

Richard Murray Lark

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8412527/publications.pdf>

Version: 2024-02-01

245
papers

8,335
citations

50276

46
h-index

66911

78
g-index

257
all docs

257
docs citations

257
times ranked

7530
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon losses from all soils across England and Wales 1978–2003. <i>Nature</i> , 2005, 437, 245-248.	27.8	939
2	Groundwater quality and depletion in the Indo-Gangetic Basin mapped from in situ observations. <i>Nature Geoscience</i> , 2016, 9, 762-766.	12.9	341
3	On spatial prediction of soil properties in the presence of a spatial trend: the empirical best linear unbiased predictor (E-BLUP) with REML. <i>European Journal of Soil Science</i> , 2006, 57, 787-799.	3.9	232
4	A comparison of some robust estimators of the variogram for use in soil survey. <i>European Journal of Soil Science</i> , 2000, 51, 137-157.	3.9	204
5	Mapping seabed sediments: Comparison of manual, geostatistical, object-based image analysis and machine learning approaches. <i>Continental Shelf Research</i> , 2014, 84, 107-119.	1.8	164
6	Model-based analysis using REML for inference from systematically sampled data on soil. <i>European Journal of Soil Science</i> , 2004, 55, 799-813.	3.9	133
7	Estimating variograms of soil properties by the method-of-moments and maximum likelihood. <i>European Journal of Soil Science</i> , 2000, 51, 717-728.	3.9	132
8	Methodology for the determination of normal background concentrations of contaminants in English soil. <i>Science of the Total Environment</i> , 2013, 454-455, 604-618.	8.0	132
9	Analysis and elucidation of soil variation using wavelets. <i>European Journal of Soil Science</i> , 1999, 50, 185-206.	3.9	126
10	Optimized spatial sampling of soil for estimation of the variogram by maximum likelihood. <i>Geoderma</i> , 2002, 105, 49-80.	5.1	124
11	Geostatistical description of texture on an aerial photograph for discriminating classes of land cover. <i>International Journal of Remote Sensing</i> , 1996, 17, 2115-2133.	2.9	122
12	Scale- and location-dependent correlation of nitrous oxide emissions with soil properties: an analysis using wavelets. <i>European Journal of Soil Science</i> , 2004, 55, 611-627.	3.9	107
13	Soil–landform relationships at within-field scales: an investigation using continuous classification. <i>Geoderma</i> , 1999, 92, 141-165.	5.1	104
14	The nutritional quality of cereals varies geospatially in Ethiopia and Malawi. <i>Nature</i> , 2021, 594, 71-76.	27.8	104
15	Mapping and interpreting the yield variation in cereal crops. <i>Computers and Electronics in Agriculture</i> , 1996, 14, 101-119.	7.7	102
16	Classification as a first step in the interpretation of temporal and spatial variation of crop yield. <i>Annals of Applied Biology</i> , 1997, 130, 111-121.	2.5	96
17	Improved analysis and modelling of soil diffuse reflectance spectra using wavelets. <i>European Journal of Soil Science</i> , 2009, 60, 453-464.	3.9	95
18	Mapping risk of soil nutrient deficiency or excess by disjunctive and indicator kriging. <i>Geoderma</i> , 2004, 118, 39-53.	5.1	78

#	ARTICLE	IF	CITATIONS
19	Changes in variance and correlation of soil properties with scale and location: analysis using an adapted maximal overlap discrete wavelet transform. <i>European Journal of Soil Science</i> , 2001, 52, 547-562.	3.9	76
20	Mapping Potential Crop Management Zones within Fields: Use of Yield-map Series and Patterns of Soil Physical Properties Identified by Electromagnetic Induction Sensing. <i>Precision Agriculture</i> , 2005, 6, 167-181.	6.0	73
21	Optimized Sample Schemes for Geostatistical Surveys. <i>Mathematical Geosciences</i> , 2007, 39, 113-134.	0.9	72
22	Assessing urinary flow rate, creatinine, osmolality and other hydration adjustment methods for urinary biomonitoring using NHANES arsenic, iodine, lead and cadmium data. <i>Environmental Health</i> , 2016, 15, 68.	4.0	71
23	Forming spatially coherent regions by classification of multi-variate data: an example from the analysis of maps of crop yield. <i>International Journal of Geographical Information Science</i> , 1998, 12, 83-98.	4.8	67
24	The risk of selenium deficiency in Malawi is large and varies over multiple spatial scales. <i>Scientific Reports</i> , 2019, 9, 6566.	3.3	67
25	Fitting a linear model of coregionalization for soil properties using simulated annealing. <i>Geoderma</i> , 2003, 115, 245-260.	5.1	66
26	Cokriging particle size fractions of the soil. <i>European Journal of Soil Science</i> , 2007, 58, 763-774.	3.9	66
27	Robust analysis of soil properties at the national scale: cadmium content of French soils. <i>European Journal of Soil Science</i> , 2010, 61, 144-152.	3.9	66
28	Airborne radiometric survey data and a DTM as covariates for regional scale mapping of soil organic carbon across Northern Ireland. <i>European Journal of Soil Science</i> , 2009, 60, 44-54.	3.9	65
29	Estimating Variogram Uncertainty. <i>Mathematical Geosciences</i> , 2004, 36, 867-898.	0.9	63
30	Spatio-temporal variability of some metal concentrations in the soil of eastern England, and implications for soil monitoring. <i>Geoderma</i> , 2006, 133, 363-379.	5.1	61
31	Geostatistical mapping of geomorphic variables in the presence of trend. <i>Earth Surface Processes and Landforms</i> , 2006, 31, 862-874.	2.5	61
32	Modelling complex soil properties as contaminated regionalized variables. <i>Geoderma</i> , 2002, 106, 173-190.	5.1	59
33	Changes in soil pH across England and Wales in response to decreased acid deposition. <i>Global Change Biology</i> , 2010, 16, 3111-3119.	9.5	59
34	Generic Issues on Broad-Scale Soil Monitoring Schemes: A Review. <i>Pedosphere</i> , 2012, 22, 456-469.	4.0	59
35	Three-Dimensional Mapping of Soil Chemical Characteristics at Micrometric Scale by Combining 2D SEM-EDX Data and 3D X-Ray CT Images. <i>PLoS ONE</i> , 2015, 10, e0137205.	2.5	59
36	The assessment of point and diffuse metal pollution of soils from an urban geochemical survey of Sheffield, England. <i>Soil Use and Management</i> , 2005, 21, 353-362.	4.9	58

