

Sustainable Food Technology

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IN THIS ISSUE

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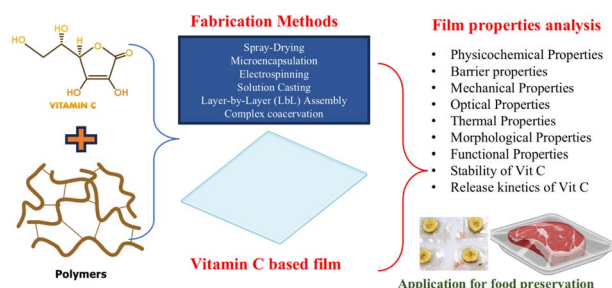
Cover
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REVIEWS

25

Vitamin C-infused biopolymer films: a multifunctional approach for active food packaging and preservation

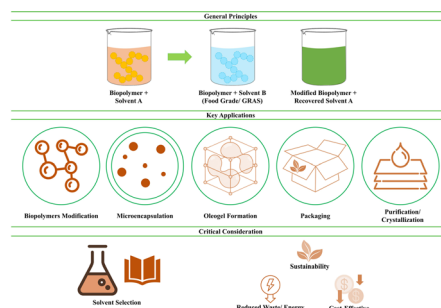
Rakesh Kumar Gupta,* Manisha, Elsayed A. E. Ali, Neha Naijo Areekal, Jyotsana Patel, Sunil Pipliya,* Prem Prakash Srivastav, Chin-Kun Wang and Roberto Castro-Muñoz



51

Solvent exchange method in the food industry

Nikita S. Bhatkar, Vimal Challana, Shivanand S. Shirkole* and Benu Adhikari



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62

Green extraction technologies for valorising Brazilian agri-food waste

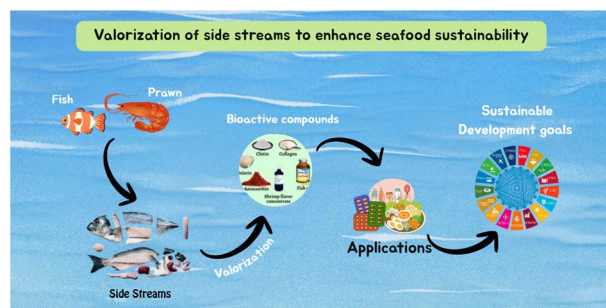
Betina Louise Angioletti Decker, Thatyane Vidal Fonteles, Fabiano A. N. Fernandes and Sueli Rodrigues*



89

Valorization of side streams to enhance seafood sustainability

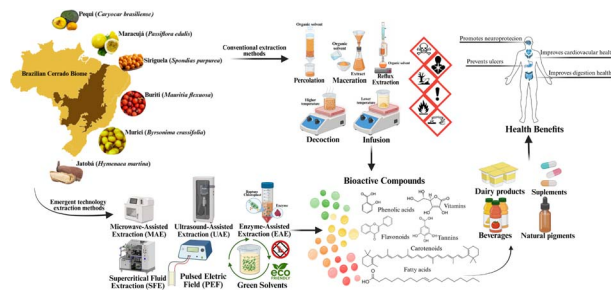
Sreedharan Advaita, Kappat Valiyapeediyekkal Sunooj,* Sathish Kumar Vellaisamy, Sahil Negi, Muahmmmed Navaf, Sarasan Sabu, Abhilash Sasidharan and Vazhiyil Venugopal



110

Cerrado fruits as sources of bioactive extracts: functional food applications and emerging technologies for sustainable extraction

Blenda de Souza Costa, Philippe Defaveri Bieler, Sepehrdad Dehghani, Daiana Wischral, Ramila Cristiane Rodrigues, Sueli Rodrigues,* Evandro Martins, Pedro Henrique Campelo and Paulo Cesar Stringheta*



133

Foam mat drying of perishable products: a critical review of process parameters, product quality, and sustainable prospects

Swanand Kalambe* and Sadanand Guhe



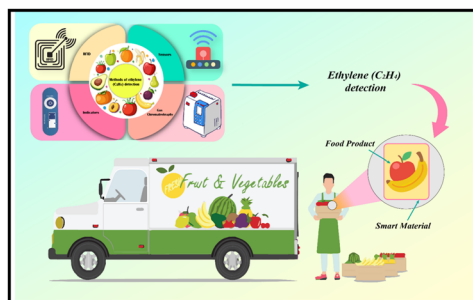
153



Pheromone traps: analysing the factors helpful in mitigating the use of chemical insecticides for sustainable practices in storing food product commodities

Irengbam Barun Mangang,* M. Loganathan,*
S. Malemnganbi and C. Induja

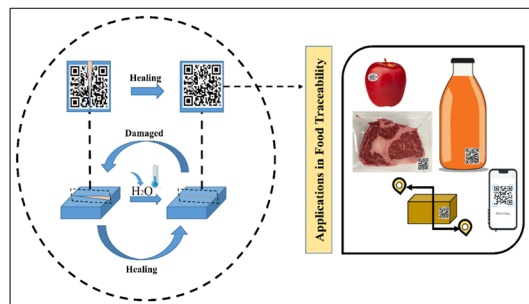
164



Emerging smart packaging materials and technologies for ethylene detection and freshness monitoring in fresh produce

Pradeep Kumar, Shefali Tripathi, Ram Kumar Deshmukh,
Bhushan P. Meshram, Lavanya and Kirtiraj K. Gaikwad*

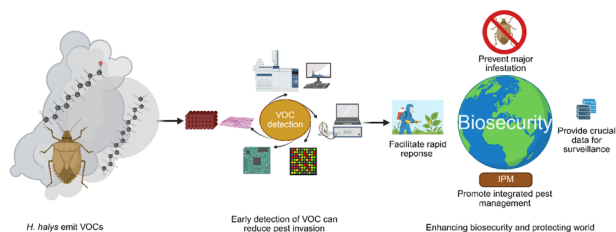
183



Comprehensive review on the integration of self-healing polymers with smart food traceability: scope, application and challenges

Krishna Gopalakrishnan, Arnav Bayan
and Poonam Mishra*

203



Advancing biosecurity: progress and prospects of volatile organic compound (VOC) detection for invasive pest and pathogen surveillance

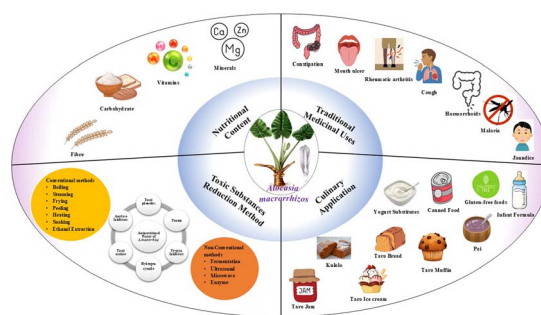
Farjana Haque, Fatema Zerine Farhana, Milkiyas Toru Tantu,
Md Akeruzzaman Shaon, Geoff M. Gurr* and Muhammad
J. A. Shiddiky*



225

A comprehensive review on the nutritional value, anti-nutritional factors, acidity, medicinal properties, and culinary applications of *Alocasia macrorrhizos*

