

Bhabani S Das

List of Publications by Citations

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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.

73
papers

2,163
citations

22
h-index

45
g-index

75
ext. papers

2,634
ext. citations

4.6
avg, IF

4.86
L-index

#	Paper	IF	Citations
73	Soil carbon 4 per mille. <i>Geoderma</i> , 2017 , 292, 59-86	6.7	803
72	Sorption and degradation of steroid hormones in soils during transport: column studies and model evaluation. <i>Environmental Science & Technology</i> , 2004 , 38, 1460-70	10.3	138
71	Error Analysis of Heat Pulse Method for Measuring Soil Heat Capacity, Diffusivity, and Conductivity. <i>Soil Science Society of America Journal</i> , 1995 , 59, 719-726	2.5	110
70	Estimation of soil hydraulic properties using proximal spectral reflectance in visible, near-infrared, and shortwave-infrared (VIS-NIR-SWIR) region. <i>Geoderma</i> , 2009 , 152, 338-349	6.7	55
69	Dual-domain solute transfer and transport processes: evaluation in batch and transport experiments. <i>Journal of Contaminant Hydrology</i> , 2004 , 75, 257-80	3.9	54
68	Measurement and modeling of soil water regime in a lowland paddy field showing preferential transport. <i>Agricultural Water Management</i> , 2009 , 96, 1705-1714	5.9	47
67	Greenhouse gas emission from direct seeded paddy fields under different soil water potentials in Eastern India. <i>Agriculture, Ecosystems and Environment</i> , 2016 , 228, 111-123	5.7	46
66	Pedotransfer functions for soil hydraulic properties developed from a hilly watershed of Eastern India. <i>Geoderma</i> , 2008 , 146, 439-448	6.7	39
65	Effects of water deficit stress on agronomic and physiological responses of rice and greenhouse gas emission from rice soil under elevated atmospheric CO ₂ . <i>Science of the Total Environment</i> , 2019 , 650, 2032-2050	10.2	39
64	Estimation of weathering indices using spectral reflectance over visible to mid-infrared region. <i>Geoderma</i> , 2016 , 266, 111-119	6.7	35
63	Physiological and morphological responses of four different rice cultivars to soil water potential based deficit irrigation management strategies. <i>Field Crops Research</i> , 2017 , 205, 78-94	5.5	33
62	Variable indicators for optimum wavelength selection in diffuse reflectance spectroscopy of soils. <i>Geoderma</i> , 2016 , 267, 1-9	6.7	33
61	Diffuse Reflectance Spectroscopic Approach for the Characterization of Soil Aggregate Size Distribution. <i>Soil Science Society of America Journal</i> , 2014 , 78, 369-376	2.5	31
60	Pore Water Velocity and Residence Time Effects on the Degradation of 2,4-D during Transport. <i>Environmental Science & Technology</i> , 1998 , 32, 1308-1315	10.3	30
59	Soil water potential and recoverable water stress in drought tolerant and susceptible rice varieties. <i>Agricultural Water Management</i> , 2015 , 152, 110-118	5.9	28
58	Rejoinder to Comments on Minasny et al., 2017 Soil carbon 4 per mille <i>Geoderma</i> 292, 5986. <i>Geoderma</i> , 2018 , 309, 124-129	6.7	26
57	Dependency Measures for Assessing the Covariation of Spectrally Active and Inactive Soil Properties in Diffuse Reflectance Spectroscopy. <i>Soil Science Society of America Journal</i> , 2014 , 78, 1522-1530	2.5	25

