Asim Biswas

List of Publications by Citations

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	Estimating soil salinity from remote sensing and terrain data in southern Xinjiang Province, China. *Geoderma*, **2019**, 337, 1309-1319	6.7	106
164	Soil organic carbon fractions after 16-years of applications of fertilizers and organic manure in a Typic Rhodalfs in semi-arid tropics. *Nutrient Cycling in Agroecosystems*, **2010**, 86, 391-399	3.3	89
163	Identifying scale specific controls of soil water storage in a hummocky landscape using wavelet coherency. *Geoderma*, **2011**, 165, 50-59	6.7	75
162	Revealing the Controls of Soil Water Storage at Different Scales in a Hummocky Landscape. *Soil Science Society of America Journal*, **2011**, 75, 1295-1306	2.5	72
161	Emergence of Novel Coronavirus and COVID-19: whether to stay or die out?. *Critical Reviews in Microbiology*, **2020**, 46, 182-193	7.8	72
160	Scales and locations of time stability of soil water storage in a hummocky landscape. *Journal of Hydrology*, **2011**, 408, 100-112	6	59
159	A multiscale and multivariate analysis of precipitation and streamflow variability in relation to ENSO, NAO and PDO. *Journal of Hydrology*, **2019**, 574, 288-307	6	49
158	Revealing the scale-specific controls of soil organic matter at large scale in Northeast and North China Plain. *Geoderma*, **2016**, 271, 71-79	6.7	48
157	Effect of rice-husk biochar on selected soil properties in tropical Alfisols. *Soil Research*, **2016**, 54, 302	1.8	47
156	Simultaneous measurement of multiple soil properties through proximal sensor data fusion: A case study. *Geoderma*, **2019**, 341, 111-128	6.7	40
155	Estimating forest soil organic carbon content using vis-NIR spectroscopy: Implications for large-scale soil carbon spectroscopic assessment. *Geoderma*, **2019**, 348, 37-44	6.7	40
154	Multifractal detrended fluctuation analysis in examining scaling properties of the spatial patterns of soil water storage. *Nonlinear Processes in Geophysics*, **2012**, 19, 227-238	2.9	40
153	Application of Continuous Wavelet Transform in Examining Soil Spatial Variation: A Review. *Mathematical Geosciences*, **2011**, 43, 379-396	2.5	38
152	Assessment of soil properties in situ using a prototype portable MIR spectrometer in two agricultural fields. *Biosystems Engineering*, **2016**, 152, 14-27	4.8	37
151	Inter-annual to inter-decadal streamflow variability in Quebec and Ontario in relation to dominant large-scale climate indices. *Journal of Hydrology*, **2016**, 536, 426-446	6	37
150	Application of multivariate empirical mode decomposition for revealing scale-and season-specific time stability of soil water storage. *Catena*, **2014**, 113, 377-385	5.8	37
149	Separating scale-specific soil spatial variability: A comparison of multi-resolution analysis and empirical mode decomposition. *Geoderma*, **2013**, 209-210, 57-64	6.7	37

148	Quantifying dual recharge mechanisms in deep unsaturated zone of Chinese Loess Plateau using stable isotopes. *Geoderma*, **2019**, 337, 773-781	6.7	37
147	Improved digital soil mapping with multitemporal remotely sensed satellite data fusion: A case study in Iran. *Science of the Total Environment*, **2020**, 721, 137703	10.2	35
146	X-ray fluorescence and visible near infrared sensor fusion for predicting soil chromium content. *Geoderma*, **2019**, 352, 61-69	6.7	34
145	Multi-algorithm comparison for predicting soil salinity. *Geoderma*, **2020**, 365, 114211	6.7	34
144	Sampling Designs for Validating Digital Soil Maps: A Review. *Pedosphere*, **2018**, 28, 1-15	5	33
143	Factors controlling soil water storage in the hummocky landscape of the Prairie Pothole Region of North America. *Canadian Journal of Soil Science*, **2012**, 92, 649-663	1.4	28