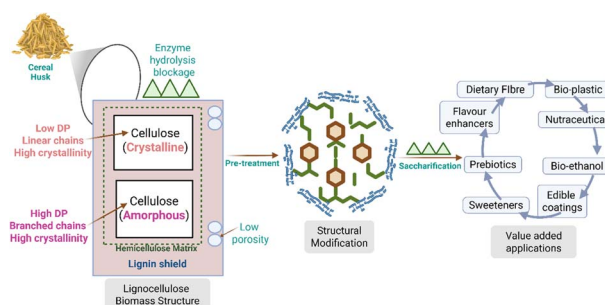
Olivia Das, C. Nickhil and Sankar Chandra Deka*



241

Effective valorisation of cereal lignocellulosic waste: a review of pretreatment techniques to enhance microstructural modification

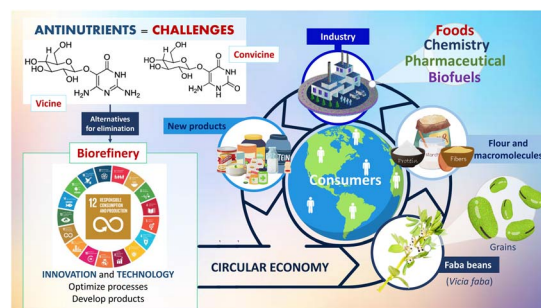
Smriti Ale, Pramesh Dhungana, Janet Howieson and Rewati Raman Bhattarai*



261

Faba bean: sustainable potential in Brazilian agriculture and biorefineries as a rich source of proteins, starch, and fibers, along with its antinutrient challenges

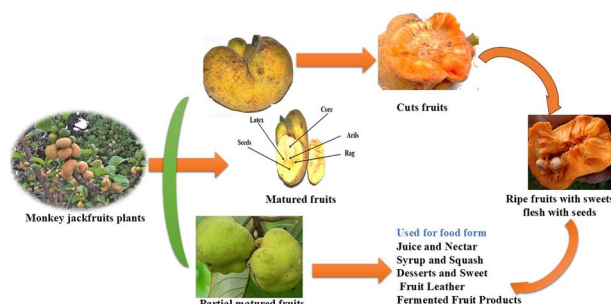
Luiz Eliel Pinheiro da Silva, Thaís Caroline Buttow Rigolon, Paulo César Stringheta, Evandro Martins, Seid Mahid Jafari* and Pedro Henrique Campelo*



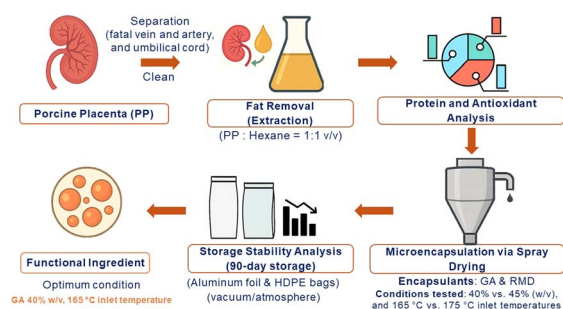
281

Nutritional value, phytochemical richness, pharmacological potential, and culinary uses of monkey jackfruit

Raj Singh, C. Nickhil,* Shweta, Sankar Chandra Deka and R. Nisha*



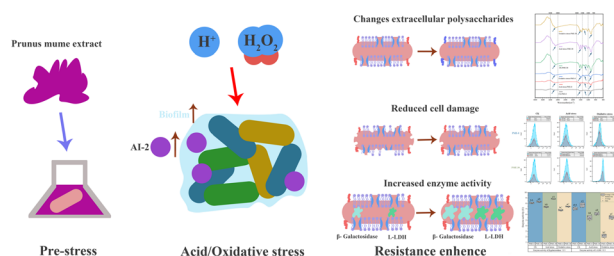
297



Sustainable valorization of porcine placenta through microencapsulation: a circular economy approach to functional ingredient development

Pornpassorn Chulalaksananukul, Saeid Jafari, Khursheed Ahmad Shiekh, Isaya Kijpatanasilp, Nutthida Pholmanee, Phurt Harnvoravongchai, Tavan Janvilisri and Kitipong Assatarakul*

310



Prunus mume extract promoted biofilm formation of *Lactiplantibacillus plantarum* JB1 to improve acid and oxidative stress resistance

Teng Long Miao, Chuang Zhang, Hui Wang, Xiaohong Chen, Hong Mei Xiao* and Qiu Qin Zhang*

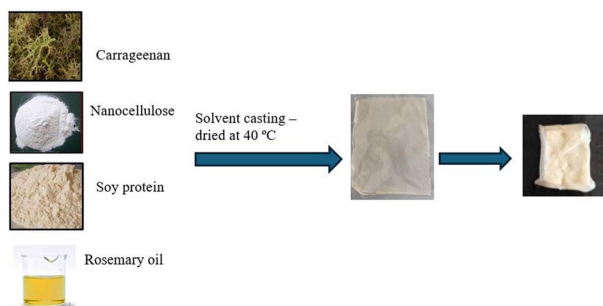
323



Hyaluronic acid/chitosan/pectin based edible composite antioxidant coatings for the preservation of fresh apricots

Anfal A. Al-Temimi, Sawsan A. Al-Hilifi,* Rawdah M. Al-Ali, Le N. M. Dinh, Yin Yao and Vipul Agarwal*

333



Rosemary oil infused bionanocomposite films: a sustainable and active packaging material for paneer preservation

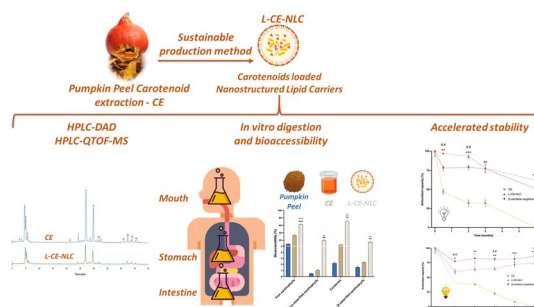
Bhavya E P and Maya Raman*



350

Enhancing bioaccessibility and stability of carotenoids from pumpkin peel by nanostructured lipid carriers

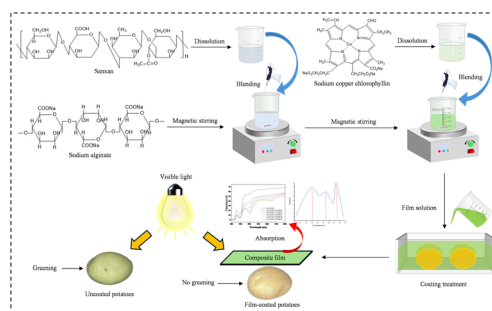
Nicola Pinna, Francesca Blasi,* Federica Ianni, Lara Manyes, Lina Cossignani, Maurizio Ricci and Aurélie Schoubben



360

Photodynamic regulation of potato greening: sodium copper chlorophyllin-functionalized alginate/saxan nanocomposite films with spectral-selective barrier properties

