



(Gazia Nasir)

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<https://scholar.google.com/citations?user=9cjd5fUAAAAJ&hl=en&oi=ao>

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PROFILE

Profile Summary

Currently, working as an Assistant professor in Department of Bioengineering, Integral University. I did B.Tech. in Agricultural Engineering from G.B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand, India. I did M.Tech. in Food Technology from Jamia Hamdard, New Delhi. I am pursuing Ph.D. in Department of Post Harvest Engineering and Technology from Aligarh Muslim University. I have published nine research papers and four book chapters in International publications. I have seven international and national patents to my credit.

RESEARCH INTEREST:

Food product development
Food preservation
Agro waste valorization
Bakery Technology

SUMMARY OF RESEARCH ACCOMPLISHMENT:

I am working on studies on characterization and utilization of agro industrial waste. I have worked on development of fiber enriched cookies using finger millet and carrot pomace powder, development of multigrain noodles using sorghum. I have some collaborative works on storage studies of edible coated jaggeries and optimizing crystallinity of cellulose nanocrystals of rice straw.

PROFESSIONAL MEMBERSHIP:

AFSTI
ISAE

COURSE TAUGHT:

- Dairy Technology
- Food Drying and Dehydration

- Product Development and Sensory Evaluation
- Food Chemistry
- Cereal and Bakery Technology
- Dairy Product Technology
- Food Extrusion Technology
- Process Instrumentation and Calculation

ADMINISTRATIVE/DEPARTMENTAL RESPONSIBILITY

Course coordinator (3 year)
Assist in compiling of activity related data

STUDENTS SUPERVISION

M.Tech. Two
B.Tech. Four

PUBLISHED/GRANT PATENTS

- Solar powered hydroponics system, Indian, 400393-001, 2023, Granted
- A Domestic portable Hydroponic system, Indian, 202411044095 A, 2024, Published
- Solar powered Portable Hydroponic Set up for Seed Germination, Indian, 202411039019 A, 2024, Published
- Solar based portable hydroponic system, German, 202022102834.6, 2022, Granted
- A pedal operated integrate d potato peeling and slicing machine, South African 02358 2023, 2023, Granted
- Portable Household Fermenter, United Kingdom, 6340942,2024, Granted
- Development of batch type malting chamber, United Kingdom, 6363414, 2024, Granted

PUBLISHED/ACCEPTED SCI/SCOPUS RESEARCH PAPERS

- **Nasir, G.**, Zaidi, S., Ahmad, S., Asfaq, Allai, F. M., Ahmad, F., & Tarafdar, A. (2024). Current status of technological advancement of ultrasound processing in the food industry and its SWOT analysis. **Critical Reviews in Food Science and Nutrition**, 1–18. <https://doi.org/10.1080/10408398.2024.2405992> (**Impact Factor: 7.3**)
- Chand, K., **Nasir, G.**, Hussain, A., Bisht, B., Ahmad, S., & Kumar, S. (2023). Numerical optimization of process parameters and quality stability of active edible coated jaggery cubes during storage. *Journal of Agriculture and Food Research*, 14, 100790. <https://doi.org/10.1016/j.jafr.2023.100790> (**Impact Factor: 4.8**)
- Ahmad, S., Nema, P. K., **Nasir, G.**, Asfaq, Kheto, A., Vashishth, R., & Kumar, Y. (2023). Formulation and optimization of multigrain fermented noodles: A healthy and palatable convenience food option. *Journal of Food Processing and Preservation*, 2023(1), 8813705. <https://doi.org/10.1155/2023/8813705>

- Bhat, M. I., Shahi, N. C., Lohani, U. C., Kumar, A., Singh, S., **Nasir, G.**, & Aman, J. (2023). Optimizing crystallinity and particle size of cellulose nanocrystals from rice straw biomass: an integrated sonication-assisted acid hydrolysis approach. *Biomass Conversion and Biorefinery*, 1-12. <https://doi.org/10.1007/s13399-023-05195-5>
- Ahmad, S., **Nasir, G.**, Azad, Z. A. A., Khan, Z. A., Jan, K., & Bashir, K. (2024). Optimisation of multigrain seera from sorghum, green gram and finger millet: effect of ingredients on functional, structural and thermal properties. *Journal of Food Science and Technology*, 61(3), 471-480. <https://doi.org/10.1007/s13197-023-05854-5>
- **Nasir, G.**, Zaidi, S., Asfaq, Sirohi, R. Characterization of pea processing byproducts for possible food industry applications. *Journal of Food Science and Technology* (2023) <https://doi.org/10.1007/s13197-023-05718-y> (Impact Factor: 3.117)
- **Nasir, G.**, Zaidi, S., Tabassum, N., Asfaq. A review on nutritional composition, health benefits and potential applications of by-products from pea processing. *Biomass Conversion and Biorefinery*, 1-14 (2022). <https://doi.org/10.1007/s13399-022-03324-0> (Impact Factor: 4.987)
- **Nasir, G.**, Chand, K., Azaz Ahmad Azad, Z.R. et al. Optimization of Finger Millet and Carrot Pomace based fiber enriched biscuits using response surface methodology. *J Food Sci Technol* 57, 4613–4626 (2020). <https://doi.org/10.1007/s13197-020-04499-y> (Impact Factor: 3.117)
- Wajahat, W., Azad, Z. R., Nazir, S., & **Nasir, G.** (2021). Real Time-PCR coupled with melt curve analysis for detecting the authenticity of camel milk. *Journal of Food Science and Technology*, 1-11 <https://doi.org/10.1007/s13197-021-05164-8> (Impact Factor: 3.117)

PAPER PUBLISHED IN INTERNATIONAL CONFERENCES

Nil

PUBLISHED NON-SCI-SCOPUS BUT PEER REVIEWED RESEARCH PAPERS

Nil

BOOK EDITED/ AUTHORED

Nil

BOOK CHAPTERS

- Microwave Heating of Food Products,, Innovations in Agricultural and Biological Engineering, Apple Academic Press, CRC Press, a Taylor & Francis Group, 2022
- Application of ultrasound in the preservation of fruits and vegetables, Innovations in Agricultural and Biological Engineering, Apple Academic Press, CRC Press, a Taylor & Francis Group, 2022
- Malnutrition: Impact of Zinc on Child Development, Microbial Biofertilizers and Micronutrient Availability, Springer, 2021
- Ultrasound assisted enzymatic extraction of oil, Enzymes in oil processing: Recent Developments and Applications, Elsevier, 2023
