

# Dr. Tanmay Sarkar



9<sup>TH</sup> NOV 1988, INDIA

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## OBJECTIVE

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Seeking a Book Editor role in food technology subjects, where I can apply my passion for the culinary sciences, food science and nutrition, food technology to shape and refine engaging manuscripts, ensuring accurate, accessible, and impactful content for readers.

## CURRENT AFFILIATION

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<b>Lecturer:</b>	Department of Food Processing Technology, Malda Polytechnic, West Bengal State Council of Technical Education, Govt. of West Bengal, India	<b>2018 - present</b>
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## ACADEMIC BACKGROUND

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<b>Ph.D. (Engineering)</b>	Department of Food Technology and Biochemical Engineering, Jadavpur University, Kolkata, India	<b>2016 - 2021</b>
<b>M. Tech</b>	Department of Food Technology and Biochemical Engineering, Jadavpur University, Kolkata, India	<b>2012 - 2014</b>
<b>B. Tech</b>	Department of Food Technology and Biochemical Engineering, Jadavpur University, Kolkata, India	<b>2009 - 2012</b>

## SCHOLASTIC ACHIEVEMENTS

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<b>GATE, Govt. of India</b>	<b>Engineering Science (XE)</b>	<b>2012</b>
<b>Rajib Gandhi National Fellowship, University Grant Commission, Govt. of India</b>	Guru Nanak Institute of Technology (GNIT), Kolkata, West Bengal, India	<b>2017</b>

<b>Best Paper Award</b> , HMR Institute of Technology and Management, New Delhi	"A comparative Analysis of Clustering and Bioclustering Algorithms in Gene Analysis"	<b>ICICPS, 2020</b>
<b>Best Paper Award</b> , School of Computer Science, University of Petroleum & Energy Studies, Dehradun	"Comparative Approach of Response Surface Methodology and Particle Swarm Optimization-Artificial Neural Network (PSO-ANN) in Rehydration Ratio Optimization for Bael ( <i>Aegle marmelos</i> (L) Correa) Powder Production"	<b>MIDAS, 2020</b>
<b>Best Paper Award</b> , AISSMS Institute of Information Technology, Pune	"An Efficient and Secured Data Sharing Approach Through Image Transmission"	<b>IEEE-ESCI, 2021</b>

## TEACHING EXPERIENCES

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<b>Lecturer</b>	Department of Food Processing Technology, Malda Polytechnic, West Bengal State Council of Technical Education, Govt. of West Bengal, India	<b>April, 2018 – present</b>
<b>Assistant Professor</b>	Ghani Khan Choudhury Institute of Engineering & Technology (GKCIET), Malda, West Bengal, India	<b>Aug, 2014 – Aug, 2015</b>
<b>Guest Lecturer</b>	Guru Nanak Institute of Technology (GNIT), Kolkata, West Bengal, India	<b>July, 2014 – Aug, 2014</b>
<b>Guest Lecturer</b>	Department of Food Science and Nutrition, Calcutta University, Kolkata, West Bengal, India	

## REASEARCH INTERESTS

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- Functional food development
- Optimization Techniques
- Food Fortification
- Artificial Intelligence in Food Science
- Bioactive compound extraction
- Bio-prospecting

## SKILLS

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- Chromatography
- Artificial intelligence
- Book Editing
- Data analysis
- Food Preservation
- Machine Learning

## EDITORIAL ROLE

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**Editorial Board Member:**

- Journal of Food Quality
- Journal of Food Processing and Preservation
- Journal of Food Biochemistry
- BMC Biotechnology
- Frontiers in Nutrition
- Journal of Applied Biology and Biotechnology

**Guest Editor:**

- Applied Biochemistry and Biotechnology
- Frontiers in Marine Science
- Frontiers in Cellular and Infection Microbiology
- Quality Assurance and Safety of Crops and Foods
- Biomass Conversion and Biorefinery
- Biocatalysis and Agricultural Biotechnology
- Environmental Science and Pollution Research
- Discover Food

