Dataset for the Training of Sentinel-2 Super-Resolution Algorithms. Data, 2022, 7, 96.	2.3	2
4	VENÎµS: Mission Characteristics, Final Evaluation of the First Phase and Data Production. Remote Sensing, 2022, 14, 3281.	4.0	6
5	Comment on "Comparison of Cloud Cover Detection Algorithms on Sentinel-2 Images of the Amazon Tropical Forest". Remote Sensing, 2021, 13, 1023.	4.0	3
6	Casual Rerouting of AERONET Sun/Sky Photometers: Toward a New Network of Ground Measurements Dedicated to the Monitoring of Surface Properties?. Remote Sensing, 2021, 13, 3072.	4.0	1
7	Brief communication: Evaluation of the snow cover detection in the Copernicus High Resolution Snow & Ice Monitoring Service. Cryosphere, 2021, 15, 4975-4980.	3.9	9
8	Estimating Fractional Snow Cover in Open Terrain from Sentinel-2 Using the Normalized Difference Snow Index. Remote Sensing, 2020, 12, 2904.	4.0	30
9	Evaluation of Methods for Mapping the Snow Cover Area at High Spatio-Temporal Resolution with VENÎµS. Remote Sensing, 2020, 12, 3058.	4.0	6
10	Using Sentinel-2 Image Time Series to map the State of Victoria, Australia. , 2019, , .		5
11	Validation of Copernicus Sentinel-2 Cloud Masks Obtained from MAJA, Sen2Cor, and FMask Processors Using Reference Cloud Masks Generated with a Supervised Active Learning Procedure. Remote Sensing, 2019, 11, 433.	4.0	149
12	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
13	Theia Snow collection: high-resolution operational snow cover maps from Sentinel-2 and Landsat-8 data. Earth System Science Data, 2019, 11, 493-514.	9.9	123
14	VENÎµS: PERFORMANCES AND FIRST RESULTS AFTER 11 MONTHS IN ORBIT. , 2018, , .		8
15	A Surface Albedo Product at High Spatial Resolution from a Combination of Sentinel-2 and Landsat-8 Observations. , 2018, , .		1
16	Atmospheric Correction Inter-Comparison Exercise. Remote Sensing, 2018, 10, 352.	4.0	156
17	VENÎµS in orbit radiometric calibration. , 2018, , .		1
18	TAKE5 Experiment Jazzes Up SPOT5's End of Operational Life, Repurposing SPOT5 to Simulate the New Sentinel-2 Mission. , 2017, , 585-613.		0

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19	Atmospheric Correction of Multi-Spectral Littoral Images Using a PHOTONS/AERONET-Based Regional Aerosol Model. Remote Sensing, 2017, 9, 814.	4.0	6
20	Using Copernicus Atmosphere Monitoring Service Products to Constrain the Aerosol Type in the Atmospheric Correction Processor MAJA. Remote Sensing, 2017, 9, 1230.	4.0	24
21	Calibration of the venûs super-spectral camera. , 2017, , .		1
22	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
23	A Software Tool for Atmospheric Correction and Surface Temperature Estimation of Landsat Infrared Thermal Data. Remote Sensing, 2016, 8, 696.	4.0	53
24	TAKE5 experiment jazzes up SPOT5's end of operational life, using it to simulate the new Sentinel-2 mission. , 2016, , .		0
25	MACCS-ATCOR joint algorithm (MAJA). Proceedings of SPIE, 2016, , .	0.8	21
26	Surface wind speed estimation over open ocean using bidirectional observation by Sentinel-2/MSI and Landsat-8/OLI. , 2016, , .		0
27	Uncertainty assessment of surface net radiation derived from Landsat images. Remote Sensing of Environment, 2016, 175, 251-270.	11.0	39
28	A snow cover climatology for the Pyrenees from MODIS snow products. Hydrology and Earth System Sciences, 2015, 19, 2337-2351.	4.9	120
29	A Multi-Temporal and Multi-Spectral Method to Estimate Aerosol Optical Thickness over Land, for the Atmospheric Correction of FormoSat-2, LandSat, VENÛS and Sentinel-2 Images. Remote Sensing, 2015, 7, 2668-2691.	4.0	219
30	Impact of Sowing Date on Yield and Water Use Efficiency of Wheat Analyzed through Spatial Modeling and FORMOSAT-2 Images. Remote Sensing, 2015, 7, 5951-5979.	4.0	50
31	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.	4.0	54
32	Validation of a Forage Production Index (FPI) Derived from MODIS fCover Time-Series Using High-Resolution Satellite Imagery: Methodology, Results and Opportunities. Remote Sensing, 2015, 7, 11525-11550.	4.0	14
