

ICAR NBSS&LUP PUBLICATIONS 2013-2014

Research Publications having NAAS rating > 6.0

1.	Dinesh, R. and Ghoshal Chaudhuri, S. 2013. Soil biochemical / microbial indices as ecological indicators of land use change in mangrove forest. <i>Ecological Indicators</i> , 32 :253-258.	9.19
2.	Gupta Choudhury, S., Srivastava, S., Singh, R., Chaudhari, S. K., Sharma, D. K., Singh, S. K., Sarkar, D. 2014. Tillage and residue management effects on soil aggregation, organic carbon dynamics and yield attribute in rice-wheat cropping system under reclaimed sodic soil. <i>Soil and Tillage Research</i> , 36 :76-83.	8.71
3.	Singh, U. B., Sahu, A., Sahu, N., Singh, R.K., Singh, R. Dinesh K., Singh, B. P., Jaiswal, R.K., Singh, D. P., Rai, J.P., Manna, M.C., Singh, K.P., Srivastava, J.S., Subba Rao, A., Rajendra Prasad, S. 2013. Nematophagous fungi: <i>Catenaria anguillulae</i> and <i>Dactylaria brochopaga</i> from seed galls as potential biocontrol agents of <i>Anguina tritici</i> and <i>Meloidogyne graminicola</i> in wheat (<i>Triticum aestivum</i> L.). <i>Biological Control</i> , 67 :475-482.	8.01
4.	Reza, S.K., Baruah, U., Chattopadhyay, T. and Sarkar, D. 2014. Distribution of forms of potassium in relation to different agroecological regions of North-Eastern India. <i>Archives of Agronomy and Soil Science</i> (DOI:10.1080/03650340.2013.800943).	7.12
5.	Bhattacharyya T., Pal, D.K., Mandal, C., Chandran, P., Ray, S.K., Sarkar, D., Velmourougane, K., Srivastava, A., Sidhu, G.S., Singh, R.S., Sahoo, A.K., Dutta, D., Nair, K.M., Srivastava, R., Tiwary, P., Nagar, A.P. and Nimkhedkar, S.S. 2013. Soils of India: historical perspective, classification and recent advances (review article). <i>Current Science</i> , 104 :1308-1323.	6.97
6.	Singh, S. K., Sidhu, G. S., Gupta Choudhury, S., Pandey, C. B., Banerjee, T. Sarkar, D. 2014. Soil organic carbon density in arable and non-arable lands under varied soil moisture and temperature regimes in cold arid to sub-tropical areas of Western Himalaya, India. <i>Arid Land Research and Management</i> , 28 :169-185.	6.75
7.	Rao, S.S., Dinesh Kumar, S., Das, S.N., Nagaraju, M.S.S., Venugopalan, M.V., Rajankar, P., Laghate, P., Reddy S., Joshi, A.K. and Sharma, J.R. 2013. Modified Dubois model for estimating soil moisture with dual polarimetric SAR data. <i>Journal of the Indian Society of Remote Sensing</i> , 41 : 865-872.	6.68
8.	Banerjee, T., Das, K., Singh, S.K and Sarkar, D. 2013. Microwatershed in Chotanagpur Plateau, West Bengal, India- evaluation of Sabai Grass as alternate farming options. <i>Range Management & Agroforestry</i> , 34 :122-126.	6.39

9.	Singh, D., Bhaskar, B. P., Baruah, U. and Sarkar, D. 2014. Agro- economic analysis of sustainable cropping patterns in hydric rice fallows of upper Brahmaputra valley, Asom. <i>Indian Journal of Agricultural Sciences</i> , 84 : 385–390.	6.17
10.	Singh, D., Bhaskar, B.P., Baruah, U., Sarkar, D. and Vadivelu, S. 2013. Economic Appraisal of rice (<i>oryza sativa</i>) based cropping sequences in major soil series of upper Asom. <i>Indian Journal of Agricultural Sciences</i> , 83 :326-330.	6.17
11.	Karthikeyan K. Pushpanjali, Jagdish Prasad and Sarkar, D. 2013. Suitability and productivity assessment of soybean (<i>Glycine max</i> L) – growing soils of Dhardistrict, Madhya Pradesh, India. <i>Legume Research</i> , 36 :442-447.	6.15