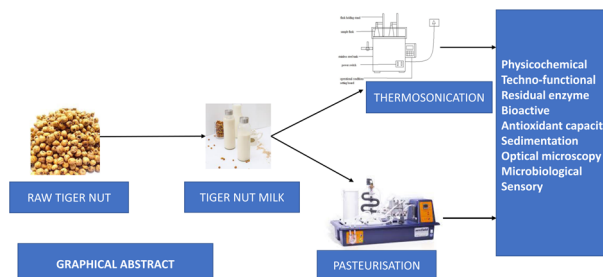
Erihemu,* Chuchu Zhang, Hongze Lv, Ke Shi, Jing Wang, Fan Yang, Yi Wu, Hui Ma, Pengfei Zhang and Wenliang Qi



375

Influence of thermosonication on the physicochemical, techno-functional, bioactive, microbiological and sensory properties of tiger nut (*Cyperus esculentus* L.) milk

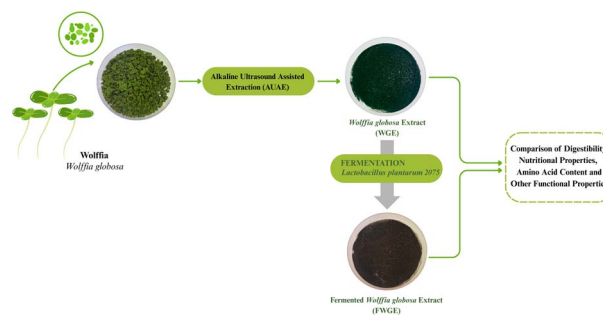
Adebola O. Oladunjoye* and Mopelola I. Idiat



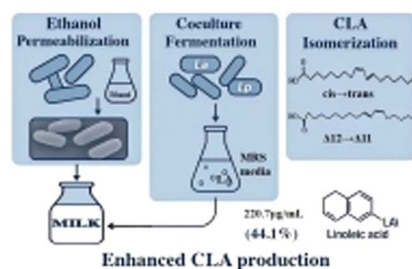
388

Optimizing *Wolffia globosa* protein extraction by ultrasonic pretreatment and enhancing protein attributes through LAB fermentation

Nontikarn Taramark, Daniel Rice, Atikorn Panya and Anil Kumar Anal*

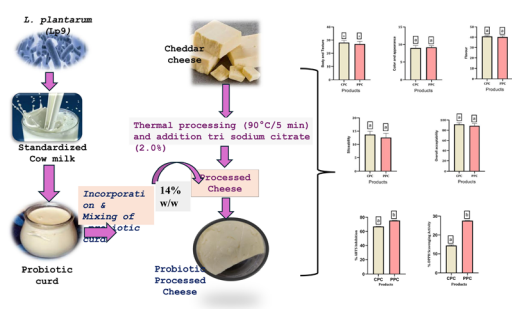


Biocatalytic production of CLA



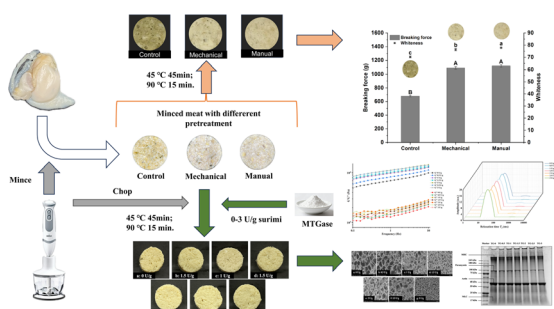
Sustainable enhancement of conjugated linoleic acid (CLA) production in lactic acid bacteria cocultures via ethanol permeabilization

Lan Cheng, Miao Wang, Yingying Wang, Yumeng Chang, Yan Ding and Shuhong Ye*

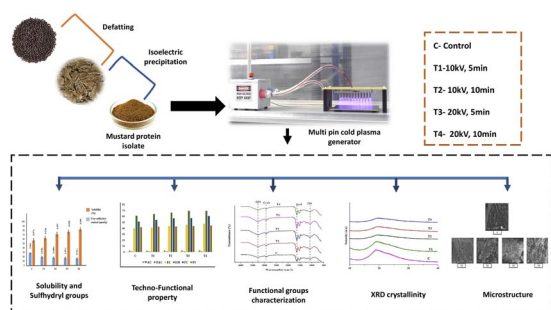


Development and characterization of probiotic processed cheese

Deepak Kumar, Sangita Ganguly,* Santosh Tambde, Yogesh Khetra, P. Narender Raju and Rashmi Hogarehalli Mallappa

Gel properties of surimi gel from clam *Meretrix meretrix* as affected by microbial transglutaminase

Lin-Da Zhang, Yu-Nan Pan, Lin Li, Zhu-Jun Zhang, Yue Liu, Jia-Nan Yan, Bin Lai, Ce Wang* and Hai-Tao Wu*



Effect of pin-to-plate atmospheric pressure cold plasma on mustard protein isolate: physicochemical, structural, thermal, and functional characterization

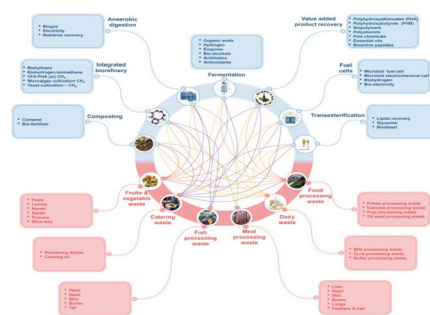
Fizah Farooq, Toiba Majeed, Sharath Kumar Nagaraja* and Aamir Hussain Dar*



448

From waste to resource: microbial pathways for sustainable food production

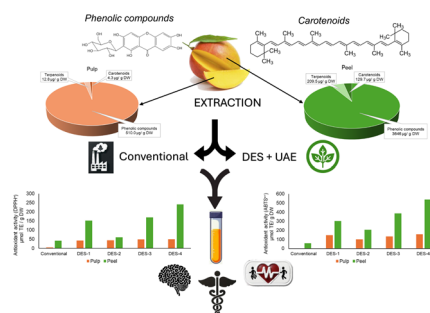
Abdul Sattar Jatoi,* Hung Minh Nguyen* and Albert Selvakumar Jeyapaul



470

Green extraction of phenolic compounds and carotenoids from the pulp and peel of mango criollo by sustainable emerging technologies

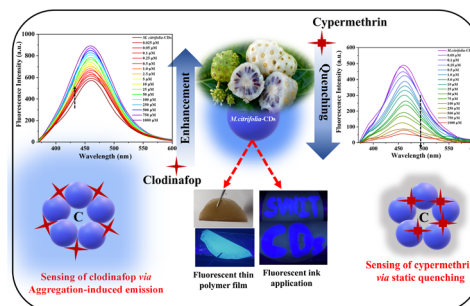
Elena Rodríguez-Rodríguez,* Gonzalo Adrián Ojeda, Sonia Cecilia Sgroppo, Begoña Olmedilla-Alonso, Concepción Sánchez-Moreno, Milagros Sánchez-Prieto, Lucía Giménez, Ruth Núñez-Flores and Begoña De Ancos*



482

Fabrication of blue emissive carbon dots using *Morinda citrifolia* fruit pulp for clodinafop and cypermethrin detection via fluorescence turn-off and enhancement mechanisms

