Sytze de Bruin

List of Publications by Year
in descending order

77 papers	4,250 citations	136950 32 h-index	114465 63 g-index
87 all docs	87 docs citations	87 times ranked	5715 citing authors

#	Article	IF	Citations
1	The use of remote sensing in soil and terrain mapping â€" A review. Geoderma, 2011, 162, 1-19.	5.1	596
2	Analysis of monotonic greening and browning trends from global NDVI time-series. Remote Sensing of Environment, 2011, 115, 692-702.	11.0	519
3	Global maps of twenty-first century forest carbon fluxes. Nature Climate Change, 2021, 11, 234-240.	18.8	425
4	Trend changes in global greening and browning: contribution of shortâ€term trends to longerâ€term change. Global Change Biology, 2012, 18, 642-655.	9.5	353
5	Spatial relationship between climatologies and changes in global vegetation activity. Global Change Biology, 2013, 19, 1953-1964.	9.5	160
6	Soil-landscape modelling using fuzzy c-means clustering of attribute data derived from a Digital Elevation Model (DEM). Geoderma, 1998, 83, 17-33.	5.1	126
7	The global forest above-ground biomass pool for 2010 estimated from high-resolution satellite observations. Earth System Science Data, 2021, 13, 3927-3950.	9.9	123
8	Characterizing regional soil mineral composition using spectroscopy and geostatistics. Remote Sensing of Environment, 2013, 139, 415-429.	11.0	87
9	Spatial cross-validation is not the right way to evaluate map accuracy. Ecological Modelling, 2021, 457, 109692.	2.5	84
10	Assessing global land cover reference datasets for different user communities. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 103, 93-114.	11.1	81
11	Spatial Accuracy Assessment and Integration of Global Land Cover Datasets. Remote Sensing, 2015, 7, 15804-15821.	4.0	68
12	Quantifying the effect of forest age in annual net forest carbon balance. Environmental Research Letters, 2018, 13, 124018.	5.2	67
13	Assessing fitness for use: the expected value of spatial data sets. International Journal of Geographical Information Science, 2001, 15, 457-471.	4.8	63
14	Representing major soil variability at regional scale by constrained Latin Hypercube Sampling of remote sensing data. International Journal of Applied Earth Observation and Geoinformation, 2013, 21, 301-310.	2.8	61
15	Optimized routing on agricultural fields by minimizing maneuvering and servicing time. Precision Agriculture, 2013, 14, 224-244.	6.0	60
16	A Bayesian Approach to Combine Landsat and ALOS PALSAR Time Series for Near Real-Time Deforestation Detection. Remote Sensing, 2015, 7, 4973-4996.	4.0	60
17	Quantitative mapping of global land degradation using Earth observations. International Journal of Remote Sensing, 2011, 32, 6823-6853.	2.9	57
18	A comprehensive framework for assessing the accuracy and uncertainty of global above-ground biomass maps. Remote Sensing of Environment, 2022, 272, 112917.	11.0	48