2013-14

Research Publications having NAAS rating < 6.0

12.	Singh, D., Bhaskar, B.P., Baruah, U. and Sarkar, D. 2013. Soil analogy for making varietal and fertilizer recommendations for rice (<i>Oryza sativa</i>) Cultivars in Brahmaputra valley, Assam. <i>Indian Journal of Agronomy</i> , 58 :21-25.	5.46
13.	Rajula Shanthi, T., Singh, M., Sahu, N., Surekha, M. Balaji Rajkumar, Gopala Sundara Raj, S., De, Kalyan, and Ramachandran, S. 2013. Participatory rural appraisal: A holistic approach for getting insight into an agro-ecosystem analysis. <i>Indian Journal of Extension Education</i> , 13 :1-9.	5.32
14.	Dutta D., Bandyopadhyay S., Baruah U. and Sarkar, D. 2013. Use of Taxonomic Approach to Estimate Total Soil Organic Carbon (SOC) Pool Sizes in Meghalaya State, India. <i>Journal of the Indian Society of Soil Science</i> , 61 :237-243.	5.23
15.	Garhwal, R.S., Qureshi, F.M., Giri, J.D., Yadav, R.S. and Singh, R. 2013. Suitability assessment for arable crops in Sirohi district of Rajasthan. <i>Journal of the Indian Society of Soil Science</i> , 61 :141- 143.	5.23
16.	Kar, G., Chattaraj, S. and Ashwani Kumar 2013. Pedo-transfer function for determining soil water retention and assessing their utility in simulation model for predicting rice growth and yield. <i>Journal of the Indian Society of Soil Science</i> , 61 :300-310.	5.23
17.	Nasre, R.A., Nagaraju, M.S.S., Srivastava, R., Maji, A.K. and Barthwal, A. K. 2013. Characterization, classification and evaluation of soils of Karanji watershed, Yavatmal district of Maharashtra for land resource management using geo-spatial technologies. <i>Journal of the Indian Society of Soil Science</i> , 61 :275-286.	5.23
18.	Niranjana, K.V., Anil Kumar, K.S., Koyal, A., Naidu, L.G.K. and	5.23

	Sarkar, D. 2013. Major soils of Pulivedla region, Andhra Pradesh and their constraints. <i>Journal of the Indian Society of Soil Science</i> , 61 :140-142.	
19.	Gangopadhyay S.K., Obi Reddy, G.P., Sarkar, D. 2014. Erosion risk mapping in Perugua micro-watershed of semi-arid tropics of India using remote sensing and GIS. <i>Indian Journal of Soil Conservation</i> , 42 :99-106.	5.20
20.	Patil, N.G., Mandal, C. and Mandal, D.K. (2013) Comparative evaluation of nearest neighbor and neural networks approach to estimate soil water retention at field capacity and permanent wilting point. <i>Indian journal of soil conservation</i> , 41 :25-29.	5.20
21.	Pushpanjali, Karthikeyan, K., Sahu, S.S., Sahoo, A.K. and Sarkar, D. 2013. Delineation and prioritization of Jumar sub-watershed for sustainable development using geospatial techniques. <i>Indian Journal of Soil Conservation</i> , 41 :99-106.	5.20
22.	Nasre, R.A., Nagaraju, M.S.S., Srivastava, Rajeev, Maji, A.K. and Barthwal, A.K. 2013. Soil erosion mapping for land resources management in Karanji watershed of Yavatmal District, Maharashtra using remote sensing and GIS techniques. <i>Indian Journal of Soil Conservation</i> , 41 :248-256.	5.20
23.	Nirmal Kumar, Obi Reddy, G.P., Chatterji, S., Jagdish Prasad and Sarkar, D. 2013. An application of classification and regression tree on qualitative soil survey data for land capability classification. <i>Journal of Soil and Water Conservation</i> 12 :301-306.	5.08
24.	Velmourougane, K., Venugopalan, M.V., Bhattacharyya, T., Sarkar, D., Pal, D. K., Sahu A., Chandran, P., Ray, S. K., Mandal, C., Nair, K. M., Jagdish Prasad, Singh, R. S. and Tiwary, P. 2013. Microbial biomass carbon status in agro-ecological sub-regions of black soil in India. <i>Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.</i> (DOI 10.1007/s40011-013-0238-y).	5.00
25.	Bhattacharyya, T.; Pal, D.K.; Ray, S.K; Chandran, P., Mandal, C.; Deshmukh, A.S.; Telpande, B. and Tiwari, P. 2013. Simulating change in soil organic carbon in two long term fertilizer experiments in India : with the RothC model. <i>Climate Change and Environmental Sustainability</i> , 1 :104-117, 126 (DOI 10.5859/j2320-642X.1.2.010)	4.86
26.	Telpande, B., Bhattacharyya, T., Wankhede, D.M, Jha, P., Tiwari, P., Chandran, P. and Ray, S.K. 2013. Simulating soil organic carbon in high clay in India : DNDC model experience. <i>Climate Change and Environmental Sustainability</i> , 1 :118-126. (DOI 10.5859/j2320-642X.1.2.011).	4.86
27.	Jagdish Prasad 2013. Evaluation of some typical soils of Jalgaon district of Maharashtra for suitability of cotton. <i>Journal of Cotton Research and Development</i> , 27 :242-245.	4.69