#	ARTICLE	IF	CITATIONS
37	Analysing soil variation in two dimensions with the discrete wavelet transform. <i>European Journal of Soil Science</i> , 2004, 55, 777-797.	3.9	56
38	The geostatistical analysis of experiments at the landscape-scale. <i>Geoderma</i> , 2006, 133, 87-106.	5.1	55
39	Robust geostatistical prediction of trace elements across France. <i>Geoderma</i> , 2011, 162, 303-311.	5.1	55
40	Mapping groundwater recharge in Africa from ground observations and implications for water security. <i>Environmental Research Letters</i> , 2021, 16, 034012.	5.2	55
41	Scale-dependent relationships between soil organic carbon and urease activity. <i>European Journal of Soil Science</i> , 2007, 58, 1087-1095.	3.9	54
42	Sampling procedures for throughfall monitoring: A simulation study. <i>Water Resources Research</i> , 2010, 46, .	4.2	54
43	Fertilizer management and soil type influence grain zinc and iron concentration under contrasting smallholder cropping systems in Zimbabwe. <i>Scientific Reports</i> , 2019, 9, 6445.	3.3	54
44	Towards soil geostatistics. <i>Spatial Statistics</i> , 2012, 1, 92-99.	1.9	51
45	Robust estimation of the variogram by residual maximum likelihood. <i>Geoderma</i> , 2007, 140, 62-72.	5.1	50
46	Spatial prediction of soil properties with copulas. <i>Geoderma</i> , 2011, 162, 327-334.	5.1	48
47	Limitations on the Spatial Resolution of Yield Mapping for Combinable Crops. <i>Biosystems Engineering</i> , 1997, 66, 183-193.	0.4	47
48	The Matérn variogram model: Implications for uncertainty propagation and sampling in geostatistical surveys. <i>Geoderma</i> , 2007, 140, 337-345.	5.1	47
49	Spatial monitoring of a non-stationary soil property: phosphorus in a Florida water conservation area. <i>European Journal of Soil Science</i> , 2009, 60, 757-769.	3.9	46
50	Understanding airborne radiometric survey signals across part of eastern England. <i>Earth Surface Processes and Landforms</i> , 2007, 32, 1503-1515.	2.5	45
51	Kriging a soil variable with a simple nonstationary variance model. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2009, 14, 301-321.	1.4	45
52	Application of a novel method for soil aggregate stability measurement by laser granulometry with sonication. <i>European Journal of Soil Science</i> , 2013, 64, 92-103.	3.9	44
53	The use of soil survey data to determine the magnitude and extent of historic metal deposition related to atmospheric smelter emissions across Humberside, UK. <i>Environmental Pollution</i> , 2006, 143, 416-426.	7.5	42
54	Scope to predict soil properties at within-field scale from small samples using proximally sensed γ -ray spectrometer and EM induction data. <i>Geoderma</i> , 2014, 232-234, 69-80.	5.1	41

