

Publications (2013-14)

Technical Bulletin/ Books

1. Chakraborty SK. 2013. Fundamental Food Engineering, Narosa Publishing House, Daryaganj, New Delhi. ISBN: 978-81-8487-334-4
2. Chandra Punit. 2014. Nutritional and Anti nutritional components of food. *In*: Training programme on “Equipment and Technology for Processing and Value-addition to Agricultural Products at Small Scale/Rural Level” for AARDO participants. Technical report no. CIAE/TTD/2014/435. Pp 237-245.
3. Choudhary D and RC Singh. 2013. Improved Technology for Utilization of Draught Animal. CIAE Technical Bulletin No. CIAE/UAE/2013/160.
4. Dubey AK, S Gangil, KP Singh, BB Gaikwad, RC Singh, PS Tiwari, KVR Rao, RR Potdar, and CR Mehta. 2013. Research accomplishments under national initiative on climate resilient agriculture, CIAE Technical Bulletin, CIAE/AMD/2013/419.
5. Kulkarni SD. (Ed.) 2013. Processing and value addition of soybean and coarse cereals. Book No. CIAE / 2013/5. CIAE, Bhopal. ISBN No. 978-81-909305-4-3.
6. Mangaraj S, MK Tripathi and Nawab Ali. 2013. Hand Book of Nutraceuticals & Functional Foods: Soybean as an Example. Satish Serial Publishing House, New Delhi. pp350. ISBN: 9789381226728.
7. Mehta CR and S Singh. 2013. Research Highlights. CIAE Technical Bulletin No. CIAE/FIM/2013/158.
8. Mehta CR. (2013). Success Stories. Extension Bulletin No. CIAE/FIM/2013/40.
9. Mehta CR. (2013). Progress Report and Proceedings of XXIX Workshop of All India Coordinated Research Project on Farm Implements and Machinery. Technical Report No. CIAE/AMD/2013/424.
10. Patil RT and S Mangaraj. 2013. Processing Technology for Food Legumes. Satish Serial Publication, New Delhi. ISBN: 978-93-81226-61-2.
11. Rao KVR, R Keshri, V Agrawal, S Sushila, L Chourasia, D Jat and GP Patel. 2013. *Sanrakshit kheti*. CIAE Technical Bulletin No. CIAE/PFDC/2013/426.
12. Saha KP, D Singh, D Choudhury, DK Dwivedi and Manish Kumar. 2013. Draught animal power in Madhya Pradesh. CIAE Technical Bulletin No. CIAE/UAE/2013/163.
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14. Selvan MM, R Naik, DCP Ambrose and SJK Annamalai. 2013. Rural farm machinery centre. CIAE Technical Bulletin No. CIAE/IEP/2013/1.
15. Singh PL, AK Dubey, RC Singh. 2014. Biomass briquetting plant. Extension Bulletin No. CIAE/AEP/2014/92.
16. Singh PL, S Singh, RC Singh and PC Jena. 2014. Solar assisted dehumidifier based dryer for high value crops. Technical Bulletin No. CIAE/AEP/2014/168.
17. Singh RC, KC Pandey and PC Jena. 2014. Success and bottlenecks of installation and operation of community biogas plants. Technical Bulletin No. CIAE/AEP/2014/432.
18. Sinha LK, Punit Chandra and MK Tripathi. 2013. Advances in Bioprocessing system for development of functional food and value addition to byproducts. Central Institute of Agricultural Engg. (ICAR) Bhopal. Technical Bulletin No. CIAE/APPD/2013/162.
19. Tripathi MK and RM Shrivastava. 2013. Modern Food: Current Issues and Perspectives. Jaya Publishing House, New Delhi. pp455. ISBN: 978-93-82471-18-9.

