ICAR NBSS&LUP PUBLICATIONS 2012-2013

Research Publications having NAAS rating > 6.0

1.	Chattaraj, S., Chakraborty, D., Garg, R.N., Singh, G.P., Gupta, V. K., Singh, S. and Singh, R. (2013). Hyperspectral remote sensing for growth-stage-specific water use in wheat. *Field Crops Research,* **144**: 179-191.	8.93
2.	Velmourougane, K., Venugopalan, M.V., Bhattacharyya, T., Sarkar, Dipak, Pal, D. K., Sahu Apeksha, Ray, S. K., Nair, K. M., Prasad Jagdish and Singh, R. S. (2013). Soil dehydrogenase activity in agro- ecological sub regions of black soil regions of India. *Geoderma*,**197- 198**: 186-192.	8.86
3.	Pal, D.K., Bhattacharyya, T., Sinha, R., Srivastava, P., Dasgupta, A.S., Chandran, P., Ray, S.K. and Nimje, A. (2012). Clay minerals record from late Quaternary drill cores of the Ganga Plains and their implications for provenance and climate change in the Himalayan foreland, *Palaeogeography,Palaeoclimatology, Palaeoecology*, **356-357**: 27-37.	8.53
4.	Chaturvedi Arun, Kamble, R., Patil, N. G. and Chaturvedi, Alka (2013) City - Forest relationship in Nagpur, one of the greenest city of India. *Urban Forestry and Urban Greening*, **12**: 79-87. DOI: http://dx.doi.org/10.1016/j.ufug.2012.09.003.	8.01
5.	Patil, N. G., Tiwary, P., Pal, D. K., Bhattacharya, T., Sarkar, D., Mandal, C., Mandal, D., Chandran, P., Ray, S., Prasad, J., Lokhande, M., and Dongre, V. (2012). Soil water retention characteristics of black soils of India and pedotransfer functions using different approaches. *Journal of Irrigation and Drainage Engineering*,**139**: 313-324. *(DOI: http://dx.doi.org/10.1061/(ASCE)IR.1943-4774.0000527)*	7.36
6.	Obi Reddy, G.P., Sarkar Dipak, Jagdish Prasad and Ramamurthy, V. (2013). Geospatial modeling in assessment of biophysical resources for sustainable land resource management. *Tropical Ecology*, **54** :227-238.	7.17
7.	Obi Reddy, G.P., Nagaraju, M.S.S., Ramteke, I.K. and Sarkar, Dipak (2012). Terrain characteristics for soil resource mapping using IRS- P6 data and GIS – A case study from basaltic terrain of central India. *Journal of the Indian Society of Remote Sensing*,**41**:331-343. (*DOI: 10.107/s12524-012-0240-5*).	6.68
8.	Singh, D., Bhaskar, B. P., Baruah U., Sarkar, Dipak, and Vadivellu, S. (2013). Economic appraisal of rice based cropping sequences in major soil series of upper Asom. *Indian Journal of Agricultural Sciences*,**83**: 326–330.	6.17

