

SUBJECT INDEX 2022

1-D infiltration

Stability analysis of a partially saturated layered soil formation associated with shallow landslides (Walpita SC, Ratnaweera P & Fernando GWR) **50**: 405-415 (2022)

4ONSE

Evaluating the potential of an open sensor network to support reservoir pre-release decision making (Warusavitharana E, Mahanama PKS, Cannata M, Ratnayake R, Sudantha BH & Strigaro D) **50**: 577-587 (2022)

Acclimatization

Micropropagation of *Stevia rebaudiana* (Bertoni) Bertoni using nutrient water of *Cocos nucifera* var. *aurantiaca* (King coconut) as a natural growth enhancer (Karunarathna HGMK, Medagama K, Wijesundara S & Iqbal MCM) **50**: 3-12 (2022)

Adaptive lasso

Implementation of adaptive lasso regression based on multiple Theil-Sen Estimators using differential evolution algorithm with heavy tailed errors (Dünder E, Zaman T, Cengiz MA & Alakus K) **50**: 395-404 (2022)

Aggressive environments

Combined use of non-destructive tests, visual inspection and service life prediction to ensure the reliability of reinforced concrete water tanks (Ranasinghe K & De Silva S) **50**: 371-386 (2022)

Agriculture

Application of Benford's law in agricultural production statistics (Hanci F) **50**: 387-393 (2022)

Angiogenesis

Effect of PEGylated gold nanorods on the circulating vascular endothelial growth factor, platelet-derived growth factor, and miR-29a in CD-1 mice (Gamal-Eldeen AM, Raafat BM, Fahmy CA, Abo-Elfadl MT, El-Daly SM & Ali MRK) **50**: 467-475 (2022)

Annual cycle

Vegetative and reproductive phenology of *Cinnamomum verum* J. Presl grown in intermediate climatic zone of Sri Lanka (Hansika KAS, Kodikara KAS, Wijeweera AA, Senanayake G & Jayatissa LP) **50**: 87-99 (2022)

Antibiotic-resistant genes

Screening and quantitative analysis of antibiotic resistance genes in hospital and aquaculture effluent in Sri Lanka as an emerging environmental contaminant (Liyanage GY, Weerasekera MM & Manage PM) **50**: 361-370 (2022)

Anti-fine dust

Sonication-assisted water extract of *Dendronephthya gigantea* exhibits anti-fine dust effects; attenuation of MAPK phosphorylation in macrophages (Jayawardena TU, Fernando IPS, Nagahawatta DP, Wang L, Yang HW, Oh JY, Sanjeeva KKA & Jeon Y) **50**: 151-160 (2022)

Anti-inflammatory activity

Anti-inflammatory activity of nonyl 8-acetoxy-6-methyloctanoate, isolated from the cultured marine diatom, *Phaeodactylum tricorutum*: mediated via suppression of inflammatory mediators in LPS-stimulated RAW 264.7 macrophages (Samarakoon KW, Ko JY, Lee JH & YJ Jeon YJ) **50**: 685-693 (2022)

Antioxidant potential

Development of vacuum-dried powder and drinking yoghurt from soursop fruit (*Annona muricata* L.) and evaluation of their physico-chemical and functional properties (Ranaweera NI, Pitipanaarachchi RC, Herath HMT & Chandramali DVP) **50**: 489-502 (2022)

Anti-TB drugs

M-polynomial and topological indices for the anti-tuberculosis drugs (Jude TP, Elango P & Koneswaran M) **50**: 827-838 (2022)

Apatite

Nanotechnology in sustainable value addition to Sri Lankan minerals (Rajapakse RMG) **50**: 303-314 (2022)

API 5L grade B steel

Developing a model to predict the propagation of sulphide stress corrosion of steel used for petroleum pipelines (Manimendra A, De Silva I & Jayasundara R) **50**: 839-850 (2022)

Arabian Sea

Tropical cyclones in the Arabian Sea and the Bay of Bengal: comparison of environmental factors (Pathirana G & Priyadarshani K) **50**: 53-64 (2022)

Arsenic

Geo-environmental assessment of geochemistry of groundwater and associated human health risks in the dry zone terrain of Sri Lanka (Chandrajith R & Diyabalanage S) **50**: 213-229 (2022)

Arsenic

Heavy metals and food safety in Sri Lanka: A review (Samarajeewa U) **50**: 541-562 (2022)

Artificial intelligence

Implementation of a fuzzy logic approach for a smart production System (Dihovicni D, Mišćević M, Kovačević NR & Kreculj D) **50**: 695-703 (2022)

Artificial intelligence (AI)

The road to precision cancer therapy – history and strategies (Thiagalasingam S) **50**: 321-330 (2022)

Artificial intelligence

Artificial intelligence framework for threat assessment and containment for covid-19 and future epidemics while mitigating the socioeconomic impact to women, children, and underprivileged groups (Ilangarathna G, Weligampola H, Ranasinghe Y, Attygalla E, Godaliyaddha R, Herath V, Ekanayake P, Ekanayake SY, Pinnawela M, Dharmaratne S, Tilakaratne G & Ekanayake J) **50**: 251-262 (2022)

Aspergillus flavus

Bioactive cyclo-(S-Pro-R-Leu) from *Aspergillus flavus*, the marine endophytic fungus from brown alga, *Dictyota kunthi* (Haniffa HM, Dharmaratne HRW & Mohommad MY) **50**: 717-721 (2022)

Aspergillus fumigatus

An approach to develop bioremediation by isolation and characterization of microorganisms from soil contaminated with used lubricating oil (Wijesooriya MM, Masakorala K, Widana Gamage SMK & Walakulu Gamage SS) **50**: 347-360 (2022)

Atopic dermatitis

Non invasive automated approach for eczema lesions segmentation using colour space normalization (Nisar H, Ch'ng Y-K & Yeap KH) **50**: 705-716 (2022)

Autocorrelation function

A coupled system of stochastic differential equations for probabilistic wind speed modelling (Bandarathilake HMDP, Palamakumbura GWRMR & Maithripala DHS) **50**: 613-623 (2022)

Automation

Implementation of a fuzzy logic approach for a smart production System (Dihovicni D, Mišćević M, Kovačević NR & Kreculj D) **50**: 695-703 (2022)

Auxiliary variable

Estimation of mean considering the joint influence of measurement errors and non-response in two-phase sampling designs (Sabir S, Sanaullah A & Gupta S) **50**: 13-25 (2022)