20. Tripathi MK and S Mangaraj. 2013. Food: Quality, Safety and Packaging – A Technical Bulletin. Lap Lambert Academic publishing, Germany. 2013. ISBN: 978-3-659-44600-9.
21. Yadav MK, MK Tripathi and D Yadav (Eds.). 2014. Biotechnology: Recent Advances and Diverse Applications, Biotech Books, New Delhi-110 002, ISBN: 978-81-7622-315-7. Page 253-263.
22. Handbook of Agricultural Engineering (An ICAR Publication): The ICAR has published the Handbook of Agricultural Engineering. The Handbook comprises 50 chapters under four sections, namely Farm Machinery and Power, Soil and Water Engineering, Energy in Agriculture and Agro-Process Engineering. This publication would be useful to students, researchers, extension workers, farmers, policy makers, entrepreneurs and other stakeholders. The following scientists of the Institute have contributed in various sections of this handbook:

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|-----------------------|----------------|
| • Agrawal KN | • Singh S |
| • Badegaonkar UR | • Tamhankar MB |
| • Bargale PC | • Tiwari PS |
| • Bhandarkar DM | |
| • Bhargav VK | |
| • Chandra Punit | |
| • Deshpande SD | |
| • Agrahar- Murugkar D | |
| • Dubey AK | |
| • Gaikwad BB | |
| • Gangil S | |
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| • JainPC | |
| • Kishore R | |
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| • Kulkarni SD | |
| • Kushwaha HL | |
| • Mangaraj S | |
| • Mehta CR | |
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| • Pandey KC | |
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| • Saxena CK | |
| • Singh K | |
| • Singh KP | |
| • Singh PL | |
| • Singh R | |
| • Singh RC | |
| • Singh RS | |

Book Chapters

1. Chandel NS, CR Mehta, KN Agrawal and K Golhani. 2013. Yield mapping in soybean crop by grain combine harvester fitted with yield monitor. *In: Precision Agriculture for Sustainable Food Production (Eds. YC Bhatt GS Tiwari, NS Rathore and D Sharma)*. Himanshu Publications, New Delhi, pp: 15-20, ISBN No.: 9788179062425.
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3. Goswami TK and S Mangaraj. 2013. CA/MA Storage of Fruits and Vegetables. *In: Introduction to advanced Food processing Technology. (Ed. JK Sahu)*. Taylor and Francis group of publication, USA. pp: 237-273, ISBN No.: 9781439880715.
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5. Kulkarni SD. 2013. Soybean processing technologies for nutrition security and entrepreneurship. *In: Processing and Value Addition of Soybean and Coarse Cereals (Ed. SD Kulkarni)*, Book No. CIAE / 2013/5. CIAE Bhopal. pp: 14-21.
6. Kulkarni SD. 2013. Production of soyflours. *In: Processing and Value Addition of Soybean and Coarse Cereals (Ed. SD Kulkarni)*. Book No. CIAE / 2013/5. CIAE Bhopal. pp: 36-39.
7. Kulkarni SD. 2013. Soybean processing machinery. *In: Processing and Value Addition of Soybean and Coarse Cereals (Ed. SD Kulkarni)*. Book No. CIAE / 2013/5. CIAE Bhopal. pp: 69-73.
8. Mehta CR and NS Chandel. 2013. Perspective of Precision Farming in India. *In: Precision Agriculture for Sustainable Food Production (Eds. YC Bhatt GS Tiwari, NS Rathore and D Sharma)*. Himanshu Publications, New Delhi, pp: 1-6, ISBN No.: 9788179062425.
9. Mehta CR, R Nair and M Gupta. 2014. Climate Resilient Technologies for Mitigating GHGs Emission in Agriculture. *In: Conservation Agriculture for Carbon Sequestration and Sustaining Soil Health (Eds. J Somasundaram, RS Chaudhary, A Subba Rao, KM Hati, NK Sinha, MV Coumar)*. New India Publishing Agency, New Delhi, pp: 357-369.
10. Mohapatra D and S Prasad. 2013. Drying of Spearmint Leaves for Value Addition. *In: Emerging Food Processing Technologies for Small Scale Industries (Eds. GP Sharma, RC Verma and SK Jain)* Himanshu Publications, New Delhi-2. pp:174-177, ISBN No.: 978-81-7906-322-4,
11. Singh CD. 2013. Carbon nanotube based nano-sensors. *In: Nanotechnology in Soil Science & Plant Nutrition (Eds. T Adhikari, S Kundu and A Subba Rao)*. Indian Institute of Soil Science (ICAR), Bhopal. pp 103-113.
12. Singh CD. 2013. Wireless nano-sensor communication network in agriculture. *In: Nanotechnology in Soil Science & Plant Nutrition (Eds. T Adhikari, S Kundu and A Subba Rao)*. Indian Institute of Soil Science (ICAR), Bhopal. pp 103-113.
13. Singh KP. 2014. Evaluation of conservation agriculture machinery on carbon emission: A Case Study. *In: Conservation agriculture for carbon sequestration and sustaining soil health (Eds. J Somasundaram, RS Chaudhary, A Subba Rao, KM Hati, NK Sinha, MV Coumar)*. New India Publishing Agency, New Delhi, pp 392-401.

