Richard Murray Lark

List of Publications by Year
in descending order

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	The effect of water deficit and livestock stocking density on soil organic carbon stocks in Namibia. Geoderma, 2022, 407, 115522.	2.3	2
2	Decisions, uncertainty and spatial information. Spatial Statistics, 2022, 50, 100619.	0.9	5
3	Mineral micronutrient status and spatial distribution among the Ethiopian population. British Journal of Nutrition, 2022, , 1-30.	1.2	1
4	Accessing and assessing legacy soil information, an example from two provinces of Zambia. Geoderma, 2022, 420, 115874.	2.3	0
5	Soil and landscape factors influence geospatial variation in maize grain zinc concentration in Malawi. Scientific Reports, 2022, 12, 7986.	1.6	10
6	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.	2.3	0
7	Spatial analysis of urine zinc (Zn) concentration for women of reproductive age and school age children in Malawi. Environmental Geochemistry and Health, 2021, 43, 259-271.	1.8	4
8	Can Nitrogen Fertilizer Management Improve Grain Iron Concentration of Agro-Biofortified Crops in Zimbabwe?. Agronomy, 2021, 11, 124.	1.3	5
9	Mapping groundwater recharge in Africa from ground observations and implications for water security. Environmental Research Letters, 2021, 16, 034012.	2.2	55
10	Spatial variability and mapping of soil fertility status in a high-potential smallholder farming area under sub-humid conditions in Zimbabwe. SN Applied Sciences, 2021, 3, 1.	1.5	10
11	Crop uptake of heavy metals in response to the environment and agronomic practices on land near mine tailings in the Zambian Copperbelt Province. Environmental Geochemistry and Health, 2021, 43, 3699-3713.	1.8	2
12	Zinc deficiency is highly prevalent and spatially dependent over short distances in Ethiopia. Scientific Reports, 2021, 11, 6510.	1.6	27
13	Communicating uncertainties in spatial predictions of grain micronutrient concentration. Geoscience Communication, 2021, 4, 245-265.	0.5	6
14	Longâ€term zeroâ€tillage enhances the protection of soil carbon in tropical agriculture. European Journal of Soil Science, 2021, 72, 2477-2492.	1.8	22
15	The nutritional quality of cereals varies geospatially in Ethiopia and Malawi. Nature, 2021, 594, 71-76.	13.7	104
16	Performance of linear mixed models and random forests for spatial prediction of soil pH. Geoderma, 2021, 397, 115079.	2.3	24
17	A comparison between three legacy soil maps of Zambia at national scale: The spatial patterns of legend units and their relation to soil properties. Geoderma, 2021, 402, 115193.	2.3	2
18	Ten challenges for the future of pedometrics. Geoderma, 2021, 401, 115155.	2.3	35

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19	Assessing land suitability for rainfed paddy rice production in Zambia. Geoderma Regional, 2021, 27, e00438.	0.9	8
20	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. Frontiers in Nutrition, 2021, 8, 788096.	1.6	4
21	Urine selenium concentration is a useful biomarker for assessing population level selenium status. Environment International, 2020, 134, 105218.	4.8	37
22	Agronomic biofortification of leafy vegetables grown in an Oxisol, Alfisol and Vertisol with isotopically labelled selenium (77Se). Geoderma, 2020, 361, 114106.	2.3	14
23	Site-Specific Factors Influence the Field Performance of a Zn-Biofortified Wheat Variety. Frontiers in Sustainable Food Systems, 2020, 4, .	1.8	33
24	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. Plant Direct, 2020, 4, e00277.	0.8	9
25	Longitudinal analysis of a long-term conservation agriculture experiment in Malawi and lessons for future experimental design. Experimental Agriculture, 2020, 56, 506-527.	0.4	5
26	Do soil amendments used to improve agricultural productivity have consequences for soils contaminated with heavy metals?. Heliyon, 2020, 6, e05502.	1.4	11
27	Potential bio-indicators for assessment of mineral status in elephants. Scientific Reports, 2020, 10, 8032.	1.6	4
28	Spatial prediction of the concentration of selenium (Se) in grain across part of Amhara Region, Ethiopia. Science of the Total Environment, 2020, 733, 139231.	3.9	24
29	Selenium Deficiency Is Widespread and Spatially Dependent in Ethiopia. Nutrients, 2020, 12, 1565.	1.7	22
30	Spatial geochemistry influences the home range of elephants. Science of the Total Environment, 2020, 729, 139066.	3.9	12
31	Nitrogen effect on zinc biofortification of maize and cowpea in Zimbabwean smallholder farms. Agronomy Journal, 2020, 112, 2256-2274.	0.9	22
32	Boundary line models for soil nutrient concentrations and wheat yield in nationalâ€scale datasets. European Journal of Soil Science, 2020, 71, 334-351.	1.8	11
33	Reconnaissance sampling and determination of hexavalent chromium in potentially-contaminated agricultural soils in Copperbelt Province, Zambia. Chemosphere, 2020, 247, 125984.	4.2	10
34	Selenium deficiency risks in sub-Saharan African food systems and their geospatial linkages. Proceedings of the Nutrition Society, 2020, 79, 457-467.	0.4	37
35	Burgess, T.M. & Webster, R. 1980. Optimal interpolation and isarithmic mapping of soil properties. I. The semiâ€variogram and punctual kriging. Journal of Soil Science, 31, 315â€“331.. European Journal of Soil Science, 2019, 70, 7-10.	1.8	4
36	Combining two nationalâ€scale datasets to map soil properties, the case of available magnesium in England and Wales. European Journal of Soil Science, 2019, 70, 361-377.	1.8	15

