

# MD. ZAIDUL ISLAM SARKER



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## ACADEMIC QUALIFICATION

- Doctor of Philosophy
- Master of Science in Food Analysis
- M.Sc in Biochemistry
- B.Sc (Honors) Biochemistry

## TEACHING RESPONSIBILITIES

DISPERSE SYSTEMS	2014/2015
MEDICAL BIOCHEMISTRY	2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018
NATURAL MEDICINAL PRODUCT	2013/2014 2015/2016
NUTRACEUTICAL	2016/2017 2017/2018 2018/2019
PHARMACEUTICAL ANALYSIS I	2012/2013
PHYSICAL PHARMACY I	2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019
PHYSICAL PHARMACY II	2013/2014 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020
RESEARCH METHODOLOGY & BIOSTATISTICS	2011/2012
RESEARCH PROJECT 1	2013/2014 2015/2016 2016/2017 2017/2018
RESEARCH PROJECT-LITERATURE SEARCH	2012/2013 2016/2017 2018/2019

## RESEARCH PROJECTS

### In Progress

- 2019 - Present** - Extraction and identification of bioactive compounds from *Cassia angustifolia* using conventional and non-conventional methods.
- 2019 - Present** - Investigation of the pharmacokinetic interaction of sulfonylurea and calcium channel blocker in diabetic and hypertensive rats
- 2018 - Present** - SEPARATION AND IDENTIFICATION OF BIOACTIVE COMPOUNDS FROM *ANISOPHYLLEA DISTICHA* USING SUPERCRITICAL FLUID METHOD

**2018 - Present** Identification of  $\alpha$ -Glucosidase Inhibitors from Psychotria malayana Leaf Extract using Liquid Chromatography-Mass Spectrometry-Based Metabolomics and Protein-Ligand Interaction with Molecular Docking

**2018 - Present** SEPARATION AND IDENTIFICATION OF BIOACTIVE COMPOUNDS FROM ANISOPHYLLEA DISTICHA USING SUPERCRITICAL FLUID METHOD

**2018 - Present** Mechanism of amide coupling interaction for eliminating organic solvent from generic pharmaceuticals with supercritical CO<sub>2</sub>.

**2017 - Present** Analytical and Biological Activity Analysis of Malaysian leeches Saliva Extract of Both Green and Brown Types

**2016 - Present** Influence of multiple reaction monitoring (MRM) on the separation of amlodipine and perindopril in pharmaceutical dosage form and plasma

**2016 - Present** Isolation and characterization of Potential  $\alpha$ -glucosidase inhibitors from Clinacanthus Nutans

**2015 - Present** Upscaling the Production of Novel Fucoxanthin from Malaysian Brown Algae for food and Pharmaceutical Applications

**Unknown - Present** Investigation of the pharmacokinetic interaction of sulfonylurea and calcium channel blocker in diabetic and hypertensive rats.

**Unknown - Present** Extraction and identification of bioactive compounds from Cassia angustifolia using conventional and non-conventional methods.

**Unknown - Present** Investigation of the pharmacokinetic interaction of sulfonylurea and calcium channel blocker in diabetic and hypertensive rats

**Unknown - Present** Extraction of fatty acids from leaves, stems and roots of Raja Berangkat plant using supercritical fluids.

### **Completed**

**2016 - 2019** Influence of multiple reaction monitoring (MRM) on the separation of amlodipine and perindopril in pharmaceutical dosage form and plasma

**2016 - 2018** Isolation and characterization of Potential  $\alpha$ -glucosidase inhibitors from Clinacanthus Nutans

**2016 - 2018** Stereospermum Fimbriatum (Chicha) - Prospects of Antimicrobial Agent for Skin Infection

**2016 - 2018** Species Diversity and Seasonal Distribution of Fishes and Water Quality in Tropical River, Pahang, Malaysia

**2015 - 2015** The Visiting Professor Collaboration Program at King Saud University

**2015 - 2017** Upscaling the Production of Novel Fucoxanthin from Malaysian Brown Algae for food and Pharmaceutical Applications