#	ARTICLE	IF	CITATIONS
55	Two robust estimators of the cross-variogram for multivariate geostatistical analysis of soil properties. <i>European Journal of Soil Science</i> , 2003, 54, 187-202.	3.9	40
56	Spatial prediction of seabed sediment texture classes by cokriging from a legacy database of point observations. <i>Sedimentary Geology</i> , 2012, 281, 35-49.	2.1	40
57	Baseline values and change in the soil, and implications for monitoring. <i>European Journal of Soil Science</i> , 2006, 57, 916-921.	3.9	39
58	Spatial Analysis of Model Error, Illustrated by Soil Carbon Dioxide Emissions. <i>Vadose Zone Journal</i> , 2006, 5, 168-183.	2.2	38
59	Estimating the regional mean status and change of soil properties: two distinct objectives for soil survey. <i>European Journal of Soil Science</i> , 2009, 60, 748-756.	3.9	37
60	A statistical assessment of the uncertainty in a 3-D geological framework model. <i>Proceedings of the Geologists Association</i> , 2013, 124, 946-958.	1.1	37
61	Urine selenium concentration is a useful biomarker for assessing population level selenium status. <i>Environment International</i> , 2020, 134, 105218.	10.0	37
62	Selenium deficiency risks in sub-Saharan African food systems and their geospatial linkages. <i>Proceedings of the Nutrition Society</i> , 2020, 79, 457-467.	1.0	37
63	Regression analysis with spatially autocorrelated error: simulation studies and application to mapping of soil organic matter. <i>International Journal of Geographical Information Science</i> , 2000, 14, 247-264.	4.8	36
64	A Method to Investigate Within-Field Variation of the Response of Combinable Crops to an Input. <i>Agronomy Journal</i> , 2003, 95, 1093-1104.	1.8	36
65	Adaptive sampling and reconnaissance surveys for geostatistical mapping of the soil. <i>European Journal of Soil Science</i> , 2006, 57, 831-845.	3.9	36
66	Uncertainty in prediction and interpretation of spatially variable data on soils. <i>Geoderma</i> , 1997, 77, 263-282.	5.1	35
67	Spatial evaluation of pedotransfer functions using wavelet analysis. <i>Journal of Hydrology</i> , 2007, 333, 182-198.	5.4	35
68	Ten challenges for the future of pedometrics. <i>Geoderma</i> , 2021, 401, 115155.	5.1	35
69	Robust estimation of the pseudo cross-variogram for cokriging soil properties. <i>European Journal of Soil Science</i> , 2002, 53, 253-270.	3.9	34
70	Three-dimensional soil organic matter distribution, accessibility and microbial respiration in macroaggregates using osmium staining and synchrotron X-ray computed tomography. <i>Soil</i> , 2016, 2, 659-671.	4.9	34
71	Approaches to Management Zone Definition for Use of Nitrification Inhibitors. <i>Soil Science Society of America Journal</i> , 2003, 67, 937.	2.2	34
72	Components of accuracy of maps with special reference to discriminant analysis on remote sensor data. <i>International Journal of Remote Sensing</i> , 1995, 16, 1461-1480.	2.9	33

#	ARTICLE	IF	CITATIONS
73	Estimating a boundary line model for a biological response by maximum likelihood. <i>Annals of Applied Biology</i> , 2006, 149, 223-234.	2.5	33
74	Spatially nested sampling schemes for spatial variance components: Scope for their optimization. <i>Computers and Geosciences</i> , 2011, 37, 1633-1641.	4.2	33
75	Site-Specific Factors Influence the Field Performance of a Zn-Biofortified Wheat Variety. <i>Frontiers in Sustainable Food Systems</i> , 2020, 4, .	3.9	33
76	Estimation of Linear Models of Coregionalization by Residual Maximum Likelihood. <i>European Journal of Soil Science</i> , 2007, 58, 1506-1513.	3.9	32
77	Mapping trace element deficiency by cokriging from regional geochemical soil data: A case study on cobalt for grazing sheep in Ireland. <i>Geoderma</i> , 2014, 226-227, 64-78.	5.1	32
78	Using a process model and regression kriging to improve predictions of nitrous oxide emissions from soil. <i>Geoderma</i> , 2006, 135, 107-117.	5.1	31
79	Mapping aerial metal deposition in metropolitan areas from tree bark: A case study in Sheffield, England. <i>Environmental Pollution</i> , 2008, 155, 164-173.	7.5	31
80	Inferences from fluctuations in the local variogram about the assumption of stationarity in the variance. <i>Geoderma</i> , 2008, 143, 123-132.	5.1	31
81	Enhancing the value of field experimentation through whole-of-block designs. <i>Precision Agriculture</i> , 2010, 11, 198-213.	6.0	31
82	The relationship between diffuse spectral reflectance of the soil and its cation exchange capacity is scale-dependent. <i>Geoderma</i> , 2010, 154, 353-358.	5.1	31
83	Introduction to Spatial Econometrics. <i>Journal of the Royal Statistical Society Series A: Statistics in Society</i> , 2011, 174, 513-514.	1.1	31
84	Multi-scale variability of beach profiles at Duck: A wavelet analysis. <i>Coastal Engineering</i> , 2005, 52, 1133-1153.	4.0	30
85	Quantifying terrestrial carbon stocks: examining the spatial variation in two upland areas in the UK and a comparison to mapped estimates of soil carbon. <i>Soil Use and Management</i> , 2009, 25, 320-332.	4.9	29
86	Using Yield Maps to Regionalize Fields into Potential Management Units. <i>Assa, Cssa and Sssa</i> , 0, , 225-237.	0.6	29
87	Multiresolution analysis of data on electrical conductivity of soil using wavelets. <i>Journal of Hydrology</i> , 2003, 272, 276-290.	5.4	28
88	Exploring scale-dependent correlation of soil properties by nested sampling. <i>European Journal of Soil Science</i> , 2005, 56, 307-317.	3.9	28
89	The wavelet packet transform: A technique for investigating temporal variation of river water solutes. <i>Journal of Hydrology</i> , 2009, 379, 1-19.	5.4	28
90	Characterising the within-field scale spatial variation of nitrogen in a grassland soil to inform the efficient design of in-situ nitrogen sensor networks for precision agriculture. <i>Agriculture, Ecosystems and Environment</i> , 2016, 230, 294-306.	5.3	28

