

PUBLICATIONS

Research Papers

LTFE Centres

UAS GKVK Bangalore

- Gowda RC, P Veeranagappa, DC Hanumanthappa and Muneshwar Singh (2018) Nutrients availability in soil and yield improvement through balanced crop nutrition in tribal settlements of Karnataka. *International Journal of Chemical Science* 6(3): 1970-1974.
- Gowda RC, P Veeranagappa, DC Hanumanthappa and Muneshwar Singh (2017) Soil enzyme activities, microbial diversity and available nutrient status of an Alfisol under long term fertilization. *International Journal of Current Microbiology and Applied Sciences* 6(5): 1483-1491.
- Gowda RC, P Veeranagappa, DC Hanumanthappa and Muneshwar Singh (2017) Impact of chemical fertilizers, organics and amendments on yield and nutrients uptake by finger millet and maize. *The Bioscan* 12(1): 595-598.
- Gowda RC, P Veeranagappa, DC Hanumanthappa, Muneshwar Singh and T Bhagyalakshmi (2017) Dynamics of potassium and crop sustainability in an Alfisol under a long term fertilizer experiment in finger millet – maize cropping system. *Research Journal of Agricultural Sciences* 8(3): 623-626.
- Gowda RC, P Veeranagappa, P Gayathri, DC Hanumanthappa and Muneshwar Singh (2017) Long-term application of fertilizers on chemical and biological properties of an Alfisol. *Journal of Applied and Natural Science* 9(4): 1970-1974.
- Lavanya FR, GG Kadalli, T Siddaram Patil, T Jayanthi, DV Naveen and R Channabasavegowda (2019) Sulphur fractionation studies in soils of long term fertilizer experiment under finger millet–maize cropping sequence. *International Journal of Current Microbiology and Applied Sciences* 8(9): 1334-1345.

OUAT Bhubaneswar

International

- Majhi P, KK Rout, G Nanda and M Singh (2019) Soil quality for rice productivity and yield sustainability under long term fertilizer and manure application. *Communications in Soil Science and Plant Analysis* 50(11): 1330-1343.
- Majhi P, S Mondal, KK Rout, M Mandal and M Singh (2016) Effect of continuous application of different chemical fertilizers and organic manure on soil environment in a sub-tropical rice-rice ecosystem of Eastern India. *Journal of Ecology, Environment and Conservation* 22: 29-37.
- Mandal M, SK Naik and DK Das (2017) Effect of boron and sulphur interaction on some important biological indices in an Inceptisol. *Journal of Plant Nutrition* 41(2): 197-209.

National

- Dash A, KK Rout, M Mandal and M Singh (2018) Effect of 11 years long term manurial practices on nematode population and diversity in rice agroecosystem. *Journal of Pharmacognosy and Phytochemistry* 7(5): 286-288.

- Dash A, M Mandal, KK Rout and M Singh (2018) Influence of long term fertilizer experiments on soil organic carbon, available nutrients and microbial population in an acid Inceptisols of tropical India. *International Journal of Chemical Studies* 6(5): 255-258.
- Ghosh D, M Mandal, R Dey and SK Pattanayak (2019) Effect of integrated nutrient management on fertility status of soil in an acid Inceptisols. *International Journal of Chemical Studies* 7(6): 1318-1322.
- Ghosh D, M Mandal, S Das and SK Pattanayak (2019) Effect of integrated nutrient management on yield attributing characters and productivity of maize in acid Inceptisols. *Journal of Pharmacognosy and Phytochemistry* 8(6): 2069-2074.
- Madhuri G, PC Dash and KK Rout (2017) Effect of weather parameters on population dynamics of paddy pests. *International Journal of Current Microbiology and Applied Sciences* 6(10): 2049-2053.
- Madhuri G, PC Dash, KK Rout and LK Rath (2016) Influence of different levels of fertilizers on the incidence of yellow stem borer *Scirpophaga incertulas* (Wlk.) in paddy. *Progressive Research – An International Journal* 11: 4824-4827.
- Madhuri G, PC Dash, KK Rout and LK Rath (2017) Natural enemies in rice field with different levels of fertilizers. *International Journal of Pure and Applied Bioscience* 5(5): 20-24.
- Majhi P and KK Rout (2017) Effect of continuous application of different inorganic macro and micro nutrients and FYM on crop yield and changes in soil pH and SOC of an acidic *Typic Ustochrepts* under sub tropical rice-rice ecosystem. *The Bioscan* 12(1): 237-241.
- Majhi P, S Mondal, KK Rout, KK Mandal, M Singh and N Sasmal (2016) Soil enzyme activity of an intensively grown rice field as influenced by long term fertilization and manuring under subtropical climatic conditions. *International Journal of Farm Sciences* 6(3): 172-179.
- Mandal M, KK Rout, D Purohit, P Majhi and M Singh (2018) Evaluation of rice-rice system on grain yield, chemical and biological properties of an acid Inceptisol. *Journal of the Indian Society of Soil Science* 66(2): 208-214.
- Pradhan S, SK Swain, KK Rout, S Mohanty and KC Muduli (2016) Effect of long term use of fertilisers/ nutrients on seed yield and quality in rice. *Oryza- An International Journal on Rice* 53(1): 48-51.
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- Sukumaran S, TJ Purakayastha, SC Datta, T Viswanath, KK Rout and M Singh (2016) Impact of long term manuring and fertilization on silt and clay protected carbon in two Alfisols with varying texture. *Clay Research* 35(1): 25-33.

