

PUBLICATION IN THE YEAR 2023 (39 Research Papers)

| Title of paper | Name of the authors | Name of journal | Year of publication | ISSN number | Link to the recognition in UGC enlistment of the Journal |
|--|---|--|---------------------|--------------------|---|
| Effect of citric acid and sodium trimetaphosphate induced crosslinking on functional, rheological, structural, and thermal properties of buckwheat starch. | Kumar, Y., Singh, S., & Saxena, D. C. | Starch-Stärke, 2200267. https://doi.org/10.1002/star.202200267 | 2023 | 00389056, 1521379X | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| Guinea Grass Seed (Megathyrsus Maximus), A Potential Novel Starch Source: Impact of Isolation Methods on Functional, Morphological, Structural, Pasting, and Rheological Properties. | Bist, Y., Sharanagat, V. S., & Saxena, D. C. | Starch-Stärke, 2300003 | 2023 | 00389056, 1521379X | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| Valorization of banana and kinnow waste in the development of nutritional bar using extrusion and plate-molding technique. | Fazil, C., Kumar, Y., Sharma, R., Srivastava, T., & Saxena, D. C. | Waste and Biomass Valorization, 1-17. | 2023 | 1877-2641 | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| Principal component analysis for particle size-based classification of gorgon nut flour and their morphological, structural, thermal and pasting characteristics. | Sharma, R., Kotwaliwale, N., Jindal, N., & Saxena, D. C. | International Journal of Food Science & Technology, 58(6), 3144-3153 | 2023 | 09505423, 13652621 | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| Studies on rheological behavior of native and octenyl succinic anhydride modified buckwheat | Bist, Y., Kumar, Y., & Saxena, D. C. | | 2023 | | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |

| | | | | | |
|---|---|--|------|---------------------|---|
| (Fagopyrum esculentum) starch gel and improved flow properties thereof. Journal of Food Process Engineering, 46(1), e14193 | | | | | |
| Green extraction of dietary fiber concentrate from pearl millet bran and evaluation of its microstructural and functional properties. | Ravinderjit Kaur, Parmjit S Panesar*, Charanjit S. Riar | Biomass Conversion and Biorefinery, https://doi.org/10.1007/s13399-023-04627-6 (Impact Factor- 4.050) | 2023 | 21906815, 21906823. | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| Evaluation of nutritional profile, phytochemical potential, functional properties and anti-nutritional studies of Citrus limetta peels. | Divyani Panwar, Parmjit S. Panesar*, & Harish K. Chopra | Journal of Food Science and Technology, 1-11. (Impact Factor- 3.117) | 2023 | 00221155, 09758402. | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| A review on the industrial wastewater with the efficient treatment techniques. | Anil Kumar, Avinash Thakur, & Parmjit S. Panesar | Chemical Papers. 1-33. https://doi.org/10.1007/s11696-023-02779-3 (Impact Factor- 2.146) | 2023 | 03666352, 13369075 | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| Ultrasound-assisted extraction of pectin from Citrus limetta peels: Optimization, characterization, and its comparison with commercial pectin | Divyani Panwar, Parmjit S. Panesar*, & Harish K. Chopra | Food Bioscience, 51, 102231. (Impact Factor- 5.314) https://doi.org/10.1016/j.fbio.2022.102 | 2023 | 22124306, 22124292 | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| Sequential Extraction of Functional Compounds from Citrus reticulata Pomace Using Ultrasonication Technique. | Samandeep Kaur, Parmjit S. Panesar*, & Harish K. Chopra | Food Chemistry Advances, 2, 100155. https://doi.org/10.1016/j.focha.2022.100155 . | 2023 | 2772-753X | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |

| | | | | | |
|--|---|--|------|--------------------|---|
| Modeling and optimization of ultrasound-assisted extraction of bioactive compounds from <i>Allium sativum</i> leaves using Re-sponse Surface Methodology and Artificial Neural Network coupled with Genetic Algorithm. | Shekhar S, Prakash P, Singha P, Prasad K, Singh SK | Foods 12:1925 DOI: https://doi.org/10.3390/foods12091925 . (IF: 5.561) | 2023 | 2304-8158) | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| Non-Destructive Evaluation of Moisture Content for Spinach Leaf Powder Using Complex Impedance Spectroscopy. | Shekhar S, Prasad K | Journal of the ASABE 66:415-421 DOI: https://doi.org/10.13031/ja.14873 . (IF: 1.390) | 2023 | 27693287, 27693295 | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| Comparative elucidation of garlic peeling methods and positioning of quality characteristics using principal component analysis. | Prakash P, Prasad K | Acta Scientiarum Polonorum Technologia Alimentaria 22:119-131 DOI: http://dx.doi.org/10.17306/J.AFS.2023.1114 . (IF: 0.319) | 2023 | 1644-0730 | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| Wheat Bran as Potential Source of Dietary Fiber: Prospects and Challenges. | Saini, P., Islam, M., Das, R., Shekhar, S., Sinha, A. S. K., & Prasad, K. | Journal of Food Composition and Analysis, 116, 105030. (IF: 4.3) | 2023 | 0889-1575 | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
|) Effect of Acid Pretreatment on Physico-Chemical, Optical, Functional, Thermal, and Morphological Characteristics of Unripe Plantain and Banana Flour. | Gadhve, R. K., Kaur, R., Prasad, K. | Journal of Food Chemistry & Nanotechnology 9:27-35. | 2023 | 24714291. | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |

| | | | | | |
|--|---|---|------|-----------|---|
| Rice Straw as a Source of Nanocellulose Fibers for the Sustainable | Islam, M., Saini, P., Das, R., Shekhar, S., Sinha, A. S. K., & Prasad, K. | Food Packaging Materials: A Review. BioResources. 18 (1), 2351-2385. (IF: 1.747). | 2023 | 1930-2126 | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| A review on Api-products: current scenario of potential contaminants and their food safety concerns. | Anamika Sharma, Kirty Pant, Dilpreet Singh Brar, Avinash Thakur, & Vikas Nanda (| Food Control, Volume 145, https://doi.org/10.1016/j.foodcont.2022.109499 . | 2023 | 0956-7135 | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| A comprehensive review on unethical honey: Validation by emerging techniques. | Dilpreet Singh Brar, Kirty Pant, Reshma Krishnan, Sawinder Kaur, Prasad Rasane, Vikas Nanda, Sudhanshu Saxena, Satyendra Gautam | Food Control, Volume 145, 109482. https://doi.org/10.1016/j.foodcont.2022.109482 . | 2023 | 0956-7135 | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| Comprehensive Analysis of Physicochemical, Functional, Thermal, and Morphological | Sanyukta, Dilpreet Singh Brar, Kirty Pant, | ACS Omega., https://doi.org/10.1021/acsomega.3c03429 . | 2023 | 24701343 | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |

| | | | | | |
|---|--|---|------|--------------------|---|
| Properties of Microgreens from Different Botanical Sources, | Sawinder Kaur, Vikas Nanda, Gulzar Ahmad Nayik, Seema Ramniwas, Prasad Rasane, and Sezai Ercisli | | | | |
| Anti-cancerous effect of corn silk: a critical review on its mechanism of action and safety evaluation. | Amisha Gulati, Jyoti Singh, Prasad Rasane, Sawinder Kaur, Jaspreet Kaur, Vikas Nanda | Biotech, 13(7), 1-15. DOI: 10.1007/s13205-023-03673-1. | 2023 | 2673-6284 | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| Chemical and functional characteristics to detect sugar syrup adulteration in honey from different botanical origins. | Dilpreet Singh Brar, Gulzar Ahmad Nayik, Ashwani Kumar Aggarwal, Sawinder Kaur, Vikas Nanda, Sudhanshu Saxena, | International Journal of Food Properties, Volume 26 - Issue 1. https://doi.org/10.1080/10942912.2023.2218066 . | 2023 | 15322386, 10942912 | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |

| | | | | | |
|--|---|---|------|------------------------|---|
| | Satyendra Gautam, Seema Ramniwas &Teferi Damto Tolcha | | | | |
| Effect of film forming solution pH on antibacterial, antioxidant and structural characteristics of edible films from modified quinoa protein, | Nisar A Mir, Charanjit S Riar, Sukhcharn Singh | Food Hydrocolloids, 135, 108190 | 2023 | 0268-005X. | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| Difference in the nutritional, in vitro, and functional characteristics of protein and fat isolates of two Indian Chia (<i>Salvia hispanica</i> L) seed genotypes with variation in seed coat color | Amanda Manoj Malik, Charanjit S Riar, | Journal Of Food Science, 87 (9), 3872-3887 | 2023 | 00221147, 17503841. | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| Detoxification of Meghalayan cherry (<i>Prunus nepalensis</i>) kernel and its effect on structural and thermal properties of proteins. | Piyush Kashyap, Charanjit Singh Riar, Navdeep Jindal | Food Research International, 164, 112437. | 2023 | 0963-9969. | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| . Ultrasonic extraction of soy protein isolate: Characterization and comparison with microwave and enzymatic extraction methods. | Dipak Das, Parmjit S. Panesar and Charanjiv Singh Saini. | Journal of Food Science, 1-22. https://doi.org/10.1111/1750-3841.16654 . | 2023 | 00221147, 17503841. | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |

| | | | | | |
|--|---|---|------|--------------------|---|
| High-intensity ultrasound (HIUS) treatment of sunnhemp (<i>Crotalaria juncea</i> L.) protein isolate: Modification of functional, structural and microstructural properties. | Rashmi Rawat and Charanjiv Singh Saini. | Food and Bioprocess Technology, https://doi.org/10.1007/s11947-023-03011-6 . | 2023 | 19355149, 19355130 | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| Synergistic effect of combined treatments in the reduction of antinutritional factors in underutilized sunnhemp (<i>Crotalaria juncea</i> L.) legume: effect on structural, morphological, thermal and pasting characteristics of sunnhemp flour. | Rashmi Rawat and Charanjiv Singh Saini. | Journal of Food Measurement and Characterization, https://doi.org/10.1007/s11694-023-01940-6 . | 2023 | 21934134, 21934126 | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| Harnessing plum (<i>Prunus domestica</i> L.) processing wastes for the fabrication of bio-composite films: An attempt towards a food circular bioeconomy, | Mohd Aaqib Sheikh, Charanjiv Singh Saini and Harish Kumar Sharma. | Food Hydrocolloids, 142,108790, 1-12. | 2023 | 0268-005X. | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| Investigating the effect the supercritical carbon dioxide treatment on the rheological, thermal and functional properties of | Mohd Aaqib Sheikh, Charanjiv Singh Saini and Harish | Foods, 12, 815, 1-17. | 2023 | 2304-8158 | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |

| | | | | | |
|---|--|---|-------|---------------------|---|
| plum (<i>Prunus domestica</i> L.) kernel protein isolates, | Kumar Sharma. | | | | |
| High-intensity ultrasound treatment: An effective way of modifying thermal and rheological properties of sunnhemp (<i>Crotalaria juncea</i>) protein isolate (SHPI) by varying ultrasound amplitude and time. | Rashmi Rawat and Charanjiv Singh Saini. | Journal of Food Process Engineering, doi:10.1111/jfpe.14290, 1-11. | 2023. | 01458876, 17454530. | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| Supercritical carbon-dioxide treatment of plum (<i>Prunus domestica</i> L) kernel protein isolate: Impact on structural, thermal, physical, and functional properties. | Mohd Aaqib Sheikh, Charanjiv Singh Saini and Harish Kumar Sharma.. | Sustainable Chemistry and Pharmacy, 32, 100979, 1-15. | 2023 | 2352-5541 | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| Structural modification of plum (<i>Prunus domestica</i> L) kernel protein isolate by supercritical carbon-dioxide treatment: Functional properties and in-vitro protein digestibility. | Mohd Aaqib Sheikh, Charanjiv Singh Saini, and Harish Kumar Sharma. | International Journal of Biological Macromolecules, 230, 123128, 1-10 | 2023 | 01418130 | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| Effect of carrier agents on quality parameters of spray-dried encapsulated diosgenin powder and the optimization of process parameters. | Arya, P. and Kumar, P. | Foods. 12(12), | 2023 | 12122330 | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |

| | | | | | |
|---|---|---|------|-------------|---|
| Phytochemical, phase transition, FTIR, and antimicrobial characterization of defatted <i>Trigonella foenum graecum</i> seeds extract as affected by solvent polarity. | Arya, P., and Kumar, P. | Journal of Food Measurement and Characterization, 4(1): | 2023 | 023-02028-x | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| Encapsulated diosgenin powder production using binary carrier: process optimization and powder characterization. | Arya, P. and Kumar, P. | Food Hydrocolloids for Health. https://doi.org/10.1016/j.fhfh.2023.100134 . | 2023 | | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| Production of encapsulated (25R)-Spirost-5-en-3 β -ol powder with composite coating material and its characterization. | Arya, P. and Kumar, P. | Steroids. https://doi.org/10.1016/j.steroids.2023 . | 2023 | | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| Simulation and experimentation on parameters influencing microwave-assisted extraction of bioactive compounds from <i>Punica granatum</i> waste and its preliminary analysis. | Mali, P.S. and Kumar, P. | Food Chemistry Advances, https://doi.org/10.1016/j.focha.2023.100344 . | 2023 | | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
| Edible composite films based on chitosan/guar gum with ZnO-NPs and roselle calyx extract for active food packaging. | Dehankar, H. B., Mali, P.S. and Kumar, P. | Applied Food Research 2(1): https://doi.org/10.1016/j.afres.2023.100276 . | 2023 | 27725022 | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |

| | | | | | |
|---|-----------------------------------|--|------|-----------|---|
| Diosgenin: Chemistry, extraction, quantification and health benefits. | Arya, P. Munshi, M. and Kumar, P. | Food Chemistry Advances, https://doi.org/10.1016/j.focha.2022.100170 . | 2023 | 2772-753X | https://ugccare.unipune.ac.in/Apps1/User/WebA/CAREList |
|---|-----------------------------------|--|------|-----------|---|