Bay of Bengal

Tropical cyclones in the Arabian Sea and the Bay of Bengal: comparison of environmental factors (Pathirana G & Priyadarshani K) **50**: 53-64 (2022)

Beira Lake

Poly-β-hydroxybutyrate (PHB) production potential of naturally existing cyanobacterial blooms (Wijerathne RS, Manage PM, & Idroos FS) **50**: 733-743 (2022)

Bifidobacterium

Physicochemical and sensory attributes of inulin incorporated set yoghurt prepared using cow and buffalo milk (Gnanarathna KADC, Jayasumama MTLK, Weragama KWDP, Gunasekara DCS, Weerasingha WVVR, Chandrasekara A & Prasanna PHP) **50**: 651-661 (2022)

Binara

Induction of somatic embryogenesis from leaf explants of *Exacum trinervium* (L.) Druce (Binara) (de Silva V & Eeswara JP) **50**: 27-33 (2022)

Biodegradable plastics

Poly-β-hydroxybutyrate (PHB) production potential of naturally existing cyanobacterial blooms (Wijerathne RS, Manage PM, & Idroos FS) **50**: 733-743 (2022)

Biodegradation

An approach to develop bioremediation by isolation and characterization of microorganisms from soil contaminated with used lubricating oil (Wijesooriya MM, Masakorala K, Widana Gamage SMK & Walakulu Gamage SS) **50**: 347-360 (2022)

Biodiversity

First record of *Thottea duchartrei* Sivar., A. Babu & Balach. (Aristolochiaceae) in Sri Lanka (Tennakoon TMSG, Borosova R, Suraweera C, Herath S, De Silva T, Padumadasa C, Weerasena J, Gunaratna N, Gunasekera N, Edwards S & Wijesundara S) **50**: 441-452 (2022)

Biological control

Mosquito control: A review on the past, present and future strategies (Karunaratne SHPP & Surendran SN) **50**: 277-292 (2022)

Biological sustainability

New paradigm for inland fisheries development in Sri Lanka: a transdisciplinary approach for addressing food and nutritional security (Amarasinghe US, Pushpalatha KBC & Wijenayake WMHK) **50**: 177-194 (2022)

BioMercator

Meta-QTL analysis identified stable quantitative trait loci (QTLs) and associated resistance gene analogues in rice (Shashiprabha HED, Abeysundara SP & Ariyaratna HACK) **50**: 35-51 (2022)

Bioremediation

Screening of potential aerobic denitrifying bacteria for nitrate removal from water (Kirisana A, Gnanavelrajah N & Ratnayake RR) **50**: 639-649 (2022)

Birds

Effects of dietary lead exposure on the call of Japanese quail (*Coturnix japonica*) hatchlings (Ranasinghe RPTI, Fernando TSP & Wijesinghe MR) **50**: 477-487 (2022)

bla TEM

Screening and quantitative analysis of antibiotic resistance genes in hospital and aquaculture effluent in Sri Lanka as an emerging environmental contaminant (Liyanage GY, Weerasekera MM & Manage PM) **50**: 361-370 (2022)

Black hole entropy

Simulation of coloured particles radiation spectra from black holes (Wijewardhana CNT & Gamalath KAILW) **50**: 863-880 (2022)

Black hole mass

Simulation of coloured particles radiation spectra from black holes (Wijewardhana CNT & Gamalath KAILW) **50**: 863-880 (2022)

Black hole spin

Simulation of coloured particles radiation spectra from black holes (Wijewardhana CNT & Gamalath KAILW) **50**: 863-880 (2022)

Black hole temperature

Simulation of coloured particles radiation spectra from black holes (Wijewardhana CNT & Gamalath KAILW) **50**: 863-880 (2022)

Block matrices

On the construction of unitaries representing minimal inner toral polynomials (Dissanayake CSB & Wijesooriya UD) **50**: 607-611 (2022)

Blood electrolyte analyzer

Molecular logic-based computation and fluorescent sensors: The story so far (Yao CY & de Silva AP) **50**: 195-211 (2022) Fluorescent PET sensing/switching Molecular logic-based computation and fluorescent sensors: The story so far (Yao CY & de Silva AP) **50**: 195-211 (2022)

Blue revolution

New paradigm for inland fisheries development in Sri Lanka: a transdisciplinary approach for addressing food and nutritional security (Amarasinghe US, Pushpalatha KBC & Wijenayake WMHK) **50**: 177-194 (2022)

Bone meal

Influence of different bone meal particle size induced calcium specific appetite on performance and egg quality parameters of layer chickens (Gamage TS, Mutucumarana RK & Andrew MS) **50**: 745-754 (2022)

Buffalo milk

Physicochemical and sensory attributes of inulin incorporated set yoghurt prepared using cow and buffalo milk (Gnanarathna KADC, Jayasumama MTLK, Weragama KWDP, Gunasekara DCS, Weerasingha WVVR, Chandrasekara A & Prasanna PHP) **50**: 651-661 (2022)

Cadmium

Heavy metals and food safety in Sri Lanka: A review (Samarajeewa U) **50**: 541-562 (2022)

Calcium

Influence of different bone meal particle size induced calcium specific appetite on performance and egg quality parameters of layer chickens (Gamage TS, Mutucumarana RK & Andrew MS) **50**: 745-754 (2022)

Calls

Effects of dietary lead exposure on the call of Japanese quail (*Coturnix japonica*) hatchlings (Ranasinghe RPTI, Fernando TSP & Wijesinghe MR) **50**: 477-487 (2022)

Carbimazole

Comparison of radioactive iodine therapy outcome and the duration of pretreatment discontinuation of carbimazole among hyperthyroid patients: a prospective study (Raheem S & Nanayakkara DKK) **50**: 417-423 (2022)

CBCT

Determination of safe zone of the mandible for implant and bone harvesting (using CBCT) of mandible in a group of Sri Lankan subjects (Dharmapala RMAU, Satharasinghe DM, Silva SPI & Jeyasugiththan J) **50**: 65-72 (2022)

Chloride induced corrosion

Combined use of non-destructive tests, visual inspection and service life prediction to ensure the reliability of reinforced concrete water tanks (Ranasinghe K & De Silva S) **50**: 371-386 (2022)

Cinnamomum verum

Vegetative and reproductive phenology of *Cinnamomum verum* J. Presl grown in intermediate climatic zone of Sri Lanka (Hansika KAS, Kodikara KAS, Wijeweera AA, Senanayake G & Jayatissa LP) **50**: 87-99 (2022)