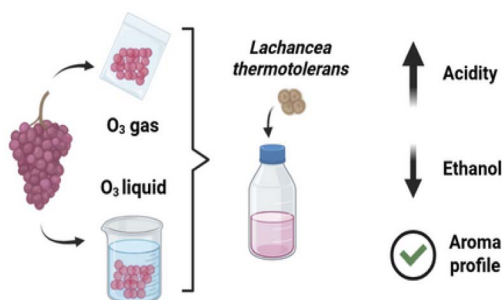
Juhi Bhadresh Raval, Vaibhavkumar N. Mehta, Sanjay Jha, Tae Jung Park and Suresh Kumar Kailasa*



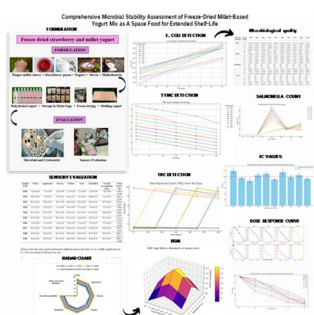
496

Ozone in gaseous and aqueous phases as a sanitizing agent for grapes used in winemaking and its impact on the implantation of *Lachanea thermotolerans*

Yaiza Rodríguez, Juan Manuel del Fresno, Carmen González, María Antonia Bañuelos and Antonio Morata*



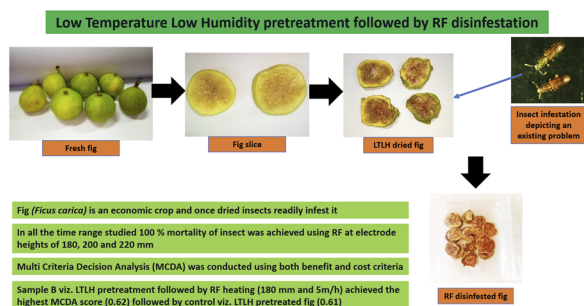
507



Comprehensive microbial stability assessment of freeze-dried millet-based yogurt mix as a space food for extended shelf-life

D. Mahalakshmi* and Samuel Ayofemi Olalekan Adeyeye

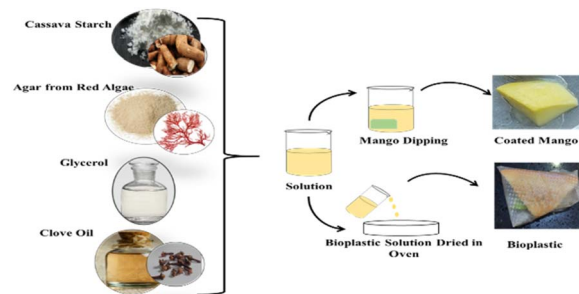
521



Low-temperature low-humidity pretreatment followed by RF heating: a novel method of fig preservation

Irengbam Barun Mangang,* A. Vidhya Lakshmi, N. Venkatachalapathy and M. Loganathan*

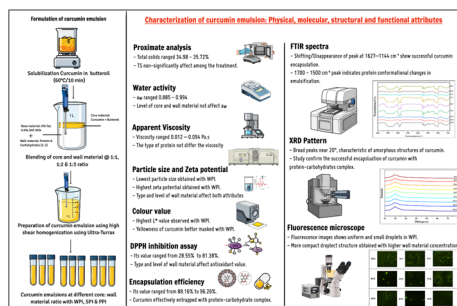
533



Development of edible food coating using cassava starch/agar blends infused with clove oil for the preservation of mangoes

David Rohindra,* Reeha Sharma, Roselyn Lata and Tejesvi Patel

547



Curcumin encapsulation via protein-stabilized emulsions: comparative formulation and characterization using whey, soy, and pea proteins

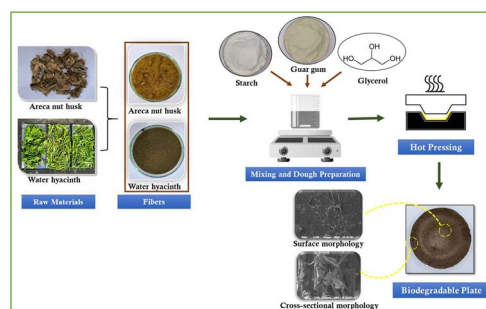
Navneet Raj, Shivansh Suman, Dinesh Chandra Rai,* Sunil Meena,* Raj Kumar Duary, Kamalesh Kumar Meena and Shubham Mishra



561

Valorization of areca nut husk and water hyacinth fibers into biodegradable plates for sustainable packaging

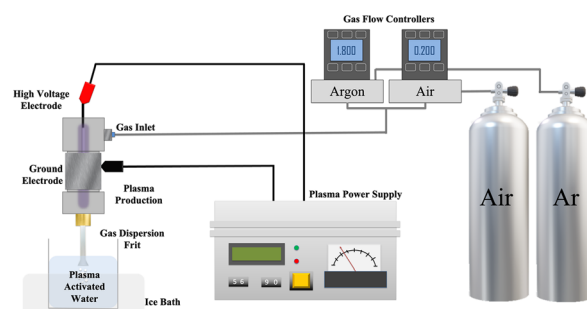
Bedanta Rajbongshi, Akuleti Saikumar* and Laxmikant S. Badwaik*



578

Effects of plasma activated water on fava bean protein isolate functionality and 3D printability

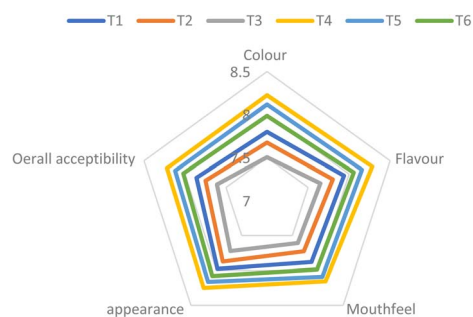
Pauline Chan, Sitian Zhang, Anuruddika Hetti Hewage, Shifa Dinesh, Nandika Bandara, Thava Vasanthan, Lingyun Chen, N. N. Misra and M. S. Roopesh*



593

Development and quality assessment of an antioxidant-rich *Rubus* squash: evaluation of physicochemical properties, bioactive compounds, and storage stability

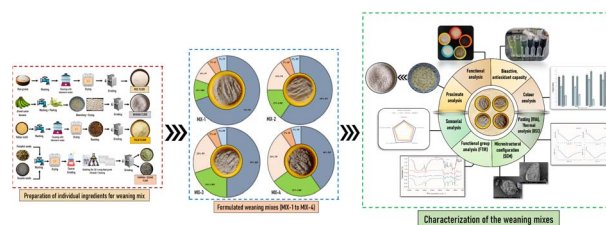
Naseh Nisar, Sajad Mohd Wani,* Mohd Masarat Dar, Danish Rizwan and Zahida Naseem



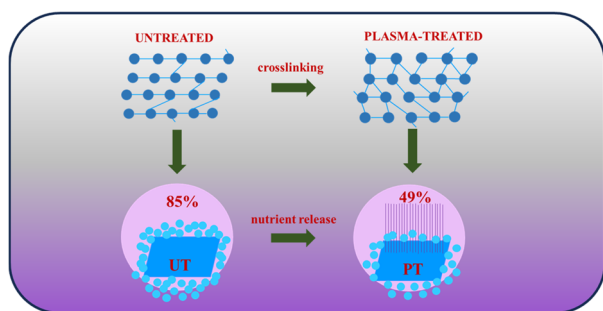
604

Exploring the functional food potential of *Grand naine* banana flour (GBF) as a prospective weaning formulation by developing GBF-based composite flour mixes