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37	Uncertainty in geological interpretations: Effectiveness of expert elicitations. , 2019, 15, 108-118.		15
38	Fertilizer management and soil type influence grain zinc and iron concentration under contrasting smallholder cropping systems in Zimbabwe. Scientific Reports, 2019, 9, 6445.	1.6	54
39	The risk of selenium deficiency in Malawi is large and varies over multiple spatial scales. Scientific Reports, 2019, 9, 6566.	1.6	67
40	Analysis of variance in soil research: Examining the assumptions. European Journal of Soil Science, 2019, 70, 990-1000.	1.8	21
41	Efficient sampling for geostatistical surveys. European Journal of Soil Science, 2019, 70, 975-989.	1.8	27
42	When unlikely outcomes occur: the role of communication format in maintaining communicator credibility. Journal of Risk Research, 2019, 22, 537-554.	1.4	24
43	Understanding â€˜Unlikely (20% Likelihood)â€™ or â€˜20% Likelihood (Unlikely)â€™ Outcomes: The Robustness of the Extremity Effect. Journal of Behavioral Decision Making, 2018, 31, 572-586.	1.0	21
44	How should a spatial-coverage sample design for a geostatistical soil survey be supplemented to support estimation of spatial covariance parameters?. Geoderma, 2018, 319, 89-99.	2.3	28
45	Analysis of variance in soil research: let the analysis fit the design. European Journal of Soil Science, 2018, 69, 126-139.	1.8	27
46	Defining the habitat niche of Alopecurus myosuroides at the field scale. Weed Research, 2018, 58, 165-176.	0.8	15
47	Classical Soil Geostatistics. Progress in Soil Science, 2018, , 291-340.	0.4	2
48	The singularity index for soil geochemical variables, and a mixture model for its interpretation. Geoderma, 2018, 323, 83-106.	2.3	9
49	Can uncertainty in geological cross-section interpretations be quantified and predicted?. , 2018, 14, 1087-1100.		15
50	Scope of Pedometrics. Progress in Soil Science, 2018, , 7-39.	0.4	3
51	Complex Soil Variation over Multiple Scales. Progress in Soil Science, 2018, , 463-490.	0.4	1
52	Broad-Scale Soil Monitoring Schemes. Progress in Soil Science, 2018, , 669-691.	0.4	0
53	Nested sampling and spatial analysis for reconnaissance investigations of soil: an example from agricultural land near mine tailings in Zambia. European Journal of Soil Science, 2017, 68, 605-620.	1.8	13
54	Controlling the marginal false discovery rate in inferences from a soil dataset with Î±â€investment. European Journal of Soil Science, 2017, 68, 221-234.	1.8	9