56	Rapid assessment of black tea quality using diffuse reflectance spectroscopy. <i>Journal of Food Engineering</i> , 2016 , 190, 101-108	6	24
55	Predicting soil arsenic pools by visible near infrared diffuse reflectance spectroscopy. <i>Geoderma</i> , 2017 , 296, 30-37	6.7	23
54	Performance of polymer-coated urea in transplanted rice: effect of mixing ratio and water input on nitrogen use efficiency. <i>Paddy and Water Environment</i> , 2010 , 8, 189-198	1.6	23
53	A simple bund plugging technique for improving water productivity in wetland rice. <i>Soil and Tillage Research</i> , 2011 , 112, 66-75	6.5	22
52	Nitrate Concentrations in the Root Zone Estimated Using Time Domain Reflectometry. <i>Soil Science Society of America Journal</i> , 1999 , 63, 1561-1570	2.5	22
51	MODELING TRANSIENT WATER DISTRIBUTIONS AROUND LANDMINES IN BARE SOILS. <i>Soil Science</i> , 2001 , 166, 163-173	0.9	21
50	Moment Analysis to Estimate Degradation Rate Constants from Leaching Experiments. <i>Soil Science Society of America Journal</i> , 1996 , 60, 1724-1731	2.5	21
49	Hyperspectral image preprocessing with bilateral filter for improving the classification accuracy of support vector machines. <i>Journal of Applied Remote Sensing</i> , 2016 , 10, 025004	1.4	21
48	Assessment of soil texture from spectral reflectance data of bulk soil samples and their dry-sieved aggregate size fractions. <i>Geoderma</i> , 2019 , 337, 914-926	6.7	21
47	Soil mapping via diffuse reflectance spectroscopy based on variable indicators: An ordered predictor selection approach. <i>Geoderma</i> , 2018 , 314, 146-159	6.7	21
46	TEMPERATURE DEPENDENCE OF NITROGEN MINERALIZATION RATE CONSTANT. <i>Soil Science</i> , 1995 , 159, 294-300	0.9	19
45	Optimizing wavelength selection by using informative vectors for parsimonious infrared spectra modelling. <i>Computers and Electronics in Agriculture</i> , 2019 , 158, 201-210	6.5	19
44	Assessing the effect of puddling on preferential flow processes through under bund area of lowland rice field. <i>Soil and Tillage Research</i> , 2013 , 134, 61-71	6.5	18
43	Semiquantitative Evaluation of Secondary Carbonates via Portable X-ray Fluorescence Spectrometry. <i>Soil Science Society of America Journal</i> , 2017 , 81, 844-852	2.5	16
42	Local modeling approaches for estimating soil properties in selected Indian soils using diffuse reflectance data over visible to near-infrared region. <i>Geoderma</i> , 2018 , 325, 59-71	6.7	16
41	Rapid estimation of compost enzymatic activity by spectral analysis method combined with machine learning. <i>Waste Management</i> , 2014 , 34, 623-31	8.6	16
40	Effects of elevated CO ₂ concentration on water productivity and antioxidant enzyme activities of rice (<i>Oryza sativa</i> L.) under water deficit stress. <i>Field Crops Research</i> , 2017 , 212, 61-72	5.5	16
39	Modeling runoff from an agricultural watershed of western catchment of Chilika lake through ArcSWAT. <i>Journal of Hydro-Environment Research</i> , 2013 , 7, 261-269	2.3	16

38	Monitoring soil water and ionic solute distributions using time-domain reflectometry. <i>Soil and Tillage Research</i> , 1998 , 47, 145-150	6.5	16
37	Defining Geometric Similarity in Soils. <i>Vadose Zone Journal</i> , 2005 , 4, 264-270	2.7	16
36	Rapid assessment of algal biomass and pigment contents using diffuse reflectance spectroscopy and chemometrics. <i>Algal Research</i> , 2017 , 27, 274-285	5	14
35	Soil hydraulic properties as ecological indicators in forested watersheds impacted by mechanized military training. <i>Ecological Indicators</i> , 2007 , 7, 589-597	5.8	13
34	Evaluation of Mass Recovery Impacts on Transport Parameters Using Least-Squares Optimization and Moment Analysis. <i>Soil Science Society of America Journal</i> , 2005 , 69, 1209-1216	2.5	13
33	Legacy data-based national-scale digital mapping of key soil properties in India. <i>Geoderma</i> , 2021 , 381, 114684	6.7	12
32	Spatial prediction of soil properties in a watershed scale through maximum likelihood approach. <i>Environmental Earth Sciences</i> , 2012 , 65, 2051-2061	2.9	11
31	Application of VIS-NIR spectroscopy for estimation of soil organic carbon using different spectral preprocessing techniques and multivariate methods in the middle Indo-Gangetic plains of India. <i>Geoderma Regional</i> , 2020 , 23, e00349	2.7	11
30	Reflectance spectroscopic approach for estimation of soil properties in hot arid western Rajasthan, India. <i>Environmental Earth Sciences</i> , 2015 , 74, 4233-4245	2.9	10
29	Canopy Spectral Reflectance as a Predictor of Soil Water Potential in Rice. <i>Water Resources Research</i> , 2018 , 54, 2544-2560	5.4	10
28	Discrete Wavelet Transform Approach for the Estimation of Crop Residue Mass From Spectral Reflectance. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014 , 7, 2490-2495	4.7	10
27	Delineation of hydrologically similar units in a watershed based on fuzzy classification of soil hydraulic properties. <i>Hydrological Processes</i> , 2011 , 25, 64-79	3.3	10
26	Rapid and Noninvasive Assessment of Atterberg Limits Using Diffuse Reflectance Spectroscopy. <i>Soil Science Society of America Journal</i> , 2016 , 80, 1283-1295	2.5	10
25	Near infrared diffuse reflectance spectroscopy for rapid and comprehensive soil condition assessment in smallholder cacao farming systems of Papua New Guinea. <i>Catena</i> , 2019 , 183, 104185	5.8	9
24	Hydrus-1D model for simulating water flow through paddy soils under alternate wetting and drying irrigation practice. <i>Paddy and Water Environment</i> , 2020 , 18, 73-85	1.6	9
23	Estimation of Gross Calorific Value of Bituminous Coal using various Coal Properties and Reflectance Spectra. <i>International Journal of Coal Preparation and Utilization</i> , 2019 , 1-7	1.2	7
22	Assessment of cocoa input needs using soil types and soil spectral analysis. <i>Soil Use and Management</i> , 2019 , 35, 492-502	3.1	7
21	Digital Soil Mapping and Best Management of Soil Resources: A Brief Discussion with Few Case Studies 2017 , 3-38		5

