

ICAR NBSS&LUP PUBLICATIONS 2016-2017

Research Publications having NAAS rating > 6.0

S.No.	Research Paper	NAAS Rating/IF
1.	Moharana, P.C. and Biswas, D.R. 2016. Assessment of maturity indices of rock phosphate enriched composts using variable crop residues. <i>Bioresource Technology</i> , 222 :1-13.	10.92
2.	Suresh Kumar, Raizada, A., Biswas, H., Srinivas, S. and Mondal, B. 2016. Application of indicators for identifying climate change vulnerable areas in semi-arid regions of India. <i>Ecological Indicators</i> , 70 :507–517.	9.19
3.	Vasu D., Singh S.K., Ray S.K., Duraisami V.P., Tiwary P., Chandran P., Nimkar A.M. and Anantwar S.G. 2016. Soil quality index as a tool to evaluate crop productivity in semi-arid Deccan plateau, India. <i>Geoderma</i> , 282 :70-79.	8.86
4.	Vasu D., Singh S.K., Sahu N., Tiwary P., Chandran P., Duraisami V.P., Ramamurthy V., Lalitha M. and Kalaiselvi B. 2017. Assessment of spatial variability of soil properties using geospatial techniques for farm level nutrient management. <i>Soil and Tillage Research</i> , 169 : 25-34.	8.71
5.	Dharumarajan, S., Lalitha, M., Natarajan, A., Naidu, L.G.K., Balasubramanian, R., Hegde, R., Vasundhara, R., Anil Kumar, K. S. and Singh, S.K. 2017. Biophysical and socio economic causes for increasing fallow lands in Tamil Nadu. <i>Soil Use and Management</i> . DOI:10.1111/sum.12361	7.82
6.	Chattaraj, S., Srivastava, R., Barthwal, A. K., Giri, J. D., Mohekar, D.S., Obi Reddy, G.P., Daripa, A., Chatterji S. and Singh S.K. 2017. Semi-automated object-based landform classification modelling in a part of the Deccan Plateau of central India, <i>International Journal of Remote Sensing</i> , 38(17) :4855-4867.	7.64
7.	Vasu D., Singh S.K., Tiwary P, Chandran P., Ray S.K. and Duraisami V.P. 2017. Pedogenic processes and soil–landform relationships for identification of yield-limiting soil properties. <i>Soil Research</i> , 55(3) :273-284.	7.61
8.	Patil, N.G. and Singh S.K. 2016. Pedotransfer functions for estimating soil hydraulic properties: A Review. <i>Pedosphere</i> , 26(4) :417–430.	7.54
9.	Moharana, P.C., Naitam, R.K., Verma, T.P., Meena, R.L., Sunil Kumar, Tailor, B.L., Singh, R.S., Singh, S.K. and Samal, S.K. 2017. Effect of long-term cropping systems on soil organic carbon pools and	7.12