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55	Planning spatial sampling of the soil from an uncertain reconnaissance variogram. Soil, 2017, 3, 235-244.	2.2	5
56	Stochastic modelling of hydraulic conductivity derived from geotechnical data; an example applied to central Glasgow. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2017, 108, 141-154.	0.3	4
57	Three-dimensionalÂsoilÂorganicÂmatterÂdistribution, accessibilityÂandÂmicrobialÂrespirationÂinÂmacroaggregatesÂusingÂosmiumÂstaining andÂsynchrotronÂX-rayÂcomputed tomography. Soil, 2016, 2, 659-671.	2.2	34
58	Boundary line analysis of the effect of waterâ€filled pore space on nitrous oxide emission from cores of arable soil. European Journal of Soil Science, 2016, 67, 148-159.	1.8	19
59	Changes in the variance of a soil property along a transect, a comparison of a non-stationary linear mixed model and a wavelet transform. Geoderma, 2016, 266, 84-97.	2.3	11
60	Multi-objective optimization of spatial sampling. Spatial Statistics, 2016, 18, 412-430.	0.9	16
61	How does temporal variation affect the value of stream water as a medium for regional geochemical survey?. Journal of Geochemical Exploration, 2016, 169, 211-233.	1.5	4
62	Editorial: statistics in the journal. European Journal of Soil Science, 2016, 67, 133-134.	1.8	2
63	Designing a sampling scheme to reveal correlations between weeds and soil properties at multiple spatial scales. Weed Research, 2016, 56, 1-13.	0.8	17
64	Groundwater quality and depletion in the Indo-Gangetic Basin mapped from inÂsituÂobservations. Nature Geoscience, 2016, 9, 762-766.	5.4	341
65	Assessing urinary flow rate, creatinine, osmolality and other hydration adjustment methods for urinary biomonitoring using NHANES arsenic, iodine, lead and cadmium data. Environmental Health, 2016, 15, 68.	1.7	71
66	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. Agriculture, Ecosystems and Environment, 2016, 230, 294-306.	2.5	28
67	Soil apparent conductivity measurements for planning and analysis of agricultural experiments: A case study from Western-Thailand. Geoderma, 2016, 267, 220-229.	2.3	15
68	An improved method for measurement of soil aggregate stability using laser granulometry applied at regional scale. European Journal of Soil Science, 2015, 66, 604-614.	1.8	11
69	Consistency And Change In Spatial Variability Of Crop Yield Over Successive Seasons: Methods Of Data Analysis. Assa, Cssa and Sssa, 2015, , 141-149.	0.6	4
70	Three-Dimensional Mapping of Soil Chemical Characteristics at Micrometric Scale by Combining 2D SEM-EDX Data and 3D X-Ray CT Images. PLoS ONE, 2015, 10, e0137205.	1.1	59
71	Uncertainty in mapped geological boundaries held by a national geological survey:eliciting the geologists' tacit error model. Solid Earth, 2015, 6, 727-745.	1.2	13
72	Communicating the uncertainty in estimated greenhouse gas emissions from agriculture. Journal of Environmental Management, 2015, 160, 139-153.	3.8	23

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73	Block correlation and the spatial resolution of soil property maps made by kriging. Geoderma, 2015, 259-260, 233-242.	2.3	3
74	The implicit loss function for errors in soil information. Geoderma, 2015, 251-252, 24-32.	2.3	12
75	Combining observations with acoustic swath bathymetry and backscatter to map seabed sediment texture classes: The empirical best linear unbiased predictor. Sedimentary Geology, 2015, 328, 17-32.	1.0	20
76	Using third-order cumulants to investigate spatial variation: A case study on the porosity of the Bunter Sandstone. Spatial Statistics, 2015, 11, 96-112.	0.9	1
77	Interpretative modelling of a geological cross section from boreholes: sources of uncertainty and their quantification. Solid Earth, 2014, 5, 1189-1203.	1.2	23
78	Digital soil mapping of a coastal acid sulfate soil landscape. Soil Research, 2014, 52, 327.	0.6	26
79	Which sampling design to monitor saturated hydraulic conductivity?. European Journal of Soil Science, 2014, 65, 792-802.	1.8	11
80	Modelling complex geological circular data with the projected normal distribution and mixtures of von Mises distributions. Solid Earth, 2014, 5, 631-639.	1.2	12
81	An index to represent lateral variation of the confidence of experts in a 3-D geological model. Proceedings of the Geologists Association, 2014, 125, 267-278.	0.6	5
82	Implications of shortâ€range spatial variation of soil bulk density for adequate fieldâ€sampling protocols: methodology and results from two contrasting soils. European Journal of Soil Science, 2014, 65, 803-814.	1.8	16
83	A stochasticâ€“geometric model of the variability of soil formed in Pleistocene patterned ground. Geoderma, 2014, 213, 533-543.	2.3	0
84	Mapping trace element deficiency by cokriging from regional geochemical soil data: A case study on cobalt for grazing sheep in Ireland. Geoderma, 2014, 226-227, 64-78.	2.3	32
85	Scope to predict soil properties at within-field scale from small samples using proximally sensed Î³-ray spectrometer and EM induction data. Geoderma, 2014, 232-234, 69-80.	2.3	41
86	Mapping seabed sediments: Comparison of manual, geostatistical, object-based image analysis and machine learning approaches. Continental Shelf Research, 2014, 84, 107-119.	0.9	164
87	On Soil Carbon Monitoring Networks. , 2014, , 59-68.		2
88	Application of a novel method for soil aggregate stability measurement by laser granulometry with sonication. European Journal of Soil Science, 2013, 64, 92-103.	1.8	44
89	Methodology for the determination of normal background concentrations of contaminants in English soil. Science of the Total Environment, 2013, 454-455, 604-618.	3.9	132
90	Optimized multi-phase sampling for soil remediation surveys. Spatial Statistics, 2013, 4, 1-13.	0.9	20

