

Richard Murray Lark

List of Publications by Year in descending order

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244
papers

8,335
citations

50244

46
h-index

66879

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.	13.7	939
2	Groundwater quality and depletion in the Indo-Gangetic Basin mapped from in situ observations. <i>Nature Geoscience</i> , 2016, 9, 762-766.	5.4	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.	1.8	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.	1.8	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.	0.9	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.	1.8	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.	1.8	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.	3.9	132
9	Analysis and elucidation of soil variation using wavelets. <i>European Journal of Soil Science</i> , 1999, 50, 185-206.	1.8	126
10	Optimized spatial sampling of soil for estimation of the variogram by maximum likelihood. <i>Geoderma</i> , 2002, 105, 49-80.	2.3	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.	1.3	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.	1.8	107
13	Soil–landform relationships at within-field scales: an investigation using continuous classification. <i>Geoderma</i> , 1999, 92, 141-165.	2.3	104
14	The nutritional quality of cereals varies geospatially in Ethiopia and Malawi. <i>Nature</i> , 2021, 594, 71-76.	13.7	104
15	Mapping and interpreting the yield variation in cereal crops. <i>Computers and Electronics in Agriculture</i> , 1996, 14, 101-119.	3.7	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.	1.3	96
17	Improved analysis and modelling of soil diffuse reflectance spectra using wavelets. <i>European Journal of Soil Science</i> , 2009, 60, 453-464.	1.8	95
18	Mapping risk of soil nutrient deficiency or excess by disjunctive and indicator kriging. <i>Geoderma</i> , 2004, 118, 39-53.	2.3	78

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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.	1.8	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.	3.1	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.	1.7	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.	2.2	67
24	The risk of selenium deficiency in Malawi is large and varies over multiple spatial scales. <i>Scientific Reports</i> , 2019, 9, 6566.	1.6	67
25	Fitting a linear model of coregionalization for soil properties using simulated annealing. <i>Geoderma</i> , 2003, 115, 245-260.	2.3	66
26	Cokriging particle size fractions of the soil. <i>European Journal of Soil Science</i> , 2007, 58, 763-774.	1.8	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.	1.8	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.	1.8	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.	2.3	61
31	Geostatistical mapping of geomorphic variables in the presence of trend. <i>Earth Surface Processes and Landforms</i> , 2006, 31, 862-874.	1.2	61
32	Modelling complex soil properties as contaminated regionalized variables. <i>Geoderma</i> , 2002, 106, 173-190.	2.3	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.	4.2	59
34	Generic Issues on Broad-Scale Soil Monitoring Schemes: A Review. <i>Pedosphere</i> , 2012, 22, 456-469.	2.1	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.	1.1	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.	2.6	58

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37	Analysing soil variation in two dimensions with the discrete wavelet transform. <i>European Journal of Soil Science</i> , 2004, 55, 777-797.	1.8	56
38	The geostatistical analysis of experiments at the landscape-scale. <i>Geoderma</i> , 2006, 133, 87-106.	2.3	55
39	Robust geostatistical prediction of trace elements across France. <i>Geoderma</i> , 2011, 162, 303-311.	2.3	55
40	Mapping groundwater recharge in Africa from ground observations and implications for water security. <i>Environmental Research Letters</i> , 2021, 16, 034012.	2.2	55
41	Scale-dependent relationships between soil organic carbon and urease activity. <i>European Journal of Soil Science</i> , 2007, 58, 1087-1095.	1.8	54
42	Sampling procedures for throughfall monitoring: A simulation study. <i>Water Resources Research</i> , 2010, 46, .	1.7	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.	1.6	54
44	Towards soil geostatistics. <i>Spatial Statistics</i> , 2012, 1, 92-99.	0.9	51
45	Robust estimation of the variogram by residual maximum likelihood. <i>Geoderma</i> , 2007, 140, 62-72.	2.3	50
46	Spatial prediction of soil properties with copulas. <i>Geoderma</i> , 2011, 162, 327-334.	2.3	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.	2.3	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.	1.8	46
50	Understanding airborne radiometric survey signals across part of eastern England. <i>Earth Surface Processes and Landforms</i> , 2007, 32, 1503-1515.	1.2	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.	0.7	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.	1.8	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.	3.7	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.	2.3	41

