Name **Dr. Ruma Das**

Date of birth 24/10/1987

Designation Scientist (Senior scale)

Qualification Ph.D

Email id rumadas13@gmail.com; ruma.das@icar.gov.in

Educational Qualifications

- Ph.D (Soil Science), Bidhan Chandra Krishi Viswavidyalaya (2015);
- M.Sc (Soil Science), Chandra KrishiViswavidyalaya (2011);
- B.Sc. Uttar Banga Krishi Viswavidyalaya (2009)

Professional Experience

- Scientist (Sr. scale) at ICAR-NBSS&LUP, RC Kolkata from 1/5/2022 to till date
- Scientist (Sr. scale) at ICAR-IARI New Delhi from 1/4/2019 to 30/4/2022.
- Scientist at ICAR-IARI New Delhi from 1/4/2015 to 31/3/2019
- Scientist at ICAR-NAARM, Hyderabad from 1/1/2015 to 1/3/ 2015

Research Areas

- Clay-humus stability and carbon mineralization
- Interaction of clay with different nutrients and heavy metals
- Chemistry and behaviour of boron and other micronutrients

International Experience - Nil

Awards

- Best oral presentation Award in International conference on climate change, biodiversity and sustainable agriculture (ICCBSA-2018), Dec 13-16, 2018 at Assam Agricultural University, Jorhat 785013, Assam, India

Honours/Recognitions

Ten Best Research Papers along with NAAS Rating-2022

SNo	Publication	NAAS Rating
1.	Ruma Das, Dipankar Saha Effect of liming on the changes of different forms of potassium in an acid soil treated with N and K fertilizers *the Indian 2014, Journal of Chemical Society 91(9)*: 1619-1625	6.28
2.	Dibyendu Sarkar, Dipak Kumar De, Ruma Das, Biswapati Mandal 2014, Removal of organic matter and oxides of iron and manganese from soil influences boron adsorption in soil Geoderma 214, 213-216	12.22
3.	Pradhan, A.K., Beura, K.S., Das, R., Padhan, D., Hazra, G.C., Mandal, B., 2, De, N., Mishra, V.N., Polara, K.B. and Sharma S. (2015). Evaluation of extractability of different extractants for zinc and copper in soils under long-term fertilization. Plant Soil Environment,61(5): 227-233	7.8
4.	Sarkar, D., Baishya, L.K., Meitei, C.B., Naorem, G. C., Thokchom, R.C., Singh, J.,Bhuvaneswari, S., Batabyal, K., Das, R. Padhan, D., Prakash, N., Rahman, F.H 2018, Can sustainability of maize-	11.22

mustard cropping system be achieved through balanced nutrient management? Field Crops Research 225, 9-21

5.	Seth, A., Sarkar, D., Masto, R.E., Batabyal, K., Saha, S., Murmu, S., Das, R., Padhan, D., Mandal, B.2018, Critical limits of Mehlich 3 extractable phosphorous, potassium, sulfur, boron and zinc in soils for nutrition of rice (Oryza sativa L) Soil Science and Plant Nutrition, 2018, 18 (2), 512-523	**9.67**
6.	Ruma Das, T.J. Purakayastha, Debarup Das, Nayan Ahmed, Rahul Kumar, SunandaBiswas, S.S. Walia, Rohitashav Singh, V.K. Shukla, M.S.Yadava, N. Ravisankar, S.C. Datta.2019, . Long-term fertilization and manuring with different organics alter stability of carbon incolloidal organo-mineral fraction in soils of varying clay mineralogy. Science of the Total Environment 684	**13.96**
7.	Das R., Mandal, B., Sarkar, D., Pradhan, A.K., Datta, A.,Padhan, D., Seth, A., Kumar, R., De, N., Mishra, V.N.,Polara, K.B., Sharma, S., Thakur, N.P., Karchoo, D., Ray, M., Sharma, A., Patel, K.P., Garnayak, L.M.,Narkhede, W.N.2019, Boron availability in soils and its nutrition of crops under long-term fertility experiments in India Geoderma, 351-116-129.	**12.11**
8.	TJ Purakayastha, Ruma Das, Savita Kumari, YS Shivay, Sunanda Biswas, Dhiraj Kumar, Bidisha Chakrabarti 2020, Impact of continuous organic manuring on mechanisms and processes of the stabilisation of soil organic C under rice-wheat cropping system soil Research, 58(1):73-83	**7.99**
9.	Ruma Das, T.J. Purakayastha, Debarup Das, Nayan Ahmed, Rahul Kumar, S.S. Walia, Rohitashav Singh, V.K. Shukla, M.S. Yadava, N. Ravisankar and S.C. Datta. 2021.Effect of chemical pre-treatment for identification of clay minerals in four soil orders by X-ray diffraction technique, National Academy Science Letter. 45, 39-44	**6.79**
10.	Das D, Sahoo J, Raza MB., Barman M and Das R.2022 Ongoing soil potassium depletion under intensive cropping in India and probable mitigation strategies. A review. Agronomy For Sustainable Development 42:4, 1-26.	**11.83**

Total Publications (Peer-reviewed journals only): 21

International:10

National:05

Research Gate link: https://www.researchgate.net/profile/Ruma-Das-3

Google scholar link:*https://scholar.google.com/citations?user=h5zQB4kAAAAJ&hl=en*