

Asim Biswas

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

165
papers

2,200
citations

25
h-index

38
g-index

193
ext. papers

3,156
ext. citations

5.1
avg, IF

5.96
L-index

#	Paper	IF	Citations
165	Modeling potential habitats and predicting habitat connectivity for <i>Leucanthemum vulgare</i> Lam. in northwestern rangelands of Iran.. <i>Environmental Monitoring and Assessment</i> , 2022 , 194, 109	3.1	1
164	Cover crop mixtures: A powerful strategy to reduce post-harvest surplus of soil nitrate and leaching. <i>Agriculture, Ecosystems and Environment</i> , 2022 , 325, 107750	5.7	1
163	A framework for determining the total salt content of soil profiles using time-series Sentinel-2 images and a random forest-temporal convolution network. <i>Geoderma</i> , 2022 , 409, 115656	6.7	2
162	Leaf Stoichiometry of Across Elevations in China's Qilian Mountains.. <i>Frontiers in Plant Science</i> , 2022 , 13, 814059	6.2	0
161	Differences in Spatiotemporal Variability of Potential and Reference Crop Evapotranspirations. <i>Water (Switzerland)</i> , 2022 , 14, 988	3	
160	Predicting annual PM2.5 in mainland China from 2014 to 2020 using multi temporal satellite product: An improved deep learning approach with spatial generalization ability. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2022 , 187, 141-158	11.8	1
159	Seasonal agricultural wetlands act as potential source of N2O and CH4 emissions. <i>Catena</i> , 2022 , 213, 106184	5.8	0
158	Evaluation of Desertification Severity in El-Farafra Oasis, Western Desert of Egypt: Application of Modified MEDALUS Approach Using Wind Erosion Index and Factor Analysis. <i>Land</i> , 2022 , 11, 54	3.5	4
157	Comparison of sampling designs for calibrating digital soil maps at multiple depths. <i>Pedosphere</i> , 2022 , 32, 588-601	5	1
156	Improving remote sensing of salinity on topsoil with crop residues using novel indices of optical and microwave bands. <i>Geoderma</i> , 2022 , 422, 115935	6.7	1
155	Targeted biochar application alters physical, chemical, hydrological and thermal properties of salt-affected soils under cotton-sugarbeet intercropping. <i>Catena</i> , 2022 , 216, 106414	5.8	0
154	Soil Sensing. <i>Progress in Precision Agriculture</i> , 2021 , 93-132		1
153	Dynamics of Vegetation Greenness and Its Response to Climate Change in Xinjiang over the Past Two Decades. <i>Remote Sensing</i> , 2021 , 13, 4063	5	3
152	Quantifying Root-Soil Interactions in Cover Crop Systems: A Review. <i>Agriculture (Switzerland)</i> , 2021 , 11, 218	3	9
151	Effect of multi-temporal satellite images on soil moisture prediction using a digital soil mapping approach. <i>Geoderma</i> , 2021 , 385, 114901	6.7	6
150	Toward digital agricultural mapping in Africa: evidence of Northern Nigeria. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	1
149	Land Surface Ecological Status Composition Index (LSESCI): A novel remote sensing-based technique for modeling land surface ecological status. <i>Ecological Indicators</i> , 2021 , 123, 107375	5.8	10