142	Relationship between the severity, persistence of soil water repellency and the critical soil water content in water repellent soils. *Geoderma*, **2014**, 221-222, 113-120	6.7	26
141	Temporally stable patterns but seasonal dependent controls of soil water content: Evidence from wavelet analyses. *Hydrological Processes*, **2017**, 31, 3697-3707	3.3	25
140	Landscape characteristics influence the spatial pattern of soil water storage: Similarity over times and at depths. *Catena*, **2014**, 116, 68-77	5.8	23
139	Characterising dryland salinity in three dimensions. *Science of the Total Environment*, **2019**, 682, 190-199	10.2	22
138	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. *Sensors*, **2020**, 20,	3.8	22
137	Drivers of spatio-temporal changes in paddy soil pH in Jiangxi Province, China from 1980 to 2010. *Scientific Reports*, **2018**, 8, 2702	4.9	22
136	Soil water storage prediction at high space–time resolution along an agricultural hillslope. *Agricultural Water Management*, **2016**, 165, 122-130	5.9	22
135	Spatio-temporal dynamics of groundwater storage changes in the Yellow River Basin. *Journal of Environmental Management*, **2019**, 235, 84-95	7.9	21
134	Depth Persistence of the Spatial Pattern of Soil Water Storage in a Hummocky Landscape. *Soil Science Society of America Journal*, **2011**, 75, 1099-1109	2.5	21
133	Elucidating controls of the variability of deep soil bulk density. *Geoderma*, **2019**, 348, 146-157	6.7	20
132	Spatial relationship between ^{15}N and elevation in agricultural landscapes. *Nonlinear Processes in Geophysics*, **2008**, 15, 397-407	2.9	20
131	Depth-Specific Prediction of Soil Properties In Situ using vis-NIR Spectroscopy. *Soil Science Society of America Journal*, **2017**, 81, 993-1004	2.5	19

130	A new approach for modeling near surface temperature lapse rate based on normalized land surface temperature data. *Remote Sensing of Environment*, **2020**, 242, 111746	13.2	19
129	Spatio-temporal evolution of agricultural land use change drivers: A case study from Chalous region, Iran. *Journal of Environmental Management*, **2020**, 262, 110326	7.9	19
128	Scale□location specific soil spatial variability: A comparison of continuous wavelet transform and Hilbert□Huang transform. *Catena*, **2018**, 160, 24-31	5.8	19
127	Identifying localized and scale-specific multivariate controls of soil organic matter variations using multiple wavelet coherence. *Science of the Total Environment*, **2018**, 643, 548-558	10.2	19
126	Integrating Remote Sensing and Landscape Characteristics to Estimate Soil Salinity Using Machine Learning Methods: A Case Study from Southern Xinjiang, China. *Remote Sensing*, **2020**, 12, 4118	5	18
125	Investigating the effects of irrigation methods on potential groundwater recharge: A case study of semiarid regions in Iran. *Journal of Hydrology*, **2018**, 565, 455-466	6	18
124	Optimizing biochar application to improve soil physical and hydraulic properties in saline-alkali soils. *Science of the Total Environment*, **2021**, 771, 144802	10.2	18
123	Joint multifractal analysis for three variables: Characterizing the effect of topography and soil texture on soil water storage. *Geoderma*, **2019**, 334, 15-23	6.7	16
122	Implementation of a sigmoid depth function to describe change of soil pH with depth. *Geoderma*, **2017**, 289, 1-10	6.7	16
121	Season- and depth-dependent time stability for characterising representative monitoring locations of soil water storage in a hummocky landscape. *Catena*, **2014**, 116, 38-50	5.8	16
120	Three-dimensional digital soil mapping of multiple soil properties at a field-scale using regression kriging. *Geoderma*, **2020**, 366, 114253	6.7	15