**Book Editor:**

- Title: "Bio Prospecting of Natural Compounds in Food, Pharmaceutical and Biomedical Science". Publisher: Nova Science Publishers, Inc., USA. ISBN: 979-8-88697-361-7
- Title: "Recent Frontiers of Phytochemicals: Applications in Food, Pharmacy, Cosmetics and Biotechnology". Publisher: Elsevier Inc., Cambridge USA. ISBN: 978-0-443-19143-5
- Title: "Bioactive Extraction and Application in Food and Nutraceutical Industries". Publisher: Springer Nature, New York, USA. ISBN: eBook ISBN 978-1-0716-3601-5
- Title: "Unleashing the Power of Functional Foods and Novel Bioactives". Publisher: Elsevier Inc., Cambridge USA
- Title: "Fortified Foods". Publisher: Springer Nature, New York, USA
- Title: "Artificial Intelligence in Food Science: Transforming Food and Bioprocess Development". Publisher: Elsevier Inc., Cambridge USA
- Title: "Phytoceuticals in Food for Health and Wellness: Harnessing Plant Therapeutics". Publisher: Elsevier Inc., Cambridge USA
- Title: "Potential Bioactive Ingredients for healthcare & wellness Industry: Recent Advances and Future Prospectives". Publisher: Springer Nature, New York, USA
- Title: "Health, Nutrition and Sustainability: Exploring Unconventional Food Sources: Vol 1". Publisher: Elsevier Inc., Cambridge USA
- Title: "Health, Nutrition and Sustainability: Exploring Unconventional Food Sources: Vol 2". Publisher: Elsevier Inc., Cambridge USA

**NO. OF PUBLICATIONS**

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Journal Publications: 119

Conference Paper: 11

Book Chapters: 13

**SELECTED PUBLICATIONS**

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**JOURNAL PUBLICATIONS**

Name of the Article	Name of the Journal	Name of the Publisher	Name of the Authors	Indexing	Year
Multifunctional applications of natural colorants: Preservative, functional ingredient, and sports supplements	Biocatalysis and Agricultural Biotechnology	Elsevier	Sharmistha Samanta, <b>Tanmay Sarkar*</b> , Runu Chakraborty	SCIE (I. F.): 4 Scopus (citescore): 8.4	2024
Hybrid Deep Learning Algorithm-Based Food Recognition and Calorie Estimation	Journal of Food Processing and Preservation	Wiley, Hindawi	Ritu Agarwal, Tanupriya Choudhury, Neelu J. Ahuja, <b>Tanmay Sarkar*</b>	SCIE (I. F.): 2.5 Scopus (citescore): 3.400	2023
Comprehensive Review on Fruit Seeds: Nutritional, Phytochemical, Nanotechnology, Toxicity, Food Biochemistry, and Biotechnology Perspective	Journal of Applied Biochemistry and Biotechnology	Springer Nature	Sarita Roy, <b>Tanmay Sarkar*</b> , Vijay Jagdish Upadhye, Runu Chakraborty	SCI (I. F.): 3.0 Scopus (citescore): 4.5	2023
Progressive quality estimation of oyster mushrooms using neural network-based image analysis	Quality Assurance and Safety of Crops & Foods	Codon Publisers, Italy	<b>Tanmay Sarkar*</b> , Alok Mukherjee, Kingshuk Chatterjee[...], Mohammad Ali Shariati	SCIE (I. F.): 4 Scopus (citescore): 3.2	2023
Underutilized plant sources: A hidden treasure of natural colors	Food Bioscience	Elsevier	Susmita Ghosh, <b>Tanmay Sarkar</b> , Runu Chakraborty	SCIE (I. F.): 5.2 Scopus (citescore): 5.6	2023
Palm sap sugar an unconventional source of sugar exploration for bioactive compounds and its role on functional fooddevelopment	Heliyon	Cell Press	<b>Tanmay Sarkar*</b> , Megha Mukherjee, Sarita Roy, Runu Chakraborty	SCIE (I. F.): 4 Scopus (citescore): 2.1	2023
The Essence of Bengal's Ethnic Sweetmeats: An Exploratory Journey through History, Tradition, and Culture	Journal of Food Quality	Wiley, Hindawi	<b>Tanmay Sarkar*</b> , Molla Salauddin, Arindam Paul[...], Faisal Imran	SCIE (I. F.): 3.3 Scopus (citescore): 4.4	2023
Artificial Intelligence Aided Adulteration Detection and Quantification for Red Chilli Powder	Food Analytical Methods	Springer Nature	<b>Tanmay Sarkar*</b> , Tanupriya Choudhury, Nikunj Bansal, [...]Jose M. Lorenzo	SCIE (I. F.): 2.9 Scopus (citescore): 6.1	2023
Ankol plant ( <i>Alangium salvifolium</i> )-The treasure trove of bioactives and medicinal potential	Food Bioscience	Elsevier	Susmita Ghosh, <b>Tanmay Sarkar</b> , Runu Chakraborty	SCIE (I. F.): 5.2 Scopus (citescore): 5.6	2022
Bacteriocin: A natural approach for food safety and food security	Frontiers in Bioengineering and Biotechnology	Frontiers	Dibyajit Lahiri, Moupriya Nag, Bandita Dutta, [...], <b>Tanmay Sarkar*</b> , Rinarani Ray	SCIE (I. F.): 5.7 Scopus (citescore): 6.7	2022
Dark chocolate: An overview of its biological activity, processing, and fortification approaches	Current Research in Food Science	Elsevier	Sharmistha Samanta, <b>Tanmay Sarkar*</b> , Runu Chakraborty,[...],	SCIE (I. F.): 6.3 Scopus (citescore):	2022