#	ARTICLE	IF	CITATIONS
91	How should a spatial-coverage sample design for a geostatistical soil survey be supplemented to support estimation of spatial covariance parameters?. <i>Geoderma</i> , 2018, 319, 89-99.	5.1	28
92	Designing sampling grids from imprecise information on soil variability, an approach based on the fuzzy kriging variance. <i>Geoderma</i> , 2000, 98, 35-59.	5.1	27
93	Sensing the physical and nutritional status of the root environment in the field: a review of progress and opportunities. <i>Journal of Agricultural Science</i> , 2005, 143, 347-358.	1.3	27
94	Analysis of variance in soil research: let the analysis fit the design. <i>European Journal of Soil Science</i> , 2018, 69, 126-139.	3.9	27
95	Efficient sampling for geostatistical surveys. <i>European Journal of Soil Science</i> , 2019, 70, 975-989.	3.9	27
96	Zinc deficiency is highly prevalent and spatially dependent over short distances in Ethiopia. <i>Scientific Reports</i> , 2021, 11, 6510.	3.3	27
97	Wavelet analysis of the scale- and location-dependent correlation of modelled and measured nitrous oxide emissions from soil. <i>European Journal of Soil Science</i> , 2005, 56, 3-17.	3.9	26
98	Using expert knowledge with control of false discovery rate to select regressors for prediction of soil properties. <i>Geoderma</i> , 2007, 138, 65-78.	5.1	26
99	Digital soil mapping of a coastal acid sulfate soil landscape. <i>Soil Research</i> , 2014, 52, 327.	1.1	26
100	Some tools for parsimonious modelling and interpretation of within-field variation of soil and crop systems. <i>Soil and Tillage Research</i> , 2001, 58, 99-111.	5.6	24
101	A landscape-scale experiment on the changes in available potassium over a winter wheat cropping season. <i>Geoderma</i> , 2007, 141, 384-396.	5.1	24
102	Quality measures for soil surveys by lognormal kriging. <i>Geoderma</i> , 2012, 173-174, 231-240.	5.1	24
103	When unlikely outcomes occur: the role of communication format in maintaining communicator credibility. <i>Journal of Risk Research</i> , 2019, 22, 537-554.	2.6	24
104	Spatial prediction of the concentration of selenium (Se) in grain across part of Amhara Region, Ethiopia. <i>Science of the Total Environment</i> , 2020, 733, 139231.	8.0	24
105	Performance of linear mixed models and random forests for spatial prediction of soil pH. <i>Geoderma</i> , 2021, 397, 115079.	5.1	24
106	Can we predict the provenance of a soil sample for forensic purposes by reference to a spatial database?. <i>European Journal of Soil Science</i> , 2008, 59, 1000-1006.	3.9	23
107	Spatial variation of ammonia volatilization from soil and its scale-dependent correlation with soil properties. <i>European Journal of Soil Science</i> , 2008, 59, 1260-1270.	3.9	23
108	Interpretative modelling of a geological cross section from boreholes: sources of uncertainty and their quantification. <i>Solid Earth</i> , 2014, 5, 1189-1203.	2.8	23

#	ARTICLE	IF	CITATIONS
109	Communicating the uncertainty in estimated greenhouse gas emissions from agriculture. <i>Journal of Environmental Management</i> , 2015, 160, 139-153.	7.8	23
110	Towards the explanation of within-field variability of yield of winter barley: soil series differences. <i>Journal of Agricultural Science</i> , 1998, 131, 409-416.	1.3	22
111	Selenium Deficiency Is Widespread and Spatially Dependent in Ethiopia. <i>Nutrients</i> , 2020, 12, 1565.	4.1	22
112	Nitrogen effect on zinc biofortification of maize and cowpea in Zimbabwean smallholder farms. <i>Agronomy Journal</i> , 2020, 112, 2256-2274.	1.8	22
113	Long-term zero-tillage enhances the protection of soil carbon in tropical agriculture. <i>European Journal of Soil Science</i> , 2021, 72, 2477-2492.	3.9	22
114	A reappraisal of unsupervised classification, I: correspondence between spectral and conceptual classes. <i>International Journal of Remote Sensing</i> , 1995, 16, 1425-1443.	2.9	21
115	An investigation of the multi-scale temporal variability of beach profiles at Duck using wavelet packet transforms. <i>Coastal Engineering</i> , 2007, 54, 401-415.	4.0	21
116	Accounting for the uncertainty in the local mean in spatial prediction by Bayesian Maximum Entropy. <i>Stochastic Environmental Research and Risk Assessment</i> , 2007, 21, 773-784.	4.0	21
117	Wavelet Transforms Applied to Irregularly Sampled Soil Data. <i>Mathematical Geosciences</i> , 2009, 41, 661-678.	2.4	21
118	Using measurements close to a detection limit in a geostatistical case study to predict selenium concentration in topsoil. <i>Geoderma</i> , 2009, 152, 269-282.	5.1	21
119	Wavelet analysis of the correlations between soil properties and potential nitrous oxide emission at farm and landscape scales. <i>European Journal of Soil Science</i> , 2011, 62, 467-478.	3.9	21
120	Land use and lead content in the soils of London. <i>Geoderma</i> , 2013, 209-210, 65-74.	5.1	21
121	Understanding "Unlikely (20% Likelihood)" or "20% Likelihood (Unlikely)" Outcomes: The Robustness of the Extremity Effect. <i>Journal of Behavioral Decision Making</i> , 2018, 31, 572-586.	1.7	21
122	Analysis of variance in soil research: Examining the assumptions. <i>European Journal of Soil Science</i> , 2019, 70, 990-1000.	3.9	21
123	Sampling and analytical plus subsampling variance components for five soil indicators observed at regional scale. <i>European Journal of Soil Science</i> , 2009, 60, 740-747.	3.9	20
124	Modelling non-stationary variance of soil properties by tempering an empirical spectrum. <i>Geoderma</i> , 2009, 153, 18-28.	5.1	20
125	Optimized multi-phase sampling for soil remediation surveys. <i>Spatial Statistics</i> , 2013, 4, 1-13.	1.9	20
126	Combining observations with acoustic swath bathymetry and backscatter to map seabed sediment texture classes: The empirical best linear unbiased predictor. <i>Sedimentary Geology</i> , 2015, 328, 17-32.	2.1	20