14. Singh RC. 2013. Role of farm machinery in reducing green house gas emissions. *In: Climate change and natural resource management (Eds. S Lenka, NK Lenka, S Kundu and A Subbarao)*. New India Publishing Agency, New Delhi, pp. 215-231, ISBN No.: 978-93-81450-67-3.
15. Tripathi MK and AK Gaur. 2014. Herbicide resistance in phalaris minor and genetic-medication in crop. *In: Approaches to Plant stress and their Management*. Springer Publication. pp. 85-106, ISBN 978-81-322-1619-3.
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18. Tripathi MK, V Sharma, N Goyal and A Kumar. 2014. Probiotics in Human Health Concepts and Applications of Biotechnology. *Biotechnology: Recent Advances and Diverse Applications (Eds. MK Yadav, MK Tripathi and D Yadav)*, Biotech Books, New Delhi-110 002, ISBN: 978-81-7622-315-7. Pp 137-152.
19. Tripathi MK, SS Deshpande, G Mittal and G Kaushik. 2014. Functional foods and Human health. *Biotechnology: Recent Advances and Diverse Applications (Eds. MK Yadav, MK Tripathi and D Yadav)*, Biotech Books, New Delhi-110 002, ISBN: 978-81-7622-315-7. Page 225-252.
20. Kumar A, S Saxena, MK Tripathi and MK Yadav. 2014. Environmental Biotechnology: An Overview. *Biotechnology: Recent Advances and Diverse Applications (Eds. MK Yadav, MK Tripathi and D Yadav)*, Biotech Books, New Delhi-110 002, ISBN: 978-81-7622-315-7. Page 253-263.
21. Tewari A, M Sirmaur, Pritti, MK Tripathi and R Shrivastava. 2014. Bioinformatics: An Important Tool for health Care. *Biotechnology: Recent Advances and Diverse Applications (Eds. MK Yadav, MK Tripathi and D Yadav)*, Biotech Books, New Delhi-110 002, ISBN: 978-81-7622-315-7. Page 318-326.
22. Tripathi MK, R Kumar and S Pandey. 2014. The molecular Biology of promoters and Eukaryotic Promoters Prediction. *Biotechnology: Recent Advances and Diverse Applications (Eds. MK Yadav, MK Tripathi and D Yadav)*, Biotech Books, New Delhi-110 002, ISBN: 978-81-7622-315-7. Page 365-393.
23. Yadav MK, A Yadav, MK Tripathi, S Kumar, RS Yadav, K Khilari and D Yadav. 2014. Concepts and Applications of Biotechnology. *Biotechnology: Recent Advances and Diverse Applications: (Eds. MK Yadav, MK Tripathi and D Yadav)*. Biotech Books, New Delhi-110 002, ISBN: 978-81-7622-315-7. Page 1-29.

Papers Published

1. Agrahar-Murugkar D, N Kotwaliwale, M Kumar and C Gupta. 2013. Effect of sprouting on rheological properties of soy-butter. *LWT - Food Science and Technology*, 54 (1): 95-100.
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16. Balasubramanian S, R Kumar, KK Singh, RJ Zachariah and Vikram. 2013. Physico-mechanical properties of black pepper (*Piper nigrum* L.). Journal of Spices and Aromatic Crops, 22 (2): 131-137.
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