Udipta Hazarika, Prapti Saikia, Manisha Choudhury, Donee Gohain and Mamoni Das*



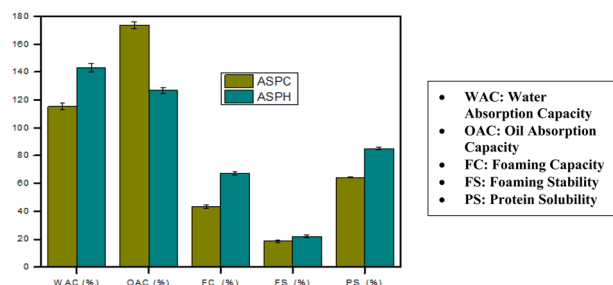
621



Plasma-assisted modification of micronutrient-embedded PVA/PVP blend films for sustained nutrient delivery in agricultural applications

Nandhu Varshini Gnanasekar
and Shanmugavelayutham Gurusamy*

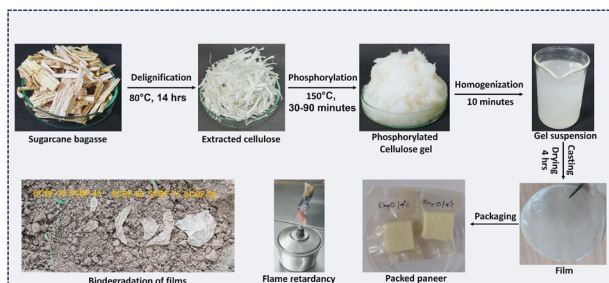
637



Protein extraction from apple seeds for waste valorization for sustainable food systems

Sehrish Mustafa, Iqra Bashir, Sajad Mohd Wani,*
Sajad Ahmad Sofi, Tawheed Amin, Abdul Rouf Malik,
Faheem-ullah Khan, Imtiyaz Murtaza, Imran Khan,
Qudsiya Ayaz and Khansa Rasool

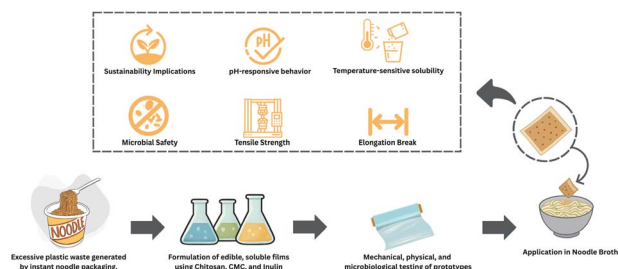
646



Multifunctional cellulose phosphate-based food packaging films from biomass: structure–function relationship and environmental assessment studies

Rahul Ranjan, Chandra Kant and Prodyut Dhar*

661



Formulation and performance of edible biopolymer pouches: a novel delivery system for instant soup seasoning

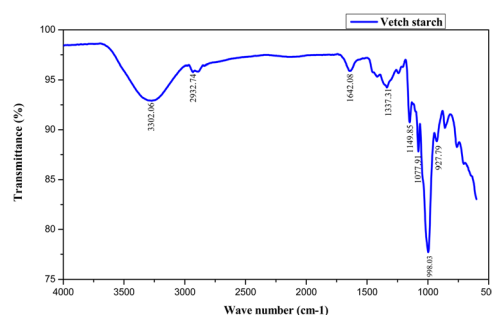
Katherine Aprille S. Dula, Daniel Rice, Johnmel A. Valerozo
and Anil Kumar Anal*



672

Studies on the physicochemical, thermal, structural and functional attributes of vetch starch (*Vicia villosa*) and protein from Kashmir valley

Toiba Majeed, Aamir Hussain Dar* and Tariq Ahmad Ganaie

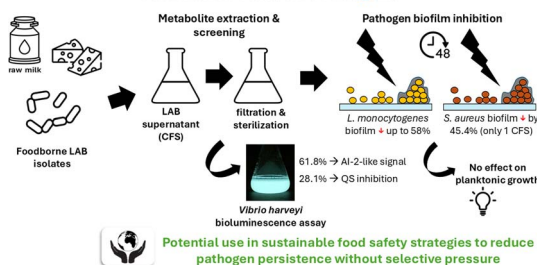


686

Sustainable biofilm control using lactic acid bacteria to disrupt quorum sensing in foodborne pathogens

Dimitra Kostoglou, Alexandra Vlachopoulou, Georgios Vafeiadis and Efstathios Giaouris*

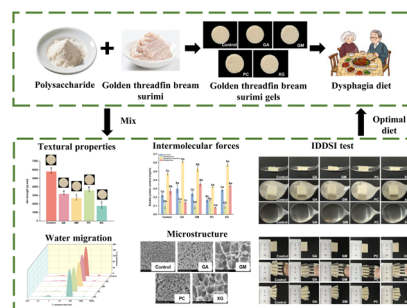
LAB Supernatants Disrupt AI-2 Quorum Sensing (QS) and Inhibit Biofilm Formation in Foodborne Pathogens



698

Feasibility of polysaccharide addition for constructing soft golden threadfin bream (*Nemipterus virgatus*) surimi gels as a dysphagia food

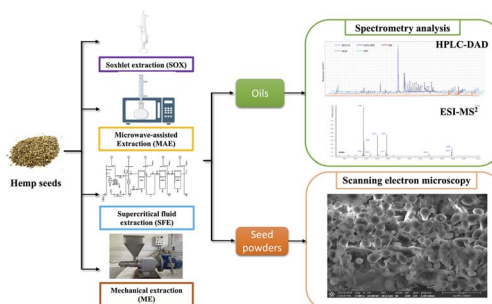
Jiani Zhou, Zhujun Zhang, Yinyin Lv, Bin Lai, Ce Wang, Haitao Wu and Jianan Yan*



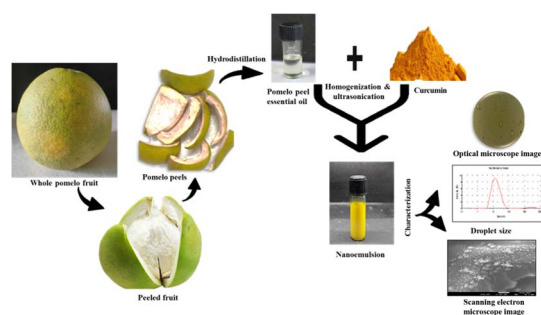
709

Extraction technologies for hemp seed oil: a comparative study of yield, bioactive compound extractability, and oxidative stability

Aymane Allay, Rafika El Ati, Youssef Rbah, Marie-Laure Fauconnier, Hana Serghini Caid, Ahmed Elamrani and Farid Mansouri*



727



Development and characterization of a functional nanoemulsion using pomelo peel essential oil and curcumin