#	ARTICLE	IF	CITATIONS
127	An empirical method for describing the joint effects of environmental and other variables on crop yield. <i>Annals of Applied Biology</i> , 1997, 131, 141-159.	2.5	19
128	Spatial covariation of <i>Azotobacter</i> abundance and soil properties: A case study using the wavelet transform. <i>Soil Biology and Biochemistry</i> , 2007, 39, 295-310.	8.8	19
129	Boundary line analysis of the effect of water-filled pore space on nitrous oxide emission from cores of arable soil. <i>European Journal of Soil Science</i> , 2016, 67, 148-159.	3.9	19
130	Spectral and wavelet analysis of gilgai patterns from air photography. <i>Soil Research</i> , 2010, 48, 309.	1.1	19
131	Approaches to Management Zone Definition for Use of Nitrification Inhibitors. <i>Soil Science Society of America Journal</i> , 2003, 67, 937-947.	2.2	18
132	Designing a sampling scheme to reveal correlations between weeds and soil properties at multiple spatial scales. <i>Weed Research</i> , 2016, 56, 1-13.	1.7	17
133	Implications of short-range spatial variation of soil bulk density for adequate field sampling protocols: methodology and results from two contrasting soils. <i>European Journal of Soil Science</i> , 2014, 65, 803-814.	3.9	16
134	Multi-objective optimization of spatial sampling. <i>Spatial Statistics</i> , 2016, 18, 412-430.	1.9	16
135	Analysing spatially intermittent variation of nitrous oxide emissions from soil with wavelets and the implications for sampling. <i>European Journal of Soil Science</i> , 2004, 55, 601-610.	3.9	15
136	Estimating the local mean for Bayesian maximum entropy by generalized least squares and maximum likelihood, and an application to the spatial analysis of a censored soil variable. <i>European Journal of Soil Science</i> , 2007, 58, 60-73.	3.9	15
137	Some considerations on aggregate sample supports for soil inventory and monitoring. <i>European Journal of Soil Science</i> , 2012, 63, 86-95.	3.9	15
138	Soil apparent conductivity measurements for planning and analysis of agricultural experiments: A case study from Western-Thailand. <i>Geoderma</i> , 2016, 267, 220-229.	5.1	15
139	Defining the habitat niche of <i>Alopecurus myosuroides</i> at the field scale. <i>Weed Research</i> , 2018, 58, 165-176.	1.7	15
140	Can uncertainty in geological cross-section interpretations be quantified and predicted?. , 2018, 14, 1087-1100.		15
141	Combining two national-scale datasets to map soil properties, the case of available magnesium in England and Wales. <i>European Journal of Soil Science</i> , 2019, 70, 361-377.	3.9	15
142	Uncertainty in geological interpretations: Effectiveness of expert elicitations. , 2019, 15, 108-118.		15
143	A geostatistical descriptor of the spatial distribution of soil classes, and its use in predicting the purity of possible soil map units. <i>Geoderma</i> , 1998, 83, 243-267.	5.1	14
144	Agronomic biofortification of leafy vegetables grown in an Oxisol, Alfisol and Vertisol with isotopically labelled selenium (⁷⁷ Se). <i>Geoderma</i> , 2020, 361, 114106.	5.1	14