			Kannan RR Rengasamy	4.4	
Critical Review on Nutritional, Bioactive, and Medicinal Potential of Spices and Herbs and Their Application in Food Fortification and Nanotechnology	Journal of Applied Biochemistry and Biotechnology	Springer Nature	Debopriya Mandal, <b>Tanmay Sarkar*</b> , Runu Chakraborty	SCI (I. F.):3.0 Scopus (citescore): 4.5	2022
Vegetable seeds: A new perspective in future food development	Journal of Food Processing and Preservation	Wiley, Hindawi	Sarita Roy, <b>Tanmay Sarkar*</b> , Runu Chakraborty	SCIE (I. F.): 2.5 Scopus (citescore): 3.400	2022
Quality Assessment of Tindora ( <i>Coccinia indica</i> ) Using Poincare Plot and Cartesian Quadrant Analysis	Food Analytical Methods	Springer Nature	<b>Tanmay Sarkar*</b> , Alok Mukherjee, Kingshuk Chatterjee, [...], Jose M. Lorenzo	SCIE (I. F.): 2.9 Scopus (citescore): 6.1	2022
Nature's palette: An emerging frontier for coloring dairy products	Critical Reviews In Food Science and Nutrition	Taylor & Francis	Susmita Ghosh, <b>Tanmay Sarkar</b> , Runu Chakraborty, [...], Jesus Simal-Gandara	SCIE (I. F.): 11.208 Scopus (citescore): 20.8	2022
Multi-Omics Approach in Amelioration of Food Products	Frontiers in Microbiology	Frontiers	Bandita Dutta, Dibyajit Lahiri, Moupriya Nag, <b>Tanmay Sarkar*</b> , [...], Rinarani Ray	SCIE (I. F.): 5.2 Scopus (citescore): 7.8	2022
Underutilized green leafy vegetables: frontier in fortified food development and nutrition	Critical Reviews in Food Science and Nutrition	Taylor & Francis	<b>Tanmay Sarkar*</b> , Molla Salauddin, Sarita Roy, Runu Chakraborty, Maksim Rebezov, Mohammad Ali Shariati, Muthu Thiruvengadam & Kannan R. R Rengasamy	SCIE (I. F.): 11.208 Scopus (citescore): 20.8	2022
Allergen30: Detecting Food Items with Possible Allergens Using Deep Learning-Based Computer Vision	Food Analytical Methods	Springer Nature	Mayank Mishra, <b>Tanmay Sarkar*</b> , Tanupriya Choudhury, [...], Jose M. Lorenzo	SCIE (I. F.): 2.9 Scopus (citescore): 6.1	2022
Expert Knowledge-Based System for Shelf-Life Analysis of Dairy Cheese Ball (Rasgulla)	Food Analytical Methods	Springer Nature	<b>Tanmay Sarkar*</b> , Molla Salauddin, Siddhartha Pati, [...], Jose M. Lorenzo	SCIE (I. F.): 2.9 Scopus (citescore): 6.1	2022
Detection of Edibility of Amla ( <i>Embllica officinalis</i> ) through PCA Based Image Analysis	Economic computation and economic cybernetics studies and research	Editura Academia de studii economice	<b>Tanmay Sarkar</b> , Alok Mukherjee, Kingshuk Chatterjee, TANUPRIYA CHOUDHURY	SCIE (I. F.): 0.9 Scopus (citescore): 1.6	2022
Development of Artificial Vision System for Quality Assessment of Oyster Mushrooms	Food Analytical Methods	Springer Nature	Alok Mukherjee, <b>Tanmay Sarkar*</b> , Kingshuk Chatterjee, [...], Jose M. Lorenzo	SCIE (I. F.): 2.9 Scopus (citescore): 6.1	2022