CKDu

Geo-environmental assessment of geochemistry of groundwater and associated human health risks in the dry zone terrain of Sri Lanka (Chandrajith R & Diyabalanage S) **50**: 213-229 (2022)

Closed-loop market information flow model

Designing a closed-loop information flow model in bridging the market information gap among agriculture stakeholders in Sri Lanka (Mallikaarachchi TB, Samaraweera G, Walisadeera A, De Silva L & Munasinghe S) **50**: 881-896 (2022)

Coastal erosion

Assessment of wave climate change and its impact on littoral drift along the Kalutara and Kalpitiya beaches in Sri Lanka (Samarasekara RSM, Sahthy MM, Siriwardana AHMS & Siriwardana HPAM) **50**: 813-826 (2022)

Coconut oil

Fractal characteristics of creeping discharges propagating on nano-epoxy composite insulators immersed in coconut oil (Ediriweera S, Jayarathna PB, Samarasinghe R & Lucas R) **50**: 663-673 (2022)

Coconut oil

Investigation of oil level and type of solid insulator on creeping discharges propagating under an AC electric field (Ediriweera S, Jayarathna PB, Samarasinghe R & Lucas R) **50**: 725-732 (2022)

Coconut water

Micropropagation of *Stevia rebaudiana* (Bertoni) Bertoni using nutrient water of *Cocos nucifera* var. *aurantiaca* (King coconut) as a natural growth enhancer (Karunarathna HGMK, Medagama K, Wijesundara S & Iqbal MCM) **50**: 3-12 (2022)

Coloured particles

Simulation of coloured particles radiation spectra from black holes (Wijewardhana CNT & Gamalath KAILW) **50**: 863-880 (2022)

Commensal

Predominance of phylogenetic group B2 among commensal *Escherichia coli* in humans from Kandy District, Sri Lanka (Rangama BNLD, Abayasekara CL and Gordon DM) **50**: 137-150 (2022)

Computational algorithms

The road to precision cancer therapy – history and strategies (Thiagalingam S) **50**: 321-330 (2022)

Condition assessment

Combined use of non-destructive tests, visual inspection and service life prediction to ensure the reliability of reinforced concrete water tanks (Ranasinghe K & De Silva S) **50**: 371-386 (2022)

Cone beam computed

Determination of safe zone of the mandible for implant and bone harvesting (using CBCT) of mandible in a group of Sri Lankan subjects (Dharmapala RMAU, Satharasinghe DM, Silva SPI & Jeyasugiththan J) **50**: 65-72 (2022)

Congestion detection

Fuzzy based congestion detection and control algorithm for energy efficient wireless sensor network (WSN) (Ramasamy-Rajeswari A, Ganapathy S, Kulothungan K & Kannan A) **50**: 563-576 (2022)

Contamination

Screening of potential aerobic denitrifying bacteria for nitrate removal from water (Kirisan A, Gnanavelrajah N & Ratnayake RR) **50**: 639-649 (2022)

Control

Fuzzy based congestion detection and control algorithm for energy efficient wireless sensor network (WSN) (Ramasamy-Rajeswari A, Ganapathy S, Kulothungan K & Kannan A) **50**: 563-576 (2022)

Correlation

Development of wind energy prediction models using statistical, machine learning and hybrid techniques: a case study (Ekanayake P, Panahatipola O & Jayasinghe J) **50**: 503-517 (2022)

COVID-19

Artificial intelligence framework for threat assessment and containment for covid-19 and future epidemics while mitigating the socioeconomic impact to women, children, and underprivileged groups (Ilangarathna G, Weligampola H, Ranasinghe Y, Attygalla E, Godaliyaddha R, Herath V, Ekanayake P, Ekanayake SY, Pinnawela M, Dharmaratne S, Tilakaratne G & Ekanayake J) **50**: 251-262 (2022)

Creeping discharges

Fractal characteristics of creeping discharges propagating on nano-epoxy composite insulators immersed in coconut oil (Ediriweera S, Jayarathna PB, Samarasinghe R & Lucas R) **50**: 663-673 (2022)

Crop improvement

Microbiome: diversity, distribution, and potential role in sustainable crop production (Fernando WGD & Dolatabadian A) **50**: 231-250 (2022)

Cultured marine diatom

Anti-inflammatory activity of nonyl 8-acetoxy-6-methyloctanoate, isolated from the cultured marine diatom, *Phaeodactylum tricorutum*: mediated via suppression of inflammatory mediators in LPS-stimulated RAW 264.7 macrophages (Samarakoon KW, Ko JY, Lee JH & YJ Jeon YJ) **50**: 685-693 (2022)

Cyanobacteria

Poly- β -hydroxybutyrate (PHB) production potential of naturally existing cyanobacterial blooms (Wijerathne RS, Manage PM, & Idroos FS) **50**: 733-743 (2022)

Cyclic analysis

Seismic performance of stiffened steel box column with different corner stiffener arrangements: a numerical approach (Thevega T, Jayasinghe JASC & Susantha KAS) **50**: 453-466 (2022)

Cyclo- (S-Pro-R-Leu)

Bioactive cyclo-(S-Pro-R-Leu) from *Aspergillus flavus*, the marine endophytic fungus from brown alga, *Dictyota kunthi* (Haniffa HM, Dharmaratne HRW & Mohommad MY) **50**: 717-721 (2022)

Cylindrospermopsin (CYN)

Effect of cylindrospermopsin on the hepatotoxicity in wistar rats (Abeyisiri HASN, Wanigasuriya JKP, Suresh TS, Beneragama DH & Manage PM) **50**: 595-605 (2022)

Deduru Oya basin

Evaluating the potential of an open sensor network to support reservoir pre-release decision making (Warusavitharana E, Mahanama PKS, Cannata M, Ratnayake R, Sudantha BH & Strigaro D) **50**: 577-587 (2022)

Delay reduction

Increasing the effectiveness of T-junctions with an innovative geometrical and phasing arrangement (Jayasooriya NK, Perera HLK and Bandara JMSJ) **50**: 73-86 (2022)

Demand and supply modeling

Designing a closed-loop information flow model in bridging the market information gap among agriculture stakeholders in Sri Lanka (Mallikaarachchi TB, Samaraweera G, Walisadeera A, De Silva L & Munasinghe S) **50**: 881-896 (2022)

