

Name Dr. U.K. Maurya
Date of birth 31.01.1963
Designation Principal Scientist (Soils)
Qualification Ph.D.
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Educational Qualifications

- Post-Doctoral Research (Geochemistry): Jawaharlal Nehru University, New Delhi (1994-1995); Ph.D. (Geology-Geochemistry): Banaras Hindu University, Varanasi (1992); PGD (Spectroscopy): Banaras Hindu University, Varanasi (1988); UGD (German): Banaras Hindu University, Varanasi (1989); M.Sc. (Geology-Geochemistry): Banaras Hindu University, Varanasi (1985); B.Sc. (Hons-Geology): Banaras Hindu University, Varanasi (1982)

Professional Experience

- Pr. Scientist (Soils) at ICAR-NBSS&LUP, Nagpur, Dec. 2019 to Continue; Pr. Scientist (Soils) at ICAR-IISWC, Dehradun, July 2018 to November 2019; Sr. Scientist (Soils) at ICAR-IISWC, Dehradun, August 2013 to July. 2018; Sr. Scientist (Soils) at ICAR-IISWC, RC, Kota, July 2013 to August 2013; Sr. Technical Officer (Geology) at ICAR-NIASM, Baramati, August 2009 to July 2013; Sr. Technical Officer (Geology) at ICAR-NBSS & LUP, HQs, Nagpur, May 2005 to July, 2009; Sr. Technical Officer (Geology) at ICAR-NBSS & LUP, RC, Kolkata, April 1996 to April 2005

Research Areas

- Soil survey, mapping, correlation, classification and preparation of soil maps, soil geochemistry/mineralogy and micro-morphology, Soil nutrient and pollutant dynamics, Management of edaphic stresses, Nanoparticles in exchange and bioremediation, Isotope hydrology in spring rejuvenation, Soil & Water Conservation measures and Watershed Management, Elemental mobility assessment in erosion and deposition processes and Application of advance tools in natural resource management.

International Experience - Nil

Awards

- Year of the Scientist Award, 2019 of Pragati International Scientific Research Foundation, Meerut, International Conference on "Sustainable Agriculture Production for Food, Nutrition and Livelihood Security: A Challenge for Asian Farmers" held at Pattaya, Thailand; Teaching and Research Excellence National Award by IRDP Group of Journal, IRDP International Symposium on Education Excellence-2018 held at Chennai, 2018; Distinguished Scientist Award of Science & Tech Society for Integrated Rural Improvement (S&T SIRI), Conference on DISHA- organized by S&T SIRI, Warangal, Telangana in association with ICAR-IINRG Ranchi, 2018. Fellow of The Clay Minerals Society of India, IARI, New Delhi, 2017; Best Poster presentation award during International Seminar on "Environmental Issues and Challenges in the 21" Century (EICC-2019)", Bareilly, U.P. as well as during Regional Conference on 'Himalayan Matters in a Changing Worlds' Climate Resilient Agriculture, GBPNIHESD Almora, Uttarakhand, 2019; Best Research Paper Award from Indian Association of Soil and Water Conservationists, Dehradun, 2019; Pool Scientist, CSIR, New Delhi, 1996; Research Associateship, CSIR, New Delhi, 1996; DST Young Scientist Project, DST, New Delhi, 1993; Senior Research Fellowship, CSIR, New Delhi, 1991; Ph.D. Research Fellowship, BHU, Varanasi, 1987..