33	Evaluation of Medium Spatial Resolution BRDF-Adjustment Techniques Using Multi-Angular SPOT4 (Take5) Acquisitions. Remote Sensing, 2015, 7, 12057-12075.	4.0	20
34	SPOT-4 (Take 5): Simulation of Sentinel-2 Time Series on 45 Large Sites. Remote Sensing, 2015, 7, 12242-12264.	4.0	66
35	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
36	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.	4.0	70

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37	Building a Data Set over 12 Globally Distributed Sites to Support the Development of Agriculture Monitoring Applications with Sentinel-2. <i>Remote Sensing</i> , 2015, 7, 16062-16090.	4.0	47
38	Development of an index-based insurance product: validation of a forage production index derived from medium spatial resolution fCover time series. <i>GIScience and Remote Sensing</i> , 2015, 52, 94-113.	5.9	19
39	Assessment of daily MODIS snow cover products to monitor snow cover dynamics over the Moroccan Atlas mountain range. <i>Remote Sensing of Environment</i> , 2015, 160, 72-86.	11.0	95
40	The MODIS (collection V006) BRDF/albedo product MCD43D: Temporal course evaluated over agricultural landscape. <i>Remote Sensing of Environment</i> , 2015, 170, 216-228.	11.0	60
41	Impact of climate and land cover changes on snow cover in a small Pyrenean catchment. <i>Journal of Hydrology</i> , 2015, 521, 84-99.	5.4	53
42	Irrigated Grassland Monitoring Using a Time Series of TerraSAR-X and COSMO-SkyMed X-Band SAR Data. <i>Remote Sensing</i> , 2014, 6, 10002-10032.	4.0	67
43	A Life-Size and Near Real-Time Test of Irrigation Scheduling with a Sentinel-2 Like Time Series (SPOT4-Take5) in Morocco. <i>Remote Sensing</i> , 2014, 6, 11182-11203.	4.0	27
44	The Physics of Optical Remote Sensing. , 2014, , 53-81.		2
45	RIVERCOLOR : chaîne de traitement des séries temporelles LANDSAT, SPOT et MODIS de la cartographie des matières en suspension en zone estuarienne. , 2014, , .		1
46	The MISTIGRI thermal infrared project: scientific objectives and mission specifications. <i>International Journal of Remote Sensing</i> , 2013, 34, 3437-3466.	2.9	52
47	Validation of coarse spatial resolution LAI and FAPAR time series over cropland in southwest France. <i>Remote Sensing of Environment</i> , 2013, 139, 216-230.	11.0	155
48	Self-calibrated evaporation-based disaggregation of SMOS soil moisture: An evaluation study at 3 km and 100 m resolution in Catalunya, Spain. <i>Remote Sensing of Environment</i> , 2013, 130, 25-38.	11.0	163
49	A cloud detection method based on a time series of MODIS surface reflectance images. <i>International Journal of Digital Earth</i> , 2013, 6, 157-171.	3.9	52
50	Crop mapping by supervised classification of high resolution optical image time series using prior knowledge about crop rotation and topography. , 2013, , .		0
51	Multi-temporal remote sensing image segmentation of croplands constrained by a topographical database. , 2012, , .		5
52	Maize and sunflower biomass estimation in southwest France using high spatial and temporal resolution remote sensing data. <i>Remote Sensing of Environment</i> , 2012, 124, 844-857.	11.0	213
53	Fusion of multi-temporal high resolution optical image series and crop rotation information for land-cover map production. , 2012, , .		1
54	A framework for the simulation of high temporal resolution image series. , 2011, , .		2

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55	Combined use of optical and radar satellite data for the monitoring of irrigation and soil moisture of wheat crops. Hydrology and Earth System Sciences, 2011, 15, 1117-1129.	4.9	66
56	Geolocation Assessment of MERIS GlobCover Orthorectified Products. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 2972-2982.	6.3	63
57	Monitoring elevation variations in leaf phenology of deciduous broadleaf forests from SPOT/VEGETATION time-series. Remote Sensing of Environment, 2011, 115, 615-627.	11.0	76