119	Predicting soil organic matter from cellular phone images under varying soil moisture. *Geoderma*, **2020**, 361, 114020	6.7	15
118	Characterizing anisotropic scale-specific variations in soil salinity from a reclaimed marshland in China. *Catena*, **2015**, 131, 64-73	5.8	14
117	National-Scale Variation and Propagation Characteristics of Meteorological, Agricultural, and Hydrological Droughts in China. *Remote Sensing*, **2020**, 12, 3407	5	14
116	Soil Water Measurement Using Actively Heated Fiber Optics at Field Scale. *Sensors*, **2018**, 18,	3.8	14
115	Updated information on soil salinity in a typical oasis agroecosystem and desert-oasis ecotone: Case study conducted along the Tarim River, China. *Science of the Total Environment*, **2020**, 716, 135387	10.2	14
114	Small alarmones (p)ppGpp regulate virulence associated traits and pathogenesis of Salmonella enterica serovar Typhi. *Cellular Microbiology*, **2019**, 21, e13034	3.9	13
113	Response of leaf stoichiometry of Oxytropis ochrocephala to elevation and slope aspect. *Catena*, **2020**, 194, 104772	5.8	13

112	Characterizing scale- and location-specific variation in non-linear soil systems using the wavelet transform. *European Journal of Soil Science*, **2013**, 64, 706-715	3.4	13
111	Spatial relationship between soil hydraulic and soil physical properties in a farm field. *Canadian Journal of Soil Science*, **2009**, 89, 473-488	1.4	13
110	Shuffled Frog-Leaping Algorithm for Optimal Design of Open Channels. *Journal of Irrigation and Drainage Engineering - ASCE*, **2016**, 142, 06016008	1.1	13
109	Predicting soil texture from smartphone-captured digital images and an application. *Geoderma*, **2020**, 376, 114562	6.7	12
108	Curvelet transform to study scale-dependent anisotropic soil spatial variation. *Geoderma*, **2014**, 213, 589-599	6.7	12
107	Arsenic contamination in soil-water-plant (rice, Oryza sativa L.) continuum in central and sub-mountainous Punjab, India. *Bulletin of Environmental Contamination and Toxicology*, **2012**, 89, 1046-50	2.7	12
106	Comparison of spectral and spatial-based approaches for mapping the local variation of soil moisture in a semi-arid mountainous area. *Science of the Total Environment*, **2020**, 724, 138319	10.2	12
105	Comparison of different irrigation methods to synergistically improve maize yield, water productivity and economic benefits in an arid irrigation area. *Agricultural Water Management*, **2021**, 243, 106497	5.9	12
104	Legacy data-based national-scale digital mapping of key soil properties in India. *Geoderma*, **2021**, 381, 114684	6.7	12
103	Socio-ecological determinants on spatio-temporal changes of groundwater in the Yellow River Basin, China. *Science of the Total Environment*, **2020**, 731, 138725	10.2	11
102	Hydrological Responses to Various Land Use, Soil and Weather Inputs in Northern Lake Erie Basin in Canada. *Water (Switzerland)*, **2018**, 10, 222	3	11
101	Actively heated fiber optics method to monitor three-dimensional wetting patterns under drip irrigation. *Agricultural Water Management*, **2018**, 210, 243-251	5.9	11
100	Separating Scale-Specific Spatial Variability in Two Dimensions using Bi-Dimensional Empirical Mode Decomposition. *Soil Science Society of America Journal*, **2013**, 77, 1991-1995	2.5	11
99	Spatial variability of soil thermal properties and their relationships with physical properties at field scale. *Soil and Tillage Research*, **2019**, 193, 50-58	6.5	10
98	Current challenges: from the path of "original antigenic sin" towards the development of universal flu vaccines. *International Reviews of Immunology*, **2020**, 39, 21-36	4.6	10
97	Land Surface Ecological Status Composition Index (LSESCI): A novel remote sensing-based technique for modeling land surface ecological status. *Ecological Indicators*, **2021**, 123, 107375	5.8	10