Honours/Recognitions

- Invited lecture / Key note speaker in National / International seminars/symposia/workshop/meetings/Kishan gothish and trainings; Chairman/Co-Chairman and Rapporteur at different scientific forum/gathering; Coordinator for conducting different training programmes and resource person for delivering lectures; Expert Member for NMHS, MoEF&C funded projects; Reviewer of Scientific Journal and Projects from different organizations (CSB, NTRF) ; Councilor, North Zone, Clay Minerals Society of India (CMSI), New Delhi; Expert Panelist on "Participatory Spring Revival in Uttarakhand"; Member Editorial board of IASWC, Dehradun; Member and Deputy Secretary Hindi Implementation Committee, NBSS&LUP, Kolkata and Member Secretary, Rajbhasha Implementation Committee, NIASM, Baramati; Institute Coordinator of ICAR Policy on agrochemicals; Member on Policy guidelines in preparation of Check-List of Information / Details of Creation of Posts in NIASM, Baramati, Member task force committee to correlate the soils of Puruliya Dist. at NBSS&LUP, RC Kolkata; Member to develop Policy guidelines on future research on Pollutant Dynamics in Soil & Water as futuristic of NIASM; Member Coordination and Event Management of Soil Health Cards Generation on World Soil Day celebration; Coordinator Geohydrological Surveys of NIASM, Baramati; Paper setter for M.Sc. (Ag.) Soil Science and Agricultural Chemistry, Naini Institute of Agricultural Sciences, SHUATS, Allahabad; External examiner for Practicals of B.Sc. (Hons), students of Centre of Advanced Study in Geology, Institute of Sciences, BHU, Varanasi; Co-ordinator of In-Plant Training of M.Sc. (Ag.) students of IAS, BHU, Varanasi; Faculty in regular 4 month training courses in "Soil & Water Conservation and Watershed Management" at IISWC, HQs, Dehradun; Member PAC and ITMC, Coordinator of MGMT and Central laboratory programme of IISWC, Dehradun; Institute coordinator for conducting bilateral research between IISWC and WIHG, Dehradun as well as between NIASM Baramati and UoP, Pune; Coordinator of Swachhata Pakhwara; Chairman/Member/member secretary of various Institute Committees of purchase and works; Member for Establishment of new Institute "National Institute of Abiotic Stress Management" under ICAR and Coordinator for establishing rock garden and mineral museum at NIASM, Baramati; In-Charge of ITMU and IPR Cell of NIASM; Member BRNS, BARC Outreach Programme on "Application of Isotopes and Radiation Technology in Water Resources, and Agriculture, Dehradun;

Expert member in Selection Committee of different posts at NIASM Baramati, National Geotechnical Facility, WIHG, Dehradun as well Member DPC of WIHG and IISWC. Member review committee for externally funded MoA Project under NMSA at ICAR, New Delhi; Member, Technical Expert Committee as well as Application Screening Committee of Technical Post of the IISWC, Dehradun; Vice-Chairman of Staff Recreation Club of NBSS & LUP, Nagpur HQs; Vigilance Officer, NBSS&LUP, Nagpur; Convener for display of Geological Material during the MoA visit, NIASM; Recognition award from Chief Editors of International Journal of Sediment Research, Soil Use and Management British Society of Soil Science and Annual Research and Review in Biology and International Journal of Pure and Applied Chemistry for reviewing research papers.

Patent

- Patent granted to ICAR for an invention entitled **PROCESS FOR ONE STEP SYNTHESIS OF BACTERICIDAL SILVER NANOPARTICLES FROM TISSUE EXTRACTS OF LABEO ROHITA** (Patent No.366408; Application No.3255/MUM/2012; Date of Filing : 09/11/2012, Granted in 2021). Inventors: Biplab Sarkar, **U.K. Maurya**, Manoj Brahmene, Kishore K. Krishnani, P.S. Minhas