#	ARTICLE	IF	CITATIONS
145	A comparison between techniques for estimating the ages of African elephants (<i>Loxodonta</i>) Tj ETQq1 1 0.784314.rgBT /Overlock 10 0.9 13		
146	On testing biological data for the presence of a boundary. <i>Annals of Applied Biology</i> , 2006, 149, 213-222.	2.5	13
147	Inference about soil variability from the structure of the best wavelet packet basis. <i>European Journal of Soil Science</i> , 2007, 58, 822-831.	3.9	13
148	Spatial prediction of soil organic carbon from data on large and variable spatial supports. Inventory and mapping. <i>Environmetrics</i> , 2012, 23, 129-147.	1.4	13
149	Gradual and anthropogenic soil change for fertility and carbon on marginal sandy soils. <i>Geoderma</i> , 2013, 207-208, 35-48.	5.1	13
150	Uncertainty in mapped geological boundaries held by a national geological survey: eliciting the geologists' tacit error model. <i>Solid Earth</i> , 2015, 6, 727-745.	2.8	13
151	Nested sampling and spatial analysis for reconnaissance investigations of soil: an example from agricultural land near mine tailings in Zambia. <i>European Journal of Soil Science</i> , 2017, 68, 605-620.	3.9	13
152	A geostatistical extension of the sectioning procedure for disaggregating soil information to the scale of functional models of soil processes. <i>Geoderma</i> , 2000, 95, 89-112.	5.1	12
153	The representation of complex soil variation on wavelet packet bases. <i>European Journal of Soil Science</i> , 2006, 57, 868-882.	3.9	12
154	A linear mixed model, with non-stationary mean and covariance, for soil potassium based on gamma radiometry. <i>Biogeosciences</i> , 2010, 7, 2081-2089.	3.3	12
155	Spectral tempering to model non-stationary covariance of nitrous oxide emissions from soil using continuous or categorical explanatory variables at a landscape scale. <i>Geoderma</i> , 2010, 159, 358-370.	5.1	12
156	Wavelet analysis of soil variation at nanometre- to micrometre-scales: an example of organic carbon content in a micro-aggregate. <i>European Journal of Soil Science</i> , 2011, 62, 617-628.	3.9	12
157	Modelling complex geological circular data with the projected normal distribution and mixtures of von Mises distributions. <i>Solid Earth</i> , 2014, 5, 631-639.	2.8	12
158	The implicit loss function for errors in soil information. <i>Geoderma</i> , 2015, 251-252, 24-32.	5.1	12
159	Spatial geochemistry influences the home range of elephants. <i>Science of the Total Environment</i> , 2020, 729, 139066.	8.0	12
160	Resolving the spatial variability of soil N using fractions of soil organic matter. <i>Agriculture, Ecosystems and Environment</i> , 2012, 147, 66-72.	5.3	11
161	Which sampling design to monitor saturated hydraulic conductivity?. <i>European Journal of Soil Science</i> , 2014, 65, 792-802.	3.9	11
162	An improved method for measurement of soil aggregate stability using laser granulometry applied at regional scale. <i>European Journal of Soil Science</i> , 2015, 66, 604-614.	3.9	11

#	ARTICLE	IF	CITATIONS
163	Changes in the variance of a soil property along a transect, a comparison of a non-stationary linear mixed model and a wavelet transform. <i>Geoderma</i> , 2016, 266, 84-97.	5.1	11
164	Do soil amendments used to improve agricultural productivity have consequences for soils contaminated with heavy metals?. <i>Heliyon</i> , 2020, 6, e05502.	3.2	11
165	Boundary line models for soil nutrient concentrations and wheat yield in national-scale datasets. <i>European Journal of Soil Science</i> , 2020, 71, 334-351.	3.9	11
166	Digital Soil Mapping Technologies for Countries with Sparse Data Infrastructures. , 2008, , 15-30.		11
167	Exploring the variation in soil saturated hydraulic conductivity under a tropical rainforest using the wavelet transform. <i>European Journal of Soil Science</i> , 2011, 62, 891-901.	3.9	10
168	Spatial prediction of soil organic carbon from data on large and variable spatial supports. II. Mapping temporal change. <i>Environmetrics</i> , 2012, 23, 148-161.	1.4	10
169	Reconnaissance sampling and determination of hexavalent chromium in potentially-contaminated agricultural soils in Copperbelt Province, Zambia. <i>Chemosphere</i> , 2020, 247, 125984.	8.2	10
170	Spatial variability and mapping of soil fertility status in a high-potential smallholder farming area under sub-humid conditions in Zimbabwe. <i>SN Applied Sciences</i> , 2021, 3, 1.	2.9	10
171	Soil and landscape factors influence geospatial variation in maize grain zinc concentration in Malawi. <i>Scientific Reports</i> , 2022, 12, 7986.	3.3	10
172	A time series model of daily milk yields and its possible use for detection of a disease (ketosis). <i>Animal Science</i> , 1999, 69, 573-582.	1.3	9
173	Scale- and location-dependent correlations of soil strength and the yield of wheat. <i>Soil and Tillage Research</i> , 2007, 95, 47-60.	5.6	9
174	Controlling the marginal false discovery rate in inferences from a soil dataset with investment. <i>European Journal of Soil Science</i> , 2017, 68, 221-234.	3.9	9
175	The singularity index for soil geochemical variables, and a mixture model for its interpretation. <i>Geoderma</i> , 2018, 323, 83-106.	5.1	9
176	Increasing zinc concentration in maize grown under contrasting soil types in Malawi through agronomic biofortification: Trial protocol for a field experiment to detect small effect sizes. <i>Plant Direct</i> , 2020, 4, e00277.	1.9	9
177	The behaviour of soil process models of ammonia volatilization at contrasting spatial scales. <i>European Journal of Soil Science</i> , 2008, 59, 1271-1283.	3.9	8
178	Spatial analysis of the error in a model of soil nitrogen. <i>Ecological Modelling</i> , 2008, 211, 453-467.	2.5	8
179	Analysis of two variants of a spatially distributed crop model, using wavelet transforms and geostatistics. <i>Agricultural Systems</i> , 2008, 98, 135-146.	6.1	8
180	Reply to "Standardized vs. customary ordinary cokriging" by A. Papritz. <i>Geoderma</i> , 2008, 146, 397-399.	5.1	8