TNAU Coimbatore

- Shanmugasundaram R, M Malarkodi and B Gokila (2019) Continuous application of fertilizer over four decades on yield, physical and chemical properties of swell-shrink soil under finger millet-maize cropping sequence. *Indian Journal of Agricultural Research* 53(6): 687-692.

PAU Ludhiana International

- Brar BS, GS Dheri and K Gagandeep (2018) In-season temporal trends of carbon and nitrogen in rice (*Oryza sativa* L.) under long-term integrated nutrient management. *Oryza* 55(4): 565-573.

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- Dhadli HS, BS Brar and TA Black (2016) N₂O emissions in a long-term soil fertility experiment under maize-wheat cropping system in Northern India. *Geoderma* 7(2): 102-109.
- Durani Asmatula, BS Brar and GS Dheri (2016) Soil nitrogen fractions in relation to rice-wheat productivity: Effects of long-term application of mineral fertilizers and organic manures. *Journal of Crop Improvement* 30(4): 399-420.
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- Jha P, S Verma, R Lal, C Eidson and GS Dheri (2016) Natural ¹³C abundance and soil carbon dynamics under long-term residue retention in no till maize system. *Soil Use and Management* 33(1): 90-97.
- Sanyal Debankur, BS Brar and GS Dheri (2019) Organic and inorganic integrated fertilization improves non-exchangeable potassium release and potassium availability in soil. *Communications in Soil Science and Plant Analysis* 50(16): 2013-2022.
- Singh Navdeep, RS Gill and GS Dheri (2019) Effect of integrated nutrient management on zinc fractions and rice yield. *Oryza* 56(2): 221-227.

National

- Sheorn P, Sher Singh, SS Bawa, V Sardana, Ashwani Kumar, Raj Kumar, B Bhushan and GS Dheri (2016) Assessing long term impact of nutrient management and rainfall variability on the agroecological resilience of maize (*Zea mays*)-wheat (*Triticum aestivum*) system in NW India. *The Indian Journal of Agricultural Sciences* 86(1): 113-19.

CSKHPKV Palampur

International

- Dhiman Diksha, Rajpaul Sharma, Sankhyan Narender Kumar, Swapana Sepehya, Sanjay K Sharma and Rameshwar Kumar (2019) Effect of regular application of fertilizers, manure and lime on soil health and productivity of wheat in an acid Alfisol. *Journal of Plant Nutrition* 42(19): 2507–2521.
- Gourav, NK Sankhyan, RP Sharma and GD Sharma (2018) Vertical distribution of sulfur fractions in a continuously fertilized acid Alfisol under maize-wheat cropping system. *Communications in Soil Science and Plant Analysis* 49(8): 923–933.
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- Meena HM, RP Sharma, NK Sankhyan and Swapana Sepehya (2017) Effect of continuous application of fertilizers, farmyard manure and lime on soil fertility and productivity of the maize-

wheat system in an acid Alfisol. *Communications in Soil Science and Plant Analysis* 48(13): 1552–1563.