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91	Gradual and anthropogenic soil change for fertility and carbon on marginal sandy soils. Geoderma, 2013, 207-208, 35-48.	2.3	13
92	The offset correlation, a novel quality measure for planning geochemical surveys of the soil by kriging. Geoderma, 2013, 197-198, 27-35.	2.3	2
93	Land use and lead content in the soils of London. Geoderma, 2013, 209-210, 65-74.	2.3	21
94	A statistical assessment of the uncertainty in a 3-D geological framework model. Proceedings of the Geologists Association, 2013, 124, 946-958.	0.6	37
95	Wavelet Analysis of the Variability of Nitrous Oxide Emissions from Soil at Decameter to Kilometer Scales. Journal of Environmental Quality, 2013, 42, 1070-1079.	1.0	5
96	A stochastic geometric model for continuous local trends in soil variation. Geoderma, 2012, 189-190, 661-670.	2.3	3
97	Using Geostatistics to Analyze Prediction Errors from a Simulation Model of Sediment Particle Sizes across Tokyo Bay. Journal of Coastal Research, 2012, 29, 145.	0.1	3
98	Quality measures for soil surveys by lognormal kriging. Geoderma, 2012, 173-174, 231-240.	2.3	24
99	Distinguishing spatially correlated random variation in soil from a â€˜pure nuggetâ€™ process. Geoderma, 2012, 185-186, 102-109.	2.3	6
100	Generic Issues on Broad-Scale Soil Monitoring Schemes: A Review. Pedosphere, 2012, 22, 456-469.	2.1	59
101	Spatial prediction of seabed sediment texture classes by cokriging from a legacy database of point observations. Sedimentary Geology, 2012, 281, 35-49.	1.0	40
102	Towards soil geostatistics. Spatial Statistics, 2012, 1, 92-99.	0.9	51
103	The role of periâ€glacial active layer development in determining soilâ€regolith thickness across a Triassic sandstone outcrop in the UK. Earth Surface Processes and Landforms, 2012, 37, 971-983.	1.2	5
104	Resolving the spatial variability of soil N using fractions of soil organic matter. Agriculture, Ecosystems and Environment, 2012, 147, 66-72.	2.5	11
105	Some considerations on aggregate sample supports for soil inventory and monitoring. European Journal of Soil Science, 2012, 63, 86-95.	1.8	15
106	Spatial prediction of soil organic carbon from data on large and variable spatial supports. II. Mapping temporal change. Environmetrics, 2012, 23, 148-161.	0.6	10
107	Spatial prediction of soil organic carbon from data on large and variable spatial supports. I.â€‰Inventory and mapping. Environmetrics, 2012, 23, 129-147.	0.6	13
108	Robust geostatistical prediction of trace elements across France. Geoderma, 2011, 162, 303-311.	2.3	55

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109	Spatial prediction of soil properties with copulas. Geoderma, 2011, 162, 327-334.	2.3	48
110	Introduction to Spatial Econometrics. Journal of the Royal Statistical Society Series A: Statistics in Society, 2011, 174, 513-514.	0.6	31
111	The Cambridge Dictionary of Statistics (4th Edition) - by Everitt, B.S. & Skrondal, A.. European Journal of Soil Science, 2011, 62, 333-333.	1.8	0
112	Wavelet analysis of soil variation at nanometre- to micrometre-scales: an example of organic carbon content in a micro-aggregate. European Journal of Soil Science, 2011, 62, 617-628.	1.8	12
113	Wavelet analysis of the correlations between soil properties and potential nitrous oxide emission at farm and landscape scales. European Journal of Soil Science, 2011, 62, 467-478.	1.8	21
114	Geostatistical prediction of nitrous oxide emissions from soil using data, process models and expert opinion. European Journal of Soil Science, 2011, 62, 359-370.	1.8	4
115	Pedometrics. European Journal of Soil Science, 2011, 62, 335-336.	1.8	0
116	Exploring the variation in soil saturated hydraulic conductivity under a tropical rainforest using the wavelet transform. European Journal of Soil Science, 2011, 62, 891-901.	1.8	10
117	Spatially nested sampling schemes for spatial variance components: Scope for their optimization. Computers and Geosciences, 2011, 37, 1633-1641.	2.0	33
118	Changes in soil pH across England and Wales in response to decreased acid deposition. Global Change Biology, 2010, 16, 3111-3119.	4.2	59
119	The Analysis of Spatial Experiments. , 2010, , 243-267.		5
120	Enhancing the value of field experimentation through whole-of-block designs. Precision Agriculture, 2010, 11, 198-213.	3.1	31
121	Robust analysis of soil properties at the national scale: cadmium content of French soils. European Journal of Soil Science, 2010, 61, 144-152.	1.8	66
122	Two contrasting spatial processes with a common variogram: inference about spatial models from higherâ€•order statistics. European Journal of Soil Science, 2010, 61, 479-492.	1.8	8
123	Using Wavelets to Analyse Proximally Sensed Visâ€“NIR Soil Spectra. , 2010, , 201-210.		1
124	A linear mixed model, with non-stationary mean and covariance, for soil potassium based on gamma radiometry. Biogeosciences, 2010, 7, 2081-2089.	1.3	12
125	Sampling procedures for throughfall monitoring: A simulation study. Water Resources Research, 2010, 46, .	1.7	54
126	The relationship between diffuse spectral reflectance of the soil and its cation exchange capacity is scale-dependent. Geoderma, 2010, 154, 353-358.	2.3	31