96	Currents Status, Challenges, and Future Directions in Identifying Critical Source Areas for Non-Point Source Pollution in Canadian Conditions. *Agriculture (Switzerland)*, **2020**, 10, 468	3	9
95	Identifying effects of local and nonlocal factors of soil water storage using cyclical correlation analysis. *Hydrological Processes*, **2012**, 26, 3669-3677	3.3	9

94	Quantifying Root-Soil Interactions in Cover Crop Systems: A Review. *Agriculture (Switzerland)*, **2021**, 11, 218	3	9
93	The Effects of Forest Fire on Soil Organic Matter and Nutrients in Boreal Forests of North America: A Review **2017**, 465-476		8
92	Characterizing soil particle sizes using wavelet analysis of microscope images. *Computers and Electronics in Agriculture*, **2018**, 148, 217-225	6.5	8
91	Review?Potentiometric Determination of Phosphate Using Cobalt: A Review. *Journal of the Electrochemical Society*, **2020**, 167, 127507	3.9	8
90	A comprehensive review of ephemeral gully erosion models. *Catena*, **2020**, 195, 104901	5.8	8
89	Microscope-based computer vision to characterize soil texture and soil organic matter. *Biosystems Engineering*, **2016**, 152, 41-50	4.8	8
88	Delineating soil management zones using a proximal soil sensing system in two commercial potato fields in New Brunswick, Canada. *Canadian Journal of Soil Science*, **2018**, 98, 724-737	1.4	8
87	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. *Environmental Development*, **2021**, 39, 100641	4.1	8
86	A comparison of conventional and wavelet transform based methods for streamflow record extension. *Journal of Hydrology*, **2020**, 582, 124503	6	7
85	Rotavirus activates a noncanonical ATM-Chk2 branch of DNA damage response during infection to positively regulate viroplasm dynamics. *Cellular Microbiology*, **2020**, 22, e13149	3.9	7
84	Field Water Balance Closure with Actively Heated Fiber-Optics and Point-Based Soil Water Sensors. *Water (Switzerland)*, **2019**, 11, 135	3	7
83	Identifying the dominant effects of climate and land use change on soil water balance in deep loessial vadose zone. *Agricultural Water Management*, **2021**, 245, 106637	5.9	7
82	Interactive role of topography and best management practices on N2O emissions from agricultural landscape. *Soil and Tillage Research*, **2021**, 212, 105063	6.5	7
81	Proximal sensing of soil particle sizes using a microscope-based sensor and bag of visual words model. *Geoderma*, **2019**, 351, 144-152	6.7	6
80	Temporal instability of soil moisture at a hillslope scale under subtropical hydroclimatic conditions. *Catena*, **2020**, 187, 104362	5.8	6
79	Effect of multi-temporal satellite images on soil moisture prediction using a digital soil mapping approach. *Geoderma*, **2021**, 385, 114901	6.7	6
78	Short-Term Carbon Sequestration and Changes of Soil Organic Carbon Pools in Rice under Integrated Nutrient Management in India. *Agriculture (Switzerland)*, **2021**, 11, 348	3	6
77	Impact of climate change and crop management on cotton phenology based on statistical analysis in the main-cotton-planting areas of China. *Journal of Cleaner Production*, **2021**, 298, 126750	10.3	6

76	Multi-algorithm comparison to predict soil organic matter and soil moisture content from cell phone images. *Geoderma*, **2021**, 385, 114863	6.7	6
75	Topography Controls N2O Emissions Differently during Early and Late Corn Growing Season. *Agronomy*, **2021**, 11, 187	3.6	6
74	Scoping for scale-dependent relationships between proximal gamma radiometrics and soil properties. *Catena*, **2017**, 154, 40-49	5.8	5
73	Clustering Tools for Integration of Satellite Remote Sensing Imagery and Proximal Soil Sensing Data. *Remote Sensing*, **2019**, 11, 1036	5	5