Dendronephthya gigantea

Sonication-assisted water extract of *Dendronephthya gigantea* exhibits anti-fine dust effects; attenuation of MAPK phosphorylation in macrophages (Jayawardena TU, Fernando IPS, Nagahawatta DP, Wang L, Yang HW, Oh JY, Sanjeeva KKA & Jeon Y) **50**: 151-160 (2022)

Dental fluorosis

Geo-environmental assessment of geochemistry of groundwater and associated human health risks in the dry zone terrain of Sri Lanka (Chandrajith R & Diyabalanage S) **50**: 213-229 (2022)

Dependence functions

A new multivariate transmuted family of distributions: theory and application for modelling of daily world COVID-19 cases (Darwish JA, Al-Turk LI & Shahbaz MQ) **50**: 771-784 (2022)

Depth of corrosion

Developing a model to predict the propagation of sulphide stress corrosion of steel used for petroleum pipelines (Manimendra A, De Silva I & Jayasundara R) **50**: 839-850 (2022)

Dictyota kunthi

Bioactive cyclo-(S-Pro-R-Leu) from *Aspergillus flavus*, the marine endophytic fungus from brown alga, *Dictyota kunthi* (Haniffa HM, Dharmaratne HRW & Mohommad MY) **50**: 717-721 (2022)

Discharge length

Investigation of oil level and type of solid insulator on creeping discharges propagating under an AC electric field (Ediriweera S, Jayarathna PB, Samarasinghe R & Lucas R) **50**: 725-732 (2022)

Disease detection in agriculture

Interpretability and accessibility of machine learning in selected food processing, agriculture and health applications (Ranasinghe N, Ramanan A, Fernando S, Hameed PN, Herath D, Malepathirana T, Suganthan P, Niranjan M & Halgamuge S) **50**: 263-276 (2022)

Distinguished varieties

On the construction of unitaries representing minimal inner toral polynomials (Dissanayake CSB & Wijesooriya UD) **50**: 607-611 (2022)

DNA barcodes

First record of *Thottea duchartrei* Sivar., A. Babu & Balach. (Aristolochiaceae) in Sri Lanka (Tennakoon TMSG, Borosova R, Suraweera C, Herath S, De Silva T, Padumadasa C, Weerasena J, Gunaratna N, Gunasekera N, Edwards S & Wijesundara S) **50**: 441-452 (2022)

Drinking yoghurt

Development of vacuum-dried powder and drinking yoghurt from soursop fruit (*Annona muricata* L.) and evaluation of their physico-chemical and functional properties (Ranaweera NI, Pitipanaarachchi RC, Herath HMT & Chandramali DVP) **50**: 489-502 (2022)

Drug repositioning

Interpretability and accessibility of machine learning in selected food processing, agriculture and health applications (Ranasinghe N, Ramanan A, Fernando S, Hameed PN, Herath D, Malepathirana T, Suganthan P, Niranjan M & Halgamuge S) **50**: 263-276 (2022)

Ductility

Seismic performance of stiffened steel box column with different corner stiffener arrangements: a numerical approach (Thevega T, Jayasinghe JASC & Susantha KAS) **50**: 453-466 (2022)

Ecotoxicity

Vector transport of microplastics bound potentially toxic elements (PTEs) in water systems (Sewwandi M, Premarathne KSD, Wijesekara H, Rajapaksha AU, Soysa S & Vithanage M) **50**: 331-344 (2022)

Efficiency

A novel approach for energy and exergy analysis of a flat plate solar collector with energy storage (Hanif M, Khattak MK, Ul Haq I, Uddin R & Ullah K) **50**: 161-172 (2022)

Egg quality

Influence of different bone meal particle size induced calcium specific appetite on performance and egg quality parameters of layer chickens (Gamage TS, Mutucumarana RK & Andrew MS) **50**: 745-754 (2022)

Egg shell

Influence of different bone meal particle size induced calcium specific appetite on performance and egg quality parameters of layer chickens (Gamage TS, Mutucumarana RK & Andrew MS) **50**: 745-754 (2022)

Electric field

Investigation of oil level and type of solid insulator on creeping discharges propagating under an AC electric field (Ediriweera S, Jayarathna PB, Samarasinghe R & Lucas R) **50**: 725-732 (2022)

Electrodynamic motion

Investigation of oil level and type of solid insulator on creeping discharges propagating under an AC electric field (Ediriweera S, Jayarathna PB, Samarasinghe R & Lucas R) **50**: 725-732 (2022)

Energy

Fuzzy based congestion detection and control algorithm for energy efficient wireless sensor network (WSN) (Ramasamy-Rajeswari A, Ganapathy S, Kulothungan K & Kannan A) **50**: 563-576 (2022)

Energy storage

A novel approach for energy and exergy analysis of a flat plate solar collector with energy storage (Hanif M, Khattak MK, Ul Haq I, Uddin R & Ullah K) **50**: 161-172 (2022)

ENSO

Tropical cyclones in the Arabian Sea and the Bay of Bengal: comparison of environmental factors (Pathirana G & Priyadarshani K) **50**: 53-64 (2022)

Escherichia coli

Predominance of phylogenetic group B2 among commensal *Escherichia coli* in humans from Kandy District, Sri Lanka (Rangama BNLD, Abayasekara CL and Gordon DM) **50**: 137-150 (2022)

Exacum trinervium

Induction of somatic embryogenesis from leaf explants of *Exacum trinervium* (L.) Druce (Binara) (de Silva V & Eeswara JP) **50**: 27-33 (2022)

Excess fluoride

Geo-environmental assessment of geochemistry of groundwater and associated human health risks in the dry zone terrain of Sri Lanka (Chandrajith R & Diyabalanage S) **50**: 213-229 (2022)

Exergy

A novel approach for energy and exergy analysis of a flat plate solar collector with energy storage (Hanif M, Khattak MK, Ul Haq I, Uddin R & Ullah K) **50**: 161-172 (2022)

Exponential distribution

The odd modified Burr-III exponential distribution: properties, estimation and application (Rasheed H, Dar IS, M Saqib M, Abbas N & Suhail M) **50**: 425-439 (2022)

Exponential estimator

Estimation of mean considering the joint influence of measurement errors and non-response in two-phase sampling designs (Sabir S, Sanullah A & Gupta S) **50**: 13-25 (2022)

Fatty alcohol esters

Anti-inflammatory activity of nonyl 8-acetoxy-6-methyloctanoate, isolated from the cultured marine diatom, *Phaeodactylum tricoratum*: mediated via suppression of inflammatory mediators in LPS-stimulated RAW 264.7 macrophages (Samarakoon KW, Ko JY, Lee JH & YJ Jeon YJ) **50**: 685-693 (2022)