**2015 - -1** The Visiting Professor Collaboration Program at King Saud University

**2015 - -1** Application of Supercritical Fluid in Food, Nutraceutical and Antioxidant

- 2015 - 2017** Influence of Carbon Dioxide at Supercritical Phase Separating the Omega 3 Fish Oil from Sardine Wastes following Shariah Compliant
- 2014 - 2016** Influence of Co-Solvent in Solubility of Phalerin and Mahkoside-A from Mahkota dewa (*Phaleria macrocarpa*) with Carbon Dioxide as a Solvent
- 2014 - -1** Proposal Evaluation for National Centre for Science and Technology Evaluation, Kazakhstan
- 2014 - 2017** Enhancement of Drug Loading with Dry Surface Coated Active Ingredient in Direct Compression: An Approach to Prepare Tablet in a Time Saving Cost Effective Manner
- 2013 - 2015** Extraction of Fatty Acids From The *Phaleria Macrocarpa* Seeds Using Supercritical Carbon
- 2013 - 2016** Continuous Micronization and Particle Formation of Malaysian Medicinal Extracts Using Different Supercritical Antisolvent Techniques
- 2013 - -1** Extraction of Fatty Acids From The *Phaleria Macrocarpa* Seeds Using Supercritical Carbon
- 2013 - 2016** Production of Premium Grade Cocoa Butter Replacers Blends with Stearic and Pleic Acids and time Based Palm Kernel Oil Fractions of Continuous Supercritixcal Fluid Extraction Technique
- 2012 - 2014** Synthesis and Characterization of Insulin Loaded Poly (D, L-Laclide-co-glycolide)(PLGA) Based Magnetic Nanoparticles
- 2012 - 2014** Supercritical Fluid Extraction ( SFE )of Bioactive Compounds from *Pereskia Bleo* using Various Technique
- 2012 - -1** Ultrapure Activated Carbon (charcoal) as an Adsorbent of Toxins from Human stomach
- 2012 - 2015** Ultrapure Activated Carbon (charcoal) as an Adsorbent of Toxins from Human stomach
- 2011 - 2013** (RU2011) Supercritical carbon dioxide extraction and fractionation of mango seeds and peel oils from mango wastes as cocoa butter replacers
- Unknown - 2019** Extraction of fatty acids from leaves, stems and roots of Raja Berangkat plant using supercritical fluids.

## PUBLICATIONS

### Article

- 2019** [Biological activities and extraction technologies of \*Pheonix dactylifera\*: a review..](#)  
The Natural Products Journal , 8 pp.1-11
- 2019** [Effective treatment of palm oil mill effluent using FeSO<sub>4</sub>.7H<sub>2</sub>O waste from titanium oxide industry: Coagulation adsorption isotherm and kinetics studies.](#)  
Journal of Cleaner Production , 219 pp.86-98

