

**Dr. Sunil Kumar****Personal Information**

Name	:	Dr. Sunil Kumar
Designation	:	Senior Scientist, Computer Application & Agriculture Statistics, Cropping System Resource Management
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Qualification	:	Ph.D.
Discipline and Specialization	:	Computer Application
Training/advance exposure (5-6 lines only)	:	<ul style="list-style-type: none"> <li>• Advances in Simulation Modelling and Climate Change Research Towards Knowledge Based Agriculture.</li> <li>• Remote Sensing, Geographical Information System and Global Positioning System.</li> <li>• Multivariate Data Analysis.</li> <li>• Communication and personality development.</li> <li>• Big Data Analytics in Agriculture.</li> </ul>

**Professional Information**

Major Contributions	:	Crop assessment using Statistical tools and design by computational modelling
Current area of research	:	Integrated assessment of estimation in cropping systems/farming systems and crop modelling,
Major Publications (10)	:	<ul style="list-style-type: none"> <li>➤ Neeraj Kumari , Suraj Prakash , Manoj Kumar , Radha , Baohong Zhang, Vijay Sheri, Nadeem Rais, Deepak Chandran , Abhijit Dey, Tanmay Sarkar , Sangram Dhumal , Sunil Kumar , Dipendra Kumar Mahato , Marthandan Vishvanathan , Pran Mohankumar , Mirian Pateiro , and José M. Lorenzo (2022). Seed Waste from Custard Apple (<i>Annona squamosa</i> L.): A Comprehensive Insight on Bioactive Compounds, Health Promoting Activity and Safety Profile. <i>Processes</i>. Article No. <i>Processes</i> 2022, 10(10), 2119; <a href="https://doi.org/10.3390/pr10102119">https://doi.org/10.3390/pr10102119</a>. NAAS Rating : 8.85</li> </ul>

- Meena, A.L., Pandey, R.N., Kumar, D. et al. (2022). The Long-Term (13 years) Effect of Rice Based Organic Farming on Soil Sulphur Dynamics in a Typic Ustochrept Soil of Indo Gangetic Plain of India. *J Soil Sci Plant Nutr* (2022). <https://doi.org/10.1007/s42729-022-01072-8>. NAAS Rating : 8.39
- M Shamim, A S Panwar, N Ravisankar, Pc Jat1, A K Prusty, M P Singh, Poonam Kashyap, Nisha Verma, Shiv Datt, M A Ansari And Sunil Kumar (2022). On-farm Agro-meteorological evaluation of late sown wheat (*Triticum aestivum*) under irrigated agro-ecosystem of Upper Indo-Gangetic Plains, *Indian Journal of Agricultural Sciences* 92 (6): 732–6, June 2022. NAAS Rating : 6.37
- Sunil Kumar, Amrit Lal Meena, Peyush Punia, Raghvendra KJ, Vipin Kumar Choudhary, Chethan Kumar G, L.K. Meena, Lalit Kumar , R.P. Mishra , Vijay Khajuria , Udita , Monika Kundu , Mandapelli Sharath Chandra (2023)., Methodology of Identification and Characterization for Sustainable Development of Small and Marginal Farmers in Jammu., *AMA Agricultural Mechanization in Asia, Africa and Latin America*. ISSN: 00845841 Volume 54, Issue 07, July, 2023. NAAS rating 6.29
- Manoj Kumar, Mrunal Deepak Barbhai, Shriniketan Puranik , Radha , Suman Natta, Marisennayya Senapathy , Sangram Dhumal , Surinder Singh, Sunil Kumar, Vishal P. Deshmukh , T. Anitha , Ravi Pandiselvam , Jose M. Lorenzo, Combination of green extraction techniques and smart solvents for bioactives recovery (2023), *Elsevier TRAC Trends in Analytical Chemistry* : 169 (2023) 117286. NAAS rating 20.
- Bharti Vyas, Sunil Kumar , Ratul Bhowmik & Mymoon Akhter, Predicting the molecular mechanism driven progression of breast cancer through comprehensive network pharmacology and molecular docking approach, *Scientific Reports*, (2023) 13:13729 <https://doi.org/10.1038/s41598-023-40684-7>. NAAS rating 11
- Neeraj Kumari , Radha, Manoj Kumar, Sunil Puri, Baohong Zhang , Nadeem Rais , Ashok Pundir , Deepak Chandran , Priya Raman , Sangram Dhumal, Abhijit Dey , Marisennayya Senapathy, Sunil Kumar , Bishwa Raj Pokharel , Vishal Deshmukh , Rahul D. Damale , Anitha Thiagarajan, V. Balamurgan, G. Sathish, Surinder Sing , Jose M. Lorenzo, Peach (*Prunus persica* (L.) Batsch) seeds and kernels as potential plant-based functional food ingredients: A review of bioactive compounds and health-promoting activities, (2023). *Elsevier Food Bioscience* 54 (2023) 102914. NAAS rating 11.32
- Suraj Prakash, Manoj Kumar, Radha, Sunil Kumar, Susan Jaconis, E. Parameswari, Kanika Sharma, Sangram Dhumal, Marisennayya Senapathy, Vishal P. Deshmukh, Abhijit Dey, José M. Lorenzo, Vijay Sheri, Baohong Zhang, The resilient cotton plant: uncovering the effects of stresses on secondary metabolomics and its underlying molecular mechanisms (2023), *Functional & Integrative Genomics* 23:183, <https://doi.org/10.1007/s10142-023-01118-9>. NAAS rating 9.67
- Subash Nataraja Pillai, Debashis Dutta, Prakash Chand Ghasal, Ravisankar Natesan, Ved Prakash Chaudhary, Sunil Kumar, Laxman Ram Meena, Omkar Singh, Brahmdudd, Vinay Prasad Mandal, Sweta Singh, Kumari Sunita, A Composite Index to Assess the Climate Carbon Yield Sustainability of Cereal Based Cropping System (2023), *Springer International Journal of Plant Production* : <https://doi.org/10.1007/s42106->