Edge Detection Aided Geometrical Shape Analysis of Indian Gooseberry ( <i>Phyllanthus emblica</i> ) for Freshness Classification	Food Analytical Methods	Springer Nature	<b>Tanmay Sarkar*</b> , Alok Mukherjee, Kingshuk Chatterjee, [...], Jose M. Lorenzo	SCIE (I. F.): 2.9 Scopus (citescore): 6.1	2022
Indoor Cardiovascular Health Monitoring System under COVID 19 Situations	Biointerface Research in Applied Chemistry	Biointerface Research Applied Chemistry, Bucuresti, Romania	Alok Mukherjee, Deboleena Sadhukhan, Kingshuk Chatterjee, <b>Tanmay Sarkar*</b>	Scopus (citescore): 3.8	2022
Entropy-Aided Assessment of Amla ( <i>Emblca officinalis</i> ) Quality Using Principal Component Analysis	Biointerface Research in Applied Chemistry	Biointerface Research Applied Chemistry, Bucuresti, Romania	Alok Mukherjee, Kingshuk Chatterjee, <b>Tanmay Sarkar*</b>	Scopus (citescore): 3.8	2022
Engineered Biofilm: Innovative Nextgen Strategy for Quality Enhancement of Fermented Foods	Frontiers in Nutrition	Frontiers	Sreejita Ghosh, Moupriya Nag, Dibyajit Lahiri, [...], <b>Tanmay Sarkar</b> , Rinarani Ray	SCIE (I. F.): 5.0 Scopus (citescore): 3.5	2022
Seafood Discards: A Potent Source of Enzymes and Biomacromolecules With Nutritional and Nutraceutical Significance	Frontiers in Nutrition	Frontiers	Moupriya Nag, Dibyajit Lahiri, Ankita Dey, [...], <b>Tanmay Sarkar</b> , Rinarani Ray	SCIE (I. F.): 5.0 Scopus (citescore): 3.5	2022
New holistic approach for the management of biofilm-associated infections by myco-metabolites	Journal of Basic Microbiology	Wiley	Sreejita Ghosh, Moupriya Nag, Dibyajit Lahiri, <b>Tanmay Sarkar</b> , [...], Rinarani Ray	SCIE (I. F.): 3.1 Scopus (citescore): 5.1	2022
Comparative Analysis of Statistical and Supervised Learning Models for Freshness Assessment of Oyster Mushrooms	Food Analytical Methods	Springer Nature	<b>Tanmay Sarkar*</b> , Alok Mukherjee, Kingshuk Chatterjee, [...], Jose M. Lorenzo	SCIE (I. F.): 2.9 Scopus (citescore): 6.1	2022
Application of bio-inspired optimization algorithms in food processing	Current Research in Food Science	Elsevier	<b>Tanmay Sarkar*</b> , Molla Salauddin, Alok Mukherjee, [...], Jose M. Lorenzo	SCIE (I. F.): 6.3 Scopus (citescore): 4.4	2022
Correlation-Aided 3D Vector Distance Estimation-Based Quality Assessment of Indian Gooseberry	Journal of The Institution of Engineers (India) Series A	Springer Nature	<b>Tanmay Sarkar*</b> , Alok Mukherjee, Kingshuk Chatterjee	Scopus (citescore): 1.6	2022
The Fuzzy Cognitive Map-Based Shelf-life Modelling for Food Storage	Food Analytical Methods	Springer Nature	<b>Tanmay Sarkar*</b> , Molla Salauddin, Siddhartha Pati, [...], Jose M. Lorenzo	SCIE (I. F.): 2.9 Scopus (citescore): 6.1	2022
A Review on the Commonly Used Methods for Analysis of Physical Properties of Food Materials	Applied Sciences	MDPI	<b>Tanmay Sarkar*</b> , Molla Salauddin, Jose M. Lorenzo, [...], Mohammad Ali Shariati	SCIE (I. F.): 2.7 Scopus (citescore): 4.5	2022
Minor Tropical fruits as a potential source of bioactive and	Critical Reviews In	Taylor & Francis	<b>Tanmay Sarkar</b> , Molla Salauddin,	SCIE (I. F.): 11.208	2022