- 2019** [Thermal properties, triglycerides and crystal morphology of bambangan \(Mangifera pajang\) kernel fat and palm stearin blends as cocoa butter alternatives.](#) LWT , 107 pp.64-71
- 2019** [Valuable components of bambangan fruit \(Mangifera pajang\) and its co-products: a review.](#) Food Research International , 115 pp.105 -115
- 2018** [Optimization of fat yield of bambangan \(Mangifera pajang\) kernel using response surface methodology and its antioxidant activities.](#) Journal of Food Measurement and Characterization , 12 (2) pp.1427-1438
- 2018** [Isolation and characterization of novel antibacterial compound from an untapped plant, Stereospermum fimbriatum.](#) Natural Product Research pp.1-9
- 2018** [Effect of various food processing and handling methods on preservation of natural antioxidants in fruits and vegetables.](#) Journal of Food Science and Technology , 55 (10) pp.3872-3880
- 2018** [Physicochemical properties of cocoa butter replacers from supercritical carbon dioxide extracted mango seed fat and palm oil mid-fraction blends.](#) International Food Research Journal , 25 (1) pp.143-149
- 2018** [Bambangan \(Mangifera pajang\) kernel fat: a potential new source of cocoa butter alternative.](#) International Journal of Food Science and Technology , 53 (7) pp.1689-1697
- 2018** [Optimisation of squalene recovery from palm oil by-product using integrated ScCO<sub>2</sub>-pressure swing.](#) Journal of Oil Palm Research , 30 (4) pp.570-578
- 2018** [Techniques for the extraction of phytosterols and their benefits in human health: a review.](#) Separation Science and Technology , 53 (14) pp.2206-2223
- 2018** [Universal mini COI barcode for the identification of fish species in processed products.](#) Food Research International , 105 pp.19-28
- 2018** [In vitro evaluation of cuscuta reflexa roxb. for thrombolytic, antioxidant, membrane stabilizing and antimicrobial activities.](#) Natural Product Research
- 2018** [Bambangan \(Mangifera pajang\) kernel fat: a potential new source of cocoa butter alternativ.](#) International Journal of Food Science and Technology , 53 pp.1689-1697
- 2018** [A clinical update on antibiotic resistance gram-negative bacteria in Malaysia-a review.](#) Journal of International Pharmaceutical Research , 45 pp.270-283
- 2018** [Multiplex PCR to discriminate bovine, porcine, and fish DNA in gelatin and confectionery products.](#) LWT - Food Science and Technology , 92
- 2018** [Enrichment, in vitro, and quantification study of antidiabetic compounds from neglected weed Mimosa pudica using supercritical CO<sub>2</sub> and CO<sub>2</sub>-Soxhlet.](#) Separation Science and Technology , 53 (2) pp.243-260
- 2018** [Corrigendum to "Supercritical carbon dioxide extraction of bioactive flavonoid from Strobilanthes crispus \(Pecah Kaca\)".](#) Food and Bioproducts Processing , 107 pp.131
- 2017** [Microencapsulation of fish oil using supercritical antisolvent process.](#) Journal of food and drug analysis , 25 (3) pp.654 -666

- 2017** [Extraction of  \$\alpha\$ -glucosidase inhibitory compounds from Phaleria macrocarpa fruit flesh using solvent, sonication, and subcritical carbon dioxide soxhlet methods.](#) Journal of Food Biochemistry , 41 (5) pp.1-11
- 2017** [Effect of pistachio seed hull extracts on quality attributes of chicken burger.](#) CyTA -Journal of Food , 15 (1) pp.9-14
- 2017**  [\$\alpha\$ -glucosidase inhibitors isolated from Mimosa pudica L..](#) Natural Product Research pp.1-6
- 2017** [Nutritional composition, extraction, and utilization of wheat germ oil: A review.](#) European Journal of Lipid Science and Technology , 119 (7) pp.1-9
- 2017** [Mimosa pudica L.: A comparative study via in vitro analysis and GC Q-TOF MS profiling on conventional and supercritical fluid extraction using food grade ethanol.](#) Indian Journal of Natural Products and Resources (IJNPR) , 8 (1) pp.54-62
- 2017** [Development and validation of short-amplicon length PCR assay for macaques meat detection under complex matrices.](#) International Journal of Food Properties , 20 (1) pp.231-245
- 2017** [Current analytical methods for amlodipine and its formulations: A review.](#) Journal CleanWAS , 1 (1) pp.17-22
- 2017** [Effect of medium-high energy emulsification condition on physicochemical properties of  \$\beta\$ -sitosterol multiple emulsion.](#) Food Bioprocess Technology , 10 (9) pp.1642-1654
- 2017** [Universal mini COI barcode for the identification of fish species in processed products.](#) Food Research International , 105 pp.19-28
- 2017** [Mimosa pudica L.: a comparative study via in vitro analysis and GC Q-TOF MS profiling on conventional and supercritical fluid extraction using food grade ethanol.](#) Indian Journal of Natural Products and Resources , 8 (1) pp.54-62
- 2017** [Effect of accelerated storage on chemical compositions of mango seed fat and palm oil mid-fraction blends as cocoa butter replacers.](#) LWT - Food Science and Technology , 84 pp.551-554
- 2017** [Identification of bioactive compounds with GC-Q-TOF-MS in the extracts from clinacanthus nutans using subcritical carbon dioxide extraction.](#) Separation Science and Technology , 52 (5) pp.852-863
- 2017** [Rapid investigation of  \$\alpha\$ -glucosidase inhibitory activity of Phaleria macrocarpa extracts using FTIR-ATR based fingerprinting.](#) Journal of Food and Drug analysis , 25 (2) pp.306-315
- 2017** [Phytochemical composition, biological activities and processing method of genus anisophyllea: a review.](#) The Natural Products Journal , 7 (3) pp.176-185
- 2017** [Targeting double genes in multiplex PCR for discriminating bovine, buffalo and porcine materials in food chain.](#) Food Control , 73 pp.175-184
- 2017** [Subcritical water extraction as a modern green extraction technique of hydroxychavicol from piper betle linn. leaves.](#) Malaysian Journal of Pharmacy , 3 (1 (Supplement)) pp.24-24