72	Identifying hotspots and representative monitoring area of groundwater changes with time stability analysis. *Science of the Total Environment*, **2019**, 667, 419-426	10.2	5
71	Baseline soil characterisation of active landfill sites for future restoration and development in the state of Kuwait. *International Journal of Environmental Science and Technology*, **2020**, 17, 4407-4418	3.3	5
70	Potential groundwater recharge from deep drainage of irrigation water. *Science of the Total Environment*, **2020**, 716, 137105	10.2	5
69	Application of Multifractal and Joint Multifractal Analysis in Examining Soil Spatial Variation: A Review **2012**,		5
68	MODELING THE IMPACT OF SURFACE CHARACTERISTICS ON THE NEAR SURFACE TEMPERATURE LAPSE RATE. *International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives*, XLII-4/W18, 395-399	2.5	5
67	Fractal behavior of soil water storage at multiple depths. *Nonlinear Processes in Geophysics*, **2016**, 23, 269-284	2.9	5
66	Electrochemical Mechanisms in Potentiometric Phosphate Sensing Using Pure Cobalt, Molybdenum and their Alloy for Environmental Applications. *Electroanalysis*, **2021**, 33, 421-430	3	5
65	In-Situ Estimation of Soil Water Retention Curve in Silt Loam and Loamy Sand Soils at Different Soil Depths. *Sensors*, **2021**, 21,	3.8	5
64	Analysis of Four Delineation Methods to Identify Potential Management Zones in a Commercial Potato Field in Eastern Canada. *Agronomy*, **2021**, 11, 432	3.6	5
63	Predicting the mobile water content of vineyard soils in New South Wales, Australia. *Agricultural Water Management*, **2015**, 148, 34-42	5.9	4
62	Field-Scale Characterization of Spatio-Temporal Variability of Soil Salinity in Three Dimensions. *Remote Sensing*, **2020**, 12, 4043	5	4
61	Scaling analysis of soil water storage with missing measurements using the second-generation continuous wavelet transform. *European Journal of Soil Science*, **2014**, 65, 594-604	3.4	4
60	Greenhouse gas flux with reflooding of a drained salt marsh soil. *PeerJ*, **2018**, 6, e5659	3.1	4
59	Estimating Aboveground Net Primary Production (ANPP) Using Landsat 8-Based Indices: A Case Study From Hir-Neur Rangelands, Iran. *Rangeland Ecology and Management*, **2020**, 73, 649-657	2.2	4

No.	Title	IF	Cites
58	Land use and mineral fertilization influence soil microbial biomass and residues: A case study of a Chinese Mollisol. *European Journal of Soil Biology*, **2020**, 100, 103216	2.9	4
57	Automatic Detection of Plant Rows for a Transplanter in Paddy Field Using Faster R-CNN. *IEEE Access*, **2020**, 8, 147231-147240	3.5	4
56	On China's Qinghai-Tibetan Plateau, duration of grazing exclosure alters R:S ratio, root morphology and attending root biomass. *Soil and Tillage Research*, **2021**, 209, 104969	6.5	4
55	High-resolution prediction of the spatial distribution of PM2.5 concentrations in China using a long short-term memory model. *Journal of Cleaner Production*, **2021**, 297, 126493	10.3	4
54	Projection of the climate change effects on soil water dynamics of summer maize grown in water repellent soils using APSIM and HYDRUS-1D models. *Computers and Electronics in Agriculture*, **2021**, 185, 106142	6.5	4
53	Recognition of different yield potentials among rain-fed wheat fields before harvest using remote sensing. *Agricultural Water Management*, **2021**, 245, 106611	5.9	4
52	Measurements and modeling of hydrological responses to summer pruning in dryland apple orchards. *Journal of Hydrology*, **2021**, 594, 125651	6	4
51	Evaluation of Desertification Severity in El-Farafra Oasis, Western Desert of Egypt: Application of Modified MEDALUS Approach Using Wind Erosion Index and Factor Analysis. *Land*, **2022**, 11, 54	3.5	4