functional foods	Food Science and Nutrition		Arpita Roy, [...], Jesus Simal-Gandara	Scopus (citescore): 20.8	
Novel Bioactive Compounds From Marine Sources as a Tool for Functional Food Development	Frontiers in Marine Science	Frontiers	Susmita Ghosh, <b>Tanmay Sarkar</b> , Siddhartha Pati, [...], Runu Chakraborty	SCIE (I. F.): 3.7 Scopus (citescore): 5.2	2022
Phytochemical Characterization, Antioxidant, Anti-inflammatory, Anti-diabetic properties, Molecular Docking, Pharmacokinetic Profiling, and Network Pharmacology Analysis of the Major Phytoconstituents of Raw and Differently Dried <i>Mangifera indica</i> ( <i>Himsagar cultivar</i> ): an In Vitro and In Silico Investigations	Journal of Applied Biochemistry and Biotechnology	Springer Nature	<b>Tanmay Sarkar*</b> , Molla Salauddin, Kaushik Kumar Bharadwaj, [...], Runu Chakraborty	SCIE (I. F.): 3.0 Scopus (citescore): 4.5	2022
Bengal's Ethnic Sweetmeats – An Unconventional Food: History, Tradition, Culture	Journal of Food Quality	Wiley, Hindawi	<b>Tanmay Sarkar*</b> , Molla Salauddin, Arindam Paul, Runu Chakraborty	SCIE (I. F.): 3.3 Scopus (citescore): 4.4	2022
Natural colorants from plant pigments and their encapsulation: An emerging window for the food industry	LWT	Elseiver	Susmita Ghosh, <b>Tanmay Sarkar</b> , Arpita Das, Runu Chakraborty	SCIE (I. F.): 6 Scopus (citescore): 9.6	2022
Effect of drying on vitamin, carotene, organic acid, mineral composition and microstructural properties of mango ( <i>Mangifera indica</i> )	Journal of Food Processing and Preservation	Wiley, Hindawi	<b>Tanmay Sarkar*</b> , Molla Salauddin, Hassan Ibrahim Sheikh, [...], Runu Chakraborty	SCIE (I. F.): 2.5 Scopus (citescore): 3.400	2021
Bacterial Cellulose: Production, Characterization and Application as Antimicrobial Agent	International Journal of Molecular Sciences	MDPI	Dibyajit Lahiri, Moupriya Nag, Bandita Dutta, <b>Tanmay Sarkar</b> , [...], Rinarani Ray	SCIE (I. F.): 5.6 Scopus (citescore): 6.0	2021
Formation and Development of Biofilm- An Alarming Concern in Food Safety Perspectives	Biocatalysis and Agricultural Biotechnology	Elseiver	Susmita Ghosh, <b>Tanmay Sarkar</b> , Runu Chakraborty	SCIE (I.F.): 4 Scopus (citescore): 8.4	2021
Micro and Nanoencapsulation of Natural Colors: a Holistic View	Applied Biochemistry and Biotechnology	Springer Nature	Susmita Ghosh, <b>Tanmay Sarkar</b> , Arpita Das, Runu Chakraborty	SCIE (I.F.): 3.0 Scopus (citescore): 4.5	2021
Freshness Assessment of Indian Gooseberry ( <i>Phyllanthus emblica</i> ) Using Probabilistic Neural Network	Journal of Biosystems Engineering	Springer Nature	Alok Mukherjee, <b>Tanmay Sarkar*</b> , Kingshuk Chatterjee	SCIE (I.F.): 1.98 Scopus (citescore): 1.6	2021
Supervised Learning Aided Multiple Feature Analysis for Freshness Class Detection of Indian Gooseberry ( <i>Phyllanthus</i>	Journal of The Institution of Engineers (India) Series A	Springer Nature	<b>Tanmay Sarkar*</b> , Alok Mukherjee, Kingshuk Chatterjee	Scopus (citescore): 1.6	2021