- Padhan Kshitipati, Sudeshna Bhattacharjya, Asha Sahu, MC Manna, MP Sharma, Muneshwar Singh, RH Wanjari, RP Sharma, GK Sharma and AK Patra (2019) Soil N transformation as modulated by soil microbes in a 44 years long term fertilizer experiment in a sub-humid to humid Alfisol. *Applied Soil Ecology* 145: 103355.
- Rajneesh, RP Sharma, NK Sankhyan and Rameshwar Kumar (2017) Long-term effect of fertilizers and amendments on depth-wise distribution of available NPK, micronutrient cations, productivity, and NPK uptake by maize-wheat system in an acid Alfisol of North Western Himalayas. *Communications in Soil Science and Plant Analysis* 48(18): 2193–2209.
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- Shambhavi Shweta, Rajeev Padbhushan, Beura Kasturikasen, SP Sharma and Sanjay K Sharma (2016) Fractions of manganese in soil under long-term experiment and their contribution to manganese availability and uptake by maize-wheat cropping sequence. *Communications in Soil Science and Plant Analysis* 47(4): 470–486.
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- Sharma Munish, RP Sharma and Swapana Sepehya (2018) Effect of a decade-long chemical fertilizers and amendments application on potassium fractions and yield of maize–wheat in an acid Alfisol. *Communications in Soil Science and Plant Analysis* 49(15): 1869-1889.

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- Chauhan Neha, NK Sankhyan and RP Sharma (2019) Effect of continuous use of fertilizers and amendments on micronutrient cations uptake by wheat. *Bulletin of Environment, Pharmacology and Life Science* 8(12): 159-163.
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- Singh Dharmendra, RP Sharma, NK Sankhyan and SC Meena (2017) Influence of long-term application of chemical fertilizers and soil amendments on physico-chemical soil quality indicators and crop yield under maize-wheat cropping system in an acid Alfisol. *Journal of Pharmacognosy and Phytochemistry* 6(3): 198-204.
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BAU Ranchi International

- Das Debrup, BS Dwivedi, SP Datta, MC Meena, BK Agarwal, DK Shahi, Muneshwar Singh, D Chakraborty and Seema Jaggi (2019) Potassium supplying capacity of a red soil from eastern India after forty two years of continuous cropping and fertilization. *Geoderma* 341: 76-92.
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- Ghosh Avijit, Ranjan Bhattacharyya, Brahma Swaroop Dwivedi, Dipak Ranjan Biswas, Mahesh Chandra Meena, Abhijit Sarkar, Binay Kumar Agarwal, Prabhakar Mahapatra, Dharendra Kumar Shahi, Rajesh Agnihotri and Ravi Sawlani (2018) Depth dynamics of soil N contents and natural abundances of ¹⁵N after 43 years long term fertilization and liming in subtropical Alfisol. *Archives of Agronomy and Soil Science* 64(9): 1290-1301.
- Ghosh Avijit, Ranjan Bhattacharyya, BS Dwivedi, MC Meena, BK Aggarwal, P Mahapatra, DK Shahi, R Salwani and Rajesh Agnihotri (2016) Temperature sensitivity of soil organic carbon decomposition as affected by long term fertilization under a soybean based cropping system in a sub-tropical Alfisol. *Agriculture, Ecosystems and Environment* 233: 202-213.
- Kumari Geeta, SK Thakur, Vipin Kumar, Navnit Kumar and SK Singh (2019) Long term effect of fertilizer, farm yard manure and lime on yield sustainability and soil organic carbon pools under soybean (*Glycine max*)-wheat (*Triticum aestivum*). *Journal of Soil and Water Conservation* 18(2): 196-204.

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- Mahapatra P, BK Agarwal, DK Shahi and AK Sarkar (2018) Long term fertilizer experiments in red and lateritic soils: Practical lessons on sustainable Agriculture. *Indian Journal of Fertilisers* 14(7): 12-24.
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GBPUA&T Pantnagar

International

- Pant PK, Shri Ram and Aakash Mishra (2017) Sequential extraction of different pools of phosphorus in alluvial and acid soils of Uttarakhand. *Journal of Applied and Natural Science* 9(4): 2280-2284.
- Ram S, Veer Singh and Pradeep Sirari (2016) Effects of 41 years of application of inorganic fertilizers and farm yard manure on crop yields, soil quality and sustainable yield index under a rice-wheat cropping system on Mollisols of North India. *Communications in Soil Science and Plant Analysis* 47(2): 179–193.
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- Pant PK, Shri Ram and Veer Singh (2017) Yield and soil organic matter dynamics as affected by the long-term use of organic and inorganic fertilizers under rice–wheat cropping system in subtropical Mollisols. *Agricultural Research* 6(4): 399-409.