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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.	1.8	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.	1.0	40
57	Baseline values and change in the soil, and implications for monitoring. <i>European Journal of Soil Science</i> , 2006, 57, 916-921.	1.8	39
58	Spatial Analysis of Model Error, Illustrated by Soil Carbon Dioxide Emissions. <i>Vadose Zone Journal</i> , 2006, 5, 168-183.	1.3	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.	1.8	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.	0.6	37
61	Urine selenium concentration is a useful biomarker for assessing population level selenium status. <i>Environment International</i> , 2020, 134, 105218.	4.8	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.	0.4	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.	2.2	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.	0.9	36
65	Adaptive sampling and reconnaissance surveys for geostatistical mapping of the soil. <i>European Journal of Soil Science</i> , 2006, 57, 831-845.	1.8	36
66	Uncertainty in prediction and interpretation of spatially variable data on soils. <i>Geoderma</i> , 1997, 77, 263-282.	2.3	35
67	Spatial evaluation of pedotransfer functions using wavelet analysis. <i>Journal of Hydrology</i> , 2007, 333, 182-198.	2.3	35
68	Ten challenges for the future of pedometrics. <i>Geoderma</i> , 2021, 401, 115155.	2.3	35
69	Robust estimation of the pseudo cross-variogram for cokriging soil properties. <i>European Journal of Soil Science</i> , 2002, 53, 253-270.	1.8	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.	2.2	34
71	Approaches to Management Zone Definition for Use of Nitrification Inhibitors. <i>Soil Science Society of America Journal</i> , 2003, 67, 937.	1.2	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.	1.3	33

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73	Estimating a boundary line model for a biological response by maximum likelihood. <i>Annals of Applied Biology</i> , 2006, 149, 223-234.	1.3	33
74	Spatially nested sampling schemes for spatial variance components: Scope for their optimization. <i>Computers and Geosciences</i> , 2011, 37, 1633-1641.	2.0	33
75	Site-Specific Factors Influence the Field Performance of a Zn-Biofortified Wheat Variety. <i>Frontiers in Sustainable Food Systems</i> , 2020, 4, .	1.8	33
76	Estimation of Linear Models of Coregionalization by Residual Maximum Likelihood. <i>European Journal of Soil Science</i> , 2007, 58, 1506-1513.	1.8	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.	2.3	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.	2.3	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.	3.7	31
80	Inferences from fluctuations in the local variogram about the assumption of stationarity in the variance. <i>Geoderma</i> , 2008, 143, 123-132.	2.3	31
81	Enhancing the value of field experimentation through whole-of-block designs. <i>Precision Agriculture</i> , 2010, 11, 198-213.	3.1	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.	2.3	31
83	Introduction to Spatial Econometrics. <i>Journal of the Royal Statistical Society Series A: Statistics in Society</i> , 2011, 174, 513-514.	0.6	31
84	Multi-scale variability of beach profiles at Duck: A wavelet analysis. <i>Coastal Engineering</i> , 2005, 52, 1133-1153.	1.7	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.	2.6	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.	2.3	28
88	Exploring scale-dependent correlation of soil properties by nested sampling. <i>European Journal of Soil Science</i> , 2005, 56, 307-317.	1.8	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.	2.3	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.	2.5	28

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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.	2.3	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.	2.3	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.	0.6	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.	1.8	27
95	Efficient sampling for geostatistical surveys. <i>European Journal of Soil Science</i> , 2019, 70, 975-989.	1.8	27
96	Zinc deficiency is highly prevalent and spatially dependent over short distances in Ethiopia. <i>Scientific Reports</i> , 2021, 11, 6510.	1.6	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.	1.8	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.	2.3	26
99	Digital soil mapping of a coastal acid sulfate soil landscape. <i>Soil Research</i> , 2014, 52, 327.	0.6	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.	2.6	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.	2.3	24
102	Quality measures for soil surveys by lognormal kriging. <i>Geoderma</i> , 2012, 173-174, 231-240.	2.3	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.	1.4	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.	3.9	24
105	Performance of linear mixed models and random forests for spatial prediction of soil pH. <i>Geoderma</i> , 2021, 397, 115079.	2.3	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.	1.8	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.	1.8	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.	1.2	23