	soil quality in western plain of hot arid India. <i>Archives of Agronomy and Soil Science</i> , DOI: 10.1080/03650340.2017.1304637.	
10.	Reza, S.K., Nayak, D.C., Mukhopadhyay, S., Chattopadhyay, T. and Singh, S.K. 2017. Characterizing spatial variability of soil properties in alluvial soils of India using geostatistics and geographical information system. <i>Archives of Agronomy and Soil Science</i> , (DOI 10.1080/03650340.2017.1296134).	7.12
11.	Bhattacharyya, T., Wani S P., Pal, D.K., Sahrawat, K.L., Pillai, S., Nimje A., Telpande, B., Chandran, P. and Chaudhury, S. 2016. ICRISAT, India soils: yesterday, today and tomorrow, <i>Current Science</i> , 110 :1652-1670.	6.97
12.	Chaudhury, S., Bhattacharyya, T., Wani, S.P., Pal, D.K., Sahrawat, K.L., Nimje, A., Chandran, P., Venugopalan, M.V. and Telpande, B. 2016. Land use and cropping effects on carbon in black soils of semi- arid tropical India <i>Current Science</i> , 110 :1692-1698.	6.97
13.	Padekar D., Bhattacharyya T., Ray S.K., Tiwary P. and Chandran P. 2016. Influence of irrigation water on black soils in Amravati district, Maharashtra. <i>Current Science</i> , 110(9) :1740-1755.	6.97
14.	Surya, Jaya N., Sidhu, G.S., Lal, T., Katiyar, D.K. and Sarkar, Dipak. 2016. Impact of temporal change of land use and cropping system on some soils properties in Northwestern Parts of Indo- Gangetic Plain. <i>Current Science</i> , 111(1) :207-212.	6.97
15.	Srivastava, R., Sethi, M., Yadav, R.K., Bundela, D.S., Singh, M., Chattaraj, S., Singh, S.K., Nasre, R.A., Bishnoi, Sita Ram, Dhale, Sanjay, Mohekar, D.S. and Barthwal, A.K. 2016. Visible-near infrared reflectance spectroscopy for rapid characterization of salt- affected soil in the Indo-Gangetic plains of Haryana, India. <i>Journal of the Indian Society of Remote Sensing</i> : DOI 10.1007/s12524-016- 0587-0	6.68
16.	Sahu, Nisha, Singh, S.K., Obi Reddy, G.P., Nirmal Kumar, Nagaraju, M.S.S. and Srivastava, Rajeev 2016. Large-Scale Soil Resource Mapping using IRS-P6 LISS-IV and Cartosat-1 DEM in Basaltic Terrain of Central India. <i>Journal of Indian Society of Remote Sensing</i> , 44(5) :811-819.	6.68
17.	Hegde, R., Niranjana, K.V., Natarajan, A. and Singh, S.K. 2016. Detailed land resources inventory for effective planning of land based rural development programs. <i>Special Publication of Geological Society of India</i> . No.1-5 P.	6.55
18.	Nogiya, M., Pandey, R. N. and Singh, Bhupinder. 2016. Physiological basis of iron chlorosis tolerance in rice (<i>Oryza Sativa</i>) in relation to the root exudation capacity, <i>Journal of Plant Nutrition</i> , 39(11) :1536- 1546.	6.51
19.	Moharana, P.C. and Biswas, D.R. 2017. Nutrient transformations in soil amended with rock phosphate enriched composts for improving	6.51

	productivity of wheat-green gram sequence. <i>Journal of Plant Nutrition</i> . DOI: 10.1080/01904167.2016.1269346.	
20.	Moharana, P.C., Sharma, B.M. and Biswas, D.R. 2017. Changes in the soil properties and availability of micronutrients after six year application of organic and chemical fertilizers using STCR-based targeted yield equations under pearl millet-wheat cropping system. <i>Journal of Plant Nutrition</i> , 40 :165-176.	6.51
21.	Ray, P. and Datta, S.P. 2016. Solid phase speciation of Zn and Cd in zinc smelter effluent-irrigated soils. <i>Chemical Speciation and Bioavailability</i> , 29(1) :6-14.	6.46
22.	Reza, S.K., Singh, S., Datta, S.C., Purakayastha, T.J. and Singh, S.K. 2017. Phosphorus solubilization through organic acids production in pressmud composted with rockphosphate. <i>National Academy Science Letters</i> , 40(1) :13-16 (DOI 10.1007/s40009-016-0511-8).	6.35
23.	Gajare A.S., Mandal D.K. and Jagdish Prasad 2016. Assessment of different pools of organic carbon for better C management in cotton- growing shrink-swell soils of Jalgaon district, Maharashtra. <i>The Indian Journal of Agricultural Sciences</i> , 85(5) :77-80.	6.17
24.	Reza, S.K., Baruah, U., Sarkar, D. and Singh, S.K. 2016. Spatial variability of soil properties using geostatistical method: a case study of lower Brahmaputra plains, India. <i>Arabian Journal of Geosciences</i> , 9 :446.	6.00

Research Publications having NAAS rating < 6.0

25.	Minhas, P.S. and Obi Reddy, G.P. 2017. Edaphic stresses and agricultural sustainability: An Indian Perspective, <i>Agricultural Research</i> , 6(1) :8-21.	5.90
26.	Reza, S.K., Baruah, U., Singh, S.K. and Srinivasan, R. 2016. Spatial heterogeneity of soil metal cations in the plains of humid subtropical northeastern India. <i>Agricultural Research</i> , 5(4) :346-352.	5.90
27.	Bhaskar, B.P. and Tiwari, G. 2017. Geochemical interpretations of laterite associated soils of east coast Andhra Pradesh. <i>Chemical Science Review and Letters</i> , 6(21) :187-197.	5.21
28.	Jagdish Prasad. 2015. Soil health management- A key for sustainable production. <i>Journal of the Indian Society of Soil Science</i> , 63 :(Supplement page S6-S13).	5.23
29.	Gangopadhyay, S.K., Nayak, D.C. and Singh, S.K. 2016. Characteristics of tea growing soils in relation to soil acidity in upper Brahmaputra valley of Assam. <i>Journal of the Indian Society of Soil</i>	5.23