148	Short-Term Carbon Sequestration and Changes of Soil Organic Carbon Pools in Rice under Integrated Nutrient Management in India. <i>Agriculture (Switzerland)</i> , 2021 , 11, 348	3	6
147	Long-term continuous cropping affects coenzymatic stoichiometry of microbial nutrient acquisition: a case study from a Chinese Mollisol. <i>Journal of the Science of Food and Agriculture</i> , 2021 , 101, 6338-6346	4.3	0
146	Impact of climate change and crop management on cotton phenology based on statistical analysis in the main-cotton-planting areas of China. <i>Journal of Cleaner Production</i> , 2021 , 298, 126750	10.3	6
145	Are heavy metals in urban garden soils linked to vulnerable populations? A case study from Guelph, Canada. <i>Scientific Reports</i> , 2021 , 11, 11286	4.9	2
144	Quantifying the effect of surface heterogeneity on soil moisture across regions and surface characteristic. <i>Journal of Hydrology</i> , 2021 , 596, 126132	6	1
143	On China's Qinghai-Tibetan Plateau, duration of grazing enclosure alters R:S ratio, root morphology and attending root biomass. <i>Soil and Tillage Research</i> , 2021 , 209, 104969	6.5	4
142	Tapping the immunological imprints to design chimeric SARS-CoV-2 vaccine for elderly population. <i>International Reviews of Immunology</i> , 2021 , 1-16	4.6	1
141	High-resolution prediction of the spatial distribution of PM2.5 concentrations in China using a long short-term memory model. <i>Journal of Cleaner Production</i> , 2021 , 297, 126493	10.3	4
140	Projection of the climate change effects on soil water dynamics of summer maize grown in water repellent soils using APSIM and HYDRUS-1D models. <i>Computers and Electronics in Agriculture</i> , 2021 , 185, 106142	6.5	4
139	Paper-polished carbon screen-printed electrodes increase reusability and enhance performance in phosphomolybdate electrochemical detection. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 890, 115229 ^{4.1}	4.1	0
138	Optimizing biochar application to improve soil physical and hydraulic properties in saline-alkali soils. <i>Science of the Total Environment</i> , 2021 , 771, 144802	10.2	18
137	Matrix lumican endocytosed by immune cells controls receptor ligand trafficking to promote TLR4 and restrict TLR9 in sepsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	2
136	Comparison of different irrigation methods to synergistically improve maize yield, water productivity and economic benefits in an arid irrigation area. <i>Agricultural Water Management</i> , 2021 , 243, 106497	5.9	12
135	Identifying the dominant effects of climate and land use change on soil water balance in deep loessial vadose zone. <i>Agricultural Water Management</i> , 2021 , 245, 106637	5.9	7
134	Effect of grazing exclusion on soil and vegetation characteristics in desert steppe rangelands: a case study from north-western Iran. <i>Arid Land Research and Management</i> , 2021 , 35, 213-229	1.8	0
133	Multi-algorithm comparison to predict soil organic matter and soil moisture content from cell phone images. <i>Geoderma</i> , 2021 , 385, 114863	6.7	6
132	Recognition of different yield potentials among rain-fed wheat fields before harvest using remote sensing. <i>Agricultural Water Management</i> , 2021 , 245, 106611	5.9	4
131	Legacy data-based national-scale digital mapping of key soil properties in India. <i>Geoderma</i> , 2021 , 381, 114684	6.7	12

130	Predicting bulk density in deep unsaturated soils based on multiple scale decomposition. <i>Geoderma</i> , 2021 , 385, 114859	6.7	2
129	Measurements and modeling of hydrological responses to summer pruning in dryland apple orchards. <i>Journal of Hydrology</i> , 2021 , 594, 125651	6	4
128	Electrochemical Mechanisms in Potentiometric Phosphate Sensing Using Pure Cobalt, Molybdenum and their Alloy for Environmental Applications. <i>Electroanalysis</i> , 2021 , 33, 421-430	3	5
127	In-Situ Estimation of Soil Water Retention Curve in Silt Loam and Loamy Sand Soils at Different Soil Depths. <i>Sensors</i> , 2021 , 21,	3.8	5
126	Biochar Role in Mitigation of Greenhouse Gas Emissions from Agricultural Soils 2021 , 261-278		
125	The Frontiers in Soil Science Research: An African Perspective 2021 , 623-635		1
124	Topography Controls N ₂ O Emissions Differently during Early and Late Corn Growing Season. <i>Agronomy</i> , 2021 , 11, 187	3.6	6
123	Analysis of Spatial and Temporal Characteristics and Spatial Flow Process of Soil Conservation Service in Jinghe Basin of China. <i>Sustainability</i> , 2021 , 13, 1794	3.6	1
122	Analysis of Four Delineation Methods to Identify Potential Management Zones in a Commercial Potato Field in Eastern Canada. <i>Agronomy</i> , 2021 , 11, 432	3.6	5
121	Impacts of land-use changes on the variability of microbiomes in soil profiles. <i>Journal of the Science of Food and Agriculture</i> , 2021 , 101, 5056-5066	4.3	0
120	Interactive role of topography and best management practices on N ₂ O emissions from agricultural landscape. <i>Soil and Tillage Research</i> , 2021 , 212, 105063	6.5	7
119	Land Degradation and Development Processes and Their Response to Climate Change and Human Activity in China from 1982 to 2015. <i>Remote Sensing</i> , 2021 , 13, 3516	5	2
118	Elevation Alone Alters Leaf N and Leaf C to N Ratio of <i>Picea crassifolia</i> Kom. in China's Qilian Mountains. <i>Forests</i> , 2021 , 12, 1325	2.8	0
117	Response of different organs to stoichiometry of <i>Phragmites australis</i> to soil salinity in arid marshes, China. <i>Global Ecology and Conservation</i> , 2021 , e01843	2.8	0
116	Assessing the effects of ecological engineering on spatiotemporal dynamics of carbon storage from 2000 to 2016 in the Loess Plateau area using the InVEST model: A case study in Huining County, China. <i>Environmental Development</i> , 2021 , 39, 100641	4.1	8
115	A machine learning approach for spatiotemporal imputation of MODIS chlorophyll-a. <i>International Journal of Remote Sensing</i> , 2021 , 42, 7381-7404	3.1	1
114	Identifying hotspots and representative monitoring locations of field scale NO emissions from agricultural soils: A time stability analysis. <i>Science of the Total Environment</i> , 2021 , 788, 147955	10.2	1
113	A meta-analysis of the possible impact of climate change on global cotton yield based on crop simulation approaches. <i>Agricultural Systems</i> , 2021 , 193, 103221	6.1	3