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Macrolactin A as a Novel Inhibitory Agent for SARS-CoV-2 M pro : Bioinformatics Approach	Applied Biochemistry and Biotechnology	Springer Nature	Kaushik Kumar Bharadwaj, <b>Tanmay Sarkar</b> , Arabinda Ghosh, [...], Siddhartha Pati	SCIE (I.F.): 3.0 Scopus (citescore): 4.5	2021
Bacteriocin: A New Strategic Antibiofilm Agent in Food Industries	Biocatalysis and Agricultural Biotechnology	Elsevier	Kohima Kirtonia, Molla Salauddin, Kaushik Kumar Bharadwaj, [...], <b>Tanmay Sarkar*</b>	SCIE (I.F.): 4 Scopus (citescore): 8.4	2021
Rasgulla-the ethnic Indian sweetmeat delicacy and its evolutionary journey through contemporary research	Journal of Ethnic Foods	BMC, Springer Nature	<b>Tanmay Sarkar*</b> , Molla Salauddin, Runu Chakraborty	Scopus (citescore): 1.465	2021
Antibiofilm Activity of $\alpha$ -Amylase from Bacillus subtilis and Prediction of the Optimized Conditions for Biofilm Removal by Response Surface Methodology (RSM) and Artificial Neural Network (ANN)	Applied Biochemistry and Biotechnology	Springer Nature	<b>Tanmay Sarkar</b> , Dibyajit Lahiri, Moupriya Nag, Rinarani Ray	SCIE (I.F.): 3.0 Scopus (citescore): 4.5	2021
$\gamma$ -Irradiated Chitosan From Carinoscorpius rotundicauda (Latreille, 1802) Improves the Shelf Life of Refrigerated Aquatic Products	Frontiers in Marine Science	Frontiers	Hisham Atan, <b>Tanmay Sarkar</b> , Hassan Ibrahim Sheikh, [...], Siddhartha Pati	SCIE (I. F.): 3.7 Scopus (citescore): 5.2	2021
Bacterial Biopolymer: Its Role in Pathogenesis to Effective Biomaterials	Polymers	MDPI	Sreejita Ghosh, Dibyajit Lahiri, Moupriya Nag, <b>Tanmay Sarkar*</b> , [...], Rinarani Ray	SCIE (I. F.): 5.0 Scopus (citescore): 5.7	2021
Drying kinetics, fourier-transform infrared spectroscopy analysis and sensory evaluation of sun, hot-air, microwave and freeze dried mango leather	Journal of Microbiology Biotechnology and Food Sciences	Faculty of Biotechnology and Food Sciences, Slovak University of Agriculture	<b>Tanmay Sarkar</b> , Suman Kumar Saha, Molla Salauddin, Runu Chakraborty	Scopus (citescore): 1.6	2021
Comparative Approach of Artificial Neural Network and Thin Layer Modelling for Drying Kinetics and Optimization of Rehydration Ratio for Bael ( <i>Aegle marmelos</i> (L) correa) Powder Production	Economic computation and economic cybernetics studies and research	Editura Academia de studii economice	<b>Tanmay Sarkar</b> , Molla Salauddin, HAZRA SUDIPTA KUMAR, [...], CHAKRABORTY RUNU	SCIE (I. F.): 0.9 Scopus (citescore): 1.6	2021
Spatial optimisation of mango leather production and colour estimation through conventional and novel digital image analysis technique	Spatial Information Research	Springer Nature	<b>Tanmay Sarkar</b> , Molla Salauddin, Tanupriya Choudhury, [...], Runu Chakraborty	SCIE (I.F.): 2.4 Scopus (citescore): 3.2	2021
Effect of hot air oven, microwave, microwave convective, freeze dried pineapple pulp on storage stability of casein ball (rasgulla)	Journal of Microbiology Biotechnology and Food Sciences	Faculty of Biotechnology and Food Sciences, Slovak University of Agriculture	<b>Tanmay Sarkar</b> , Molla Salauddin, Sudipta Kumar Hazra, Runu Chakraborty	SCIE (I.F.): 0.9 Scopus (citescore): 1.6	2021
Application of raw and differently	Journal of	Wiley,	<b>Tanmay Sarkar*</b> ,	SCIE (I. F.):	2021



dried Pineapple ( <i>Ananas comosus</i> ) pulp on Rasgulla (Sweetened Casein Ball) to enhance its phenolic profile, shelf-life and in-vitro digestibility characteristics	Food Processing and Preservation	Hindawi	Molla Salauddin, Siddhartha Pati, [...], Runu Chakraborty	2.5 Scopus (citescore): 3.400	
In-depth pharmacological and nutritional properties of bael ( <i>Aegle marmelos</i> ): A critical review	Journal of Agriculture and Food Research	Elsevier	<b>Tanmay Sarkar</b> , Molla Salauddin, Runu Chakraborty	SCIE (I.F.): 3.8 Scopus (citescore): 3.8	2020
Characterization of phytochemicals, minerals and in vitro medicinal activities of bael ( <i>Aegle marmelos</i> L.) pulp and differently dried edible leathers	Heliyon	Cell Press	Sudipta K H, <b>Tanmay Sarkar</b> , Molla Salauddin, [...], Runu Chakraborty	SCIE (I. F.): 4 Scopus (citescore): 2.1	2020
The impact of raw and differently dried pineapple ( <i>Ananas comosus</i> ) fortification on the vitamins, organic acid and carotene profile of dairy rasgulla (sweetened cheese ball)	Heliyon	Cell Press	<b>Tanmay Sarkar</b> , Molla Salauddin, Sudipta Kumar Hazra, Runu Chakraborty	SCIE (I. F.): 4 Scopus (citescore): 2.1	2020
Effect of cutting edge drying technology on the physicochemical and bioactive components of mango (Langra variety) leather	Journal of Agriculture and Food Research	Elsevier	<b>Tanmay Sarkar</b> , Molla Salauddin, Sudipta Kumar Hazra, Runu Chakraborty	SCIE (I.F.): 3.8 Scopus (citescore): 3.8	2020
Artificial neural network modelling approach of drying kinetics evolution for hot air oven, microwave, microwave convective and freeze dried pineapple	SN Applied Sciences	Springer Nature	<b>Tanmay Sarkar</b> , Molla Salauddin, Sudipta K H, Runu Chakraborty	SCIE (I.F.): 2.7 Scopus (citescore): 4.5	2020
A novel data science application approach for classification of nutritional composition, instrumental colour, texture and sensory analysis of bael fruit ( <i>Aegle marmelos</i> (L) correa)	International Journal of Intelligent Networks	KEAI/Elsevier	<b>Tanmay Sarkar</b> , Molla Salauddin, Sudipta K H, Runu Chakraborty	Scopus (citescore): 7.9	2020
Comparative study of predictability of response surface methodology (RSM) and artificial neural network-particle swarm optimization (ANN-PSO) for total colour difference of pineapple fortified rasgulla processing	International Journal of Intelligent Networks	KEAI/Elsevier	<b>Tanmay Sarkar*</b> , Molla Salauddin, Sudipta Kumar Hazra, Runu Chakraborty	Scopus (citescore): 7.9	2020
Application of Fuzzy Logic Analysis on Pineapple Rasgulla	Procedia Computer Science	Elsevier	<b>Tanmay Sarkar</b> , Rajanya Bhattacharjee, Molla Salauddin, [...], Runu Chakraborty	Scopus (citescore): 4	2020
Comparative Classification Efficiency of Self-organizing Map, Principal Component Analysis, and Hierarchical Cluster Analysis for Normal Dairy and Differently Pineapple Fortified Rasgulla	ES Food & Agroforestry	Engineered Science Publisher	<b>Tanmay Sarkar</b> , Molla Salauddin, Sudipta Kumar Hazra, Runu Chakraborty	Scopus (citescore): 0.3	2020