	<i>Science</i> , 64(4) :341-350.	
30.	Dutta, D., Bandyopadhyay, S., Baruah, U. and Sarkar, D. 2016. Characterizations of soil at different landforms in hilly areas of Meghalaya state. <i>Journal of the Indian Society of Soil Science</i> , 64(3) :302-309.	5.23
31.	Pradhan, S., Gorai, T., Ahmed, N., Bandopadhyay, K.K., Sahoo, R.N., Mahapatra, S.K. and Singh, R. 2016. Estimating S index, unsaturated hydraulic conductivity and diffusivity through RETC in Indian Agricultural Research Institute farm. <i>Journal of the Indian Society of Soil Science</i> , 64(2) :120-127.	5.23
32.	Singh, R., Singh, R.S., Purohit, H.S., Verma, T.P. and Garhwal, R.S. 2016. Productivity and suitability evaluation of orange (<i>Citrus reticulata</i>)-growing soils of hot and semi-arid region of Rajasthan (AESR 5.2). <i>Journal of the Indian Society of Soil Science</i> , 64(1) :46-57.	5.23
33.	Lalitha, M., Dharumarajan, M., Natarajan, A., Niranjana, K.V., Srinivas, S., Naidu, L.G.K. and Sarkar, Dipak. 2016. Need for site specific land resource database for integrated watershed management. <i>Indian Journal of Soil Conservation</i> , 44(22) :168-176.	5.20
34.	Naitam, R.K. and Kharche, V.K. 2016. Characterization and classification of soils of Ramagarh village of Amravati district of Maharashtra. <i>Multilogic in Science</i> , 6(17) :211-218.	5.20
35.	Prasad, R., Yadav, S.K., Kumar, P. and Yadav, R.P. 2016. Performance of mango cultivars in eroded soils of Shiwalik foot hills. <i>Indian Journal of Soil Conservation</i> , 44(1) :67-72.	5.20
36.	Giri, J.D., Nagaraju, M.S.S., Srivastava, R., Singh, D.S., Nasre, R.A., Barthwal, A.K. and Mohekar, D.S. 2016. Accuracy assessment of large-scale soil map prepared by remote sensing approach. <i>International Journal of Agricultural and Statistical Sciences</i> , 12(1) :229-237.	5.13
37.	Naitam, R.K., Singh, R.S., Sharma, R.P., Verma, T.P. and Arora, S. 2016. Morphometric analysis of Chanavada-II watershed in Aravalli hills of southern Rajasthan using geospatial technique. <i>Journal of Soil and Water Conservation (India)</i> , 15(4) :318-324.	5.08
38.	Patangray, A.J., Patil, N.G., Singh, S.K., Mishra, V.N., Reddy, C.V.P. and Ramteke, I.K. 2017. Land use/land cover change detection using geospatial techniques in Kupti watershed of Darwha block of Yavatmal district, Maharashtra <i>Journal of Soil and Water Conservation (India)</i> 16(1) :10-17.	5.08
39.	Bhaskar, B. P., Prasad, J. and Tiwari, G. 2017. Evaluation of agricultural land resources for irrigation in the cotton growing Yavatmal district, Maharashtra, India. <i>Journal of Applied and Natural Science</i> , 9(1) : 102 –113.	4.84
40.	Bhaskar, B.P., Anantwar, S.G., Gaikwad, S.S. and Bobade, S.V. 2016.	4.84