50	A Review of Ongoing Advancements in Soil and Water Assessment Tool (SWAT) for Nitrous Oxide (N2o) Modeling. *Atmosphere*, **2020**, 11, 450	2.7	3
49	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. *Forest Ecology and Management*, **2020**, 474, 118285	3.9	3
48	Extracting soil water storage pattern using a self-organizing map. *Geoderma*, **2012**, 177-178, 18-26	6.7	3
47	Dynamics of Vegetation Greenness and Its Response to Climate Change in Xinjiang over the Past Two Decades. *Remote Sensing*, **2021**, 13, 4063	5	3
46	A Methodological Framework to Retrospectively Obtain Downscaled Precipitation Estimates over the Tibetan Plateau. *Remote Sensing*, **2018**, 10, 1974	5	3
45	A meta-analysis of the possible impact of climate change on global cotton yield based on crop simulation approaches. *Agricultural Systems*, **2021**, 193, 103221	6.1	3
44	Grassland grazing management altered soil properties and microbial ⊠diversity but not ⊠diversity on the Qinghai-Tibetan Plateau. *Applied Soil Ecology*, **2021**, 167, 104032	5	3
43	In-beam spectroscopic study of Zn63. *Physical Review C*, **2019**, 100,	2.7	2
42	Detecting nonlinearity in the spatial series of nitrous oxide emission by delay vector variance. *Geoderma*, **2018**, 317, 23-31	6.7	2
41	Time Stability of Soil Water Content **2013**,		2

40	A framework for determining the total salt content of soil profiles using time-series Sentinel-2 images and a random forest-temporal convolution network. *Geoderma*, **2022**, 409, 115656	6.7	2
39	Phage Types of 01 Biotype ElTor Strains Isolated from India during 2012-2017. *Journal of Global Infectious Diseases*, **2020**, 12, 94-100	2.8	2
38	Phosphorus loss assessment tools: a review of underlying concepts and applicability in cold climates. *Environmental Science and Pollution Research*, **2020**, 27, 3794-3802	5.1	2
37	Long-term application of fertilizer and manures affect P fractions in Mollisol. *Scientific Reports*, **2020**, 10, 14793	4.9	2
36	Are heavy metals in urban garden soils linked to vulnerable populations? A case study from Guelph, Canada. *Scientific Reports*, **2021**, 11, 11286	4.9	2
35	Matrix lumican endocytosed by immune cells controls receptor ligand trafficking to promote TLR4 and restrict TLR9 in sepsis. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	2
34	Predicting bulk density in deep unsaturated soils based on multiple scale decomposition. *Geoderma*, **2021**, 385, 114859	6.7	2
33	Land Degradation and Development Processes and Their Response to Climate Change and Human Activity in China from 1982 to 2015. *Remote Sensing*, **2021**, 13, 3516	5	2
32	Modeling potential habitats and predicting habitat connectivity for Leucanthemum vulgare Lam. in northwestern rangelands of Iran.. *Environmental Monitoring and Assessment*, **2022**, 194, 109	3.1	1
31	Instant and Mobile Electrochemical Quantification of Inorganic Phosphorus in Soil Extracts. *Journal of the Electrochemical Society*, **2020**, 167, 167512	3.9	1
30	Digital soil modelling The potential role of pedogenesis modelling in digital soil mapping **2012**, 145-150		1
29	Cover crop mixtures: A powerful strategy to reduce post-harvest surplus of soil nitrate and leaching. *Agriculture, Ecosystems and Environment*, **2022**, 325, 107750	5.7	1
28	Soil Sensing. *Progress in Precision Agriculture*, **2021**, 93-132		1
27	Climate Mediated Changes in Permafrost and Their Effects on Natural and Human Environments **2017**, 477-512		1
26	Scale and location dependent time stability of soil water storage in a maize cropped field. *Catena*, **2020**, 188, 104420	5.8	1
25	Seasonal Dynamics of Leaf Stoichiometry of : A Case Study From Yangguan Wetland, Dunhuang, China. *Plants*, **2020**, 9,	4.5	1
24	Toward digital agricultural mapping in Africa: evidence of Northern Nigeria. *Arabian Journal of Geosciences*, **2021**, 14, 1	1.8	1