112	Grassland grazing management altered soil properties and microbial diversity but not diversity on the Qinghai-Tibetan Plateau. <i>Applied Soil Ecology</i> , 2021 , 167, 104032	5	3
111	High-density proximal soil sensing data and topographic derivatives to characterise field variability. <i>Biosystems Engineering</i> , 2021 , 211, 19-34	4.8	1
110	Integrating Remote Sensing and Landscape Characteristics to Estimate Soil Salinity Using Machine Learning Methods: A Case Study from Southern Xinjiang, China. <i>Remote Sensing</i> , 2020 , 12, 4118	5	18
109	Field-Scale Characterization of Spatio-Temporal Variability of Soil Salinity in Three Dimensions. <i>Remote Sensing</i> , 2020 , 12, 4043	5	4
108	National-Scale Variation and Propagation Characteristics of Meteorological, Agricultural, and Hydrological Droughts in China. <i>Remote Sensing</i> , 2020 , 12, 3407	5	14
107	Currents Status, Challenges, and Future Directions in Identifying Critical Source Areas for Non-Point Source Pollution in Canadian Conditions. <i>Agriculture (Switzerland)</i> , 2020 , 10, 468	3	9
106	Socio-ecological determinants on spatio-temporal changes of groundwater in the Yellow River Basin, China. <i>Science of the Total Environment</i> , 2020 , 731, 138725	10.2	11
105	Driving Factors and Future Prediction of Land Use and Cover Change Based on Satellite Remote Sensing Data by the LCM Model: A Case Study from Gansu Province, China. <i>Sensors</i> , 2020 , 20,	3.8	22
104	Baseline soil characterisation of active landfill sites for future restoration and development in the state of Kuwait. <i>International Journal of Environmental Science and Technology</i> , 2020 , 17, 4407-4418	3.3	5
103	A Review of Ongoing Advancements in Soil and Water Assessment Tool (SWAT) for Nitrous Oxide (N ₂ o) Modeling. <i>Atmosphere</i> , 2020 , 11, 450	2.7	3
102	A new approach for modeling near surface temperature lapse rate based on normalized land surface temperature data. <i>Remote Sensing of Environment</i> , 2020 , 242, 111746	13.2	19
101	Spatio-temporal evolution of agricultural land use change drivers: A case study from Chalous region, Iran. <i>Journal of Environmental Management</i> , 2020 , 262, 110326	7.9	19
100	Improved digital soil mapping with multitemporal remotely sensed satellite data fusion: A case study in Iran. <i>Science of the Total Environment</i> , 2020 , 721, 137703	10.2	35
99	Identifying the spatial drivers and scale-specific variations of soil organic carbon in tropical ecosystems: A case study from Knuckles Forest Reserve in Sri Lanka. <i>Forest Ecology and Management</i> , 2020 , 474, 118285	3.9	3
98	Response of leaf stoichiometry of <i>Oxytropis ochrocephala</i> to elevation and slope aspect. <i>Catena</i> , 2020 , 194, 104772	5.8	13
97	Predicting soil texture from smartphone-captured digital images and an application. <i>Geoderma</i> , 2020 , 376, 114562	6.7	12
96	Potential groundwater recharge from deep drainage of irrigation water. <i>Science of the Total Environment</i> , 2020 , 716, 137105	10.2	5
95	Three-dimensional digital soil mapping of multiple soil properties at a field-scale using regression kriging. <i>Geoderma</i> , 2020 , 366, 114253	6.7	15

