Book Chapters

1. Babar R, Mane P, Chavan SB (2024) Roles of gibberellic acid in mitigating abiotic stresses. In: R Dhandapani et al. (Eds). Phytohormones in abiotic stress. CRC Press. Pp 79-85. DOI:10.1201/9781003335788-11

2. Basavaraj PS, Rathod R, Jangid KK, Boraiah KM, Harisha CB, Halli HM, Tripathi K, Reddy KS (2024) Grass pea (Lathyrus sativus). In: R Chandora et al. (Eds). Potential pulses: Genetic and genomic resources. CABI Books. Pp 116–131. DOI:10.1079/9781800624658.000

3. Boraiah KM, Shendekar S, Shinde C, Basavaraj PS, Pradhan A, Harisha CB, Halli, HM, Pal KK, Reddy KS (2024) Bambara groundnut (Vigna subterranea (L.) Verdc.). In: R Chandora el al. (Eds). Potential pulses: Genetic and genomic resources. CABI Books. Pp 217–240. DOI:10.1079/9781800624658.0012

4. Changan SS, Parmar V, Khapte P, Kumar D, Lal MK, Raigond P, Singh BK (2024) Novel bioactive compounds, phytochemicals, and their characterization in oats. In: M Tomar and P Singh (Eds). Oat (Avena sativa). CRC Press. Pp 104-147. DOI:10.1201/9781003263302-4

5. Chaudhari GV, Khapte PS, Mahajan GR, Gupta MJ, Ramesh R, Desai AR (2024) Greenhouse utilization for vegetable cultivation. In: MC Singh and KK Sharma (Eds). Protected cultivation: Structural design, crop management modeling, and automation. Pp. 113-133. Apple Academic Press. DOI:10.1201/9781003402596-5

6. Chaudhary A, Kochewad SA, Kumar P (2024) Soil health management for degraded and nutrient stressed soils. In e-book: CB Harisha et al. (Eds). Strategies for abiotic stress management in agriculture. National Institute of Agriculture Extension Management (MANAGE), Hyderabad, India. Pp 47-56. https://www.researchgate.net/publication/383661924

7. Chavan SB, Uthappa AR, Chichaghare AR, Kakade V (2025) Agroforestry systems for ecosystem services in India. In: S Chakravarty et al. (Eds). Sustainable management and conservation of environmental resources in India. Apple Academic Press. Pp 105-148. DOI:10.1201/9781003469278

8. Dobhal S, Chavan S, Upadhyay K, Kumar M, Lal P, Chichaghare AR, Kumar R (2024) Role of agroforestry in moderating extreme temperature conditions under climate change scenarios. In: S Kumar et al. (Eds). Agroforestry solutions for climate change and environmental restoration. Springer, Singapore. Pp 85–102. DOI:10.1007/978-981-97-5004-7_4

9. Garai S, Vinayaka SB, Barman S, Udgata AR, Paul NC, Jaiswal R, Ramasubramanian VS, Appavoo D, Yashavanth BS (2024) Statistical modelling aspects of climate-resilient agriculture. In: Ch Srinivasrao et al. (Eds). Research and technological advances for resilient agriculture. ICAR-National Academy of Agricultural Research Management, Hyderabad, India. Pp 179-204. https://www.researchgate.net/publication/383978961

10. Harisha CB, Boraiah KM, Basavaraj PS, Halli HM (2024) Medicinal plants as a sustainable option for abiotic stress regions. In: CB Harisha et al. (Eds). Strategies for abiotic stress management in agriculture. National Institute of Agricultural Extension Management (MANAGE), Hyderabad, India. Pp 110-121. ISBN: 978-81-19663-92-7.

11. Harshitha BS, Naveen A, Bhargavi HA, Basavaraj PS, Kumar KM (2024) High-throughput phenotyping enabled rice improvement. In: A Singh et al. (Eds). Climate-smart rice breeding. Springer, Singapore. Pp 249-271. DOI:10.1007/978-981-97-7098-4_10

12. Jumnake AR, Patodkar VR, Sardar VM, Mehere PV, Jadhav SN, Pawar SS (2024) Impact of heat stress on the physiological responses of sheep. In: FY Ahmed (Eds). Contemporary research and perspectives in biological science. BP International. Pp 107-118. DOI:10.9734/bpi/crpbs/v5/3113

13. Kakade VD, Harisha CB, Morade AS, Chavan SB (2024) Abiotic stresses in agriculture: An overview. In: CB Harisha et al. (Eds). Strategies for abiotic stress management in agriculture. National Institute of Agricultural Extension Management (MANAGE), Hyderabad, India. Pp 1-9. ISBN: 978-81-19663-92-7

14. Kakade VD, Morade AS, Kartikeyan N (2024) Organic cultivation of dragon Fruit (Hylocereus spp). In: SN Ghosh et al. (Eds). Organic culture of tropical and subtropical fruit plants. Gyanavi Publishers & Distributors New Delhi. Pp 237-249. ISBN: 978-81-960111-5-4

15. Kakade VD, Salunkhe V, Boraiah KM, Rajkumar, Chavan SB, Morade A, Nangare DD, Reddy KS (2024) Dragon fruit- prospect and production techniques in India. In: CB Harisha et al. (Eds) Strategies for Abiotic Stress Management in Agriculture. National Institute of Agricultural Extension Management (MANAGE), Hyderabad, India. Pp 96-109. ISBN: 978-81-19663-92-7

16. Kakade VD, Salunkhe VN, Boraiah KM, Rajkumar, Chavan SB, Morade AS, Nangare DD, Reddy KS (2024) Dragon fruit- prospectus and production technique in India.