VNMKV Parbhani

- Meshram NA, Syed Ismail and VD Patil (2016) Long-term effect of organic manuring and inorganic fertilization on humus fractionation, microbial community and enzymes assay in Vertisol. *Journal of Pure and Applied Microbiology* 10(1): 139-150.
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KAU Pattambi

- Kumaran Suvana, TJ Purakayastha, SC Datta, Thulasi Viswanath, KK Rout and Muneshwar Singh (2016) Impact of long term manuring and fertilization on silt and clay protected carbon in two Alfisols with varying texture. *Clay Research* 35(1): 25-33.
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MPUA&T Udaipur

- Jat Dinesh Chandra, SC Meena, J Choudhary and Somdutt (2019) Response of various fertility and zinc levels on growth, quality and productivity of maize (*Zea mays* L.) under sub-humid zone of Rajasthan. *International Journal of Current Microbiology and Applied Science* 8(08): 1004-1010.
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- Singh Dharmendra, SC Meena, RH Meena, SR Meena, MK Yadav and Bajrang Bali (2019) Long-term impact of organic and inorganic fertilization on physico-chemical properties of soil under wheat-maize cropping system in *Typic Heplustepts*. *International Journal of Chemical Studies* 7(5): 2574-2578.
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- Yadav Kamlesh, SC Meena, Gajanand Jat, KD Ameta, Rakesh Khatik and Dinesh Chandra Jat (2019) Productivity of soybean (*Glycine max* L. Merrill) as influenced by combined use of enriched compost and biofertilizers. *International Journal of Chemical Studies* 7(4): 1324-1326.
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- Jadhao SD, DV Mali, Muneshwar Singh, RH Wanjari and BA Sonune (2019) Impact of continuous manuring and fertilization on changes in soil quality under sorghum-wheat sequence on a Vertisol. *Journal of the Indian Society of Soil Science* 67(1): 55-64.
- Jadhao SD, DV Mali, Muneshwar Singh, RH Wanjari and BA Sonune (2018) Effect of long-term manuring and fertilization on depth wise distribution of potassium fractions under sorghum-wheat cropping sequence in Vertisol. *Journal of the Indian Society of Soil Science* 66(2): 172-181.
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IGKV Raipur

International

- Joshi SK, RK Bajpai, Prahlad Kumar, Alok Tiwari, Vinay Bachkaiya, MC Manna, Asha Sahu, S Battacharjya, MM Rahman, RH Wanjari, M Singh, Vassanda Coumar, AK Patra and RS Choudhary (2017) Soil organic carbon dynamics in a Chhattisgarh Vertisol after use of rice wheat system for 16 years. *Agronomy Journal* 109(6): 1-14.

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ICAR-IARI, New Delhi

International

- Das D, BS Dwivedi, SP Datta, SC Meena, BK Agarwal, DK Shahi, M Singh, D Chakraborty and S Jaggi (2019) Potassium supplying capacity of a red soil from eastern India after forty-two years of continuous cropping and fertilization. *Geoderma* 341: 76–92.
- Ghosh A, R Bhattacharyya, Abir Dey, BS Dwivedi, MC Meena, MC Manna and R Agnihotri (2019) Long-term fertilisation impact on temperature sensitivity of aggregate associated soil organic carbon in a sub-tropical Inceptisol. *Soil and Tillage Research* 195: 104369.
- Ghosh A, R Bhattacharyya, BS Dwivedi, DR Biswas, MC Meena, Abhijit Sarkar, BK Agarwal, P Mahapatra, DK Shahi, R Agnihotri and R Sawlani (2018) Depth dynamics of soil N contents and natural abundances of ¹⁵N after 43 years of long-term fertilization and liming in sub-tropical Alfisol. *Archives of Agronomy and Soil Science* 64: 1290-1301.
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