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127	Spectral tempering to model non-stationary variation of soil properties: Sensitivity to the initial stationary model. Geoderma, 2010, 159, 350-357.	2.3	4
128	Spectral tempering to model non-stationary covariance of nitrous oxide emissions from soil using continuous or categorical explanatory variables at a landscape scale. Geoderma, 2010, 159, 358-370.	2.3	12
129	Sampling in Precision Agriculture, Optimal Designs from Uncertain Models. , 2010, , 65-87.		4
130	Spectral and wavelet analysis of gilgai patterns from air photography. Soil Research, 2010, 48, 309.	0.6	19
131	Investigating the effect of previous treatments on wheat biomass over multiple spatial frequencies. Biogeosciences, 2010, 7, 2739-2747.	1.3	2
132	The wavelet packet transform: A technique for investigating temporal variation of river water solutes. Journal of Hydrology, 2009, 379, 1-19.	2.3	28
133	The Bayesian maximum entropy method for lognormal variables. Stochastic Environmental Research and Risk Assessment, 2009, 23, 319-328.	1.9	4
134	Wavelet Transforms Applied to Irregularly Sampled Soil Data. Mathematical Geosciences, 2009, 41, 661-678.	1.4	21
135	Airborne radiometric survey data and a DTM as covariates for regional scale mapping of soil organic carbon across Northern Ireland. European Journal of Soil Science, 2009, 60, 44-54.	1.8	65
136	Improved analysis and modelling of soil diffuse reflectance spectra using wavelets. European Journal of Soil Science, 2009, 60, 453-464.	1.8	95
137	Nonâ€homogeneity of variance components from spatially nested sampling of the soil. European Journal of Soil Science, 2009, 60, 443-452.	1.8	5
138	A stochasticâ€geometric model of soil variation. European Journal of Soil Science, 2009, 60, 706-719.	1.8	6
139	Estimating the regional mean status and change of soil properties: two distinct objectives for soil survey. European Journal of Soil Science, 2009, 60, 748-756.	1.8	37
140	Spatial monitoring of a nonâ€stationary soil property: phosphorus in a Florida water conservation area. European Journal of Soil Science, 2009, 60, 757-769.	1.8	46
141	Sampling and analytical plus subsampling variance components for five soil indicators observed at regional scale. European Journal of Soil Science, 2009, 60, 740-747.	1.8	20
142	Quantifying terrestrial carbon stocks: examining the spatial variation in two upland areas in the UK and a comparison to mapped estimates of soil carbon. Soil Use and Management, 2009, 25, 320-332.	2.6	29
143	Kriging a soil variable with a simple nonstationary variance model. Journal of Agricultural, Biological, and Environmental Statistics, 2009, 14, 301-321.	0.7	45
144	Using measurements close to a detection limit in a geostatistical case study to predict selenium concentration in topsoil. Geoderma, 2009, 152, 269-282.	2.3	21