2012-13

Research Publications having NAAS rating < 6.0

9.	Sidhu, G.S., Surya, Jaya N., Lal, T., Katiyar. D.K. and Sharma, J.P. (2012). Soils of lower Siwaliks of Himalayas – Their degradation status and land management. *Journal of Soil and Water Conservation,* **11**: 18-123.	5.08
10.	Chaturvedi, Arun, Obi. Reddy, G.P., Srivastava, Rajeev and Maji, A.K. (2012). Remote sensing and GIS applications in rainfed agriculture management. *J. Soil and water conservation (India),* **11**: 174-180.	5.08
11.	Bante, Rashmi R., Srivastava, Rajeev, Nagaraju, M.S.S. and Jagdish Prasad (2012). Characterization and evaluation of land resources for watershed management in Vidarbha region of Maharashtra using RS and GIS. *Journal of the Indian Society of Soil Science,* **60**: 261-268.	5.23
12.	Gangopadhyay, S.K., Sarkar Dipak, Sahoo, A. K. and Singh. S.K. (2012). Soils of rainfed region of West Bengal and their productivity potential appraisal. *Journal of the Indian Society of Soil Science,* **60**: 83-91.	5.23
13	Mahesh Kumar, Singh, S.K., Raina, P. and Sharma, B. K. (2011). Status of available major and micronutrients in arid soils of Churu district of Western Rajasthan. *Journal of the Indian Society of Soil Science,* **59**: 188-192.	5.23
14	Reza, S.K., Baruah, U. and Sarkar, Dipak (2012). Spatial variability of soil properties in Brahmaputra plains of North-Eastern India: A geostatistical approach. *Journal of the Indian Society of Soil Science,* **60**: 108–115.	5.23
15	Reza, S.K., Pal, S. and Singh, S. (2012). Rock phosphate-enriched pressmud compost: Direct effect in pearl millet (*Pennisetum glaucum* L.) and residual effect in mustard (*Brassica juncea*) in a Typic Haplustept. *Journal of the Indian Society of Soil Science,* **60**: 138–144.	5.23
16	Reza, S.K., Baruah, U. and Sarkar Dipak (2012). Mapping risk of soil phosphorus deficiency using geostatistical approach: A case study of Brahmaputra plain, Assam, India. *Indian Journal of Soil Conservation*, **40**: 65–69.	5.20
17	Velmourougane, K., Venugopalan, M.V., Bhattacharyya, T., Sarkar, Dipak, Pal, D.K., Sahu Apeksha, Chandran, P., Ray, S. K., Mandal, C., Nair, K. M., Prasad Jagdish, Singh R. S. and Tiwary, P. (2013). Urease activity in various agro-ecological sub-regions of black soil regions of India. Procedings National Academy of Science, India, Section B - Biol. Sci. *DOI 10.1007/s40011-013-0162-1*.	5.00
18	Jatav, M. K., Manoj Kumar, Trehan, S. P., Dua, V. K., Lal, S. S. and Sharma, R. P. (2012) Influence of microorganisms inoculation on nutrient economy in Potato-radish crop sequence in North Western Himalayas. *Vegetable Science* **39 :** 21-25.	4.98
19	Patil, N. G. and Chaturvedi, Arun (2011). Surrogate prediction of saturated hydraulic conductivity of seasonally impounded soils. *Journal of Soil Salinity and Water Quality,* **3**: 30-36.	4.94
20	Surya, Jaya N, Singh, S.P. and Jat, R.S. (2012). Suitability assessment of soil resources for micro level crop planning – A case study. *Journal of Soil and Crops,* **22**: 297-301.	4.46