Parismita Koch, Munmi Borah, Sankar Chandra Deka and Poonam Mishra*

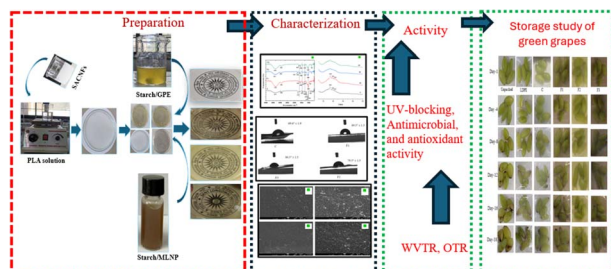
736



From cow to coconut: a literature review of the environmental cost of ice cream

Faustina Sakyiwaah Sekyere and Andrea Hicks*

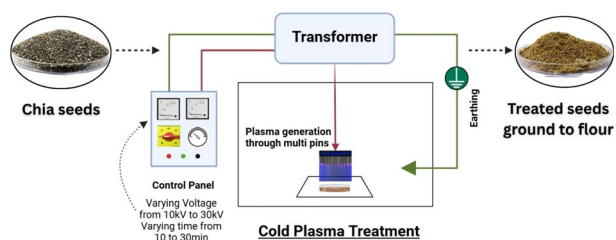
752



PLA/starch bi-layer films reinforced with rice straw cellulose nanofibers and functionalized with organosolv–lignin nanoparticles and grapefruit bioactives for shelf life extension of green grapes

Makdud Islam,* Akhouri Sanjay Kumar Sinha and Kamlesh Prasad*

772



Multi-pin cold plasma treatment of chia (*Salvia hispanica* L.) seeds: nutritional & anti-nutritional, techno-functional, and structural properties

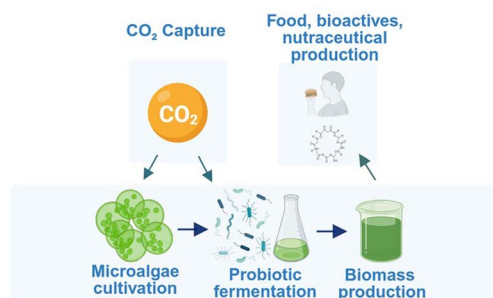
Aashita Bhardwaj, Chetna Singh, Rachna Sehrawat, Vijay Singh Sharanagat and Tanya Luva Swer*



787

Sustainable biotransformation of microalgae via probiotic fermentation for enhanced functional, nutritional, and sensory properties

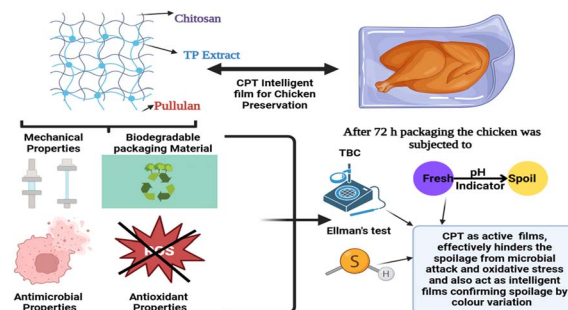
Po-Hsiang Wang,* Zann Yi Qi Tan, Choy Eng Nge, Nurhidayah Basri, Lina Xian Yu Lee, Aaron Thong, Mario Wibowo, Elaine Jinfeng Chin, Sharon Crasta, Geraldine Chan, Yoganathan Kanagasundaram and Siew Bee Ng*



795

Tradescantia pallida extract incorporated chitosan/pullulan intelligent biodegradable films: an eco-friendly packaging to preserve the freshness of chicken

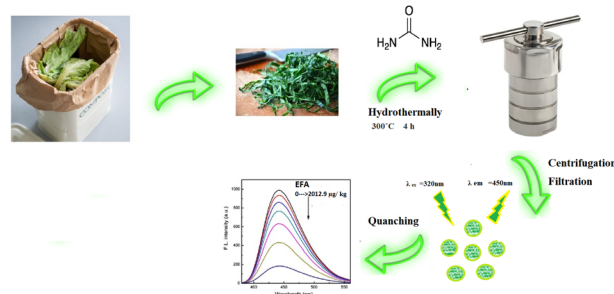
Manjunath P. Eelager, Saraswati P. Masti,* Suhasini Madihalli, Ravindra B. Chougale, Nagarjuna Prakash Dalbanjan and S. K. Praveen Kumar



813

Sustainable agro-waste derived nitrogen-doped carbon dots for sensitive fluorescence detection of ethalfuralin residues in vegetables

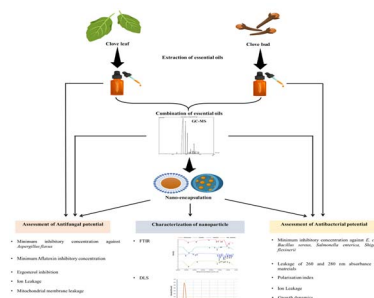
Fatemeh Esfandiyari Bayat, Hossein Tavallali,* Mohammad Reza Baezzat and Saeed Yousefinejad*



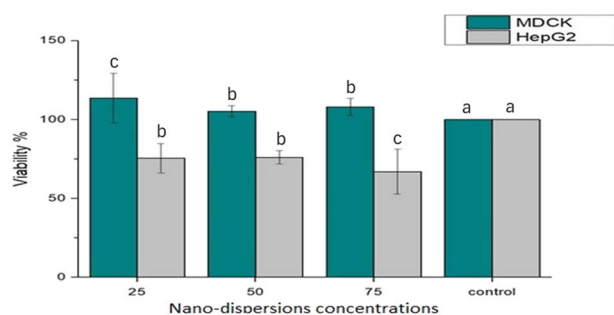
823

Assessing the antibacterial, antifungal, and antiaflatoxigenic activity of a developed nanoformulation based on a combination of *Syzygium aromaticum* leaf and bud essential oils

Tanya Singh Raghuvanshi, Vishal Gupta and Bhanu Prakash*



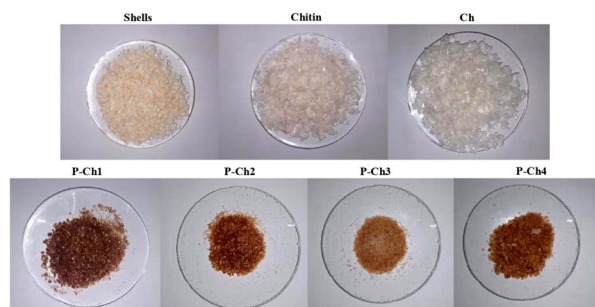
842



Formulation of casein–curcumin nanodispersions using microfluidization and nano-precipitation methods: cytotoxicity and *in vitro* release in a mango drink

Maanya Mehrotra, Shashank Singh, Nikita Kansal, Kiran Verma, Anit Kumar* and Narashans Alok Sagar*

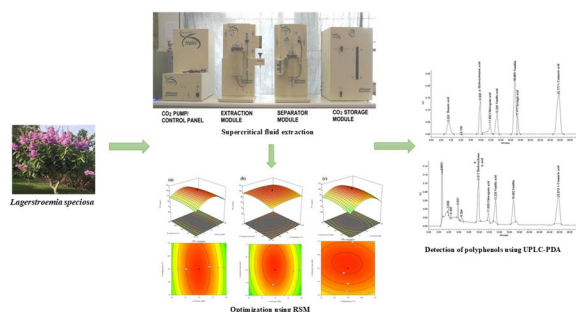
851



Sustainable conversion of *Panaeopsis serrata* waste into phosphorylated chitosan for agricultural drought mitigation