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109	Communicating the uncertainty in estimated greenhouse gas emissions from agriculture. <i>Journal of Environmental Management</i> , 2015, 160, 139-153.	3.8	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.	0.6	22
111	Selenium Deficiency Is Widespread and Spatially Dependent in Ethiopia. <i>Nutrients</i> , 2020, 12, 1565.	1.7	22
112	Nitrogen effect on zinc biofortification of maize and cowpea in Zimbabwean smallholder farms. <i>Agronomy Journal</i> , 2020, 112, 2256-2274.	0.9	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.	1.8	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.	1.3	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.	1.7	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.	1.9	21
117	Wavelet Transforms Applied to Irregularly Sampled Soil Data. <i>Mathematical Geosciences</i> , 2009, 41, 661-678.	1.4	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.	2.3	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.	1.8	21
120	Land use and lead content in the soils of London. <i>Geoderma</i> , 2013, 209-210, 65-74.	2.3	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.	1.0	21
122	Analysis of variance in soil research: Examining the assumptions. <i>European Journal of Soil Science</i> , 2019, 70, 990-1000.	1.8	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.	1.8	20
124	Modelling non-stationary variance of soil properties by tempering an empirical spectrum. <i>Geoderma</i> , 2009, 153, 18-28.	2.3	20
125	Optimized multi-phase sampling for soil remediation surveys. <i>Spatial Statistics</i> , 2013, 4, 1-13.	0.9	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.	1.0	20

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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.	1.3	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.	4.2	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.	1.8	19
130	Spectral and wavelet analysis of gilgai patterns from air photography. <i>Soil Research</i> , 2010, 48, 309.	0.6	19
131	Approaches to Management Zone Definition for Use of Nitrification Inhibitors. <i>Soil Science Society of America Journal</i> , 2003, 67, 937-947.	1.2	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.	0.8	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.	1.8	16
134	Multi-objective optimization of spatial sampling. <i>Spatial Statistics</i> , 2016, 18, 412-430.	0.9	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.	1.8	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.	1.8	15
137	Some considerations on aggregate sample supports for soil inventory and monitoring. <i>European Journal of Soil Science</i> , 2012, 63, 86-95.	1.8	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.	2.3	15
139	Defining the habitat niche of <i>Alopecurus myosuroides</i> at the field scale. <i>Weed Research</i> , 2018, 58, 165-176.	0.8	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.	1.8	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.	2.3	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.	2.3	14

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145	A comparison between techniques for estimating the ages of African elephants (<i>Loxodonta</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 0.4 13		
146	On testing biological data for the presence of a boundary. <i>Annals of Applied Biology</i> , 2006, 149, 213-222.	1.3	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.	1.8	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.	0.6	13
149	Gradual and anthropogenic soil change for fertility and carbon on marginal sandy soils. <i>Geoderma</i> , 2013, 207-208, 35-48.	2.3	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.	1.2	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.	1.8	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.	2.3	12
153	The representation of complex soil variation on wavelet packet bases. <i>European Journal of Soil Science</i> , 2006, 57, 868-882.	1.8	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.	1.3	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.	2.3	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.	1.8	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.	1.2	12
158	The implicit loss function for errors in soil information. <i>Geoderma</i> , 2015, 251-252, 24-32.	2.3	12
159	Spatial geochemistry influences the home range of elephants. <i>Science of the Total Environment</i> , 2020, 729, 139066.	3.9	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.	2.5	11
161	Which sampling design to monitor saturated hydraulic conductivity?. <i>European Journal of Soil Science</i> , 2014, 65, 792-802.	1.8	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.	1.8	11

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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.	2.3	11
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