	Land resource assessment for agricultural development in Seoni district, Madhya Pradesh, India. <i>Journal of Applied and Natural Science</i> , 8(2) :750-759.	
41.	Dubey, P.N., Bhaskar, B.P., Chandran, P., Singh, B. and Mishra, B.K. 2016. Geochemistry of some ferruginous soils of Kerala, India. <i>Journal of Applied and Natural Science</i> , 8(1) :196-207.	4.84
42.	Meena, R.K., Parihar, S.S., Singh, M. and Khanna, M., 2016. Effects of sowing dates and irrigation regimes on grain quality of wheat grown under semi-arid condition of India. <i>Journal of Applied and Natural Science</i> , 8(2) :960-966.	4.84
43.	Sahu, Nisha and Sahu, Asha. 2016. Influence of phosphamidon on microbial biomass carbon, FDA and soil respiration in black soil (Entic Chromusterts). <i>International Journal of Agricultural Sciences</i> , 8(39) :1796-1798.	4.82
44.	Ramamurthy, V., Singh, M., Srinivas, A., Silpasree, Ramesh Babu, A.C., Naidu, L.G.K. and Prakasa Rao, E.V.S. 2016. Effect of age of plantation and season on leaf yield, content and composition of oil of <i>Eucalyptus citriodora</i> Hook and soil properties in semi-arid conditions of Karnataka. <i>Res. on Crops</i> , 17(1) :112-117.	4.75
45.	Dharumarajan, S., Naidu, L.G.K., Lalitha, M., Vasundhara, R., Anil Kumar, K.S., Rajendra Hegde and Singh, S.K. 2016. Assessment of suitability of fallow lands for major medicinal plants in Tamil Nadu. <i>International Journal of Bio-resource and Stress Management</i> . 7(4) :877-884.	4.65
46.	Srinivasan, R., Jeevan Rao, K., Reza, S.K. Shelton Padua, Dinesh, D. and Dharumarajan, S. 2016. Influence of inorganic fertilizers and organic amendments on plant nutrients and soil enzyme activities under incubation. <i>International Journal of Bio-resource and Stress Management</i> , 7(4) :924-932.	4.65
47.	Srinivasan, R., Natarajan, A., Anil Kumar, K.S., Dharumarajan, S. and Kalaivanan, D. 2016. Distribution of different forms of soil acidity in selective laterite soils under cashew plantations in coastal Karnataka. <i>International Journal of Bio-resource and Stress Management</i> , 7(2) :222-228.	4.65
48.	Anil Kumar, K.S., Lalitha, M., Kalaiselvi, B., Patil, Siddaram, Nair, K.M. and Sujatha, K., 2015. Soil organic carbon stocks: A potential land quality indicator for soils of western Karnataka, <i>Agropedology</i> , 25(2) :161-168.	4.16
49.	Bandyopadhyay, Siladitya, Obi Reddy, G.P., Dutta, D., Reza, S.K., Dutta, D.P., Baruah, Utpal, Sah, K.D. and Singh, S.K. 2015. Assessment of erosion susceptibility zones in Diring-Thanglong watershed north eastern hill regions of Assam using GIS techniques, <i>Agropedology</i> , 25(2) :169-180.	4.16
50.	Dongare, V., Maji, A.K., Obi Reddy, G.P. and Ramteke, I.K. 2016.	4.16