94	Review Potentiometric Determination of Phosphate Using Cobalt: A Review. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 127507	3.9	8
93	Instant and Mobile Electrochemical Quantification of Inorganic Phosphorus in Soil Extracts. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 167512	3.9	1
92	Phage Types of 01 Biotype ElTor Strains Isolated from India during 2012-2017. <i>Journal of Global Infectious Diseases</i> , 2020 , 12, 94-100	2.8	2
91	Multi-algorithm comparison for predicting soil salinity. <i>Geoderma</i> , 2020 , 365, 114211	6.7	34
90	Estimating Aboveground Net Primary Production (ANPP) Using Landsat 8-Based Indices: A Case Study From Hir-Neur Rangelands, Iran. <i>Rangeland Ecology and Management</i> , 2020 , 73, 649-657	2.2	4
89	Current challenges: from the path of "original antigenic sin" towards the development of universal flu vaccines. <i>International Reviews of Immunology</i> , 2020 , 39, 21-36	4.6	10
88	Predicting soil organic matter from cellular phone images under varying soil moisture. <i>Geoderma</i> , 2020 , 361, 114020	6.7	15
87	Phosphorus loss assessment tools: a review of underlying concepts and applicability in cold climates. <i>Environmental Science and Pollution Research</i> , 2020 , 27, 3794-3802	5.1	2
86	A comparison of conventional and wavelet transform based methods for streamflow record extension. <i>Journal of Hydrology</i> , 2020 , 582, 124503	6	7
85	Scale and location dependent time stability of soil water storage in a maize cropped field. <i>Catena</i> , 2020 , 188, 104420	5.8	1
84	Temporal instability of soil moisture at a hillslope scale under subtropical hydroclimatic conditions. <i>Catena</i> , 2020 , 187, 104362	5.8	6
83	Rotavirus activates a noncanonical ATM-Chk2 branch of DNA damage response during infection to positively regulate viroplasm dynamics. <i>Cellular Microbiology</i> , 2020 , 22, e13149	3.9	7
82	Updated information on soil salinity in a typical oasis agroecosystem and desert-oasis ecotone: Case study conducted along the Tarim River, China. <i>Science of the Total Environment</i> , 2020 , 716, 135387	10.2	14
81	A comprehensive review of ephemeral gully erosion models. <i>Catena</i> , 2020 , 195, 104901	5.8	8
80	Land use and mineral fertilization influence soil microbial biomass and residues: A case study of a Chinese Mollisol. <i>European Journal of Soil Biology</i> , 2020 , 100, 103216	2.9	4
79	Seasonal Dynamics of Leaf Stoichiometry of : A Case Study From Yangguan Wetland, Dunhuang, China. <i>Plants</i> , 2020 , 9,	4.5	1
78	Long-term application of fertilizer and manures affect P fractions in Mollisol. <i>Scientific Reports</i> , 2020 , 10, 14793	4.9	2
77	Automatic Detection of Plant Rows for a Transplanter in Paddy Field Using Faster R-CNN. <i>IEEE Access</i> , 2020 , 8, 147231-147240	3.5	4