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145	Modelling non-stationary variance of soil properties by tempering an empirical spectrum. Geoderma, 2009, 153, 18-28.	2.3	20
146	Some Results on the Spatial Breakdown Point of Robust Point Estimates of the Variogram. Mathematical Geosciences, 2008, 40, 729-751.	1.4	2
147	Compositional Data Analysis in the Geosciences: from Theory to Practice. Journal of the Royal Statistical Society Series A: Statistics in Society, 2008, 171, 313-314.	0.6	4
148	On effective linearity of soil process models. European Journal of Soil Science, 2008, 59, 990-999.	1.8	4
149	Can we predict the provenance of a soil sample for forensic purposes by reference to a spatial database?. European Journal of Soil Science, 2008, 59, 1000-1006.	1.8	23
150	The behaviour of soil process models of ammonia volatilization at contrasting spatial scales. European Journal of Soil Science, 2008, 59, 1271-1283.	1.8	8
151	Spatial variation of ammonia volatilization from soil and its scaleâ€dependent correlation with soil properties. European Journal of Soil Science, 2008, 59, 1260-1270.	1.8	23
152	Spatial analysis of the error in a model of soil nitrogen. Ecological Modelling, 2008, 211, 453-467.	1.2	8
153	Analysis of two variants of a spatially distributed crop model, using wavelet transforms and geostatistics. Agricultural Systems, 2008, 98, 135-146.	3.2	8
154	Mapping aerial metal deposition in metropolitan areas from tree bark: A case study in Sheffield, England. Environmental Pollution, 2008, 155, 164-173.	3.7	31
155	Inferences from fluctuations in the local variogram about the assumption of stationarity in the variance. Geoderma, 2008, 143, 123-132.	2.3	31
156	The effects of simple perturbations of a process model on the spatial variability of its output. Geoderma, 2008, 145, 267-277.	2.3	2
157	Reply to â€œStandardized vs. customary ordinary cokrigingâ€¦â€•by A. Papritz. Geoderma, 2008, 146, 397-399.	2.3	8
158	A comparison of parametric and non-parametric methods for modelling a coregionalization. Geoderma, 2008, 148, 13-24.	2.3	7
159	Digital Soil Mapping Technologies for Countries with Sparse Data Infrastructures. , 2008, , 15-30.		11
160	Using expert knowledge with control of false discovery rate to select regressors for prediction of soil properties. Geoderma, 2007, 138, 65-78.	2.3	26
161	Robust estimation of the variogram by residual maximum likelihood. Geoderma, 2007, 140, 62-72.	2.3	50
162	The MatÃ©rn variogram model: Implications for uncertainty propagation and sampling in geostatistical surveys. Geoderma, 2007, 140, 337-345.	2.3	47

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163	A landscape-scale experiment on the changes in available potassium over a winter wheat cropping season. Geoderma, 2007, 141, 384-396.	2.3	24
164	Spatial evaluation of pedotransfer functions using wavelet analysis. Journal of Hydrology, 2007, 333, 182-198.	2.3	35
165	Understanding airborne radiometric survey signals across part of eastern England. Earth Surface Processes and Landforms, 2007, 32, 1503-1515.	1.2	45
166	Scale- and location-dependent correlations of soil strength and the yield of wheat. Soil and Tillage Research, 2007, 95, 47-60.	2.6	9
167	An investigation of the multi-scale temporal variability of beach profiles at Duck using wavelet packet transforms. Coastal Engineering, 2007, 54, 401-415.	1.7	21
168	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. European Journal of Soil Science, 2007, 58, 60-73.	1.8	15
169	Cokriging particle size fractions of the soil. European Journal of Soil Science, 2007, 58, 763-774.	1.8	66
170	Inference about soil variability from the structure of the best wavelet packet basis. European Journal of Soil Science, 2007, 58, 822-831.	1.8	13
171	Scale-dependent relationships between soil organic carbon and urease activity. European Journal of Soil Science, 2007, 58, 1087-1095.	1.8	54
172	Estimation of Linear Models of Coregionalization by Residual Maximum Likelihood. European Journal of Soil Science, 2007, 58, 1506-1513.	1.8	32
173	Spatial covariation of Azotobacter abundance and soil properties: A case study using the wavelet transform. Soil Biology and Biochemistry, 2007, 39, 295-310.	4.2	19
174	Optimized Sample Schemes for Geostatistical Surveys. Mathematical Geosciences, 2007, 39, 113-134.	0.9	72
175	Accounting for the uncertainty in the local mean in spatial prediction by Bayesian Maximum Entropy. Stochastic Environmental Research and Risk Assessment, 2007, 21, 773-784.	1.9	21
176	Spatio-temporal variability of some metal concentrations in the soil of eastern England, and implications for soil monitoring. Geoderma, 2006, 133, 363-379.	2.3	61
177	Using a process model and regression kriging to improve predictions of nitrous oxide emissions from soil. Geoderma, 2006, 135, 107-117.	2.3	31
178	The geostatistical analysis of experiments at the landscape-scale. Geoderma, 2006, 133, 87-106.	2.3	55
179	The use of soil survey data to determine the magnitude and extent of historic metal deposition related to atmospheric smelter emissions across Humberside, UK. Environmental Pollution, 2006, 143, 416-426.	3.7	42
180	Spatial Analysis of Model Error, Illustrated by Soil Carbon Dioxide Emissions. Vadose Zone Journal, 2006, 5, 168-183.	1.3	38

