

**Ajay**



Designation: Principal Scientist  
(Plant Physiology)  
Division of Environmental Soil Science

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**Research specialization:**

Sink capacity of Soil/Plants for toxic metal pollutants

Medicinal crops system

Role of PGPR's (plant growth promoting rhizobacteria)

Detergent Pollution: Linear Alkylbenzene Sulphonate (LAS) and Sodium Tri poly phosphate (STPP) present in detergent on crop and soil quality

Biofortification: Sorghum and Millet

Management of soft beverage sludge applied

Reclamation and Rehabilitation of Copper Mining Affected Land In Malanjkhanda Area Of Madhya Pradesh

Coal Mining studies

Reclamation and management of municipal solid waste contaminated Landfill area of Bhanpur, Bhopal.

**Professional Experience:**

As a Scientist – 12-04-1993 at NRC Groundnut, Junagadh, Gujarat.

As a Scientist – 12-04-1996 at NRC on Medicinal & Aromatic Plants, Anand. Gujarat.

External Consultancy Project

Organised ICAR Training program

Guidance to M.Sc./Ph.D. Students

Various Responsibilities at institute levels

**Awards and Honours:**(10pt, Arial)

Nominee of Committee for the purpose of Control and Supervision of Experiments on Animals (CPCSEA) by MOEF (Govt of India) 2006

**Top Ten publications:**(10pt, Arial)

1. Narendra K. Lenka, Sangeeta Lenka<sup>1</sup>, K. K. Singh, Ajay Kumar, Satish B. Aher, Dharmendra Singh Yashona, Pradip Dey, Pawan Kumar Agrawal, A. K. Biswas, and Ashok Kumar Patra. (2019). Effect of elevated carbon dioxide on growth, nutrient partitioning, and uptake of major nutrients by soybean under varied nitrogen application levels. *J. Plant Nutr. Soil Sci.* 2019, 182 (4): 509-514.
2. M. L. Dotaniya, S. Rajendiran, M. Vassanda Coumar, V. D. Meena, J. K. Saha, S. Kundu, A. Kumar, A. K. Patra (2017). Interactive effect of cadmium and zinc on chromium uptake in spinach grown on Vertisol of Central India. *International Journal of Environmental Science and Technology* 15(2): 441–448.
3. Prajapati K., Rajendiran S., Vassanda Coumar M., Dotaniya M. L., Ajay, Kundu S., Saha J. K., Patra A. K. 2016. Carbon occlusion potential of rice phytoliths: implications for global carbon cycle and climate change mitigation. *Applied Ecology And Environmental Research* 14: 265-281.
4. S. Kundu, M. Vassanda Coumar\*, S. Rajendiran, Ajay and A. Subba Rao. 2015. Phosphates from detergents and eutrophication of surface water ecosystem in India. *CURRENT SCIENCE*, VOL. 108.
5. J. K. Saha & A. K. Sharma & Ajay Srivastava. 2013. Impact of different types of polluted irrigation water on soil fertility and wheat grain yield in clayey black soils of central India. *Environ Monit Assess.* 186(4): 2349–2356.
6. Irshad ul Hassan Lone, Ajay Kumar, Fatima Khan, Shriparna Saxena, and Arshed Iqbal Dar. 2012. Evaluating the effect of landfill leachate on groundwater quality in relation to physicochemical and bacteriological characteristics. *Journal of Chemical and Pharmaceutical Research*, 2012, 4(12):5202-5214.
7. Adhikari, Tapan and Ajay kumar (2012). Phytoaccumulation and Tolerance of *Ricinus Communis* L. to Nickel. *International Journal of Phytoremediation (USA)*. Volume 14, Issue 5, 481-492.
8. Javeed Ahmad Lone, Farooq Ahmad Lone, Ajay and S. Kundu. (2011). Tolerance Limit of the Alga *Spirulina platensis* to Linear Alkyl Benzene Sulphonate Polluted Wastewater. *Nature Environment and Pollution Technology*, 10 (4), 595-600.
9. Ajay, V.S. Rathore and U.C. Dubey (2006). Sucrose turnover by growing tomato callus under different zinc level. *Annals of Plant Physiology. Ann Plant Physiol.* 21(1): 4-11.
10. P. K. Ghosh, M. C. Mann, K. K. Bandyopadhyay, Ajay, A. K. Tripathi, R. H. Wanjari, K. M. Hati, A. K. Misra, C. L. Acharya and A. Subba Rao (2006). Interspecific Interaction and Nutrient Use in Soybean/Sorghum Intercropping System. *Agronomy Journal.* 98:1097-1108