21	Gangopadhyay, S.K., Baruah U. and Sarkar, Dipak (2012). Forest soils of Upper Brahmaputra valley of Assam – their characteristics and classification. *Agropedology*, **21**: 1-9.	4.16
22	Nirmal Kumar, Obi Reddy, G.P., Chatterjee, S. and Sarkar, Dipak (2013). An application of ID3 decision tree algorithm for land capability classification, *Agropedology*, **22**: 35-42.	4.16
23	Pachpor, Swapnil D., Nagaraju, M.S.S., Srivastava, Rajeev, Barthwal, A.K., Nasre, R.A. and Mohekar, D. (2012). Characterization and evaluation of land resources for management of Savli micro- watershed in Wardha district of Maharashtra. *Agropedology*, **22**: 8- 17.	4.16
24	Surya, Jaya N. and Singh, S.P. (2012). Characterization, classification and management needs of Indo-Gangetic Alluvial Plains in Karnal district of Haryana. *Agropedology*,**22**: 50-55.	4.16
25	Verma, T.P., Singh, S.P., Ram Gopal, Dhankar, R.P., Rao, R.V.S. and Tarsem Lal (2012). Characterization and evaluation of soils of Trans Yamuna area in Etawah district, Uttar Pradesh for sustainable land use. *Agropedology*, **22**:26-34.	4.16
26	Maske, S.P., Anil kumar, K.S., Hegde Rajendra, Ramesh kumar, S.C., Srinivas, S. and Naidu, L.G.K. (2012). Rainfall probability analysis for crop planning –a case study of Kuttanagere micro-watershed. *Mysore Journal of Agricultural Scences*,.**46**: 683-686.	3.93
27	Vishal, M.K., Aishwath, O.P., Singh., R., Mehta, R.S., Mishra, B.K., Obi Reddy, G.P. and Nirmal Kumar (2013). Spatial and Temporal assessment of area, production and productivity of cumin in Rajasthan. *International Journal of Seed Spices*, **3**: 70-76.	3.91
28	Goswami S.N., Chaturvedi, A. and Gawande, R.S. (2012). Economics and resource use efficiency of rice farming in Gondia district of Maharashtra. *Agricultural Situation in India*, **68**: 521-528.	3.15
29	Kolhe, A.H., Chandran, P., Ray, S.K., Bhattacharyya, T., Pal, D.K. and Sarkar, Dipak (2011). Genesis of associated red and black shrink- swell soils of Maharashtra. *Clay Research*,**30**: 1-11.	2.97
30	Pal, D. K., Bhattacharyya, T., Chandran, P., and Ray, S. K. (2012) Linking minerals to selected soil bulk properties and climate change: A review, *Clay Research*, **31**: 38-69.	2.97
31	Satyavathi, P. L. A., Raja, P., Ray, S. K., Anantwar, S. G. and Bhaskar B. P. (2012) Elemental composition and mineralogy of silt and clay fractions of cracking clay soils of semi arid and arid parts of Gujarat, India, *Clay Research*, **31**: 12-26.	2.97
32	Chaturvedi Arun, Patil, N. G. and Hajare, T. N. (2012) Land and livelihood issues in different stages of tribal resettlement. *Indian Forester* ,**138** : 584-588	-
33	Dadhich R. K., Sharma, R. P., Kumawat, S. M., Singh, G. and Sahu, M. P. (2013). Use of ^{59}Fe Isotope in iron chlorosis for fodder sorghum bicolor. *Noto-are Agriculture*, ISSN 1941-2681. http://www.notoare.com/18973108.	-
34	Mandal D.K., Goswami S. N., Mandal, C., and Sarkar Dipak and Jagdish Prasad (2012). Sustainable use of shallow soils in the context of global climate change, *Indian Journal of Fertilizers*, **8**: 32-44.	-
35	Mandal, D.K, Goswami, S. N., Mandal, C., Prasad Jagdish and Sarkar Dipak (2012). Assessment of deep soils of India and their utilisation for food security in	-

	the context of climate change, *Indian Journal of Fertilizers*, **8**: 110-120.	
36	Patil, N.G. and Rajput, G.S. (2011). Pedotransfer functions to predict soil moisture constants in shrink–swell soils of Haveli tract in Jabalpur district of Madhya Pradesh. *Hydrology Journal*, **34**:135-144.	-
37	Reza, S.K., Baruah, U. and Sarkar, Dipak (2013). Hazard assessment of heavy metal contamination by the paper industry, North-Eastern India. *International Journal of Environmental Studies*, **70**: 23□32. (*DOI:10.1080/00207233.2012.746810*).	-
38	Sharma, R. P., Pandey, A. K. and Singh, R. S. (2012). Aggressive action to reduce CO_2 emissions: Burning practice of paddy straw now sequestering carbon. *Noto-are Agriculture*, ISSN 1941-2681. (*http://www.notoare.com/16424734*).	-
39	Singh, S.K., Kumar, Mahesh, Pandey, C.B., Sarkar, Dipak, Ghosh, Anupam, Mukhopadhya, S. (2012).Soil properties between irrigation and cropping sequence in *Thar* desert of Rajasthan, India. *Journal of Arid Land Research and Management.* (DOI: *10.1080 /15324982.2012.719577*)	-