76	Comparison of spectral and spatial-based approaches for mapping the local variation of soil moisture in a semi-arid mountainous area. <i>Science of the Total Environment</i> , 2020 , 724, 138319	10.2	12
75	Emergence of Novel Coronavirus and COVID-19: whether to stay or die out?. <i>Critical Reviews in Microbiology</i> , 2020 , 46, 182-193	7.8	72
74	In-beam spectroscopic study of Zn63. <i>Physical Review C</i> , 2019 , 100,	2.7	2
73	Simultaneous measurement of multiple soil properties through proximal sensor data fusion: A case study. <i>Geoderma</i> , 2019 , 341, 111-128	6.7	40
72	Spatio-temporal dynamics of groundwater storage changes in the Yellow River Basin. <i>Journal of Environmental Management</i> , 2019 , 235, 84-95	7.9	21
71	Proximal sensing of soil particle sizes using a microscope-based sensor and bag of visual words model. <i>Geoderma</i> , 2019 , 351, 144-152	6.7	6
70	Characterising dryland salinity in three dimensions. <i>Science of the Total Environment</i> , 2019 , 682, 190-199	10.2	22
69	Spatial variability of soil thermal properties and their relationships with physical properties at field scale. <i>Soil and Tillage Research</i> , 2019 , 193, 50-58	6.5	10
68	X-ray fluorescence and visible near infrared sensor fusion for predicting soil chromium content. <i>Geoderma</i> , 2019 , 352, 61-69	6.7	34
67	Small alarmones (p)ppGpp regulate virulence associated traits and pathogenesis of Salmonella enterica serovar Typhi. <i>Cellular Microbiology</i> , 2019 , 21, e13034	3.9	13
66	Estimating forest soil organic carbon content using vis-NIR spectroscopy: Implications for large-scale soil carbon spectroscopic assessment. <i>Geoderma</i> , 2019 , 348, 37-44	6.7	40
65	Clustering Tools for Integration of Satellite Remote Sensing Imagery and Proximal Soil Sensing Data. <i>Remote Sensing</i> , 2019 , 11, 1036	5	5
64	Elucidating controls of the variability of deep soil bulk density. <i>Geoderma</i> , 2019 , 348, 146-157	6.7	20
63	Identifying hotspots and representative monitoring area of groundwater changes with time stability analysis. <i>Science of the Total Environment</i> , 2019 , 667, 419-426	10.2	5
62	A multiscale and multivariate analysis of precipitation and streamflow variability in relation to ENSO, NAO and PDO. <i>Journal of Hydrology</i> , 2019 , 574, 288-307	6	49
61	Joint multifractal analysis for three variables: Characterizing the effect of topography and soil texture on soil water storage. <i>Geoderma</i> , 2019 , 334, 15-23	6.7	16
60	Estimating soil salinity from remote sensing and terrain data in southern Xinjiang Province, China. <i>Geoderma</i> , 2019 , 337, 1309-1319	6.7	106
59	From Passion to Profession: The Journey of SSSA's Early Career Award Winner. <i>CSA News</i> , 2019 , 64, 32-33.	1	

58	Field Water Balance Closure with Actively Heated Fiber-Optics and Point-Based Soil Water Sensors. <i>Water (Switzerland)</i> , 2019 , 11, 135	3	7
57	Quantifying dual recharge mechanisms in deep unsaturated zone of Chinese Loess Plateau using stable isotopes. <i>Geoderma</i> , 2019 , 337, 773-781	6.7	37
56	Sampling Designs for Validating Digital Soil Maps: A Review. <i>Pedosphere</i> , 2018 , 28, 1-15	5	33
55	Drivers of spatio-temporal changes in paddy soil pH in Jiangxi Province, China from 1980 to 2010. <i>Scientific Reports</i> , 2018 , 8, 2702	4.9	22
54	Detecting nonlinearity in the spatial series of nitrous oxide emission by delay vector variance. <i>Geoderma</i> , 2018 , 317, 23-31	6.7	2
53	Characterizing soil particle sizes using wavelet analysis of microscope images. <i>Computers and Electronics in Agriculture</i> , 2018 , 148, 217-225	6.5	8
52	Scale/location specific soil spatial variability: A comparison of continuous wavelet transform and Hilbert Huang transform. <i>Catena</i> , 2018 , 160, 24-31	5.8	19
51	Soil Water Measurement Using Actively Heated Fiber Optics at Field Scale. <i>Sensors</i> , 2018 , 18,	3.8	14
50	Hydrological Responses to Various Land Use, Soil and Weather Inputs in Northern Lake Erie Basin in Canada. <i>Water (Switzerland)</i> , 2018 , 10, 222	3	11
49	Actively heated fiber optics method to monitor three-dimensional wetting patterns under drip irrigation. <i>Agricultural Water Management</i> , 2018 , 210, 243-251	5.9	11
48	Investigating the effects of irrigation methods on potential groundwater recharge: A case study of semiarid regions in Iran. <i>Journal of Hydrology</i> , 2018 , 565, 455-466	6	18
47	Greenhouse gas flux with reflooding of a drained salt marsh soil. <i>PeerJ</i> , 2018 , 6, e5659	3.1	4
46	A Methodological Framework to Retrospectively Obtain Downscaled Precipitation Estimates over the Tibetan Plateau. <i>Remote Sensing</i> , 2018 , 10, 1974	5	3
45	Delineating soil management zones using a proximal soil sensing system in two commercial potato fields in New Brunswick, Canada. <i>Canadian Journal of Soil Science</i> , 2018 , 98, 724-737	1.4	8
44	Transient potential groundwater recharge under surface irrigation in semiarid environment: An experimental and numerical study. <i>Hydrological Processes</i> , 2018 , 32, 3771-3783	3.3	1
43	Identifying localized and scale-specific multivariate controls of soil organic matter variations using multiple wavelet coherence. <i>Science of the Total Environment</i> , 2018 , 643, 548-558	10.2	19
42	Scoping for scale-dependent relationships between proximal gamma radiometrics and soil properties. <i>Catena</i> , 2017 , 154, 40-49	5.8	5
41	The Effects of Forest Fire on Soil Organic Matter and Nutrients in Boreal Forests of North America: A Review 2017 , 465-476		8