Fatima El Amerany,* Oumaima Ait Ali and Mohammed Rhazi

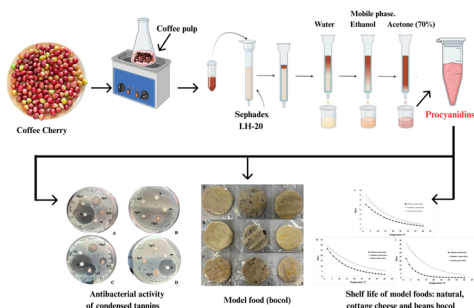
868



Optimization of supercritical fluid extraction of valuable compounds from *Lagerstroemia speciosa* leaves for *in vitro* antidiabetic and antioxidant activity

Kiran Khandare and Saswata Goswami*

885

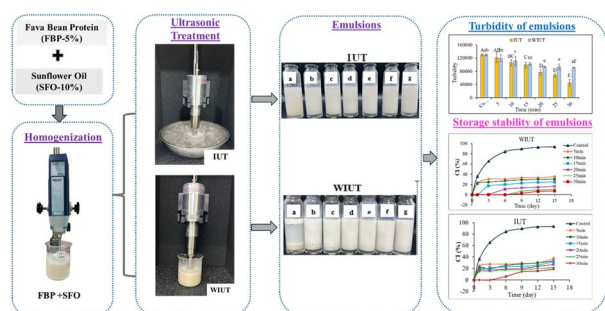


Evaluation of condensed tannins from coffee pulp (*Coffea arabica*) as a natural preservative: study in a model food

Sandy R. García-Rodríguez, Hector Reynoso-Ponce, Diana B. Muñoz-Márquez, Abigail Reyes-Munguía, Martina de la Rosa-Hernández and Jorge E. Wong-Paz*



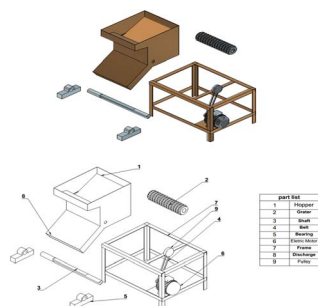
961



Comparative analysis of the effect of ultrasonic treatment with ice and without ice cooling on the stability of oil-in-water emulsions stabilized by fava bean (*Vicia fava* L.) protein

Susma Bhattarai,^{*} Sanjaya Karki, Yottha Srithep, Kunwadee Kaewka and Arissara Phosanam^{*}

972



Development and performance evaluation of a hygienic and portable small-scale cassava grater for safe food processing

Kehinde A. Adeyeye,^{*} Cornelius Folahan Oladipupo, Sanni Sodiq, Tomilola F. Oguntunde and Tosin O. Olanrewaju

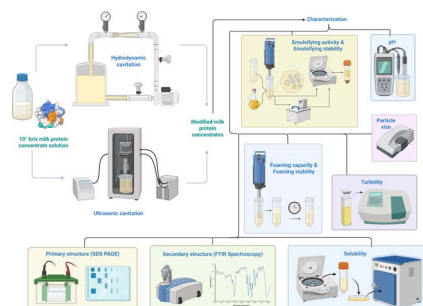
985



L-Net: a lightweight CNN framework for sustainable multicrop leaf disease detection and classification on edge devices

R. Deepa, Midhun P. Mathew,^{*} S. Baskar and Abubeker K. M^{*}

1004



Hydrodynamic and ultrasonic cavitation physically modifies the milk protein concentrates with improved functionality

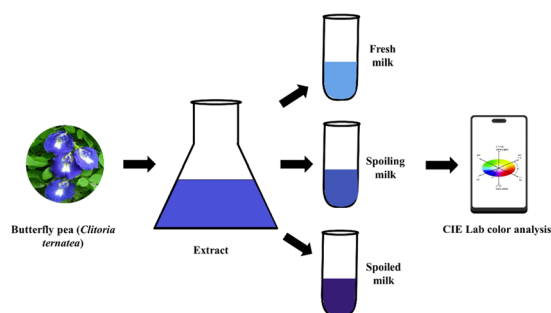
Shreyas H. K., Preeti Adhikari, Anas Ejaz Yasmeen Shaikh and Shalini S. Arya^{*}



1021

Dual-indicator approach for real-time milk freshness detection using butterfly pea anthocyanins and riboflavin fluorescence

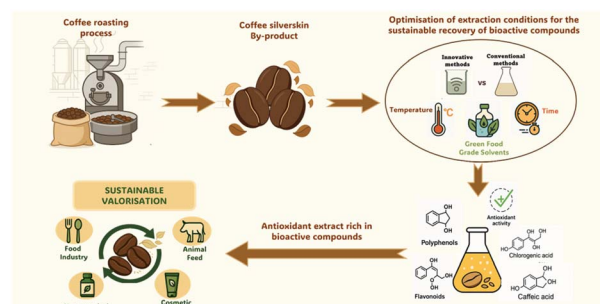
Parita A. Mangroliya, Tanmay Hazra,* Kunal Ahuja, Rohit Sindhav, Anamika Das, Subhadip Manik and Vimal Ramani



1032

Sustainable recovery of bioactive compounds from coffee silverskin

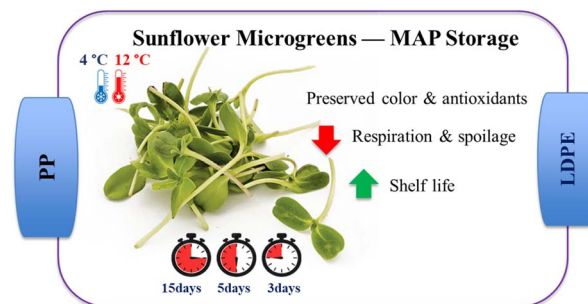
Miriam Arianna Boninsegna, Amalia Piscopo,* Alessandra De Bruno, Tiziana Taglieri, Valerio Chinè and Marco Poiana



1045

Modified atmosphere packaging of sunflower microgreens (*Helianthus annuus*) for quality and postharvest shelf-life extension

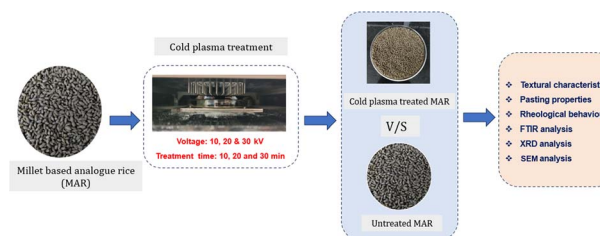
Elham Azarpazhooh,* Parvin Sharayei, Yeganeh Sabeghi, Fatemeh Zare, Xin Rui and Hosahalli S. Ramaswamy*



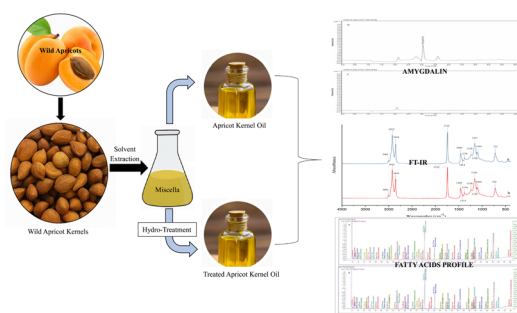
1057

Enhancing millet-based analogue rice through sustainable cold plasma treatment: effects on mineral composition, structural, textural, cooking, and rheological properties