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19	Implementation and evaluation of existing knowledge for digital soil mapping in Senegal. Geoderma, 2009, 149, 161-170.	5.1	46
20	Comparative assessment of thematic accuracy of GLC maps for specific applications using existing reference data. International Journal of Applied Earth Observation and Geoinformation, 2016, 44, 124-135.	2.8	45
21	Developing and applying a multi-purpose land cover validation dataset for Africa. Remote Sensing of Environment, 2018, 219, 298-309.	11.0	45
22	Significance and application of the multi-hierarchical landsystem in soil mapping. Catena, 2001, 43, 15-34.	5.0	43
23	Agriculture-driven deforestation in the tropics from 1990â€“2015: emissions, trends and uncertainties. Environmental Research Letters, 2018, 13, 014002.	5.2	42
24	Predicting the Areal Extent of Land-Cover Types Using Classified Imagery and Geostatistics. Remote Sensing of Environment, 2000, 74, 387-396.	11.0	41
25	50 years of water extraction in the Pampa del Tamarugal basin: Can Prosopis tamarugo trees survive in the hyper-arid Atacama Desert (Northern Chile)?. Journal of Arid Environments, 2016, 124, 292-303.	2.4	41
26	Spatial variability in classification accuracy of agricultural crops in the Dutch national land-cover database. International Journal of Geographical Information Science, 2004, 18, 611-626.	4.8	40
27	Towards operational validation of annual global land cover maps. Remote Sensing of Environment, 2021, 266, 112686.	11.0	40
28	Combining Satellite Data and Community-Based Observations for Forest Monitoring. Forests, 2014, 5, 2464-2489.	2.1	39
29	Quantifying mangrove chlorophyll from high spatial resolution imagery. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 108, 234-244.	11.1	39
30	Linear trends in seasonal vegetation time series and the modifiable temporal unit problem. Biogeosciences, 2012, 9, 71-77.	3.3	36
31	Mobile Devices for Community-Based REDD+ Monitoring: A Case Study for Central Vietnam. Sensors, 2013, 13, 21-38.	3.8	35
32	Optimization of mobile radioactivity monitoring networks. International Journal of Geographical Information Science, 2010, 24, 365-382.	4.8	34
33	Quantifying mineral abundances of complex mixtures by coupling spectral deconvolution of SWIR spectra (2.1â€“2.4 Î¼m) and regression tree analysis. Geoderma, 2013, 207-208, 279-290.	5.1	32
34	Hotspots of gross emissions from the land use sector: patterns, uncertainties, and leading emission sources for the period 2000â€“2005 in the tropics. Biogeosciences, 2016, 13, 4253-4269.	3.3	29
35	Formalisation of soil-landscape knowledge through interactive hierarchical disaggregation. Geoderma, 1999, 91, 151-172.	5.1	26
36	Design and Implementation of an Interactive Web-Based Near Real-Time Forest Monitoring System. PLoS ONE, 2016, 11, e0150935.	2.5	26

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37	Querying probabilistic land cover data using fuzzy set theory. International Journal of Geographical Information Science, 2000, 14, 359-372.	4.8	24
38	Regional and local maize seed exchange and replacement in the western highlands of Guatemala. Plant Genetic Resources: Characterisation and Utilisation, 2007, 5, 57-70.	0.8	24
39	Spatial optimisation of cropped swaths and field margins using GIS. Computers and Electronics in Agriculture, 2009, 68, 185-190.	7.7	23
40	Integrating global land cover datasets for deriving user-specific maps. International Journal of Digital Earth, 2017, 10, 219-237.	3.9	23
41	Planning machine paths and row crop patterns on steep surfaces to minimize soil erosion. Computers and Electronics in Agriculture, 2016, 124, 194-210.	7.7	22
42	Spatial Data Quality: Problems and Prospects. Lecture Notes in Geoinformation and Cartography, 2009, , 101-121.	1.0	22
43	Development of a Dynamic Web Mapping Service for Vegetation Productivity Using Earth Observation and in situ Sensors in a Sensor Web Based Approach. Sensors, 2009, 9, 2371-2388.	3.8	21
44	Sustainable intensification of dairy production can reduce forest disturbance in Kenyan montane forests. Agriculture, Ecosystems and Environment, 2018, 265, 307-319.	5.3	21
45	Land Use and Land Cover Area Estimates From Class Membership Probability of a Random Forest Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	21
46	Propagation of positional measurement errors to agricultural field boundaries and associated costs. Computers and Electronics in Agriculture, 2008, 63, 245-256.	7.7	19
47	The arable farmer as the assessor of within-field soil variation. Precision Agriculture, 2011, 12, 488-507.	6.0	19
48	Monitoring Deforestation at Sub-Annual Scales as Extreme Events in Landsat Data Cubes. Remote Sensing, 2016, 8, 651.	4.0	19
49	Dealing with clustered samples for assessing map accuracy by cross-validation. Ecological Informatics, 2022, 69, 101665.	5.2	18
50	Making the Trade-Off between Decision Quality and Information Cost. Photogrammetric Engineering and Remote Sensing, 2003, 69, 91-98.	0.6	16
51	Carbon emissions from land cover change in Central Vietnam. Carbon Management, 2016, 7, 333-346.	2.4	16
52	Using quadtree segmentation to support error modelling in categorical raster data. International Journal of Geographical Information Science, 2004, 18, 151-168.	4.8	15
53	Modelling Positional Uncertainty of Line Features by Accounting for Stochastic Deviations from Straight Line Segments. Transactions in GIS, 2008, 12, 165-177.	2.3	15
54	Integrated assessment of deforestation drivers and their alignment with subnational climate change mitigation efforts. Environmental Science and Policy, 2020, 114, 352-365.	4.9	15