#	ARTICLE	IF	CITATIONS
181	Two contrasting spatial processes with a common variogram: inference about spatial models from higher-order statistics. <i>European Journal of Soil Science</i> , 2010, 61, 479-492.	3.9	8
182	Assessing land suitability for rainfed paddy rice production in Zambia. <i>Geoderma Regional</i> , 2021, 27, e00438.	2.1	8
183	Title is missing!. , 1998, 50, 277-281.		7
184	A comparison of parametric and non-parametric methods for modelling a coregionalization. <i>Geoderma</i> , 2008, 148, 13-24.	5.1	7
185	A reappraisal of unsupervised classification, II: optimal adjustment of the map legend and a neighbourhood approach for mapping legend units. <i>International Journal of Remote Sensing</i> , 1995, 16, 1445-1460.	2.9	6
186	A stochastic-geometric model of soil variation. <i>European Journal of Soil Science</i> , 2009, 60, 706-719.	3.9	6
187	Distinguishing spatially correlated random variation in soil from a "pure nugget" process. <i>Geoderma</i> , 2012, 185-186, 102-109.	5.1	6
188	Communicating uncertainties in spatial predictions of grain micronutrient concentration. <i>Geoscience Communication</i> , 2021, 4, 245-265.	0.9	6
189	Sample size and class variability in the choice of a method of discriminant analysis. <i>International Journal of Remote Sensing</i> , 1994, 15, 1551-1555.	2.9	5
190	Contributions of principal components to discrimination of classes of land cover in multi-spectral imagery. <i>International Journal of Remote Sensing</i> , 1995, 16, 779-787.	2.9	5
191	Non-homogeneity of variance components from spatially nested sampling of the soil. <i>European Journal of Soil Science</i> , 2009, 60, 443-452.	3.9	5
192	The Analysis of Spatial Experiments. , 2010, , 243-267.		5
193	The role of periglacial active layer development in determining soil- <i>regolith</i> thickness across a Triassic sandstone outcrop in the UK. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 971-983.	2.5	5
194	Wavelet Analysis of the Variability of Nitrous Oxide Emissions from Soil at Decameter to Kilometer Scales. <i>Journal of Environmental Quality</i> , 2013, 42, 1070-1079.	2.0	5
195	An index to represent lateral variation of the confidence of experts in a 3-D geological model. <i>Proceedings of the Geologists Association</i> , 2014, 125, 267-278.	1.1	5
196	Planning spatial sampling of the soil from an uncertain reconnaissance variogram. <i>Soil</i> , 2017, 3, 235-244.	4.9	5
197	Longitudinal analysis of a long-term conservation agriculture experiment in Malawi and lessons for future experimental design. <i>Experimental Agriculture</i> , 2020, 56, 506-527.	0.9	5
198	Can Nitrogen Fertilizer Management Improve Grain Iron Concentration of Agro-Biofortified Crops in Zimbabwe?. <i>Agronomy</i> , 2021, 11, 124.	3.0	5

#	ARTICLE	IF	CITATIONS
199	Decisions, uncertainty and spatial information. <i>Spatial Statistics</i> , 2022, 50, 100619.	1.9	5
200	Compositional Data Analysis in the Geosciences: from Theory to Practice. <i>Journal of the Royal Statistical Society Series A: Statistics in Society</i> , 2008, 171, 313-314.	1.1	4
201	On effective linearity of soil process models. <i>European Journal of Soil Science</i> , 2008, 59, 990-999.	3.9	4
202	The Bayesian maximum entropy method for lognormal variables. <i>Stochastic Environmental Research and Risk Assessment</i> , 2009, 23, 319-328.	4.0	4
203	Spectral tempering to model non-stationary variation of soil properties: Sensitivity to the initial stationary model. <i>Geoderma</i> , 2010, 159, 350-357.	5.1	4
204	Geostatistical prediction of nitrous oxide emissions from soil using data, process models and expert opinion. <i>European Journal of Soil Science</i> , 2011, 62, 359-370.	3.9	4
205	Consistency And Change In Spatial Variability Of Crop Yield Over Successive Seasons: Methods Of Data Analysis. <i>Assa, Cssa and Sssa</i> , 2015, , 141-149.	0.6	4
206	How does temporal variation affect the value of stream water as a medium for regional geochemical survey?. <i>Journal of Geochemical Exploration</i> , 2016, 169, 211-233.	3.2	4
207	Stochastic modelling of hydraulic conductivity derived from geotechnical data; an example applied to central Glasgow. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2017, 108, 141-154.	0.3	4
208	Burgess, T.M. & Webster, R. 1980. Optimal interpolation and isarithmic mapping of soil properties. I. The semi-variogram and punctual kriging. <i>Journal of Soil Science</i> , 31, 315-331. <i>European Journal of Soil Science</i> , 2019, 70, 7-10.	3.9	4
209	Potential bio-indicators for assessment of mineral status in elephants. <i>Scientific Reports</i> , 2020, 10, 8032.	3.3	4
210	Spatial analysis of urine zinc (Zn) concentration for women of reproductive age and school age children in Malawi. <i>Environmental Geochemistry and Health</i> , 2021, 43, 259-271.	3.4	4
211	Sampling in Precision Agriculture, Optimal Designs from Uncertain Models. , 2010, , 65-87.		4
212	Biofortified Maize Improves Selenium Status of Women and Children in a Rural Community in Malawi: Results of the Addressing Hidden Hunger With Agronomy Randomized Controlled Trial. <i>Frontiers in Nutrition</i> , 2021, 8, 788096.	3.7	4
213	A regular pattern in the relative areas of soil profile classes and possible applications in reconnaissance soil survey. <i>Geoderma</i> , 1995, 68, 27-37.	5.1	3
214	Analysis of Complex Soil Variation Using Wavelets. <i>Books in Soils, Plants, and the Environment</i> , 2005, , 343-372.	0.1	3
215	Pedometrics 2003. <i>Geoderma</i> , 2005, 128, 177-178.	5.1	3
216	A stochastic geometric model for continuous local trends in soil variation. <i>Geoderma</i> , 2012, 189-190, 661-670.	5.1	3

