

# Joachim Hill

## List of Publications by Year in descending order

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42  
papers

3,414  
citations

201674

27  
h-index

254184

43  
g-index

44  
all docs

44  
docs citations

44  
times ranked

4369  
citing authors

#	ARTICLE	IF	CITATIONS
1	The EnMAP Spaceborne Imaging Spectroscopy Mission for Earth Observation. <i>Remote Sensing</i> , 2015, 7, 8830-8857.	4.0	529
2	Using Imaging Spectroscopy to study soil properties. <i>Remote Sensing of Environment</i> , 2009, 113, S38-S55.	11.0	422
3	Remote sensing of forest biophysical variables using HyMap imaging spectrometer data. <i>Remote Sensing of Environment</i> , 2005, 95, 177-194.	11.0	260
4	Mediterranean desertification and land degradation. <i>Global and Planetary Change</i> , 2008, 64, 146-157.	3.5	245
5	Use of coupled canopy structure dynamic and radiative transfer models to estimate biophysical canopy characteristics. <i>Remote Sensing of Environment</i> , 2005, 95, 115-124.	11.0	195
6	Comparing different multivariate calibration methods for the determination of soil organic carbon pools with visible to near infrared spectroscopy. <i>Geoderma</i> , 2011, 166, 198-205.	5.1	178
7	Improvement of the Fmask algorithm for Sentinel-2 images: Separating clouds from bright surfaces based on parallax effects. <i>Remote Sensing of Environment</i> , 2018, 215, 471-481.	11.0	154
8	Coupling spectral unmixing and trend analysis for monitoring of long-term vegetation dynamics in Mediterranean rangelands. <i>Remote Sensing of Environment</i> , 2003, 87, 183-197.	11.0	123
9	Modeling and Mapping of Soil Salinity with Reflectance Spectroscopy and Landsat Data Using Two Quantitative Methods (PLSR and MARS). <i>Remote Sensing</i> , 2014, 6, 10813-10834.	4.0	121
10	Retrieval of chlorophyll and nitrogen in Norway spruce ( <i>Picea abies</i> L. Karst.) using imaging spectroscopy. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2010, 12, 17-26.	2.8	119
11	The influence of scan mode and circle fitting on tree stem detection, stem diameter and volume extraction from terrestrial laser scans. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2013, 77, 44-56.	11.1	111
12	Land degradation, soil erosion and desertification monitoring in Mediterranean ecosystems. <i>International Journal of Remote Sensing</i> , 1995, 12, 107-130.	1.0	80
13	An Operational Radiometric Landsat Preprocessing Framework for Large-Area Time Series Applications. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 3928-3943.	6.3	72
14	Digital Mapping of Soil Properties Using Multivariate Statistical Analysis and ASTER Data in an Arid Region. <i>Remote Sensing</i> , 2015, 7, 1181-1205.	4.0	63
15	Estimation of soil salinity using three quantitative methods based on visible and near-infrared reflectance spectroscopy: A case study from Egypt. <i>Arabian Journal of Geosciences</i> , 2015, 8, 5127-5140.	1.3	59
16	The Potential of EnMAP and Sentinel-2 Data for Detecting Drought Stress Phenomena in Deciduous Forest Communities. <i>Remote Sensing</i> , 2015, 7, 14227-14258.	4.0	55
17	An efficient approach to standardizing the processing of hemispherical images for the estimation of forest structural attributes. <i>Agricultural and Forest Meteorology</i> , 2012, 160, 1-13.	4.8	47
18	Phenology-adaptive pixel-based compositing using optical earth observation imagery. <i>Remote Sensing of Environment</i> , 2017, 190, 331-347.	11.0	44