- 2017** [Microencapsulation of fish oil using supercritical antisolvent process.](#) Journal of Food and Drug Analysis , 25 (3) pp.654-666
- 2017** [In vitro antioxidant and,  \$\alpha\$ -glucosidase inhibitory activities and comprehensive metabolite profiling of methanol extract and its fractions from Clinacanthus nutans.](#) BMC Complementary and Alternative Medicine , 17 (1) pp.1-10
- 2016** [Stereospermum fimbriatum as a potential source of phytochemicals: a review of stereospermum genus.](#) Current Pharmaceutical Biotechnology , 17 (12) pp.1024-1035
- 2016** [Biosorption of Pb and Cu from aqueous solution using banana peel powder.](#) Desalination and Water Treatment , 57 (1) pp.303-314
- 2016** [Microencapsulation of fish oil using hydroxypropyl methylcellulose as a carrier material by spray drying.](#) Journal of Food Processing and Preservation , 40 (2) pp.140-153
- 2016** [Soy protein-gum karaya conjugate: emulsifying activity and rheological behavior in aqueous system and oil in water emulsion.](#) Journal of the American Oil Chemists' Society , 93 (1) pp.1-10
- 2016** [Extraction of omega 3 fatty acids from sardine byproducts using supercritical carbon dioxide \(SC-CO<sub>2</sub>\).](#) The International Medical Journal of Malaysia , 15 pp.112-112
- 2016** [Simultaneous extraction and fractionation of fish oil from tuna by-product using supercritical carbon dioxide \(SC-CO<sub>2</sub>\).](#) Journal of Aquatic Food Product Technology , 25 (2) pp.230-239
- 2016** [Characterization of valuable compounds from winter melon \(benincasa hispida \(thunb.\) Cogn.\) seeds using supercritical carbon dioxide extraction combined with pressure swing technique.](#) Food and Bioprocess Technology , 9 (3) pp.396-406
- 2016** [Duplex real-time PCR assay using SYBR Green to detect and quantify Malayan box turtle \(Cuora amboinensis\) materials in meatballs, burgers, frankfurters and traditional Chinese herbal jelly powder.](#) Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment , 33 (11) pp.1643-1659
- 2016** [Lab-on-a-chip-based PCR-RFLP assay for the detection of Malayan box turtle \(Cuora amboinensis\) in the food chain and traditional Chinese medicines.](#) PLOS One , 11 (10) pp.1-27
- 2016** [Screening of various parts of phaleria macrocarpa plant for  \$\alpha\$ -glucosidase inhibitory activity.](#) Journal of Food Biochemistry , 40 (2) pp.201-210
- 2016** [A review on nanocellulosic fibres as new material for sustainable packaging: process and applications.](#) Renewable and Sustainable Energy Reviews , 64 pp.823-836
- 2016** [Effect of hydrolysis treatment on cellulose nanowhiskers from oil palm \(Elaeis guineensis\) fronds: morphology, chemical, crystallinity, and thermal characteristics..](#) BioResources , 11 (3) pp.6742-6755
- 2016** [The effect of flow rate at different pressures and temperatures on cocoa butter extracted from cocoa nib using supercritical carbon dioxide.](#) Journal of Food Science and Technology , 53 (5) pp.2287-2297