17. Keerthika A, Lakshmi P, Chavan SB, Subbu Lakshmi V, Choudhary KK, Noor Mohamed MB, Chichaghare AR, Verma A, and Gupta DK (2024) Multistrata agroforestry systems: spatial and temporal utilization of resources for higher production and better income. In: S Kumar et al. (Eds). Agroforestry solutions for climate change and environmental restoration. Springer, Singapore. Pp 33-61. DOI:10.1007/978-981-97-5004-7_2

18. Kochewad SA, Kumar N, Reddy KS (2024) Climate resilient integrated farming system in scarcity regions. In: CB Harisha et al (Eds). Strategies for abiotic stress management in agriculture. National Institute of Agriculture Extension Management (MANAGE), Hyderabad, India. Pp: 83-95. ISBN: 978-81-19663-92-7

19. Kochewad SA, Pradhan A, Salunkhe VS, Chavan SB, Wakchaure GC, Kakade VD, Kumar N, Rajagopal V, Rajkumar V, Halli HM, Meena LR, Subash N, Ravi Kumar K, Gopalakrishnan B, Taware P, Chahande P, Reddy KS (2023) Climate resilient integrated farming system model for enhancing productivity and livelihood improvement of farmers in semi-arid

regions. In: SB Chavan et al. (Eds) Mitigating abiotic stress in agriculture: promising technologies. ICAR- National Institute of Abiotic Stress Management. Pp 22-23.

20. Kothiyal S, Sah S, Chilwal A, Singh RN (2024) Crop modelling for climate change studies. In: H. Pathak et al. (Eds). Climate change impacts on soil-plant-atmosphere continuum. Springer Nature Singapore. Pp 529-555. DOI:10.1007/978-981-99-7935-6_20

21. Kumar D, Prasad R, Chavan S, Ram A, Dev I, Shukla A, Singh P (2024) Medicinal agroforestry system: The way towards conservation. In: G Shukla et al (Eds). Bioprospecting of ethnomedicinal plant resources. Apple Academic Press. Pp 503. DOI:10.1201/9781003451488

22. Kumar N, Kumar P, Kochewad SA (2024) Application of feed for stress management in aquaculture. In: CB Harisha et al (Eds). Strategies for abiotic stress management in agriculture. National Institute of Agriculture Extension Management (MANAGE), Hyderabad, India. Pp 146-154. ISBN: 978-81-19663-92-7

23. Nargund R, Halli H, Yadav D, Chaudhary A, Rajpoot SK (2024). Modeling plant growth, nutrition, and dynamics of soil organic carbon under changing climate and land use. In: SA Edrisi et al. (Eds). Sustainable plant nutrition and soil carbon sequestration. Springer, Cham. Pp 101-121. DOI:10.1007/978-3-031-53590-1_6

24. Navyasree P, Kumar S, Avinashlingam NAV, Vinayagam SS (2024). Agribusiness Management Education in India. In: Ch Srinivasrao et al. (Eds). Research and technology advancements in agriculture. National Academy of Agricultural Research Management (NAARM), Hyderabad, India. Pp 625-644.

25. Rajpoot SK, Singh NK, Sanodhiya P, Chaudhary R, Yadav A, Kumar SA, Gupta G, Raghavendra, Singh U, Halli HM (2024) Dynamics of nutrients, soil organic carbon and smart nutrient management practices. In: P Kumar and Aishwarya (Eds). Technological approaches for climate smart agriculture. Springer, Cham. Pp 79-107. DOI:10.1007/978-3-031-52708-1_5

26. Singh R, Chavan SB, Kakade VD, Morade AS, Singh AK, Rawale GB, Uthappa AR, Keerthika A, Chichaghare AR, Gurav S, and Reddy KS (2024) Ecosystem services provided by urban and peri-urban forests. In: H Singh (Ed). Urban forests, climate change and environmental pollution. Springer, Cham, Pp 417-445. DOI:10.1007/978-3-031-67837-0_20

27. Singh RN, Krishnan P, Sah S, Singh VK (2024) Application of machine learning in plant disease detection and classification. In: VK Singh et al. (Eds). Diseases of field crops: diagnostics and management. Springer Nature Singapore. Pp 153–167. DOI:10.1007/978-981-97-6160-9_7