Storage study of mango leather in sustainable packaging condition	Materials Today Proceedings	Elsevier	<b>Tanmay Sarkar,</b> Pritha Nayak, Runu Chakraborty	Scopus (citescore): 3.2	2020
Formulation, Physicochemical Analysis, Sustainable Packaging-Storage Provision, Environment Friendly Drying Techniques and Energy Consumption Characteristics of Mango Leather Production: A Review	Asian Journal of Water, Environment and Pollution	IOS Press	<b>Tanmay Sarkar,</b> Runu Chakraborty	SCIE (I.F.): 0.5 Scopus (citescore): 1.3	2018
Litchi ( <i>Litchi chinensis</i> Sonn.) Products and Processing Technologies: an Update	AMBIENT SCIENCE	National Cave Research and Protection Organization	<b>Tanmay Sarkar,</b> Pritha Nayak, Runu Chakraborty	NAAS rating: 4.5	2018
PINEAPPLE [ <i>ANANAS COMOSUS</i> (L.)] PRODUCT PROCESSING TECHNIQUES AND PACKAGING: A REVIEW	IIOAB Journal	Institute of Integrative Omics and Applied Biotechnology (IIOAB)	<b>Tanmay Sarkar,</b> Pritha Nayak, Runu Chakraborty	Scopus	2018

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## **BOOK CHAPTERS**

Chapter Title	Name of the Book	Name of the Publisher	Name of the Authors	Year
Application of Microbial Pigments in the Food Industry	Microbial Pigments Application of Microbial Pigments in the Food Industry	Taylor & Francis Group	Susmita Ghosh, <b>Tanmay Sarkar</b> , Runu Chakraborty	2024
CRISPR/Cas Therapeutics in the Inhibition of Biofilm	Biofilm Associated Antimicrobial Resistance and Its Recovery	Taylor & Francis Group	Bandita Dutta, Debarati Basu, Rinarani Ray, <b>Tanmay Sarkar</b> , [...], Debasmita Bhattacharya	2023
Nanoparticle Associated Inhibition of Biofilm	Biofilm Associated Antimicrobial Resistance and Its Recovery	Taylor & Francis Group	Suhasini Mallick, Dibyajit Lahiri, Moupriya Nag, <b>Tanmay Sarkar</b> , [...], Rinarani Ray	2023
Characterization and Docking Studies of Immunomodulatory Active Compounds from Rhododendron arboreum Sm. Leaves	Sustainable Uses and Prospects of Medicinal Plants	Taylor & Francis Group	Nishant Rai, Pramod Rawat, Rakesh Kumar Bachheti, <b>Tanmay Sarkar</b> , [...], Raffaele Pezzani	2023
Lantibiotics, its role in the meat and poultry industry	Lantibiotics as Alternative Therapeutics	Elsevier	Sharmistha Samanta, <b>Tanmay Sarkar</b> , Joyjit Saha, Runu Chakraborty	2023
Radish Freshness Classification Using Deep Learning	Intelligent Sustainable Systems	Springer Nature	Tanupriya Choudhury, Thipendra P Singh, Prakhar Jain, [...], <b>Tanmay Sarkar</b>	2023
CNN-Based Freshness Grading of Mourala Fish ( <i>Amblypharyngodon mola</i> )	Intelligent Sustainable Systems	Springer Nature	Tanupriya Choudhury, Ayush Aryan, Hussain Falih Mahdi, [...], <b>Tanmay Sarkar</b>	2023
Potential Sources and Health Benefits of Polyphenols: A Review	Polyphenols and their Role in Health and Disease	Nova Science	Susmita Ghosh, <b>Tanmay Sarkar</b> , Runu Chakraborty	2023
Case studies: application of lantibiotics as novel drugs	Lantibiotics as Alternative Therapeutics	Elsevier	Bandita Dutta, Dibyajit Lahiri, <b>Tanmay Sarkar</b> , [...], Rinarani Ray	2023
A Comparative Analysis of	Innovations in Cyber	Springer Nature	Diksha Mehta, Shriya	2021