40	Depth-Specific Prediction of Soil Properties In Situ using vis-NIR Spectroscopy. <i>Soil Science Society of America Journal</i> , 2017 , 81, 993-1004	2.5	19
39	Temporally stable patterns but seasonal dependent controls of soil water content: Evidence from wavelet analyses. <i>Hydrological Processes</i> , 2017 , 31, 3697-3707	3.3	25
38	Implementation of a sigmoid depth function to describe change of soil pH with depth. <i>Geoderma</i> , 2017 , 289, 1-10	6.7	16
37	Climate Mediated Changes in Permafrost and Their Effects on Natural and Human Environments 2017 , 477-512		1
36	Assessment of soil properties in situ using a prototype portable MIR spectrometer in two agricultural fields. <i>Biosystems Engineering</i> , 2016 , 152, 14-27	4.8	37
35	Inter-annual to inter-decadal streamflow variability in Quebec and Ontario in relation to dominant large-scale climate indices. <i>Journal of Hydrology</i> , 2016 , 536, 426-446	6	37
34	Fractal behavior of soil water storage at multiple depths. <i>Nonlinear Processes in Geophysics</i> , 2016 , 23, 269-284	2.9	5
33	Microscope-based computer vision to characterize soil texture and soil organic matter. <i>Biosystems Engineering</i> , 2016 , 152, 41-50	4.8	8
32	Soil water storage prediction at high space-time resolution along an agricultural hillslope. <i>Agricultural Water Management</i> , 2016 , 165, 122-130	5.9	22
31	Effect of rice-husk biochar on selected soil properties in tropical Alfisols. <i>Soil Research</i> , 2016 , 54, 302	1.8	47
30	Shuffled Frog-Leaping Algorithm for Optimal Design of Open Channels. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2016 , 142, 06016008	1.1	13
29	Revealing the scale-specific controls of soil organic matter at large scale in Northeast and North China Plain. <i>Geoderma</i> , 2016 , 271, 71-79	6.7	48
28	Characterizing anisotropic scale-specific variations in soil salinity from a reclaimed marshland in China. <i>Catena</i> , 2015 , 131, 64-73	5.8	14
27	Predicting the mobile water content of vineyard soils in New South Wales, Australia. <i>Agricultural Water Management</i> , 2015 , 148, 34-42	5.9	4
26	Relationship between the severity, persistence of soil water repellency and the critical soil water content in water repellent soils. <i>Geoderma</i> , 2014 , 221-222, 113-120	6.7	26
25	Application of multivariate empirical mode decomposition for revealing scale-and season-specific time stability of soil water storage. <i>Catena</i> , 2014 , 113, 377-385	5.8	37
24	Scaling analysis of soil water storage with missing measurements using the second-generation continuous wavelet transform. <i>European Journal of Soil Science</i> , 2014 , 65, 594-604	3.4	4
23	Curvelet transform to study scale-dependent anisotropic soil spatial variation. <i>Geoderma</i> , 2014 , 213, 589-599	6.7	12