Feldspar

Nanotechnology in sustainable value addition to Sri Lankan minerals (Rajapakse RMG) **50**: 303-314 (2022)

Final discharge length

Fractal characteristics of creeping discharges propagating on nano-epoxy composite insulators immersed in coconut oil (Ediriweera S, Jayarathna PB, Samarasinghe R & Lucas R) **50**: 663-673 (2022)

Flat plate

A novel approach for energy and exergy analysis of a flat plate solar collector with energy storage (Hanif M, Khattak MK, Ul Haq I, Uddin R & Ullah K) **50**: 161-172 (2022)

Flora of Sri Lanka

First record of *Thottea duchartrei* Sivar., A. Babu & Balach. (Aristolochiaceae) in Sri Lanka (Tennakoon TMSG, Borosova R, Suraweera C, Herath S, De Silva T, Padumadasa C, Weerasena J, Gunaratna N, Gunasekera N, Edwards S & Wijesundara S) **50**: 441-452 (2022)

Fluctuation statistics

Analysis of instantaneous, daily and monthly statistics 2017-2021 of rooftop solar energy (Lucas JR) **50**: 799-811 (2022)

Food

Application of Benford's law in agricultural production statistics (Hanci F) **50**: 387-393 (2022)

Food chain

Heavy metals and food safety in Sri Lanka: A review (Samarajeewa U) **50**: 541-562 (2022)

Food processing

Interpretability and accessibility of machine learning in selected food processing, agriculture and health applications (Ranasinghe N, Ramanan A, Fernando S, Hameed PN, Herath D, Malepathirana T, Suganthan P, Niranjana M & Halgamuge S) **50**: 263-276 (2022)

Fractals

Fractal characteristics of creeping discharges propagating on nano-epoxy composite insulators immersed in coconut oil (Ediriweera S, Jayarathna PB, Samarasinghe R & Lucas R) **50**: 663-673 (2022)

Free choice

Influence of different bone meal particle size induced calcium specific appetite on performance and egg quality parameters of layer chickens (Gamage TS, Mutucumarana RK & Andrew MS) **50**: 745-754 (2022)

Functional properties

Development of vacuum-dried powder and drinking yoghurt from soursop fruit (*Annona muricata* L.) and evaluation of their physico-chemical and functional properties (Ranaweera NI, Pitipanaarachchi RC, Herath HMT & Chandramali DVP) **50**: 489-502 (2022)

Fuzzy inference system

Fuzzy based congestion detection and control algorithm for energy efficient wireless sensor network (WSN) (Ramasamy-Rajeswari A, Ganapathy S, Kulothungan K & Kannan A) **50**: 563-576 (2022)

Fuzzy logic

Implementation of a fuzzy logic approach for a smart production System (Dihovcni D, Mišević M, Kovačević NR & Kreculj D) **50**: 695-703 (2022)

GenBank

First record of *Thottea duchartrei* Sivar., A. Babu & Balach. (Aristolochiaceae) in Sri Lanka (Tennakoon TMSG, Borosova R, Suraweera C, Herath S, De Silva T, Padumadasa C, Weerasena J, Gunaratna N, Gunasekera N, Edwards S & Wijesundara S) **50**: 441-452 (2022)

Gender

Effect of PEGylated gold nanorods on the circulating vascular endothelial growth factor, platelet-derived growth factor, and miR-29a in CD-1 mice (Gamal-Eldeen AM, Raafat BM, Fahmy CA, Abo-Elfadl MT, El-Daly SM & Ali MRK) **50**: 467-475 (2022)

Genome

The road to precision cancer therapy – history and strategies (Thiagalingam S) **50**: 321-330 (2022)

Genomics

Microbiome: diversity, distribution, and potential role in sustainable crop production (Fernando WGD & Dolatabadian A) **50**: 231-250 (2022)

Gold nanorods

Effect of PEGylated gold nanorods on the circulating vascular endothelial growth factor, platelet-derived growth factor, and miR-29a in CD-1 mice (Gamal-Eldeen AM, Raafat BM, Fahmy CA, Abo-Elfadl MT, El-Daly SM & Ali MRK) **50**: 467-475 (2022)

Gramene

Meta-QTL analysis identified stable quantitative trait loci (QTLs) and associated resistance gene analogues in rice (Shashiprabha HED, Abeyundara SP & Ariyaratna HACK) **50**: 35-51 (2022)

Graphite

Synthesis of polyethylene glycol-grafted graphite and effect of its loading on properties of natural rubber composites (Sampath WDM, Fernando CAN & Edirisinghe DG) **50**: 785-798 (2022)

Graphite

Nanotechnology in sustainable value addition to Sri Lankan minerals (Rajapakse RMG) **50**: 303-314 (2022)

Groundwater pollution

Characterization of landfill leachate at the Karadiyana open dumpsite, Sri Lanka, and assessment of water pollution in its vicinity (Koliyabandara PA, Cooray AT, Liyanage S & Siriwardhana C) **50**: 111-124 (2022)

Groundwater

Screening of potential aerobic denitrifying bacteria for nitrate removal from water (Kirisan A, Gnanavelrajah N & Ratnayake RR) **50**: 639-649 (2022)

Habitat suitability

Assessment of marine turtle nesting habitats from Tangalle to the Kumbukkan Oya estuary in south-eastern Sri Lanka (Perera SJ, Perera WPN, Goonatilake S de A, Ekaratne K, Wijesinghe D, Perera LV, Chandranimal D & Ediriweera A) **50**: 755-769 (2022)

Hawking radiation

Simulation of coloured particles radiation spectra from black holes (Wijewardhana CNT & Gamalath KAILW) **50**: 863-880 (2022)

Heavy metals

Effects of dietary lead exposure on the call of Japanese quail (*Coturnix japonica*) hatchlings (Ranasinghe RPTI, Fernando TSP & Wijesinghe MR) **50**: 477-487 (2022)

Heavy metals

Vector transport of microplastics bound potentially toxic elements (PTEs) in water systems (Sewwandi M, Premarathne KSD, Wijesekara H, Rajapaksha AU, Soysa S & Vithanage M) **50**: 331-344 (2022)

Heavy-tailed errors

Implementation of adaptive lasso regression based on multiple Theil-Sen Estimators using differential evolution algorithm with heavy tailed errors (Dünder E, Zaman T, Cengiz MA & Alakus K) **50**: 395-404 (2022)