Clustering and Biclustering Algorithms in Gene Analysis	Physical Systems		Sehgal, Tanupriya Choudhury, <b>Tanmay Sarkar</b>	
Comparative Approach of Response Surface Methodology and Particle Swarm Optimization-Artificial Neural Network (PSO-ANN) in Rehydration Ratio Optimization for Bael ( <i>Aegle marmelos</i> (L) Correa) Powder Production	Proceedings of International Conference on Machine Intelligence and Data Science Applications	Springer Nature	<b>Tanmay Sarkar</b> , Molla Salauddin, Sudipta K H, Runu Chakraborty	2021
Effect of freeze drying on anti-oxidant properties of bael fruit ( <i>Aegle marmelos</i> )	Biotechnology and Biological Sciences	Taylor & Francis Group	Sudipta K H, Molla Salauddin, <b>Tanmay Sarkar</b> , [...], Runu Chakraborty	2019
Preparation and characterization of sweetened pineapple cheese ball (rasgulla)	Biotechnology and Biological Sciences	Taylor & Francis Group	<b>Tanmay Sarkar</b> , Pritha Nayak, Molla Salauddin, [...], Runu Chakraborty	2019

## **CONFERENCE PAPERS**

Paper Title	Publisher	Name of the Conference	Institute	Year
Chicken Quality Evaluation Using Deep Learning	Emerging Trends in Expert Applications and Security	International Conference on Emerging Trends in Expert Applications & Security ( ICETEAS)	Jaipur Engineering College & Research Centre (JECRC)	2023
Image Analysis Aided Freshness Classification of Pool Barb Fish ( <i>Puntius sophore</i> )	Emerging Trends in Expert Applications and Security	International Conference on Emerging Trends in Expert Applications & Security ( ICETEAS)	Jaipur Engineering College & Research Centre (JECRC)	2023
Quality Grading of Beef using Deep Convolutional Neural Network	IEEE Xplore	9th International Conference on Information Technology Trends (ITT)	9th International Conference on Information Technology Trends (ITT), Dubai, United Arab Emirates	2023
IndianFood-7: Detecting Indian Food Items Using Deep Learning-Based Computer Vision	Springer, Singapore	International Conference on Advances and Applications of Artificial Intelligence and Machine Learning ( ICAAAIML)	Sharda School of Engineering and Technology	2023
Banana ripeness classification using transfer learning techniques	IEEE Xplore	International Conference on Computing, Communication, Security and Intelligent Systems (IC3SIS)	International Conference on Computing, Communication, Security and Intelligent Systems (IC3SIS), Kochi, India	2022
Freshness Classification of Hog Plum Fruit Using Deep Learning	IEEE Xplore	International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA)	National Technical University, Ankara, Turkey	2022
Quality Evaluation in Guavas using Deep Learning Architectures: An Experimental Review	IEEE Xplore	International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA)	National Technical University, Ankara, Turkey	2022
Devanagari Handwritten Character Recognition	IEEE Xplore	India Council International Subsections Conference (INDISCON)	India Council International Subsections Conference (INDISCON), NAGPUR,	2021

			India	
Fruit Quality Analysis using modern Computer Vision Methodologies	IEEE Xplore	IEEE Madras Section Conference (MASCON)	IEEE Madras Section	2021
An Efficient and Secured Data Sharing Approach through Image Transmission	IEEE Xplore	International Conference on Emerging Smart Computing and Informatics (ESCI)	All India Shri Shivaji Memorial Society's Institute of Information Technology Pune	2021
Comparative ANN-TLBO and RSM Optimisation Approach for Bioactive Potential of Microwave Convective Dried Mango ( <i>Mangifera indica</i> )	MDPI	The 1st International Electronic Conference on Food Science and Functional Foods	MDPI-Foods	2020