#	ARTICLE	IF	CITATIONS
217	Using Geostatistics to Analyze Prediction Errors from a Simulation Model of Sediment Particle Sizes across Tokyo Bay. <i>Journal of Coastal Research</i> , 2012, 29, 145.	0.3	3
218	Block correlation and the spatial resolution of soil property maps made by kriging. <i>Geoderma</i> , 2015, 259-260, 233-242.	5.1	3
219	Scope of Pedometrics. <i>Progress in Soil Science</i> , 2018, , 7-39.	0.8	3
220	Information on within-field variability from sequences of yield maps: multivariate classification as a first step of interpretation. , 1998, , 277-281.		3
221	Understanding and Using Yield Maps – An Analytical Tool for Their Interpretation. <i>Outlook on Agriculture</i> , 2000, 29, 39-45.	3.4	2
222	Chapter 23 Decomposing Digital Soil Information by Spatial Scale. <i>Developments in Soil Science</i> , 2006, 31, 301-616.	0.5	2
223	Some Results on the Spatial Breakdown Point of Robust Point Estimates of the Variogram. <i>Mathematical Geosciences</i> , 2008, 40, 729-751.	2.4	2
224	The effects of simple perturbations of a process model on the spatial variability of its output. <i>Geoderma</i> , 2008, 145, 267-277.	5.1	2
225	The offset correlation, a novel quality measure for planning geochemical surveys of the soil by kriging. <i>Geoderma</i> , 2013, 197-198, 27-35.	5.1	2
226	Editorial: statistics in the journal. <i>European Journal of Soil Science</i> , 2016, 67, 133-134.	3.9	2
227	Classical Soil Geostatistics. <i>Progress in Soil Science</i> , 2018, , 291-340.	0.8	2
228	Crop uptake of heavy metals in response to the environment and agronomic practices on land near mine tailings in the Zambian Copperbelt Province. <i>Environmental Geochemistry and Health</i> , 2021, 43, 3699-3713.	3.4	2
229	A comparison between three legacy soil maps of Zambia at national scale: The spatial patterns of legend units and their relation to soil properties. <i>Geoderma</i> , 2021, 402, 115193.	5.1	2
230	On Soil Carbon Monitoring Networks. , 2014, , 59-68.		2
231	Investigating the effect of previous treatments on wheat biomass over multiple spatial frequencies. <i>Biogeosciences</i> , 2010, 7, 2739-2747.	3.3	2
232	The effect of water deficit and livestock stocking density on soil organic carbon stocks in Namibia. <i>Geoderma</i> , 2022, 407, 115522.	5.1	2
233	Stakeholder interpretation of probabilistic representations of uncertainty in spatial information: an example on the nutritional quality of staple crops. <i>International Journal of Geographical Information Science</i> , 0, , 1-27.	4.8	2
234	Spatial analysis of categorical soil variables with the wavelet transform. <i>European Journal of Soil Science</i> , 2005, 56, 050912034650045.	3.9	1

#	ARTICLE	IF	CITATIONS
235	Using Wavelets to Analyse Proximally Sensed Visâ€NIR Soil Spectra. , 2010, , 201-210.		1
236	Using third-order cumulants to investigate spatial variation: A case study on the porosity of the Bunter Sandstone. Spatial Statistics, 2015, 11, 96-112.	1.9	1
237	Complex Soil Variation over Multiple Scales. Progress in Soil Science, 2018, , 463-490.	0.8	1
238	Mineral micronutrient status and spatial distribution among the Ethiopian population. British Journal of Nutrition, 2022, , 1-30.	2.3	1
239	The Cambridge Dictionary of Statistics (4th Edition) - by Everitt, B.S. & Skrondal, A.. European Journal of Soil Science, 2011, 62, 333-333.	3.9	0
240	Pedometrics. European Journal of Soil Science, 2011, 62, 335-336.	3.9	0
241	A stochasticâ€geometric model of the variability of soil formed in Pleistocene patterned ground. Geoderma, 2014, 213, 533-543.	5.1	0
242	Broad-Scale Soil Monitoring Schemes. Progress in Soil Science, 2018, , 669-691.	0.8	0
243	Accessing and assessing legacy soil information, an example from two provinces of Zambia. Geoderma, 2022, 420, 115874.	5.1	0
244	Analysis and elucidation of soil variation using wavelets. European Journal of Soil Science, 1999, 50, 185.	3.9	0
245	Sub-sampling a large physical soil archive for additional analyses to support spatial mapping; a pre-registered experiment in the Southern Nations, Nationalities, and Peoples Region (SNNPR) of Ethiopia. Geoderma, 2022, 424, 116013.	5.1	0