	Land Suitability Evaluation for Rice (<i>Oryza sativa</i> L.) in Tirora tehsil of Gondia district, Maharashtra - A GIS approach, <i>Agropedology</i> , 26(01): 69-78.	
51.	Jena, R.K., Duraisami, V.P., Sivasamy, R., Shanmugasundaram, R., Krishnan, R., Padua, S., Bandyopadhyay, S., Ramachandran, S., Ray, P., Deb Roy, P., Singh, S.K. and Ray, S.K. 2016. Characterization and classification of soils of Jirang block in Meghalaya plateau, <i>Agropedology</i> , 26(1): 47-57.	4.16
52.	Goswami, S.N., Sen, T.K., Jagdish Prasad and Chatterji, S. 2014. Effect of climatic and socio-economic factors on under-utilization of land in Maharashtra. <i>Agropedology</i> , 24(1): 41-51.	4.16
53.	Naitam, R.K., Singh, R.S., Mohrana, P.C. and Singh, S.K. 2016. Characterization and evaluation of soils occurring on toposequence in eastern plain, Bhilwara district, Rajasthan for land use planning. <i>Agropedology</i> , 26(1): 94-104.	4.16
54.	Patil, N.G., Chaturvedi, A. and Singh, S.K. 2016. Land use issues in selected disadvantaged districts of Eastern India. <i>Agropedology</i> , 26(1): 57-68.	4.16
55.	Ramesh Kumar, S.C., Tejaswini, A.B., Prakashanaik, M.K., Nandini, S., Rajendra Hedge and Singh, S.K. 2016. Economics of kharif sorghum production in southern dry zone of Karnataka. <i>Agropedology</i> , 26(1): 29-33.	4.16
56.	Reza, S.K., Baruah, U. and Singh, S.K. 2016. Spatial distribution of Fe and Mn in paper mill effluent affected agricultural soils in Morigaon, Assam. <i>Agropedology</i> , 26(2): 87-93.	4.16
57.	Srinivasan, R., Reza, S.K., Nayak, D.C., Singh, S.K. and Sarkar, G.C. 2016. Characterization and classification of major vegetables growing soils of Odisha coastal system – A case study, <i>Agropedology</i> , 25(2): 232-239.	4.16
58.	Srinivasan, R.; Mukhopadhyay, S.; Nayak, D.C. and Singh, S.K. 2016. Characterization, classification and evaluation of soil resources in coastal eco-system – A case study of Gosaba block (Part), South 24- Parganas, West Bengal, <i>Agropedology</i> , 25(2): 195-201.	4.16
59.	Vasu, D., Singh, S.K., Karthikeyan, K., and Duraisami, V.P. 2016. Fertility Capability Classification (FCC): A case study in rainfed soils of semi-arid Deccan plateau. <i>Agropedology</i> 26(1): 22-28.	4.16
60.	Chattopadhyay, T., Nayak, D.C., Mukhopadhyay, S., Sahoo, A.K. and Singh, S.K. 2017. Land evaluation for crop planning in soils of Indo- Gangetic Plains of Hugli district, West Bengal, <i>Indian Agriculturist</i> , 59(4): 215-222.	4.11
61.	Potdar, S.S., Gabhane, V.V., Potdar, H.S., Srivastava, Rajeev, Nasre, R.A. and Nagaraju, M.S.S. 2016. Characterization, classification and mapping the soils of shegaon watershed, Chandrapur district of	3.15

	Maharashtra, using remote sensing and GIS technique. <i>Advances in Life Sciences</i> , 5(18) :7489-7495.	
62.	Anil Kumar, K.S., Kalaiselvi, B., Nair, K.M. and Singh, S.K. 2016. Characterization of red and lateritic soils formed under varied climates and their management, <i>Clay Research</i> , 35(1) :42-52.	3.10
63.	Jena, R.K., Duraisami, V.P., Sivasamy, R., Shanmugasundaram, R., Krishnan, R., Padua, S., Bandyopadhyay, S., Ramachandran, S., Ray, P., DebRoy, P., Singh, S.K. and Ray, S.K. 2015. Spatial variability of soil fertility parameters in Jirang block of Ri-Bhoi district, Meghalaya. <i>Clay Research</i> , 34(1) :35-45.	2.97
64.	Surya, J.N., Walia, C.S., Ahamad, N., Singh, H., Giyal, V. and Khajuria, V. 2016. Characterization and clay minerals composition of soils derived from metamorphic formations of Kumaun Himalayas., <i>Clay Research</i> , 34(1) :15-24.	2.97
65.	Bhattacharyya T., Tiwary P., Pal D.K., Khobragade R., Telpande B. and Kuchankar H. 2017. Estimating soil organic matter and available N : A ready reckoner for soil testing laboratories. <i>Advanced Agricultural Research & Technology Journal</i> , 1(1) :3-13.	-
66.	Bhaskar, B. P., Tiwari, G. and Prasad, J. 2017. Pedogenic influence on profile distribution of total and DTPA - extractable micronutrients in rice growing hydric soils of Majuli river island, Assam, India. <i>Spanish Journal of Soil Science</i> , 7(1) :45-71.	-
67.	Fagodiya, R.K., Pathak, H., Meena, B.L., Meena, R.K., Nagdev, R. 2017. Need to estimate the net global warming potential of nitrogenous fertilizers. <i>Advances in Plants and Agriculture Research</i> , 6(4) :00220.	-
68.	Keshavarzi, A., Omran, E.S.E., Bateni, S.M., Pradhan, B., Vasu, D., Bhagerzadeh, A. 2016. Modelling of available soil phosphorus (ASP) using multi-objective group method of data handling. <i>Model Earth System and Environment</i> , 2 :157.	-
69.	Meena, R.S., Meena, R.L., Rao, S.S., Singh, R.S., Verma, T.P. and Singh, S.K. 2017. Characterization of classification of soils of Jhalrapatan block, Jhalawar district of Rajasthan. <i>Journal of Plant Development Studies</i> , 9(3) :265-68.	-
70.	Meena, R.S., Rao, S.S., Natrajan, A., Hegde, R. and Singh, S.K. 2017. Available micronutrient in soils of Chikkersinkere hobli of Maddur taluka, Mandya district of Karnataka. <i>Journal of plant development Studies</i> , 9(3) :229-233.	-
71.	Nalina, C.N., Anil Kumar, K.S., Chandrakala, M., Sheela Rani, S., Sujata, K., Shilpashree, K.G., Rajendra Hegde and Singh, S.K. 2016. Soil nutrient status mapping of Nagenahalli micro-watershed under Eastern Dry Zone of Karnataka by remote sensing, detailed soil survey and GIS, <i>Indian Journal of Agriculture Research</i> , 50(5) :389-	-