- 2016** [Double gene targeting multiplex polymerase chain reaction–restriction fragment length polymorphism assay discriminates beef, buffalo, and pork substitution in frankfurter products.](#) *Journal of Agricultural and Food Chemistry* , 64 (32) pp.6343-6354
- 2016** [Optimization of ultrasound-assisted extraction of pectinase enzyme from guava \(\*Psidium guajava\*\) peel: enzyme recovery, specific activity, temperature, and storage stability.](#) *Preparative Biochemistry and Biotechnology* , 46 (1) pp.91-99
- 2016** [Effect of different fat replacers and drying methods on thermal behaviour, morphology and sensory attributes of reduced-fat coffee creamer.](#) *LWT - Food Science and Technology* , 72 pp.330-342
- 2016** [Immunopotentiality of Ayurvedic polyherbal formulations “Saribadi” and “Anantamul Salsa” with augmentation of IgM production and lymphocytes proliferation: A preliminary study.](#) *Asian Pacific Journal of Tropical Biomedicine* , 6 (7) pp.568-573
- 2016** [A novel aqueous micellar two phase system composed of surfactant and mannitol for purification of polygalacturonase enzyme from \*durio zibethinus murry\* and recycling phase components.](#) *Separation Science and Technology* , 51 (6) pp.968-975
- 2016** [Clinacanthus nutans: a review of the medicinal uses, pharmacology and phytochemistry.](#) *Asian Pacific Journal of Tropical Medicine* , 9 (4) pp.402-409
- 2016** [Optimisation of ultrasound-assisted extraction of pectinase enzyme from guava \(\*Psidium guajava\*\) peel: Enzyme recovery, specific activity, temperature and storage stability.](#) *Preparative Biochemistry and Biotechnology* , 46 (1) pp.91-99
- 2015** [Rheological properties and emulsifying activity of gum karaya \(\*sterculia urens\*\) in aqueous system and oil in water emulsion: heat treatment and microwave modification.](#) *International Journal of Food Properties* , 19 (3) pp.662-679
- 2015** [Suitable coating material for microencapsulation of spray-dried fish oil.](#) *Journal of Food Science and Technology* , 52 (7) pp.4441-4449
- 2015** [Effect of the polymer composition on the physicochemical properties of microencapsulated fish oil using spray drying.](#) *Drying Technology* pp.1-44
- 2015** [Optimization of supercritical carbon dioxide extraction parameters of cocoa butter analogy fat from mango seed kernel oil using response surface methodology.](#) *Journal of Food Science and Technology* , 52 (1) pp.319-326
- 2015** [Analyses and profiling of extract and fractions of neglected weed \*mimosa pudica\* Linn. traditionally used in Southeast Asia to treat diabetes.](#) *South African Journal of Botany* , 99 pp.144-152
- 2015** [Effect of supercritical fluid extraction on the reduction of toxic elements in fish oil compared with other extraction methods.](#) *Journal of Food Protection* , 78 (1) pp.172-179
- 2015** [Bioactive compounds and advanced processing technology: \*Phaleria macrocarpa\* \(sheff.\) Boerl, a review.](#) *Journal of Chemical Technology and Biotechnology* , 90 (6) pp.981-991
- 2015** [Mango \(\*Mangifera indica\* L.\) by-products and their valuable components: a review.](#) *Food Chemistry* , 183 pp.173-180