28.	Patil, S. D., Sen, T. K., Chatterji, S., Sarkar, D. and Handore, R. 2013. Distribution of DTPA extractable micronutrients in acid soils of Goregaon and Aamgaon tehsil of Gondia district of Maharashtra. <i>Research Journal of Agricultural Sciences</i> , 5 :273-276.	4.54
29.	Verma, T.P., Singh, S.P., Ram Gopal, Katiyar, D.K., Singh, R. and Dhankar, R.P.2014. Characterization and management of soils in semi-arid region of Western Uttar Pradesh for sustainable agriculture. <i>Annals of Plant and Soil Research</i> , 16 :9-14.	4.39
30.	Chattopadhyay, T., Reza, S.K., Nath, D.J., Baruah, U., and Sarkar, D. 2012. Effect of land use on soil microbial biomass carbon and nitrogen content in the soils of Jorhat district, Assam. <i>Agropedology</i> , 22 :119-122.	4.16
31.	Dhanorkar, B.A., Koyal, Arti, Mohekar, D.S., Naidu, L.G.K., Reddy, R.S. and Sarkar, D. 2013. Soil resources assessment for crop planning in Medak district, Andhra Pradesh. <i>Agropedology</i> , 23 :23-29.	4.16
32.	Dutta, D.; Banerjee, T. and Sarkar, D. 2013. Length of growing period assessment in Bankura district for micro-level crop planning. <i>Agropedology</i> , 22 :80-87.	4.16
33.	Garhwal, R.S., Qureshi, F.M. and Giri, J.D. 2013. Characteristics and classification of the soils of Sirohi district of Rajasthan. <i>Agropedology</i> , 23 :8-15.	4.16
34.	Naidu, L.G.K., Ramamurthy V., Srinivas, S., Reddy, R.S. and Sarkar, D. 2013. Need for developing user friendly soil maps: A case study of Andhra Pradesh. <i>Agropedology</i> , 23 :30-35.	4.16
35.	Reza, S.K., Baruah, U., Bandyopadhyay, S., Sarkar, D. and Dutta, D.P. 2012. Characterization of soil acidity under different types of land use systems in Assam. <i>Agropedology</i> , 22 :123-127.	4.16
36.	Sadanshiv, N. S., Chatterji, S., Sen, T.K., Venugopala, M.V., Tiwary, P., Wagh, N.S. and Chaturvedi, A. 2012. Application of Crop Simulation Model for Quantification of yield Gap of Cotton in Wardha district, Maharashtra <i>Agropedology</i> , 22 :74-79.	4.16
37.	Tiwary P., Venugopalan, M.V., Blaise, D., Chatterji, S., Sen, T.K. and Tandulkar, N.R. 2013. Evaluation of sustainability of rainfed cotton yield under conventional and integrated nutrient management practices. <i>Agropedology</i> , 23 :53-58.	4.16
38.	Srinivasan, A., Natarajan, A., Anil Kumar, K.S. and Kalaiavanan, D. 2013. Distribution of available macro and micronutrients in cashew growing soils of Dakshina Kannada District of Coastal Karnataka. <i>Madras Agricultural Journal</i> , 100 :113-117.	3.98
39.	Thakre, P. V., Ray, S.K., Chandran, P., Bhattacharyya, T. and Pal, D. K. 2013. Does sodicity in Vertisols affect the layer-charge of smectites? <i>Clay Research</i> , 32 :76-90.	2.97