58	Low and high spatial resolution time series fusion for improved land cover map production. , 2011, , .		2
59	A multi-temporal method for cloud detection, applied to FORMOSAT-2, VENÛS, LANDSAT and SENTINEL-2 images. Remote Sensing of Environment, 2010, 114, 1747-1755.	11.0	345
60	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
61	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
62	Observation spatiale Å haute resolution spatiale et temporelle : applications pour le suivi de la ressource hydrique en milieu agricole semi-aride. Houille Blanche, 2010, 96, 45-52.	0.3	0
63	VENÛS (Vegetation and environment monitoring on a new micro satellite). , 2010, , .		9
64	VENÛS (Vegetation and Environment Monitoring on a New Micro Satellite). , 2010, , 47-65.		2
65	Albedo and LAI estimates from FORMOSAT-2 data for crop monitoring. Remote Sensing of Environment, 2009, 113, 716-729.	11.0	112
66	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
67	Automatic Registration of Optical Images, a Stake for Future Missions: Application to Ortho-Rectification, Time Series and Mosaic Products. , 2008, , .		9
68	Relative Radiometric Normalization and Atmospheric Correction of a SPOT 5 Time Series. Sensors, 2008, 8, 2774-2791.	3.8	89
69	Assessing the Potentialities of FORMOSAT-2 Data for Water and Crop Monitoring at Small Regional Scale in South-Eastern France. Sensors, 2008, 8, 3460-3481.	3.8	31
70	VENÛS (vegetation and environment monitoring on a new micro satellite) image quality. , 2007, 6677, 506.		0
71	PARASOL in-flight calibration and performance. Applied Optics, 2007, 46, 5435.	2.1	124
72	LAI, fAPAR and fCover CYCLOPES global products derived from VEGETATION. Remote Sensing of Environment, 2007, 110, 275-286.	11.0	734

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73	The contribution of remote sensing to the assessment of drought effects in forest ecosystems. <i>Annals of Forest Science</i> , 2006, 63, 579-595.	2.0	41
74	The VENÛS super-spectral camera. , 2006, , .		4
75	Quality assessment and improvement of temporally composited products of remotely sensed imagery by combination of VEGETATION 1 and 2 images. <i>Remote Sensing of Environment</i> , 2005, 94, 172-186.	11.0	81
76	Absolute calibration of VEGETATION derived from an interband method based on the Sun glint over ocean. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2004, 42, 1472-1481.	6.3	34
77	Traceable radiometry underpinning terrestrial- and helio-studies (TRUTHS). <i>Advances in Space Research</i> , 2003, 32, 2253-2261.	2.6	33
78	Traceable radiometry underpinning terrestrial- and helio-studies (TRUTHS). , 2003, , .		5
79	Interband calibration over clouds for POLDER space sensor. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2002, 40, 131-142.	6.3	25
80	Calibration of SPOT4 HRVIR and Vegetation cameras over Rayleigh scattering. , 2000, 4135, 302.		15
81	<title>Measurements and computations of polarized marine reflectance</title>. , 2000, 4133, 191.		3
82	In-flight calibration of the POLDER polarized channels using the Sun's glitter. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1999, 37, 513-524.	6.3	21
83	Results of POLDER in-flight calibration. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1999, 37, 1550-1566.	6.3	127
84	Remote sensing data repository for in-flight calibration of optical sensors over terrestrial targets. , 1999, 3750, 514.		18
85	<title>Results of POLDER in-flight absolute calibration</title>. , 1997, 3221, 122.		1
86	<title>POLDER on-ground stray light analysis, calibration, and correction</title>. , 1997, 3221, 132.		13
87	<title>POLDER multiangular calibration using desert sites: method and performances</title>. , 1997, 3221, 141.		3
88	In-flight polarization calibration of POLDER. , 1997, , .		9
89	<title>POLDER level-1 processing algorithms</title>. , 1996, , .		12