

SCIENTIST PROFILE



1. Name & Designation : Anjani Kumar, Scientist
2. Date of Birth : 1st March, 1979
3. Date of joining ICAR : 15th December, 2009
4. Date of joining the present post : 15th December, 2009
5. Qualification (highest degree) : M.Sc. (Ag)
6. Post Doctoral Research Experience/Training: NIL
7. Area of Specialization/research interest:
 - Enhancing nutrient use efficiency and productivity in rice based system
 - Resource Conservation Technologies for sustainable rice production
 - Management of problem soils for enhancing the productivity of rice
8. Significant Contribution including products and patents (Five bullets):
 - Nutrient management: Long term repository of database on soil, plant analysis and yield under long term experiment on INM effect in rice-rice system was maintained and updated.
 - Management strategy for Arsenic affected soil: Working on development of arsenic toxicity management strategies for rice soil.
 - Pesticide application and soil quality: Assessment of effect of pesticide application on rice soil quality.
 - Water quality assessment: Assessment of Fluoride and Nitrate toxicity and quality assessment of drinking water.
9. Awards/Honours:
 - Best Worker Award in Scientist category for the year 2011-2012 awarded by CRRI, Cuttack.
 - Gold Medal in M.sc (Ag) at BHU, Varanasi.
10. Publications (10 best):
 - i. Bhattacharyya P, Nayak AK, Mohanty S, Tripathi R, Shahid M, **Kumar A**, Raja R, Panda BB, Roy KS., Neogi S, Dash PK, Shukla AK and Rao KS (2013). Greenhouse gas emission in relation to labile soil C, N pools and functional microbial diversity as influenced by 39 years long-term fertilizer management in tropical rice. **Soil & Tillage Research Soil & Tillage Research** 129: 93–105.
 - ii. Shahid M, Nayak AK, Shukla AK, Tripathi R, **Kumar A**, Mohanty S, Bhattacharyya P, Raja R and Panda BB (2013). Long-term effects of fertilizer and manure applications on soil quality and yields in a sub-humid tropical rice-rice system. **Soil Use and Management** (DOI:10.1111/sum.12050).
 - iii. Nayak AK, Gangwar B, Shukla AK, Mazumdar SP, Kumar A, Raja R, **Kumar A**, Kumar V, Rai PK and Mohan U (2012). Long-term effect of different integrated nutrient management on soil organic carbon and its fractions and sustainability of rice–wheat system in Indo Gangetic Plains of India. **Field Crops Research** 127: 129–139.
 - iv. **Kumar A**, Nayak AK, Shukla AK, Panda BB, Raja R, Shahid M, Tripathi R, Mohanty S and Rath PC (2012). Microbial biomass and carbon mineralization in agricultural soils as affected by pesticide addition. **Bulletin of Environmental Contamination and Toxicology** 88: 538–542.
 - v. Roy DK, Kumar R and **Kumar A** (2011). Production potentiality and sustainability of rice-based cropping sequences in flood prone lowlands of North Bihar. **Oryza** 48 (1): 47-51.

- vi. **Kumar A**, Nath T and Raha P (2010). Nitrate levels in groundwater of Varanasi district of Uttar Pradesh, India. **Journal of Eco-friendly Agriculture** 5(2): 120-123.
- vii. **Kumar A**, Nath T and Raha P (2010). Assessment of Nitrate Contamination Due to Groundwater Pollution in Mirzapur district, UP, India. **Environment and Ecology** 28(2): 802-805.
- viii. **Kumar A**, Nath T and Raha P (2010). Status of Fluoride in Groundwater and its Suitability Assessment for Drinking Purpose in Mirzapur District of India. **International Journal of Tropical Agriculture** 28(1-2): 297-301.
- ix. Nath T, **Kumar A**, Raha P and Singh RK (2010). Nutrient Uptake by Summer Green Gram (*Vigna radiata* L. Willczek) as influenced by different doses and sources of Sulphur in alluvial soils of Indo-Gangetic plain. **International Journal of Tropical Agriculture** 28(1-2): 303-306.
- x. Singh RK, Singh Y, Singh AK, Kumar R, Singh VK, **Kumar A** and Nath T (2010). Response of fertility level on growth, yield and economics of Indian Mustard varieties under late sown condition. **International Journal of Tropical Agriculture** 28(3-4): 379-383.