Hepatotoxicity

Effect of cylindrospermopsin on the hepatotoxicity in wistar rats (Abeyisiri HASN, Wanigasuriya JKP, Suresh TS, Beneragama DH & Manage PM) **50**: 595-605 (2022)

High solids anaerobic co-digestion

Optimization of high solids batch anaerobic co-digestion of lignocellulosic biomass and cow dung under mesophilic temperature conditions (Wickramaarachchi AL, Rathnasiri PG, Torrijos M, Renaud Escudie & Narayana M) **50**: 125-136 (2022)

Histopathology

Effect of cylindrospermopsin on the hepatotoxicity in wistar rats (Abeyisiri HASN, Wanigasuriya JKP, Suresh TS, Beneragama DH & Manage PM) **50**: 595-605 (2022)

Hyper-elastic models

Failure prediction of solid resilient tyres due to kerb impact: A finite element modelling approach (Premarathna WAAS, Jayasinghe JASC, Senanayake CD, Wijesundara KK & Gamage P) **50**: 625-637 (2022)

Hyperthyroidism

Comparison of radioactive iodine therapy outcome and the duration of pretreatment discontinuation of carbimazole among hyperthyroid patients: a prospective study (Raheem S & Nanayakkara DKK) **50**: 417-423 (2022)

Ilmenite

Nanotechnology in sustainable value addition to Sri Lankan minerals (Rajapakse RMG) **50**: 303-314 (2022)

Impact simulations

Failure prediction of solid resilient tyres due to kerb impact: A finite element modelling approach (Premarathna WAAS, Jayasinghe JASC, Senanayake CD, Wijesundara KK & Gamage P) **50**: 625-637 (2022)

Industrial computer systems

Implementation of a fuzzy logic approach for a smart production System (Dihovicni D, Mišćević M, Kovačević NR & Kreculj D) **50**: 695-703 (2022)

Industry 4.0.

Implementation of a fuzzy logic approach for a smart production System (Dihovicni D, Mišćević M, Kovačević NR & Kreculj D) **50**: 695-703 (2022)

Inflammation

Sonication-assisted water extract of *Dendronephthya gigantea* exhibits anti-fine dust effects; attenuation of MAPK phosphorylation in macrophages (Jayawardena TU, Fernando IPS, Nagahawatta DP, Wang L, Yang HW, Oh JY, Sanjeeva KKA & Jeon Y) **50**: 151-160 (2022)

Inhalation therapy

Novel nebulizer design with adaptive flow regulation (Dampage U & Ariyasinghe M) **50**: 101-109 (2022) Jet nebulizer Novel nebulizer design with adaptive flow regulation (Dampage U & Ariyasinghe M) **50**: 101-109 (2022)

Inland fisheries enhancement

New paradigm for inland fisheries development in Sri Lanka: a transdisciplinary approach for addressing food and nutritional security (Amarasinghe US, Pushpalatha KBC & Wijenayake WMHK) **50**: 177-194 (2022)

Inner toral polynomials

On the construction of unitaries representing minimal inner toral polynomials (Dissanayake CSB & Wijesooriya UD) **50**: 607-611 (2022)

Innovative signal phasing

Increasing the effectiveness of T-junctions with an innovative geometrical and phasing arrangement (Jayasooriya NK, Perera HLK and Bandara JMSJ) **50**: 73-86 (2022)

Insect growth regulators

Mosquito control: A review on the past, present and future strategies (Karunaratne SHPP & Surendran SN) **50**: 277-292 (2022)

Insecticides

Mosquito control: A review on the past, present and future strategies (Karunaratne SHPP & Surendran SN) **50**: 277-292 (2022)

Interpretation of neural networks

Interpretability and accessibility of machine learning in selected food processing, agriculture and health applications (Ranasinghe N, Ramanan A, Fernando S, Hameed PN, Herath D, Malepathirana T, Suganthan P, Niranjan M & Halgamuge S) **50**: 263-276 (2022)

Intra ocular pressure

High prevalence of glaucoma-associated CYP1B1 mutation (p.G61E) in primary congenital and open angle glaucoma patients in Pakistan (Yousaf K, Bashir R, Balqees K, Naz S, Munir N & Aslam F) **50**: 589-594 (2022)

Inulin

Physicochemical and sensory attributes of inulin incorporated set yoghurt prepared using cow and buffalo milk (Gnanarathna KADC, Jayasumama MTLK, Weragama KWDP, Gunasekara DCS, Weerasingha WVVR, Chandrasekara A & Prasanna PHP) **50**: 651-661 (2022)

IOD

Tropical cyclones in the Arabian Sea and the Bay of Bengal: comparison of environmental factors (Pathirana G & Priyadarshani K) **50**: 53-64 (2022)

Island-mass effect

Ocean circulation around Sri Lanka (Pattiaratchi CB, Wijeratne EMS & de Vos A) **50**: 293-302 (2022)

Isolates

Screening of potential aerobic denitrifying bacteria for nitrate removal from water (Kirisan A, Gnanavelrajah N & Ratnayake RR) **50**: 639-649 (2022)

Junction capacity improvement

Increasing the effectiveness of T-junctions with an innovative geometrical and phasing arrangement (Jayasooriya NK, Perera HLK and Bandara JMSJ) **50**: 73-86 (2022)

Juvenile open angle glaucoma

High prevalence of glaucoma-associated CYP1B1 mutation (p.G61E) in primary congenital and open angle glaucoma patients in Pakistan (Yousaf K, Bashir R, Balqees K, Naz S, Munir N & Aslam F) **50**: 589-594 (2022)

Kalpitiya

Assessment of wave climate change and its impact on littoral drift along the Kalutara and Kalpitiya beaches in Sri Lanka (Samarasekara RSM, Sahthy MM, Siriwardana AHMS & Siriwardana HPAM) **50**: 813-826 (2022)

Kalutara

Assessment of wave climate change and its impact on littoral drift along the Kalutara and Kalpitiya beaches in Sri Lanka (Samarasekara RSM, Sahthy MM, Siriwardana AHMS & Siriwardana HPAM) **50**: 813-826 (2022)

Karadiyana open dumpsite

Characterization of landfill leachate at the Karadiyana open dumpsite, Sri Lanka, and assessment of water pollution in its vicinity (Koliyabandara PA, Cooray AT, Liyanage S & Siriwardhana C) **50**: 111-124 (2022)