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55	Value of information and mobility constraints for sampling with mobile sensors. Computers and Geosciences, 2012, 49, 102-111.	4.2	14
56	Data synthesis for crop variety evaluation. A review. Agronomy for Sustainable Development, 2020, 40, 25.	5.3	14
57	Rainfall monitoring network design using conditioned Latin hypercube sampling and satellite precipitation estimates: An application in the ungauged Ecuadorian Amazon. International Journal of Climatology, 2019, 39, 2209-2226.	3.5	13
58	Using household survey data to identify large-scale food security patterns across Uganda. PLoS ONE, 2018, 13, e0208714.	2.5	12
59	Producing consistent visually interpreted land cover reference data: learning from feedback. International Journal of Digital Earth, 2021, 14, 52-70.	3.9	12
60	Updating cover type maps using sequential indicator simulation. Remote Sensing of Environment, 2003, 87, 161-170.	11.0	10
61	A spatiotemporal geostatistical hurdle model approach for short-term deforestation prediction. Spatial Statistics, 2017, 21, 304-318.	1.9	10
62	Representing Uncertainty in Continental-Scale Gridded Precipitation Fields for Agrometeorological Modeling. Journal of Hydrometeorology, 2008, 9, 1172-1190.	1.9	9
63	Systematic planning and cultivation of agricultural fields using a geo-spatial arable field optimization service: Opportunities and obstacles. Biosystems Engineering, 2014, 120, 15-24.	4.3	9
64	Realâ€time inverse distance weighting interpolation for streaming sensor data. Transactions in GIS, 2018, 22, 1179-1204.	2.3	9
65	Application of Geostatistical Simulation in Precision Agriculture. , 2010, , 269-303.		8
66	Multi-gas and multi-source comparisons of six land use emission datasets and AFOLU estimates in the Fifth Assessment Report, for the tropics for 2000â€“2005. Biogeosciences, 2016, 13, 5799-5819.	3.3	8
67	Comparison of manual and automated shadow detection on satellite imagery for agricultural land delineation. International Journal of Applied Earth Observation and Geoinformation, 2018, 73, 493-502.	2.8	8
68	Usersâ€™ Assessment of Orthoimage Photometric Quality for Visual Interpretation of Agricultural Fields. Remote Sensing, 2015, 7, 4919-4936.	4.0	7
69	Sustainable palm fruit harvesting as a pathway to conserve Amazon peatland forests. Nature Sustainability, 2022, 5, 479-487.	23.7	6
70	Detection and Risk for Digging Activities around Underground Cables and Pipelines: Implications for Spatial Data Quality. Transactions in GIS, 2007, 11, 131.	2.3	5
71	Where and When Should Sensors Move? Sampling Using the Expected Value of Information. Sensors, 2012, 12, 16274-16290.	3.8	3
72	Retrieval of Hyperspectral Information from Multispectral Data for Perennial Ryegrass Biomass Estimation. Sensors, 2020, 20, 7192.	3.8	2

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73	Optimization of rain gauge sampling density for river discharge prediction using Bayesian calibration. PeerJ, 2020, 8, e9558.	2.0	2
74	Stochastic simulation of large grids using free and public domain software. Computers and Geosciences, 2005, 31, 828-836.	4.2	1
75	Near real-time tropical forest disturbance monitoring using Landsat time series and local expert monitoring data. , 2013, , .		1
76	Title is missing!. International Journal of Applied Earth Observation and Geoinformation, 2011, 13, 161-162.	2.8	0
77	Influence of image availability and change processes on consistency of land transformation interpretations. International Journal of Applied Earth Observation and Geoinformation, 2020, 86, 102005.	2.8	0