20	Application of Phosphorus, Iron, and Silicon Reduces Yield Loss in Rice Exposed to Water Deficit Stress. <i>Agronomy Journal</i> , 2019 , 111, 1488-1497	2.2	5
19	Comparison of Data Mining Approaches for Estimating Soil Nutrient Contents Using Diffuse Reflectance Spectroscopy. <i>Current Science</i> , 2016 , 110, 1031	2.2	5
18	Living with arsenic in the environment: An examination of current awareness of farmers in the Bengal basin using hybrid feature selection and machine learning. <i>Environment International</i> , 2021 , 153, 106529	12.9	4
17	An Ensemble Modeling Approach for Estimating Diffusive Tortuosity for Saturated Soils From Porosity. <i>Soil Science</i> , 2017 , 182, 45-51	0.9	3
16	Measurement and Modeling of Diffusive Tortuosity in Saturated Soils: A Pedotransfer Function Approach. <i>Soil Science Society of America Journal</i> , 2014 , 78, 1869-1877	2.5	3
15	Theory and Applications of Time Moment Analysis to Study the Fate of Reactive Solutes in Soil 2002 , 239-279		3
14	Reflectance spectroscopy based rapid determination of coal quality parameters. <i>Fuel</i> , 2020 , 280, 118676	7.1	3
13	Spatial structure, parameter nonlinearity, and intelligent algorithms in constructing pedotransfer functions from large-scale soil legacy data. <i>Scientific Reports</i> , 2020 , 10, 15050	4.9	3
12	Evaluation of regression algorithms for estimating leaf area index and canopy water content from water stressed rice canopy reflectance. <i>Information Processing in Agriculture</i> , 2021 , 8, 284-298	4.2	3
11	Measurement and Modeling of Longitudinal Dispersivity in Undisturbed Saturated Soil: An Experimental Approach. <i>Soil Science Society of America Journal</i> , 2018 , 82, 1117-1123	2.5	3
10	Hydrus-1D for Simulating Potassium Transport in Flooded Paddy Soils. <i>Communications in Soil Science and Plant Analysis</i> , 1-18	1.5	2
9	Climate-catchment-soil control on hydrological droughts in peninsular India.. <i>Scientific Reports</i> , 2022 , 12, 8014	4.9	2
8	Temperature Dependence of Soil Hydraulic Properties: Transient Measurements and Modeling. <i>Soil Science Society of America Journal</i> , 2019 , 83, 1628-1636	2.5	1
7	Variance of Aggregate Size Distribution as a Criterion for Soil Similarity. <i>Vadose Zone Journal</i> , 2015 , 14, vzt2015.05.0072	2.7	1
6	Cumulants-Based Analysis of Concentration Data from Soil-Column Studies for System Identification. <i>Journal of Hydrologic Engineering - ASCE</i> , 1996 , 1, 41-48	1.8	1
5	Assessment of Soil Properties using Spectral Signatures of Bulk Soils and Their Aggregate Size Fractions. <i>Geoderma</i> , 2022 , 417, 115837	6.7	1
4	Assessment of Runoff and Sediment Yield from Selected Watersheds in the Western Catchment of the Chilika Lagoon. <i>Wetlands: Ecology, Conservation and Management</i> , 2020 , 133-164	0.4	0
3	Estimation of soil texture using Sentinel-2 multispectral imaging data: An ensemble modeling approach. <i>Soil and Tillage Research</i> , 2021 , 213, 105134	6.5	0

- 2 Diffuse reflectance spectroscopy based rapid coal rank estimation: A machine learning enabled framework. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 263, 120150 4.4 ○
- 1 New geometry factors for hydraulic property-based soil solution electrical conductivity models. *Water Resources Research*, **2000**, 36, 3383-3387 5.4