K-means segmentation

Non invasive automated approach for eczema lesions segmentation using colour space normalization (Nisar H, Ch'ng Y-K & Yeap KH) **50**: 705-716 (2022)

Lactobacillus

Physicochemical and sensory attributes of inulin incorporated set yoghurt prepared using cow and buffalo milk (Gnanarathna KADC, Jayasumama MTLK, Weragama KWDP, Gunasekara DCS, Weerasingha WVVR, Chandrasekara A & Prasanna PHP) **50**: 651-661 (2022)

Landfill leachate

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Latent transforming growth factor-beta protein 2

High prevalence of glaucoma-associated CYP1B1 mutation (p.G61E) in primary congenital and open angle glaucoma patients in Pakistan (Yousaf K, Bashir R, Balqees K, Naz S, Munir N & Aslam F) **50**: 589-594 (2022)

Layered soil

Stability analysis of a partially saturated layered soil formation associated with shallow landslides (Walpita SC, Ratnaweera P & Fernando GWA) **50**: 405-415 (2022)

Leachate pollution index

Characterization of landfill leachate at the Karadiyana open dumpsite, Sri Lanka, and assessment of water pollution in its vicinity (Koliyabandara PA, Cooray AT, Liyanage S & Siriwardhana C) **50**: 111-124 (2022)

Leachate recirculation

Optimization of high solids batch anaerobic co-digestion of lignocellulosic biomass and cow dung under mesophilic temperature conditions (Wickramaarachchi AL, Rathnasiri PG, Torrijos M, Renaud Escudie & Narayana M) **50**: 125-136 (2022)

Lead

Heavy metals and food safety in Sri Lanka: A review (Samarajeewa U) **50**: 541-562 (2022)

Lignocellulosic biomass

Optimization of high solids batch anaerobic co-digestion of lignocellulosic biomass and cow dung under mesophilic temperature conditions (Wickramaarachchi AL, Rathnasiri PG, Torrijos M, Renaud Escudie & Narayana M) **50**: 125-136 (2022)

Littoral drift

Assessment of wave climate change and its impact on littoral drift along the Kalutara and Kalpitiya beaches in Sri Lanka (Samarasekara RSM, Sathya MM, Siriwardana AHMS & Siriwardana HPAM) **50**: 813-826 (2022)

Mackinawite

Developing a model to predict the propagation of sulphide stress corrosion of steel used for petroleum pipelines (Manimendra A, De Silva I & Jayasundara R) **50**: 839-850 (2022)

Macrophages MAPK

Sonication-assisted water extract of *Dendronephthya gigantea* exhibits anti-fine dust effects; attenuation of MAPK phosphorylation in macrophages (Jayawardena TU, Fernando IPS, Nagahawatta DP, Wang L, Yang HW, Oh JY, Sanjeeva KKA & Jeon Y) **50**: 151-160 (2022)

Mandibular canal

Determination of safe zone of the mandible for implant and bone harvesting (using CBCT) of mandible in a group of Sri Lankan subjects (Dharmapala RMAU, Satharasinghe DM, Silva SPI & Jeyasugiththan J) **50**: 65-72 (2022)

Marine endophytes

Bioactive cyclo-(*S*-Pro-*R*-Leu) from *Aspergillus flavus*, the marine endophytic fungus from brown alga, *Dictyota kunthii* (Haniffa HM, Dharmaratne HRW & Mohommed MY) **50**: 717-721 (2022)

Marine turtles

Assessment of marine turtle nesting habitats from Tangalle to the Kumbukkan Oya estuary in south-eastern Sri Lanka (Perera SJ, Perera WPN, Goonatilake S de A, Ekaratne K, Wijesinghe D, Perera LV, Chandranimal D & Ediriweera A) **50**: 755-769 (2022)

MaxEnt

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Maximum likelihood estimation

The odd modified Burr-III exponential distribution: properties, estimation and application (Rasheed H, Dar IS, M Saqib M, Abbas N & Suhail M) **50**: 425-439 (2022)

Maximum likelihood estimation

A new multivariate transmuted family of distributions: theory and application for modelling of daily world COVID-19 cases (Darwish JA, Al-Turk LI & Shahbaz MQ) **50**: 771-784 (2022)

Mean square error

Estimation of mean considering the joint influence of measurement errors and non-response in two-phase sampling designs (Sabir S, Sanullah A & Gupta S) **50**: 13-25 (2022)

Measurement error

Estimation of mean considering the joint influence of measurement errors and non-response in two-phase sampling designs (Sabir S, Sanullah A & Gupta S) **50**: 13-25 (2022)

Medical geology

Geo-environmental assessment of geochemistry of groundwater and associated human health risks in the dry zone terrain of Sri Lanka (Chandrajith R & Diyabalanage S) **50**: 213-229 (2022)

Mental foramen

Determination of safe zone of the mandible for implant and bone harvesting (using CBCT) of mandible in a group of Sri Lankan subjects (Dharmapala RMAU, Satharasinghe DM, Silva SPI & Jeyasugiththan J) **50**: 65-72 (2022)

Mercury

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Mesophilic

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Metagenomics

Interpretability and accessibility of machine learning in selected food processing, agriculture and health applications (Ranasinghe N, Ramanan A, Fernando S, Hameed PN, Herath D, Malepathirana T, Suganthan P, Niranjana M & Halgamuge S) **50**: 263-276 (2022)

Metal pollution index

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Meta-QTLs

Meta-QTL analysis identified stable quantitative trait loci (QTLs) and associated resistance gene analogues in rice (Shashiprabha HED, Abeyundara SP & Ariyaratna HACK) **50**: 35-51 (2022)

Microbiome

Microbiome: diversity, distribution, and potential role in sustainable crop production (Fernando WGD & Dolatabadian A) **50**: 231-250 (2022)
Pathogen Microbiome: diversity, distribution, and potential role in sustainable crop production (Fernando WGD & Dolatabadian A) **50**: 231-250 (2022)

Microplastics

Vector transport of microplastics bound potentially toxic elements (PTEs) in water systems (Sewwandi M, Premarathne KSD, Wijesekara H, Rajapaksha AU, Soysa S & Vithanage M) **50**: 331-344 (2022)

MiR-29a-3p

Effect of PEGylated gold nanorods on the circulating vascular endothelial growth factor, platelet-derived growth factor, and miR-29a in CD-1 mice (Gamal-Eldeen AM, Raafat BM, Fahmy CA, Abo-Elfadl MT, El-Daly SM & Ali MRK) **50**: 467-475 (2022)