40.	Nayak, D. C. and Sarkar, D. 2013. Mineralogy of some benchmark soils of the coastal plain, West Bengal. <i>Clay Research</i> 32 :1-16.	2.97
41.	Anitha, M.S., Anil Kumar, K.S., Nair, K.M., Shivaprasad, C.R., Naidu, L.G.K. and Sarkar, D. 2013. Soil boron and its fractions in agro-climatic zones of Karnataka. <i>Clay Research</i> , 32 :25-33.	2.97
42.	Banerjee, T., Das, A.L. and Mukhopadhyay, S.C. 2011. Prioritisation of Silai subwatersheds for Erosion management using drainage morphometry and soil erosion rates. <i>Geographical Review of India</i> , 73 : 323-338	-
43.	Bhaskar B. P., Sarkar Dipak, Bobade, S. V., Gaikwad, S. S., Anantwar, S. G. 2014. Land evaluation for irrigation in cotton growing Yavatmal District, Maharashtra. <i>International Journal of Research in Agricultural Sciences</i> , 1 (2) ISSN (Online):2348– 3997:128-136.	-
44.	Bhaskar B.P., Sarkar, D., and Baruah, U. 2013. Pedogenesis in rice growing hydric soils of Majuli river island, Assam, India. <i>J. Indian Chem. Soc.</i> 90 :1431-1439.	-
45.	Bhaskar B.P. and Sarkar, D. 2013. Capability and quality assessment of rice growing hydric soils in Majuli river Island, Assam, India. <i>Journal of Agriculture and Environment for International Development</i> , 107 :1-13-32.	-
46.	Bhaskar B.P. and Saxena, R.K. 2013. Soil-landscape relationship in Lohit valley near Tezu, Arunachal Pradesh, India. <i>International Journal of Scientific Research</i> , 12 :55-59.	-
47.	Bhaskar, B.P Sarkar, D. and Baruah, U. 2013. Geochemistry of hydric soils in Majuli river island, Assam, India. <i>J. Indian Chem. Soc.</i> 90 :2279-2283.	-
48.	Dharamurajan, S., Singh, S.K., Banerjee, T. and Sarkar, D. 2013. Water retention characteristics and available water capacity in three cropping systems of lower Indo-Gangetic Alluvial Plain. <i>Communication in Soil and Plant Analysis</i> . DOI:10.1080/00103624.2013.803561.	-
49.	Goswami S.N., Chaturvedi A., Chatterji, S., Patil, N.G., Sen, T.K., Hajare, T.N. and Gawande, R.S. 2013. Least cost diet plan of cows for small dairy farmers of Central India. <i>African Journal of Agricultural Research</i> , 8 :5989-5995.	-
50.	Nirmal Kumar, Obi Reddy, G.P. and Chatterji, S. 2013. Evaluation of best first decision tree on categorical soil survey data for land capability classification. <i>International Journal of Computer Application</i> , 72 : 5-8.	-
51.	Roy, R.P., Jagdish Prasad and Gupta, R. 2012. Assessment of well- water quality for drinking purpose-A case study in Nari area, Nagpur district Maharashtra. <i>Journal of Environmental Science</i>	-

	<i>and Engineering</i> , 54 :420-423.	
52.	Roy, R. P., Jagdish Prasad, Joshi, A.P. and Gupta, R. 2013. Accumulation of heavy metals in soils and radish crop irrigated with wastewater of textile industry in Nagpur district, Maharashtra. <i>Bangladesh Journal of Agriculture and Environment</i> , 9 :25-28.	-
53.	Singh, D., Bhaskar B.P, Baruah U. and Sarkar, D. 2013. Diversification of rice (<i>Oryza sativa</i> L.) based cropping systems for higher productivity and resource use efficiency in major soil series of Upper Brahmaputra valley of Assam. <i>Indian Journal of Dryland Agricultural Research and Development</i> , 28 :26-32.	-
54.	Singh, D., Bhaskar, B.P., Baruah, U. and Sarkar, D. 2013. Diversification of rice (<i>Oryza Sativa</i> L.) based cropping systems for higher productivity and benefits on dominant soil series of upper Brahmaputra Valley, Assam. <i>Annals of Agriculture Research New Series</i> , 34 :1-6.	-
55.	Singh, D., Bhaskar, B.P., Baruah, U. and Sarkar, D. 2013. Production potential of Lahangaon soil series for rice based cropping sequences in riverine floodplains of northeastern India. <i>Annals of Agriculture Research</i> , 34 :269-275.	-
56.	Singh, D., Bhaskar, B.P., Baruah, U. and Sarkar, D. 2014. Diversification of rice (<i>Oryza sativa</i> L.) based cropping systems for higher productivity and benefits on dominant soil series of upper Brahmaputra valley. <i>Annals of Agriculture Research</i> , 35 :37-42.	-
57.	Verma, T. P., Singh, S. P., Ram Gopal and Singh, R. 2014. Nutrient Assessment in Soils of Upper Gangetic Plain to Sustain Soil Productivity. <i>Indian Journal of Fertilizers</i> , 10 :58-63.	-