23	Quantifying the effect of surface heterogeneity on soil moisture across regions and surface characteristic. *Journal of Hydrology*, **2021**, 596, 126132	6	1

#	Reference	Impact	Citations
22	Tapping the immunological imprints to design chimeric SARS-CoV-2 vaccine for elderly population. *International Reviews of Immunology*, **2021**, 1-16	4.6	1
21	The Frontiers in Soil Science Research: An African Perspective **2021**, 623-635		1
20	Analysis of Spatial and Temporal Characteristics and Spatial Flow Process of Soil Conservation Service in Jinghe Basin of China. *Sustainability*, **2021**, 13, 1794	3.6	1
19	Transient potential groundwater recharge under surface irrigation in semiarid environment: An experimental and numerical study. *Hydrological Processes*, **2018**, 32, 3771-3783	3.3	1
18	A machine learning approach for spatiotemporal imputation of MODIS chlorophyll-a. *International Journal of Remote Sensing*, **2021**, 42, 7381-7404	3.1	1
17	Identifying hotspots and representative monitoring locations of field scale NO emissions from agricultural soils: A time stability analysis. *Science of the Total Environment*, **2021**, 788, 147955	10.2	1
16	High-density proximal soil sensing data and topographic derivatives to characterise field variability. *Biosystems Engineering*, **2021**, 211, 19-34	4.8	1
15	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. *ISPRS Journal of Photogrammetry and Remote Sensing*, **2022**, 187, 141-158	11.8	1
14	Comparison of sampling designs for calibrating digital soil maps at multiple depths. *Pedosphere*, **2022**, 32, 588-601	5	1
13	Improving remote sensing of salinity on topsoil with crop residues using novel indices of optical and microwave bands. *Geoderma*, **2022**, 422, 115935	6.7	1
12	Long-term continuous cropping affects ecoenzymatic stoichiometry of microbial nutrient acquisition: a case study from a Chinese Mollisol. *Journal of the Science of Food and Agriculture*, **2021**, 101, 6338-6346	4.3	0
11	Paper-polished carbon screen-printed electrodes increase reusability and enhance performance in phosphomolybdate electrochemical detection. *Journal of Electroanalytical Chemistry*, **2021**, 890, 115229	4.1	0
10	Effect of grazing exclusion on soil and vegetation characteristics in desert steppe rangelands: a case study from north-western Iran. *Arid Land Research and Management*, **2021**, 35, 213-229	1.8	0
9	Impacts of land-use changes on the variability of microbiomes in soil profiles. *Journal of the Science of Food and Agriculture*, **2021**, 101, 5056-5066	4.3	0
8	Elevation Alone Alters Leaf N and Leaf C to N Ratio of Picea crassifolia Kom. in China's Qilian Mountains. *Forests*, **2021**, 12, 1325	2.8	0
7	Response of different organs stoichiometry of Phragmites australis to soil salinity in arid marshes, China. *Global Ecology and Conservation*, **2021**, e01843	2.8	0
6	Leaf Stoichiometry of Across Elevations in China's Qilian Mountains.. *Frontiers in Plant Science*, **2022**, 13, 814059	6.2	0
5	Seasonal agricultural wetlands act as potential source of N2O and CH4 emissions. *Catena*, **2022**, 213, 106184	5.8	0

LIST OF PUBLICATIONS

4	Targeted biochar application alters physical, chemical, hydrological and thermal properties of salt-affected soils under cotton-sugarbeet intercropping. *Catena*, **2022**, 216, 106414	5.8	0
3	From Passion to Profession: The Journey of SSSA's Early Career Award Winner. *CSA News*, **2019**, 64, 32-33	1.1	
2	Biochar Role in Mitigation of Greenhouse Gas Emissions from Agricultural Soils **2021**, 261-278		
1	Differences in Spatiotemporal Variability of Potential and Reference Crop Evapotranspirations. *Water (Switzerland)*, **2022**, 14, 988		3