- 2015** [Environmental durability of vinyl ester composites filled with carbonized jatropa seed shell](#). BioResources , 10 (2) pp.2350-2359
- 2015** [Phytosterols and their extraction from various plant matrices using supercritical carbon dioxide: a review](#). Journal of the Science of Food and Agriculture , 95 (7) pp.1385-1394
- 2015** [Ethanol modified supercritical carbon dioxide extraction of antioxidant rich extract from Pereskia bleo](#). Journal of Industrial and Engineering Chemistry , 21 pp.1314-1322
- 2015** [Optimization of high pressure homogenization parameters for the isolation of cellulosic nanofibers using response surface methodology](#). Industrial Crops and Products , 74 pp.381-387
- 2015** [A novel liquid/liquid extraction process composed of surfactant and acetonitrile for purification of polygalacturonase enzyme from durio zibethinus](#). Journal of chromatography. B, Analytical technologies in the biomedical and life sciences , 993-94 pp.1-8
- 2015** [Impact of chitosan composites and chitosan nanoparticle composites on various drug delivery systems: a review](#). Journal of Food and Drug Analysis , 23 (4) pp.619-629
- 2015** [Identification of angiotensin I converting enzyme inhibitory and radical scavenging bioactive peptides from sea cucumber \(Stichopus vastus\) collagen hydrolysates through optimization](#). International Food Research Journal , 22 (3) pp.1074-1082
- 2015** [Bioactive compounds and advanced processing technology: Phaleria macrocarpa \(sheff.\) Boerl, a review](#). Journal of Chemical Technology and Biotechnology pp.981-991
- 2015** [Multivariate analysis of PRISMA optimized TLC image for predicting antioxidant activity and identification of contributing compounds from Pereskia bleo](#). Biomedical Chromatography , 29 (12) pp.1826-1833
- 2014** [Hard cocoa butter replacers from mango seed fat and palm stearin](#). Food Chemistry , 154 pp.323-329
- 2014** [Characterization of crystallization and melting profiles of blends of mango seed fat and palm oil mid-fraction as cocoa butter replacers using differential scanning calorimetry and pulse nuclear magnetic resonance](#). Food Research International , 55 (1) pp.103-109
- 2014** [Storage stability and quality of polyunsaturated fatty acid rich oil fraction from longtail tuna \(thunnus tonggol\) head using supercritical extraction](#). CyTA - Journal of Food , 12 (2) pp.183-188
- 2014** [Investigators at University of Malaya describe findings in ethanol](#). Life Science Weekly pp.544
- 2014** [Reduction of gelatinization temperatures of starch blend suspensions with supercritical CO2 treatment](#). The Journal of Supercritical Fluids , 95 pp.499-505
- 2014** [Studies of the impact of occupational exposure of pharmaceutical workers on the development of antimicrobial drug resistance](#). Journal of Occupational Health , 56 (4) pp.260-270



- 2014** [Biochemical and radical-scavenging properties of sea cucumber \(\*Stichopus vastus\*\) collagen hydrolysates.](#) Natural Product Research , 28 (16) pp.1302-1305
- 2014** [Particle formation and micronization using non-conventional techniques- review.](#) Chemical Engineering and Processing: Process Intensification , 86 (2014) pp.47-52
- 2014** [Optimisation of the supercritical extraction of toxic elements in fish oil.](#) Food Additives & Contaminants: Part A , 31 (10) pp.1712-1722
- 2014** [Orthogonal partial least squares model for rapid prediction of antioxidant activity of \*Pereskia bleo\* by fourier transform infrared spectroscopy.](#) Analytical letters , 47 (12) pp.2061-2071
- 2014** [Quality of tuna fish oils extracted from processing the by-products of three species of neritic tuna using supercritical carbon dioxide .](#) Journal of Food Processing and Preservation
- 2014** [High-pressure enzymatic hydrolysis to reveal physicochemical and thermal properties of bamboo fiber using a supercritical water fermenter.](#) BioResources , 9 (4) pp.7710-7720
- 2014** [Weeds as alternative useful medicinal source: \*Mimosa pudica\* Linn. on diabetes mellitus and its complications.](#) Advanced Materials Research , 995 pp.49-59
- 2014** [Experimental design of supercritical fluid extraction: a review.](#) Journal of Food Engineering , 124 pp.105-116
- 2014** [Supercritical carbon dioxide extraction and studies of mango seed kernel for cocoa butter analogy fats = Extracción mediante dióxido de carbono supercrítico y estudios del núcleo de la semilla de mango para obtener grasas análogas a la mantequilla de cacao.](#) CyTA - Journal of Food , 12 (1) pp.97-103
- 2014** [Cocoa butter replacers from blends of mango seed fat extracted by supercritical carbon dioxide and palm stearin.](#) Food Research International , 65 pp.401-406
- 2014** [Supercritical carbon dioxide extraction of highly unsaturated oil from \*Phaleria macrocarpa\* seed.](#) Food Research International , 65 (C) pp.394-400
- 2014** [Optimization of oil yield of \*Phaleria macrocarpa\* seed using response surface methodology and its fatty acids constituents.](#) Industrial Crops and Products , 52 pp.405-412
- 2013** [Pharmacological relevance of primitive leafy Cactuses \*Pereskia\*.](#) Research Journal of Biotechnology , 8 (12) pp.134-142
- 2013** [The impact of biopolymers on thermal behavior of meat-biopolymer mixtures- Differential scanning calorimetry \(DSC\) study.](#) Journal of Food, Agriculture & Environment , 11 (3-4) pp.566-571
- 2013** [Formulation and substantiation of homemade complementary baby food by selective feeding trial.](#) Journal of Food, Agriculture & Environment , 11 (3/4) pp.346-353
- 2013** [Physicochemical and biochemical properties of pepsin-solubilized collagen isolated from the integument of Sea Cucumber \(\*Stichopus vastus\*\).](#) Journal of Food Processing and Preservation pp.XX-XX