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19	Assessment of spatio-temporal changes of smallholder cultivation patterns in the Angolan Miombo belt using segmentation of Landsat time series. <i>Remote Sensing of Environment</i> , 2017, 195, 118-129.	11.0	42
20	Imaging Spectroscopy of Forest Ecosystems: Perspectives for the Use of Space-borne Hyperspectral Earth Observation Systems. <i>Surveys in Geophysics</i> , 2019, 40, 553-588.	4.6	38
21	Separating grassland and shrub vegetation by multivariate adaptive spectral mixture analysis. <i>International Journal of Remote Sensing</i> , 2006, 27, 3251-3271.	2.9	36
22	Extension of retrospective datasets using multiple sensors. An approach to radiometric intercalibration of Landsat TM and MSS data. <i>Remote Sensing of Environment</i> , 2005, 95, 195-210.	11.0	34
23	Assessing urban growth and rural land use transformations in a cross-border situation in Northern Namibia and Southern Angola. <i>Land Use Policy</i> , 2015, 42, 340-354.	5.6	33
24	Improving the Spatial Resolution of Land Surface Phenology by Fusing Medium- and Coarse-Resolution Inputs. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 4153-4164.	6.3	33
25	Satellite-Based Derivation of High-Resolution Forest Information Layers for Operational Forest Management. <i>Forests</i> , 2015, 6, 1982-2013.	2.1	32
26	Land degradation and economic conditions of agricultural households in a marginal region of northern Greece. <i>Global and Planetary Change</i> , 2008, 64, 198-209.	3.5	31
27	Using Annual Landsat Time Series for the Detection of Dry Forest Degradation Processes in South-Central Angola. <i>Remote Sensing</i> , 2017, 9, 905.	4.0	31
28	Evaluating the trade-off between food and timber resulting from the conversion of Miombo forests to agricultural land in Angola using multi-temporal Landsat data. <i>Science of the Total Environment</i> , 2016, 548-549, 390-401.	8.0	30
29	Using VNIR and SWIR field imaging spectroscopy for drought stress monitoring of beech seedlings. <i>International Journal of Remote Sensing</i> , 2015, 36, 4590-4605.	2.9	23
30	Retrieval of Gap Fraction and Effective Plant Area Index from Phase-Shift Terrestrial Laser Scans. <i>Remote Sensing</i> , 2014, 6, 2601-2627.	4.0	22
31	Biomass assessment of microbial surface communities by means of hyperspectral remote sensing data. <i>Science of the Total Environment</i> , 2017, 586, 1287-1297.	8.0	22
32	Field Imaging Spectroscopy of Beech Seedlings under Dryness Stress. <i>Remote Sensing</i> , 2012, 4, 3721-3740.	4.0	19
33	Fire spread from MODIS burned area data: obtaining fire dynamics information for every single fire. <i>International Journal of Wildland Fire</i> , 2016, 25, 1228.	2.4	17
34	Imaging spectroscopy of changing Earth's surface: a major step toward the quantitative monitoring of land degradation and desertification. <i>Comptes Rendus - Geoscience</i> , 2006, 338, 1042-1048.	1.2	16
35	Assessing the Suitability of Future Multi- and Hyperspectral Satellite Systems for Mapping the Spatial Distribution of Norway Spruce Timber Volume. <i>Remote Sensing</i> , 2015, 7, 12009-12040.	4.0	15
36	Using Landsat and Sentinel-2 Data for the Generation of Continuously Updated Forest Type Information Layers in a Cross-Border Region. <i>Remote Sensing</i> , 2019, 11, 2337.	4.0	11

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37	Monitoring of Canopy Stress Symptoms in New Zealand Kauri Trees Analysed with AISA Hyperspectral Data. <i>Remote Sensing</i> , 2020, 12, 926.	4.0	11
38	Preprocessing Ground-Based Visible/Near Infrared Imaging Spectroscopy Data Affected by Smile Effects. <i>Sensors</i> , 2019, 19, 1543.	3.8	10
39	Data synergy between leaf area index and clumping index Earth Observation products using photon recollision probability theory. <i>Remote Sensing of Environment</i> , 2018, 215, 1-6.	11.0	9
40	Hyperspectral VNIR-spectroscopy and imagery as a tool for monitoring herbicide damage in wilding conifers. <i>Biological Invasions</i> , 2019, 21, 3395-3413.	2.4	8
41	Non-parametric small area models using shape-constrained penalized B-splines. <i>Journal of the Royal Statistical Society Series A: Statistics in Society</i> , 2017, 180, 1089-1109.	1.1	7
42	Integrating satellite images and topographic data for mapping seasonal grazing management units in pastoral landscapes of eastern Africa. <i>Journal of Arid Environments</i> , 2022, 197, 104661.	2.4	4