GÃ¡bor SzatmÃ¡ri

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8713456/publications.pdf

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34	853	567281	501196
papers	citations	15 h-index	28 g-index

53	53	53	1062
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Maps of heavy metals in the soils of the European Union and proposed priority areas for detailed assessment. Science of the Total Environment, 2016, 565, 1054-1062.	8.0	275
2	Comparison of various uncertainty modelling approaches based on geostatistics and machine learning algorithms. Geoderma, 2019, 337, 1329-1340.	5.1	82
3	Mapping soil hydraulic properties using random-forest-based pedotransfer functions and geostatistics. Hydrology and Earth System Sciences, 2019, 23, 2615-2635.	4.9	60
4	Spatial distribution of microplastics in the fluvial sediments of a transboundary river â€“ A case study of the Tisza River in Central Europe. Science of the Total Environment, 2021, 785, 147306.	8.0	47
5	Mapping geogenic radon potential by regression kriging. Science of the Total Environment, 2016, 544, 883-891.	8.0	39
6	Spatio-temporal assessment of topsoil organic carbon stock change in Hungary. Soil and Tillage Research, 2019, 195, 104410.	5.6	31
7	Estimating soil organic carbon stock change at multiple scales using machine learning and multivariate geostatistics. Geoderma, 2021, 403, 115356.	5.1	31
8	Compilation of novel and renewed, goal oriented digital soil maps using geostatistical and data mining tools. Hungarian Geographical Bulletin, 2015, 64, 49-64.	0.9	23
9	Long-term hydrological changes after various river regulation measures: are we responsible for flow extremes?. Hydrology Research, 2019, 50, 417-430.	2.7	21
10	Mapping of topsoil texture in Hungary using classification trees. Journal of Maps, 2016, 12, 999-1009.	2.0	20
11	Comparison of soil texture maps synthetized from standard depth layers with directly compiled products. Geoderma, 2019, 352, 360-372.	5.1	19
12	Elaborating Hungarian Segment of the Global Map of Salt-Affected Soils (GSSmap): National Contribution to an International Initiative. Remote Sensing, 2020, 12, 4073.	4.0	19
13	Compiling a high-resolution country-level ecosystem map to support environmental policy: methodological challenges and solutions from Hungary. Geocarto International, 2022, 37, 8746-8769.	3.5	17
14	Optimization of second-phase sampling for multivariate soil mapping purposes: Case study from a wine region, Hungary. Geoderma, 2019, 352, 373-384.	5.1	16
15	An application of a spatial simulated annealing sampling optimization algorithm to support digital soil mapping. Hungarian Geographical Bulletin, 2015, 64, 35-48.	0.9	16
16	Understanding the Environmental Background of an Invasive Plant Species (Asclepias syriaca) for the Future: An Application of LUCAS Field Photographs and Machine Learning Algorithm Methods. Plants, 2019, 8, 593.	3.5	15
17	Progress in the elaboration of GSM conform DSM products and their functional utilization in Hungary. Geoderma Regional, 2020, 21, e00269.	2.1	12
18	Geostatistical evaluation of the design of the precipitation stable isotope monitoring network for Slovenia and Hungary. Environment International, 2021, 146, 106263.	10.0	12

#	ARTICLE	IF	CITATIONS
19	National level assessment of soil salinization and structural degradation risks under irrigation. Hungarian Geographical Bulletin, 2019, 68, 141-156.	0.9	12
20	OrszÃ¡gos, nagyfelbontÃ¡sÃº Ã¶kosziszt Ã©ma- alaptÃ©rkÃ©p: mÃ³dszertan, validÃ¡ciÃ³ Ã©s felhasznÃ¡lÃ¡si lehetÅ‘sÃ©gek. TermÃ©szetvÃ©delmi KÃ¶zlemÃ©nyek, 2019, 25, 34-58.	0.4	12
21	Compilation of Functional Soil Maps for the Support of Spatial Planning and Land Management in Hungary. , 2017, , 293-317.		8
22	Application of Hybrid Prediction Methods in Spatial Assessment of Inland Excess Water Hazard. ISPRS International Journal of Geo-Information, 2020, 9, 268.	2.9	7
23	Digital mapping of the organic matter content of chernozem soils on an area endangered by erosion in the MezÅ‘fÃ¶ld region. Agrokemia Es Talajtan, 2013, 62, 47-60.	0.2	7
24	Large-scale mapping of soil organic matter content by regression kriging in Zala County. Agrokemia Es Talajtan, 2013, 62, 219-234.	0.2	7
25	Remarks to the debate on mapping heavy metals in soil and soil monitoring in the European Union. Science of the Total Environment, 2017, 603-604, 827-831.	8.0	6
26	Testing a sequential stochastic simulation method based on regression kriging in a catchment area in Southern Hungary. Geologia Croatica, 2015, 68, .	0.8	6
27	Facing the peat CO2 threat: digital mapping of Indonesian peatlandsâ€”a proposed methodology and its application. Journal of Soils and Sediments, 2019, 19, 3663-3678.	3.0	5
28	Soluble phosphorus content of Lake Balaton sediments. Journal of Maps, 2022, 18, 142-150.	2.0	5
29	Identification and Counting of European Souslik Burrows from UAV Images by Pixel-Based Image Analysis and Random Forest Classification: A Simple, Semi-Automated, yet Accurate Method for Estimating Population Size. Remote Sensing, 2022, 14, 2025.	4.0	5
30	Influence of the Shortening of the Winter Fertilization Prohibition Period in Hungary Assessed by Spatial Crop Simulation Analysis. Sustainability, 2021, 13, 417.	3.2	3
31	Joint Spatial Modeling of Nutrients and Their Ratio in the Sediments of Lake Balaton (Hungary): A Multivariate Geostatistical Approach. Water (Switzerland), 2022, 14, 361.	2.7	3
32	Variations for the Implementation of SCORPANâ€™s â€œSâ€• Springer Environmental Science and Engineering, 2016, , 331-342.	0.1	2
33	Relationship between water erosion, potential erosion and land use on an area in the MezÅ‘fÃ¶ld region. Agrokemia Es Talajtan, 2012, 61, 41-56.	0.2	1
34	Compiling C/N and total-N dataset to support countrywide soil nutrient emission models for Hungary. Studies in Agricultural Economics, 2020, , .	0.5	0