Ten Best Research Papers along with NAAS Rating-2022

SNo	Publication	NAAS Rating
1.	Maurya U.K. , Rai S.K., Bartarya S.K., Kumar A., Kumar A., Thakur D., Maurya S., Sharma N.K., Raja P. and Kumar V. (2021), Hydrological behaviour of natural springs/streams in mid-hills of Chakrata Himalayas, India, <i>Global NEST Journal</i> , 23(3), 468-474, https://doi.org/10.30955/gnj.003587 .	7.042
2.	U.K. Maurya , Ambrish Kumar, Satyendra Kumar, R.C. Srivastava, A. K. Gupta, R.K. Arya (2020). Efficacy of water harvesting structures in sugarcane based farming system in India. <i>Indian J. Soil Cons.</i> , 48 (1): 47-56.	5.28
3.	Bankey Bihari, Madan Singh, Rajesh Bishnoi, Trisha Roy, Lakhn Singh, Suresh Kumar, Lekh Chand, D M Kadam, S S Shrimali, U K Maurya , M Muruganandam, S K Sharma, Rakesh Kumar and Anil Malik (2020). Impact of scientist-farmer interface in rainfed agro-ecosystem of North West Himalayan region: A case of Farmer FIRST Project in Doon Valley. <i>Indian Journal of Agricultural Sciences</i> 90 (3): 650–8, March 2020/Article.	6.37
4.	Ch. Jyotiprava Dash, Partha Pratim Adhikary, M. Madhu, U.K. Maurya , P.K. Mishra and S. Mukhopadhyay (2019). Geospatial assessment and physical characterization of terraced low land (<i>Jhola</i> land) in Eastern Ghats Highland of India. <i>Indian J. Soil Cons.</i> , 47 (2):194-202.	5.28
5.	Roy Trisha, Kumar S., Lekh Chand, Kadam, D. M., Bihari, B., Shrimali, S. S., Bishnoi, R., Maurya, U. K. , Singh Madan, Muruganandam, M., Singh, L., Sharma, S. K., Kumar R., and Mallik, A. (2019). Impact of Pusa hydrogel application on yield and productivity of rainfed wheat in North West Himalayan region. <i>Curr. Sci</i> , 116, NO. 7, p1246-1251. <i>Curr. Sci</i> , 116, NO. 7, p1246-1251.	7.10
6.	Bhattacharyya, T.; Ray S.K.; Maurya, U.K. ; Chandran, P.; Pal, D.K.; Durge, S.L.; Nimkar, A.M.; Sheikh, S.M.; Kuchankar, H. W.; Telpande, B.; Dongare, V. and Kolhe, A. (2015). Carbon and nitrogen estimation in soils: Standardizing methods and internal standards for C/N analyzer. <i>J. Indian Chem. Soc.</i> , Vol. 92, February 2015, 263-269	6.28
7.	T. Bhattacharyya, P. Chandran, S. K. Ray, C. Mandal, P. Tiwary, D. K. Pal, U.K. Maurya , A. M. Nimkar, H. Kuchankar, S. Sheikh, B. A. Telpande & Ashwini Kolhe (2015). Walkley-Black Recovery Factor to Reassess Soil Organic Matter: Indo-Gangetic Plains and Black Soil Region of India Case Studies. <i>Communications in Soil Science and Plant Analysis</i> , 46 (20), 2628-2648 (DOI:10.1080/00103624.2015.1089265),	7.33
8.	Arabinda Mohanty, Snehasish Mishra, Randhir Bosu, UK Maurya , and Biplab Sarkar (2013). Phytoextracts-Synthesized Silver Nanoparticles Inhibit Bacterial Fish Pathogen <i>Aeromonas hydrophila</i> . <i>Indian J Microbiol</i> (Oct-Dec 2013) 53 (4):438-446, DOI 10.1007/s12088-013-0409-9	8.46
9.	DK. Pal, T Bhattacharyya, P Chandran, SK Ray, PLA Satyavathi, SL Durge, P Raja, UK Maurya , 2009. Vertisols (cracking clay soils) in a climosequence of Peninsular India: Evidence for Holocene climate changes. <i>Quaternary International</i> , 209 , 6-21,	8.13
10.	AK Ghosh, D Sarkar, P Bhattacharyya, UK Maurya and DC Nayak, 2006. Mineralogical study of some arsenic contaminated soils of West Bengal, India. <i>Geoderma</i> , 136 : 300-309,	12.11

Total Publications (Peer-reviewed journals only):

International:06

National:23

Google Scholar link: https://scholar.google.com/citations?view_op=list_works&hl=en&user=S1O8ml8AAAAJ

Research Gate link: <https://www.researchgate.net › profile › Umakant-Maurya>