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181	On testing biological data for the presence of a boundary. Annals of Applied Biology, 2006, 149, 213-222.	1.3	13
182	Estimating a boundary line model for a biological response by maximum likelihood. Annals of Applied Biology, 2006, 149, 223-234.	1.3	33
183	On spatial prediction of soil properties in the presence of a spatial trend: the empirical best linear unbiased predictor (E-BLUP) with REML. European Journal of Soil Science, 2006, 57, 787-799.	1.8	232
184	Adaptive sampling and reconnaissance surveys for geostatistical mapping of the soil. European Journal of Soil Science, 2006, 57, 831-845.	1.8	36
185	The representation of complex soil variation on wavelet packet bases. European Journal of Soil Science, 2006, 57, 868-882.	1.8	12
186	Baseline values and change in the soil, and implications for monitoring. European Journal of Soil Science, 2006, 57, 916-921.	1.8	39
187	Geostatistical mapping of geomorphic variables in the presence of trend. Earth Surface Processes and Landforms, 2006, 31, 862-874.	1.2	61
188	Chapter 23 Decomposing Digital Soil Information by Spatial Scale. Developments in Soil Science, 2006, 31, 301-616.	0.5	2
189	Sensing the physical and nutritional status of the root environment in the field: a review of progress and opportunities. Journal of Agricultural Science, 2005, 143, 347-358.	0.6	27
190	Analysis of Complex Soil Variation Using Wavelets. Books in Soils, Plants, and the Environment, 2005, , 343-372.	0.1	3
191	Multi-scale variability of beach profiles at Duck: A wavelet analysis. Coastal Engineering, 2005, 52, 1133-1153.	1.7	30
192	The assessment of point and diffuse metal pollution of soils from an urban geochemical survey of Sheffield, England. Soil Use and Management, 2005, 21, 353-362.	2.6	58
193	Wavelet analysis of the scale- and location-dependent correlation of modelled and measured nitrous oxide emissions from soil. European Journal of Soil Science, 2005, 56, 3-17.	1.8	26
194	Exploring scale-dependent correlation of soil properties by nested sampling. European Journal of Soil Science, 2005, 56, 307-317.	1.8	28
195	Spatial analysis of categorical soil variables with the wavelet transform. European Journal of Soil Science, 2005, 56, 050912034650045.	1.8	1
196	Carbon losses from all soils across England and Wales 1978â€“2003. Nature, 2005, 437, 245-248.	13.7	939
197	Mapping Potential Crop Management Zones within Fields: Use of Yield-map Series and Patterns of Soil Physical Properties Identified by Electromagnetic Induction Sensing. Precision Agriculture, 2005, 6, 167-181.	3.1	73
198	Pedometrics 2003. Geoderma, 2005, 128, 177-178.	2.3	3

#	Article	IF	Citations
199	Scale- and location-dependent correlation of nitrous oxide emissions with soil properties: an analysis using wavelets. European Journal of Soil Science, 2004, 55, 611-627.	1.8	107
200	Analysing spatially intermittent variation of nitrous oxide emissions from soil with wavelets and the implications for sampling. European Journal of Soil Science, 2004, 55, 601-610.	1.8	15
201	Analysing soil variation in two dimensions with the discrete wavelet transform. European Journal of Soil Science, 2004, 55, 777-797.	1.8	56
202	Model-based analysis using REML for inference from systematically sampled data on soil. European Journal of Soil Science, 2004, 55, 799-813.	1.8	133
203	Estimating Variogram Uncertainty. Mathematical Geosciences, 2004, 36, 867-898.	0.9	63
204	Mapping risk of soil nutrient deficiency or excess by disjunctive and indicator kriging. Geoderma, 2004, 118, 39-53.	2.3	78
205	Two robust estimators of the cross-variogram for multivariate geostatistical analysis of soil properties. European Journal of Soil Science, 2003, 54, 187-202.	1.8	40
206	Multiresolution analysis of data on electrical conductivity of soil using wavelets. Journal of Hydrology, 2003, 272, 276-290.	2.3	28
207	Fitting a linear model of coregionalization for soil properties using simulated annealing. Geoderma, 2003, 115, 245-260.	2.3	66
208	A Method to Investigate Withinâ€Field Variation of the Response of Combinable Crops to an Input. Agronomy Journal, 2003, 95, 1093-1104.	0.9	36
209	Approaches to Management Zone Definition for Use of Nitrification Inhibitors. Soil Science Society of America Journal, 2003, 67, 937.	1.2	34
210	Approaches to Management Zone Definition for Use of Nitrification Inhibitors. Soil Science Society of America Journal, 2003, 67, 937-947.	1.2	18
211	Optimized spatial sampling of soil for estimation of the variogram by maximum likelihood. Geoderma, 2002, 105, 49-80.	2.3	124
212	Modelling complex soil properties as contaminated regionalized variables. Geoderma, 2002, 106, 173-190.	2.3	59
213	Robust estimation of the pseudo cross-variogram for cokriging soil properties. European Journal of Soil Science, 2002, 53, 253-270.	1.8	34
214	Changes in variance and correlation of soil properties with scale and location: analysis using an adapted maximal overlap discrete wavelet transform. European Journal of Soil Science, 2001, 52, 547-562.	1.8	76
215	Some tools for parsimonious modelling and interpretation of within-field variation of soil and crop systems. Soil and Tillage Research, 2001, 58, 99-111.	2.6	24
216	Understanding and Using Yield Maps â€" An Analytical Tool for Their Interpretation. Outlook on Agriculture, 2000, 29, 39-45.	1.8	2