- 2013** [Determination of fluoranthene, benzo\[b\]fluoranthene and benzo\[a\]pyrene in meat and fish products and their intake by Malaysian.](#) Food Bioscience , 1 pp.73-80
- 2013** [Infectious risk assessment of unsafe handling practices and management of clinical solid waste.](#) International Journal of Environmental Research and Public Health , 10 (2) pp.556-567
- 2013** [Cocoa butter fat replacers are processing, but more work needed, say researchers.](#) confectionarynews.com
- 2013** [Ultrasound-assisted extraction of valuable compounds from winter melon \(Benincasa hispida\) seeds.](#) International Food Research Journal , 20 (1) pp.331-338
- 2013** [Supercritical Carbon Dioxide Extraction of Seed Oil from Winter Melon \(Benincasa hispida\) and Its Antioxidant Activity and Fatty Acid Composition.](#) Molecules , 18 (1) pp.997-1014
- 2013** [Rheological behavior of starch-based biopolymer mixtures in selected processed foods.](#) Starch - Stärke , 65 (1-2) pp.73-81
- 2013** [Techniques for extraction of bioactive compounds from plant materials: a review.](#) Journal of Food Engineering , 117 (4) pp.426-436
- 2013** [Modification of a gas chromatography-mass spectrometry method for the determination of acrylamide in fried snacks.](#) Journal of Food, Agriculture & Environment , 11 (3-4) pp.217-220
- 2013** [Cocoa butter fats and possibilities of substitution in food products concerning cocoa varieties, alternative sources, extraction methods, composition, and characteristics.](#) Journal of Food Engineering , 117 (4) pp.467-476
- 2013** [Effects of polar cosolvents on cocoa butter extraction using supercritical carbon dioxide.](#) Innovative Food Science & Emerging Technologies , 20 pp.152-160
- 2013** [Supercritical carbon dioxide extraction of oil from Thunnus tonggol head by optimization of process parameters using response surface methodology.](#) Korean Journal of Chemical Engineering , 30 (7) pp.1466-1472
- 2013** [Effects of moisture and pH on supercritical fluid extraction of cocoa butter.](#) Food and Bioprocess Technology , 6 (9) pp.2455-2465
- 2012** [Isolation and characterization of pepsin-solubilized collagen from the integument of sea cucumber \(Stichopus vastus\).](#) Journal of the Science of Food and Agriculture
- 2012** [Optimization of ultrasound-assisted extraction of crude oil from winter melon \(Benincasa hispida\) seed using response surface methodology and evaluation of its antioxidant activity, total phenolic content and fatty acid composition.](#) Molecules , 17 (10) pp.11748-11762
- 2012** [Purification of serine protease from mango \(Mangifera Indica Cv. Chokanan\) peel using an alcohol/salt aqueous two phase system.](#) Food Chemistry , 132 (3) pp.1382-1386
- 2012** [Sensitivity of colletotrichum gloeosporioides to sodium bicarbonate on the development of anthracnose in papaya \(Carica papaya L. cv. Frangi\).](#) Australian Journal of Crop Science , 6 (1) pp.17-22