22	Landscape characteristics influence the spatial pattern of soil water storage: Similarity over times and at depths. <i>Catena</i> , 2014 , 116, 68-77	5.8	23
21	Season- and depth-dependent time stability for characterising representative monitoring locations of soil water storage in a hummocky landscape. <i>Catena</i> , 2014 , 116, 38-50	5.8	16
20	Separating scale-specific soil spatial variability: A comparison of multi-resolution analysis and empirical mode decomposition. <i>Geoderma</i> , 2013 , 209-210, 57-64	6.7	37
19	Characterizing scale- and location-specific variation in non-linear soil systems using the wavelet transform. <i>European Journal of Soil Science</i> , 2013 , 64, 706-715	3.4	13
18	Separating Scale-Specific Spatial Variability in Two Dimensions using Bi-Dimensional Empirical Mode Decomposition. <i>Soil Science Society of America Journal</i> , 2013 , 77, 1991-1995	2.5	11
17	Time Stability of Soil Water Content 2013 ,		2
16	Identifying effects of local and nonlocal factors of soil water storage using cyclical correlation analysis. <i>Hydrological Processes</i> , 2012 , 26, 3669-3677	3.3	9
15	Factors controlling soil water storage in the hummocky landscape of the Prairie Pothole Region of North America. <i>Canadian Journal of Soil Science</i> , 2012 , 92, 649-663	1.4	28
14	Extracting soil water storage pattern using a self-organizing map. <i>Geoderma</i> , 2012 , 177-178, 18-26	6.7	3
13	Arsenic contamination in soil-water-plant (rice, <i>Oryza sativa</i> L.) continuum in central and sub-mountainous Punjab, India. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2012 , 89, 1046-50 ²⁷	2.7	12
12	Multifractal detrended fluctuation analysis in examining scaling properties of the spatial patterns of soil water storage. <i>Nonlinear Processes in Geophysics</i> , 2012 , 19, 227-238	2.9	40
11	Application of Multifractal and Joint Multifractal Analysis in Examining Soil Spatial Variation: A Review 2012 ,		5
10	Digital soil modelling The potential role of pedogenesis modelling in digital soil mapping 2012 , 145-150		1
9	Identifying scale specific controls of soil water storage in a hummocky landscape using wavelet coherency. <i>Geoderma</i> , 2011 , 165, 50-59	6.7	75
8	Scales and locations of time stability of soil water storage in a hummocky landscape. <i>Journal of Hydrology</i> , 2011 , 408, 100-112	6	59
7	Application of Continuous Wavelet Transform in Examining Soil Spatial Variation: A Review. <i>Mathematical Geosciences</i> , 2011 , 43, 379-396	2.5	38
6	Revealing the Controls of Soil Water Storage at Different Scales in a Hummocky Landscape. <i>Soil Science Society of America Journal</i> , 2011 , 75, 1295-1306	2.5	72
5	Depth Persistence of the Spatial Pattern of Soil Water Storage in a Hummocky Landscape. <i>Soil Science Society of America Journal</i> , 2011 , 75, 1099-1109	2.5	21

4	Soil organic carbon fractions after 16-years of applications of fertilizers and organic manure in a Typic Rhodalfs in semi-arid tropics. <i>Nutrient Cycling in Agroecosystems</i> , 2010 , 86, 391-399	3.3	89
3	Spatial relationship between soil hydraulic and soil physical properties in a farm field. <i>Canadian Journal of Soil Science</i> , 2009 , 89, 473-488	1.4	13
2	Spatial relationship between $\delta^{15}\text{N}$ and elevation in agricultural landscapes. <i>Nonlinear Processes in Geophysics</i> , 2008 , 15, 397-407	2.9	20
1	MODELING THE IMPACT OF SURFACE CHARACTERISTICS ON THE NEAR SURFACE TEMPERATURE LAPSE RATE. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , XLII-4/W18, 395-399	2.5	5