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Ongoing Research Projects

- Improvement in socio-economic status of the low hill farmers through popularization of round the year cultivation of High Value vegetable crops funded by HIMCOSTE

Important Research Publications

- Kapoor R, Atwal AS, Guleria V, Kaler R, Kumar D, Dhiman S, Chaudhary J, and Rattan A. 2026. Assessment of Soil Fertility and Nutrient Dynamics Using Multivariate and Geospatial Approaches in Himachal Pradesh, India. *Journal of Agricultural Engineering (India)*, 63(2).
- Kaplex A, Kumar D, Pathania R, Singh K, Chandel VGS, Kapoor R. 2026. Analysis of combining ability and gene action for yield and fruit quality traits in cherry tomato: A step toward genetic improvement. *Plant Science Today*, 13(1): 1-7.
- Devi M, Sharma A, Sharma A, Vikram A, Dev I, Chandel RS, Jitender C, Verma S, Kapoor R, Bharti, Rajesh R, Parvender S, Mohit. 2025. Impact of Jeevamrit and Ghanjeevamrit on soil properties and productivity of kiwi fruit. *Plant Science Today* 2025; 12(2): 1-7.
- Kaler RK, Kapoor R, Kumar D, Guleria V, and Sharma A. 2025. Enhancing Productivity of Kinnow Mandarin Orchard through fertigation under Low Hill Zone of Himachal Pradesh, India. *Journal of Agricultural Engineering* 62(1): 189-198.
- Kapoor R, Sandal SK, and Kumar A. 2024. Optimized Drip-Fertigation Levels for Improved Water Productivity and Profitability of Capsicum Cultivation under Polyhouse in Himachal Pradesh, India. *Journal of Agricultural Engineering (India)*, 61(6), 985-994.
- Kapoor R, Sharma A, Raina R, Kumar D, Dhiman S, Thakur KS, Chaudhary J. 2024. Economics and Yield Potential of Him Mash Variety of Black Gram (*Vigna Mungo* L) Under Rainfed Conditions in Himachal Himalayas, India. *Journal of Mountain Research* 19(1): 193-202.

- Jagmeet S, Kumar D, Chauhan S, Dhillon HK, Sandeep K, Vikas K and Kapoor R. 2023. Role of omics approached in vegetable breeding for insect pest resistance. *SN Applied Sciences*.
- Kapoor R, Kumar A, Sandal SK, Sharma A, Raina R and Thakur KS. 2022. Water and nutrient economy in vegetable crops through drip fertigation and mulching techniques: A Review. *Journal of Plant Nutrition* 1-15.
- Kapoor R, Sharma A, Raina R, Thakur KS and Thakur M. 2022. Impact of fertigation in capsicum (*Capsicum annuum*) on socio economic status of marginal farmers of Chamba, Himachal Pradesh. *Indian Journal of Agricultural Sciences* 92 (5): 598–601.
- Kapoor R and Sandal SK. 2021. Yield, Water Use Efficiency and Economics of Drip Fertigated Broccoli (*Brassica Oleracea Var. Italica*). *Communications in Soil Science and Plant Analysis* 52(22): 2852-2864.
- Kapoor R, Sharma A, Raina R and Thakur KS. 2021. Assessment of Soil Fertility Status of Different Villages of Chamba District of Himachal Himalayas. *Indian Journal of Extension Education* 57(1): 196-201.
- Kapoor R and Sandal SK. 2019. Growth and yield response of broccoli (*Brassica oleracea var. Italica*) to varying drip irrigation and fertigation levels. *Indian Journal of Agricultural Sciences* 89(12): 26-31.
- Kumar J, Kapoor R, Sandal SK, Sharma SK and Saroch K. 2017. Effect of drip irrigation and NPK fertigation on soil - plant water, productivity, fertilizer expense efficiency and nutrient uptake of capsicum (*Capsicum annuum L.*) in an acid Alfisol. *Indian Journal of Soil Conservation* 45(1): 105-111.
- Kumar A, Suri VK, Choudhary AK, Yadav A, Kapoor R, Sandal SK and Dass A. 2015. Growth Behavior, Nutrient Harvest Index and Soil Fertility in Okra-Pea Cropping System as Influenced by AM Fungi, Applied Phosphorus and Irrigation Regimes in Himalayan Acid Alfisol. *Communications in Soil Science and Plant Analysis* 46: 2212–2233.

Books/Manual/Chapters

- Renu Kapoor, Vipran Guleria, Rajesh Klare, Dharminder Kumar, Sushil Dhiman, Jaya Chaudhary, Anurag Shama and Meera Devi. 2026. Influence of Pre-Harvest Soil and Nutrient Factors on Postharvest Quality of Fruits and Vegetables. *The Agriculture Magazine*, 5 (8), 266-271.
- Renu Kapoor. 2026. Vano ki ropai avam safal atijivita ke liy mitti aur paani ka prabandhan va baad ki dekhbhaal. Chayanit vaniya prajatiyon ki nursery aur prasaran takniken (Margdarshika). Publisher: Dr. YS Parmar University of Horticulture and Forestry ISBN: 978-81-686169-2-9 (Book chapter)
- Guleria V, Gupta A, Kumar D, Kaler R and Kapoor R. 2023. Himachal main sugandhit avam aushdhiye podhon ki vigyanik kheti. (Training Manual)