Brief Resume of Dr. Koushik Banerjee

Dr. Koushik Banerjee, M.Sc. (Ag.), Ph.D.,
Scientist
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Email: Koushik.Banerjee@icar.gov.in, koushik.iari9@gmail.com
Born: West Bengal, India; Category: General

Research Specialization

Crop weather relation, climate change, remote sensing, and flood-prone area characterization

Academic Background

2010-2014 B.Sc. (Ag.) Hons. 1st Class, Bidhan Chandra KrishiViswavidlaya
2014-2016 M.Sc. (Ag.) in Agricultural Physics, 1st ClassI.A.R.I, New Delhi
2016-2020 Ph.D. (Ag.) Agricultural Physics, 1st ClassI.A.R.I, New Delhi

Professional Service Experience

2020 (Oct)-2021 (Jan) Scientist ICAR- NAARM
2021 (Jan)- till Scientist ICAR- MGIFRI

Awards, Honours & Recognitions

2014 ICAR- Junior Research Fellowship Award- Physical Science, AIR-6
2016 ICAR- Senior Research Fellowship Award- Agricultural Meteorology, AIR-4
2016 Best Poster presentation award at 4th International Agronomy Congress
2018 ASRB- Agricultural Research Service Examination- AIR-1
2022 IARI Merit Medal Award for outstanding performance in PhD in Agricultural Physics.

Publications

Total 12: Including research papers, book chapters- International and National
Google Scholar Citations: Total citations 125, H-index 6, i10 index 4

Best-12 Publications

1. **Banerjee, K.,** Krishnan, P. and Mridha, N., 2018. Application of thermal imaging of wheat crop canopy to estimate leaf area index under different moisture stress conditions. ***Biosystems Engineering***, 166, pp.13-27.
2. **Banerjee, K.** and Krishnan, P., 2020. Normalized Sunlit Shaded Index (NSSI) for characterizing the moisture stress in wheat crop using classified thermal and visible images. ***Ecological Indicators***, 110, p.105947.
3. **Banerjee, K**., Krishnan, P. and Das, B., 2020. Thermal imaging and multivariate techniques for characterizing and screening wheat genotypes under water stress condition. ***Ecological Indicators***, 119, p.106829.

4. **Banerjee, K**., Pramanik, P., Maity, A., Joshi, D.C., Wani, S.H. and Krishnan, P., 2019. Methods of using nanomaterials to plant systems and their delivery to plants (Mode of entry, uptake, translocation, accumulation, biotransformation and barriers). In Advances in ***Phytonanotechnology*** (pp. 123-152). *Academic Press*.

5. **Banerjee, K.,** Bal, S. K., Chakraborty, D., Malleswari, S., Banerjee, A., Sadhukhan, R. August 2021.Agricultural Research, Technology and Policy: Innovations and Advances. Crop Calendars and Advances in Agriculture Insurance Products in India. In book: ***Agricultural Research, Technology and Policy***: Innovations and Advances. NAARM, Hyderabad.

6. **Banerjee, K.** and Das, B., 2022. Application of Remote Sensing Technology for Estimation of Soil Moisture. In **Soil Management for Sustainable Agriculture** Apple *Academic Press*, (pp. 231-258).

7. Sadhukhan, R., Sharma, L.D., Sen, S., Karmakar, S., **Banerjee, K**. and Baral, K., 2021. Enhancing the Productivity of Field Crops through Nano-Fertilizer. Agricultural Development in Asia: Potential Use of Nano-Materials and Nano-Technology.*In-tech Open Publishers.*

8. Chattopadhyay, A., Singh, A.P., Singh, S.K., Barman, A., Patra, A., Mondal, B.P. and **Banerjee, K**., 2020. Spatial variability of arsenic in Indo-Gangetic basin of Varanasi and its cancer risk assessment. ***Chemosphere***, 238, p.124623.

9. Mondal, B.P., Sekhon, B.S., Sadhukhan, R., Singh, R.K., Hasanain, M., Mridha, N., Das, B., Chattopadhyay, A. and **Banerjee, K**., 2020. Spatial variability assessment of soil available phosphorus using geostatistical approach. ***Indian journal of agricultural sciences****,* 90(6), pp.1170-1175.

10. Banerjee, A., Islam, S., **Banerjee, K**., Rana, D., Ray, K., Samanta, M.K., Panja, B. and Nath, P.S., 2020. First report of Rhizoctoniasolani AG-2-2 IV causing large patch disease of Japanese lawn grass in India. ***Journal of Plant Pathology***, 102(4), pp.1351-1352.

11. Banerjee, A., Rana, D., Islam, S., Chakraborty, S., Chatterjee, S., Chatterjee, A., **Banerjee, K.,** Panja, B. and Nath, P.S., 2020. First report of powdery mildew caused by Erysiphealphitoides on Aegle marmelos in India. ***Journal of Plant Pathology***, 102(4), pp.1343-1344.

12. Singh, R.N., Krishnan, P., Singh, V.K. and **Banerjee, K.,** 2022. Application of thermal and visible imaging to estimate stripe rust disease in wheat using supervised image classification methods. ***Ecological Informatics***, p.101774.

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