S. Ganga Kishore, Madhuresh Dwivedi,* R. Rahul, J. Deepa, G. Jeevarathinam,* K. Kamaleeswari, Gitanjali Jothiprakash and Abinaya Veluswamy



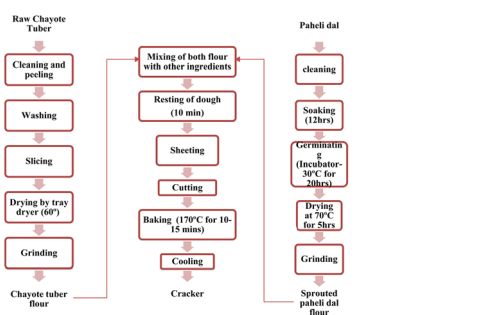
1073



Hydro-treatment of wild bitter apricot kernel oil: a cheap and cost-effective alternative for reducing toxicity and enhancing quality

Swati Joia, Himanshi Rao, Raashid Ahmad Siddiqi and Tajendra Pal Singh*

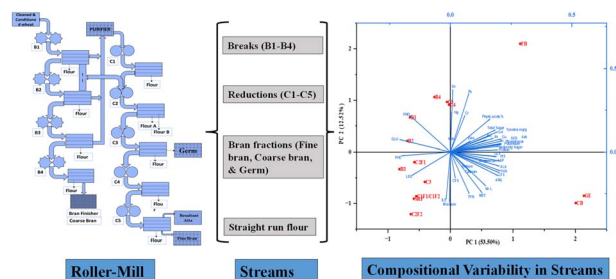
1083



Quality characterization, optimization and consumer acceptance of enriched gluten-free crackers through valorization of chayote tuber and sprouted puheli dal flour

Robishini Akoijam, Dhamchoe Dolma Bhutia, Sujata Jena* and Prashant Pandharinath Said

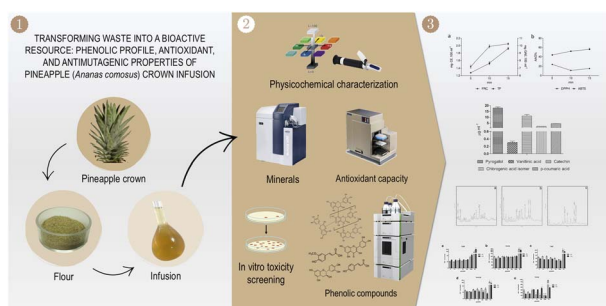
1099



Compositional variability in roller-mill processed streams: distribution of macro- and micronutrients, phytochemicals, and contaminants (heavy metals and anti-nutrients)

Veeranna Hitlamani, Swamy Gowda M. R., Salony Azam Sheikh, Nandini P. Shetty, Sridevi Annapurna Singh and Aashitosh Ashok Inamdar*

1115



Transforming waste into a bioactive resource: phenolic profile, antioxidant, and antimutagenic properties of pineapple (*Ananas comosus*) crown infusion

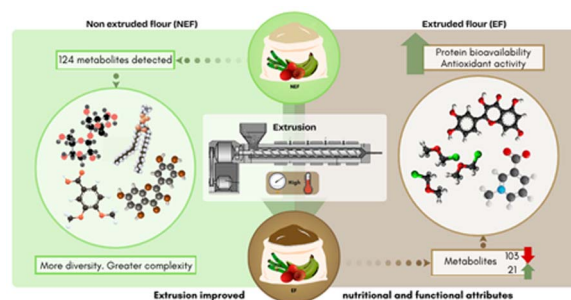
Talita Braga de Brito Nogueira, Lays Souza da Silva, Carlos Fernando Araujo Lima, Mateus Grilo de Oliveira Carvalho, Mônica Regina da Costa Marques, Israel Felzenszwalb, Juliano Lemos Bicas, Mariana Simões Larráz Ferreira* and Ana Elizabeth Cavalcante Fai*



1126

Extrusion-driven metabolic shifts in composite flour from coffee and plantain byproducts

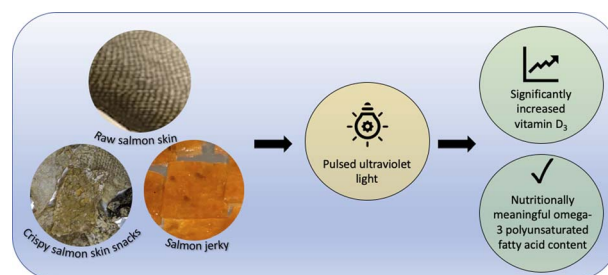
Laura Sofía Torres-Valenzuela,* Carolina Franco-Urbano, Diana Paola Navia-Porras, Jose Luis Plaza-Dorado and Mónica P. Cala



1136

Vitamin D biofortification of salmon (*Salmo salar*) processing offcuts to create novel shelf-stable foods

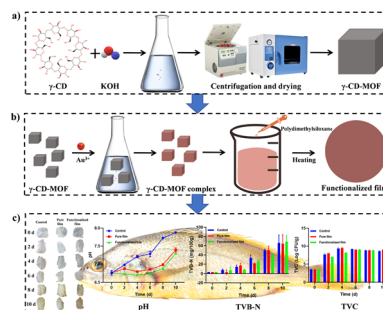
Eleanor Dunlop,* Wing Huen Chung, Janet Howieson, Belinda Neo, Welma Stonehouse, Paul Adorno, Georgios Dabos, Linda Portsmouth and Lucinda J. Black



1144

An antibacterial γ -CD-MOF complex functionalized film for fish meat safety and freshness

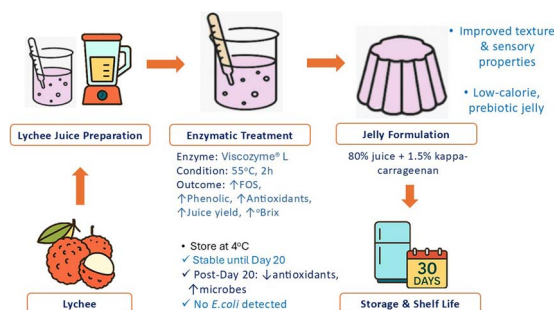
Meimei Guo, Tahirou Sogore, Jin Huang, Xinyu liao, Mofei Shen* and Tian Ding*

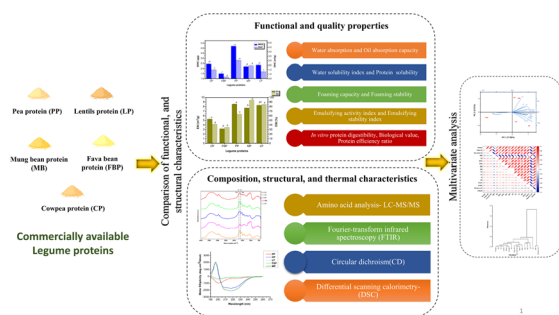


1157

Enzymatic bioprocessing of lychee juice for fructooligosaccharide enhancement and sustainable functional jelly formulation

Nattida Pongjuntuk, Saeid Jafari, Sochannet Chheng and Kitipong Assatarakul*





Functional and structural characterization of legume protein derivatives for advanced plant-based food applications

Harsha Varayil and Jayeeta Mitra*