		<p>023-00268. NAAS rating 8.61</p> <ul style="list-style-type: none"> <li>➤ Amrit Lal Meena, Raghu Nath Pandey, Dinesh Kumar, Debashis Dutta, V.K. Sharma, Minakshi Karwal, Meraj Alam Ansari, Mahaveer Nogiya, KJ Raghavendra, PC Ghasal, Jairam Choudhary, RP Mishra, Chandra Bhanu, PC Jat, Sunil Kumar and AS Panwar (2023). The long-term (13 years) effect of rice based organic farming on soil sulphur dynamics in a typic Ustochrept soil of Indo-Gangetic Plain of India. <i>Journal of Soil Science and Plant Nutrition</i> 23: 651-667. (NAAS: 9.90)</li> <li>➤ Amrit Lal Meena, Dinesh Kumar, Debashis Dutta, V.K. Sharma, P.C. Ghasal, Chandra Bhanu, Jairam Choudhary, Sunil Kumar, Avijit Ghosh, Kamlesh Kumar, R.P. Mishra, Minakshi Karwal, Raghavendra K.J., M.A. Ansari, Poonam Kashyap, A.K. Prusty, P.C. Jat and Sunil Kumar (2023). Assessing Microbial elemental stoichiometry and soil enzymes as bio-indicators of soil quality in long-term rice based organic production system of a semi-arid tropical Inseptisol of India. <i>Applied Soil Ecology</i> (NAAS: 10.80)</li> </ul>
<p>Awards and Fellowships (ICAR/ Recognition society awards)</p>	<p>:</p>	<ul style="list-style-type: none"> <li>➤ Best Article Award Sunil Kumar, Nirmal, A.S. Panwar &amp; A.L. Meena, Article ID 37821 entitled Recent trends in Indian Agriculture. <i>Agriculture &amp; Food: e-Newletter</i>, Volume 04 issue 08. ISSN: 2581 8317.</li> <li>➤ Best Article Award Sunil Kumar, Lalit Kumar, L.R. Meena and PC Ghasal, Article ID 37750 entitled Role of Information Technology in Modren Agriclture. <i>Agriculture &amp; Food: e-Newletter</i>, Volume 04 issue 08. ISSN: 2581 8317.</li> <li>➤ Ist Award Poster Paper N.Suash, Lalit Kumar, A.L. Meena, Sunil Kumar, Vipin Choudhary, Adarsh Kumar Meena, Sampat Ram Meena, Rice-Wheat Based Natural Farming In Upper Gangetic Plains Of Uttar Pradesh. National Conference on Agro - Ecology Based Agri - Food Transformation Systems. Farming systems research and development association, ICAR-IIFSR, 27-28, January, 2023.</li> <li>➤ Young Achiever Award Dr Sunil Kumar, Scientist ICAR-IIFSR for outstanding contribution in the field of computer application &amp; agriculture statistics 5th international conference on Advances in smart agriculture and biodiversity conservation for sustainable development (SABCD-2022) date 04-06 March 2022, venue conference hall, Jaipur national university, Jaipur, Rajasthan, India.</li> <li>➤ Young scientist award, for outstanding contribution in the field of research 6th international conference “current issue in agricultural, Biological &amp; applied science for sustainable development (CIABASSD-2022) ” held June 11-13, 2022 at Kalimpong Science centre, Deolo, Kalimpong, Darjeeling, west Bengal.</li> <li>➤ Appreciation Letter Sunil Kumar, Senior Scientist, ICAR-IIFSR, Modipuram, Meerut imparting her outstanding and lasting contribution as joint organizing Secretary of 5th international conference on “Advances in smart agriculture and Biodiversity Conservation for Sustainable Development (SABCD-2022)” During 04-06 March 2022 at Conference Hall, Jaipur National University, Jaipur, Rajasthan, India.</li> </ul>