	397	
72.	Ramachandran, S., Nagender Rao, C., Dinesh, D., Srinivasan, R., Sankar, M., Ramesh, T. and Shelton Padua. 2015. Effect of tillage management practices on soil physical properties and yield of groundnut in rice-based cropping system. <i>International Journal of Bio-resource and Stress Management</i> , 6(6) :765-777.	-
73.	Ravindra Naik, M. and Anil Kumar, K.S. 2016. Mapping of crop growing soils in Kannur micro watershed Kollegal taluk, Chamarajnagar district, Karnataka, <i>International Journal of Science and Research (IJSR)</i> ISSN (Online): 2319-7064: 5(4) :474-481.	-
74.	Ray, P., Datta, S.P., Rakshit, R. and Golui, D. 2016. Agronomic bio- fortification of food crops with zinc and iron for ameliorating their deficiencies in humans: constraints and possibilities. <i>Indian Journal of Fertilisers</i> , 12(7) :28-35.	-
75.	Sahoo, A.K., Nayak, D.C., Mukhopadhyay, S., Banerjee, T., Singh, S.K., Sarkar, D., Sarkar, A.K., Agarwal, B.K. and Shahi, D.K. 2016. Mapping of block level soil fertility status of Dumka district, Jharkhand using GPS and GIS, <i>Indian Journal of Fertilisers</i> , 12(7) :50-57.	-
76.	Sahu, Nisha, Obi Reddy, G.P., Nirmal Kumar, Nagaraju, M.S.S., Srivastava, Rajeev and Singh, S.K. 2016. Morphometric analysis in basaltic terrain of Central India using GIS techniques - A case study, <i>Applied Water Science</i> . DOI 10.1007/s13201-016-0442-z.	-
77.	Sharma, R.P., Singh, R.S., Singh, S.K. and Obi Reddy, G.P. 2016. Extent of land degradation and status of wastelands in Rajasthan (NW India) with a focus on the Bhilwara District, <i>Journal of Agriculture and Environment for International Development - JAEID</i> , 110(1) :97-115.	-
78.	Vasu, D., Singh, S.K., Duraisami, V.P., Jangir, A. and Butte, P.S. 2016. Fertility status of cotton growing soils in Thimmajipet mandal, Mahabubnagar district, Telangana. <i>Andhra Pradesh Journal of Agricultural Sciences</i> , 2(1) :10-15.	-
79.	Vasu, D., Singh, S.K., Tiwary, P., Sahu, N., Ray, S.K. and Butte, P. 2017. Influence of geochemical processes on hydrochemistry and irrigation suitability of groundwater in place of semi-arid Deccan Plateau, India. <i>Applied Water Science</i> , pp. 1-13. DOI: 10.1007/s13201-017-0528-2.	-
80.	Vasundhara, R., Dharumarajan, S., Hegde, Rajendra, Srinivas, S., Niranjana, K.V., Srinivasan, R. and Singh, S.K. 2017. Characterization and evaluation of soils of Singanallur watershed using remote sensing and GIS. <i>International Journal of Bio-resource and Stress Management</i> , 8(1) :51-56.	-