#	Article	IF	Citations
217	A comparison of some robust estimators of the variogram for use in soil survey. European Journal of Soil Science, 2000, 51, 137-157.	1.8	204
218	Estimating variograms of soil properties by the method-of-moments and maximum likelihood. European Journal of Soil Science, 2000, 51, 717-728.	1.8	132
219	Regression analysis with spatially autocorrelated error: simulation studies and application to mapping of soil organic matter. International Journal of Geographical Information Science, 2000, 14, 247-264.	2.2	36
220	Designing sampling grids from imprecise information on soil variability, an approach based on the fuzzy kriging variance. Geoderma, 2000, 98, 35-59.	2.3	27
221	A geostatistical extension of the sectioning procedure for disaggregating soil information to the scale of functional models of soil processes. Geoderma, 2000, 95, 89-112.	2.3	12
222	Analysis and elucidation of soil variation using wavelets. European Journal of Soil Science, 1999, 50, 185-206.	1.8	126
223	Soilâ€"landform relationships at within-field scales: an investigation using continuous classification. Geoderma, 1999, 92, 141-165.	2.3	104
224	A time series model of daily milk yields and its possible use for detection of a disease (ketosis). Animal Science, 1999, 69, 573-582.	1.3	9
225	Title is missing!. , 1998, 50, 277-281.		7
226	A geostatistical descriptor of the spatial distribution of soil classes, and its use in predicting the purity of possible soil map units. Geoderma, 1998, 83, 243-267.	2.3	14
227	Forming spatially coherent regions by classification of multi-variate data: an example from the analysis of maps of crop yield. International Journal of Geographical Information Science, 1998, 12, 83-98.	2.2	67
228	Towards the explanation of within-field variability of yield of winter barley: soil series differences. Journal of Agricultural Science, 1998, 131, 409-416.	0.6	22
229	Information on within-field variability from sequences of yield maps: multivariate classification as a first step of interpretation. , 1998, , 277-281.		3
230	Uncertainty in prediction and interpretation of spatially variable data on soils. Geoderma, 1997, 77, 263-282.	2.3	35
231	An empirical method for describing the joint effects of environmental and other variables on crop yield. Annals of Applied Biology, 1997, 131, 141-159.	1.3	19
232	Classification as a first step in the interpretation of temporal and spatial variation of crop yield. Annals of Applied Biology, 1997, 130, 111-121.	1.3	96
233	Limitations on the Spatial Resolution of Yield Mapping for Combinable Crops. Biosystems Engineering, 1997, 66, 183-193.	0.4	47
234	Geostatistical description of texture on an aerial photograph for discriminating classes of land cover. International Journal of Remote Sensing, 1996, 17, 2115-2133.	1.3	122

#	Article	IF	Citations
235	Mapping and interpreting the yield variation in cereal crops. Computers and Electronics in Agriculture, 1996, 14, 101-119.	3.7	102
236	Components of accuracy of maps with special reference to discriminant analysis on remote sensor data. International Journal of Remote Sensing, 1995, 16, 1461-1480.	1.3	33
237	A reappraisal of unsupervised classification, II: optimal adjustment of the map legend and a neighbourhood approach for mapping legend units. International Journal of Remote Sensing, 1995, 16, 1445-1460.	1.3	6
238	A reappraisal of unsupervised classification, I: correspondence between spectral and conceptual classes. International Journal of Remote Sensing, 1995, 16, 1425-1443.	1.3	21
239	Contributions of principal components to discrimination of classes of land cover in multi-spectral imagery. International Journal of Remote Sensing, 1995, 16, 779-787.	1.3	5
240	A regular pattern in the relative areas of soil profile classes and possible applications in reconnaissance soil survey. Geoderma, 1995, 68, 27-37.	2.3	3
241	Sample size and class variability in the choice of a method of discriminant analysis. International Journal of Remote Sensing, 1994, 15, 1551-1555.	1.3	5
242	A comparison between techniques for estimating the ages of African elephants (<i>Loxodonta) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	0.4	13
243	Using Yield Maps to Regionalize Fields into Potential Management Units. Assa, Cssa and Sssa, 0, , 225-237.	0.6	29
244	Stakeholder interpretation of probabilistic representations of uncertainty in spatial information: an example on the nutritional quality of staple crops. International Journal of Geographical Information Science, 0, , 1-27.	2.2	2