- 2012** [Antioxidant activity of winter melon \(Benincasa Hispida\) seeds using conventional soxhlet extraction technique.](#) International Food Research Journal , 19 (1) pp.229-234
- 2012** [Mixed biopolymer systems based on starch.](#) Molecules , 17 (1) pp.584-597
- 2012** [Application of supercritical fluid extraction \(SFE\) of palm oil and oil from natural sources.](#) Molecules , 17 (2) pp.1764-1794
- 2012** [Role of health hazardous ethephone on nutritive values of selected pineapple, banana and tomato.](#) Journal of Food, Agriculture & Environment , 10 (2) pp.247-251
- 2012** [Optimization of supercritical carbon dioxide extraction of bioactive flavonoid compounds from spearmint \(Mentha Spicata L.\) leaves by using response surface methodology .](#) Food and Bioprocess Technology , 5 (3) pp.912-920
- 2012** [Optimization of serine protease purification from mango \(Mangifera indica Cv. Chokanan\) peel in polyethylene glycol/ dextran aqueous two phase system.](#) International Journal of Molecular Sciences , 13 pp.3636-3649
- 2012** [Treatment of clinical solid waste using steam autoclave as a possible alternative technology of incineration .](#) International Journal of Environmental Research and Public Health , 9 (3) pp.855-867
- 2012** [Role of health hazardous ethephone in nutritive values of selected pineapple, banana and tomato.](#) Journal of Food, Agriculture & Environment , 10 (2) pp.247-251
- 2012** [Effect of some biopolymers on the rheological behavior of surimi gel.](#) Molecules , 17 (5) pp.5733-5744
- 2012** [Squalene recovery from palm fatty acid distillate using supercritical fluid extraction.](#) International Food Research Journal , 19 (4) pp.1661-1667
- 2012** [Fish oil recovery from viscera of Indian mackerel \(Rastrelliger kanagurta\) by supercritical fluid: an optimization approach.](#) Journal of the Chinese Chemical Society , 59 (11) pp.1421-1429
- 2012** [Optimization of supercritical CO2 extraction of fish oil from viscera of African Catfish \(Clarias gariepinus\).](#) International Journal of Molecular Sciences , 13 (9) pp.11312-11322
- 2012** [Effects of marinating on the formation of polycyclic aromatic hydrocarbons \(benzo\[a\]pyrene, benzo\[b\]fluoranthene and fluoranthene\) in grilled beef meat.](#) Food Control , 28 (2) pp.420-425
- 2011** [Optimization of the conditions for extraction of serine protease from Kesinai plant \(Streblus asper\) leaves using Response Surface Methodology.](#) Molecules , 16 (11) pp.9245-9260
- 2011** [Direct purification of pectinase from Mango \(Mangifera Indica Cv. Chokanan\) peel using a PEG/Salt-based aqueous two phase system.](#) Molecules , 16 (10) pp.8419-8427
- 2011** [Effects of annual fluctuation of environmental factors on starch properties in potato tuber development.](#) Starch , 64 (3) pp.229-236

- 2011** [Use of prebiotics in oral delivery of bioactive compounds: a nanotechnology perspective.](#) Die Pharmazie -International Journal of Pharmaceutical Sciences , 66 (5) pp.319-324
- 2011** [Profile of Parkia speciosa hassk metabolites extracted with SFE using FTIR- PCA method.](#) Journal of Chinese Chemical Society , 58 (6) pp.1-8
- 2011** [Screening of selected Malaysian plants against several food borne pathogen bacteria.](#) International Food Research Journal , 18 (3) pp.1195-1201
- 2011** [Studies on analgesic and anti inflammatory effect of the ethanolic leaf extract of momordica charantia L in animal model.](#) International Journal of Contemporary Research and Review , 2 (8) pp.1-8
- 2011** [Supercritical carbon dioxide fractionation of pithecellobium jiringan jack seed compositions using fast gas chromatography time of flight mass spectrometry.](#) Journal of Food Process Engineering , 34 (5) pp.1746-1758
- 2010** [Optimization of arecoline extraction from areca nut using supercritical carbon dioxide..](#) Journal of Food and Drug Analysis , 18 (1) pp.1-7
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- 2018 [Cytotoxicity and thrombolytic potential of seven different medicinal plant leaves extract.](#) In: **4th International Pharmaceutical Research Conference 2018**
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