Modified Burr-III distribution

The odd modified Burr-III exponential distribution: properties, estimation and application (Rasheed H, Dar IS, M Saqib M, Abbas N & Suhail M) **50**: 425-439 (2022)

Molecular logic-based computation

Molecular logic-based computation and fluorescent sensors: The story so far (Yao CY & de Silva AP) **50**: 195-211 (2022)
Photoinduced electron transfer Molecular logic-based computation and fluorescent sensors: The story so far (Yao CY & de Silva AP) **50**: 195-211 (2022)

Monsoon

Ocean circulation around Sri Lanka (Pattiaratchi CB, Wijeratne EMS & de Vos A) **50**: 293-302 (2022)

Mosquito control

Mosquito control: A review on the past, present and future strategies (Karunaratne SHPP & Surendran SN) **50**: 277-292 (2022)

Mosquito-borne diseases

Mosquito control: A review on the past, present and future strategies (Karunaratne SHPP & Surendran SN) **50**: 277-292 (2022)

M-polynomial

M-polynomial and topological indices for the anti-tuberculosis drugs (Jude TP, Elango P & Koneswaran M) **50**: 827-838 (2022)

Multi-modular molecular network (MMM)

The road to precision cancer therapy – history and strategies (Thiagalingam S) **50**: 321-330 (2022)

Multivariate T-X family of distributions

A new multivariate transmuted family of distributions: theory and application for modelling of daily world COVID-19 cases (Darwish JA, Al-Turk LI & Shahbaz MQ) **50**: 771-784 (2022)

Nanotechnology

Fractal characteristics of creeping discharges propagating on nano-epoxy composite insulators immersed in coconut oil (Ediriweera S, Jayarathna PB, Samarasinghe R & Lucas R) **50**: 663-673 (2022)

Natural resources

Nanotechnology in sustainable value addition to Sri Lankan minerals (Rajapakse RMG) **50**: 303-314 (2022)

Natural rubber composites

Synthesis of polyethylene glycol-grafted graphite and effect of its loading on properties of natural rubber composites (Sampath WDM, Fernando CAN & Edirisinghe DG) **50**: 785-798 (2022)

Nesting habitats

Assessment of marine turtle nesting habitats from Tangalle to the Kumbukkan Oya estuary in south-eastern Sri Lanka (Perera SJ, Perera WPN, Goonatilake S de A, Ekaratne K, Wijesinghe D, Perera LV, Chandranimal D & Ediriweera A) **50**: 755-769 (2022)

Network lifetime

Fuzzy based congestion detection and control algorithm for energy efficient wireless sensor network (WSN) (Ramasamy-Rajeswari A, Ganapathy S, Kulothungan K & Kannan A) **50**: 563-576 (2022)

Neural networks

Development of wind energy prediction models using statistical, machine learning and hybrid techniques: a case study (Ekanayake P, Panahatipola O & Jayasinghe J) **50**: 503-517 (2022)

Nitrate

Screening of potential aerobic denitrifying bacteria for nitrate removal from water (Kirisan A, Gnanavelrajah N & Ratnayake RR) **50**: 639-649 (2022)

Nodal segments

Micropropagation of *Stevia rebaudiana* (Bertoni) Bertoni using nutrient water of *Cocos nucifera* var. *aurantiaca* (King coconut) as a natural growth enhancer (Karunarathna HGMK, Medagama K, Wijesundara S & Iqbal MCM) **50**: 3-12 (2022)

Non linear finite element model

Failure prediction of solid resilient tyres due to kerb impact: A finite element modelling approach (Premarathna WAAS, Jayasinghe JASC, Senanayake CD, Wijesundara KK & Gamage P) **50**: 625-637 (2022)

Non-destructive test

Combined use of non-destructive tests, visual inspection and service life prediction to ensure the reliability of reinforced concrete water tanks (Ranasinghe K & De Silva S) **50**: 371-386 (2022)

Non-linear finite element analysis

Seismic performance of stiffened steel box column with different corner stiffener arrangements: a numerical approach (Thevega T, Jayasinghe JASC & Susantha KAS) **50**: 453-466 (2022)

North Indian Ocean

Forecasting the track and the intensity of the cyclone Burevi using WRF (Gamage TD, Sonnadara U, Jayasinghe S & Basnayake S) **50**: 675-684 (2022)

Numerical solutions

Stability analysis of a partially saturated layered soil formation associated with shallow landslides (Walpita SC, Ratnaweera P & Fernando GVAR) **50**: 405-415 (2022)

Nutrition

Application of Benford's law in agricultural production statistics (Hanci F) **50**: 387-393 (2022)

Oil Height

Investigation of oil level and type of solid insulator on creeping discharges propagating under an AC electric field (Ediriweera S, Jayarathna PB, Samarasinghe R & Lucas R) **50**: 725-732 (2022)

Oncogenes

The road to precision cancer therapy – history and strategies (Thiagalingam S) **50**: 321-330 (2022)

Open-source technologies

Evaluating the potential of an open sensor network to support reservoir pre-release decision making (Warusavitharana E, Mahanama PKS, Cannata M, Ratnayake R, Sudantha BH & Strigaro D) **50**: 577-587 (2022)

Order statistics

The odd modified Burr-III exponential distribution: properties, estimation and application (Rasheed H, Dar IS, M Saqib M, Abbas N & Suhail M) **50: 425-439 (2022)**

Organic

Rice production in nutrient-limited soils: Strategies for improving crop productivity and land sustainability (Suriyagoda LBD) **50: 521-539 (2022)**

Partially saturated soil

Stability analysis of a partially saturated layered soil formation associated with shallow landslides (Walpita SC, Ratnaweera P & Fernando GWARD) **50: 405-415 (2022)**

Particle size

Influence of different bone meal particle size induced calcium specific appetite on performance and egg quality parameters of layer chickens (Gamage TS, Mutucumarana RK & Andrew MS) **50: 745-754 (2022)**

Partition coefficient

Vector transport of microplastics bound potentially toxic elements (PTEs) in water systems (Sewwandi M, Premarathne KSD, Wijesekara H, Rajapaksha AU, Soysa S & Vithanage M) **50: 331-344 (2022)**

PCR

Predominance of phylogenetic group B2 among commensal *Escherichia coli* in humans from Kandy District, Sri Lanka (Rangama BNLD, Abayasekara CL and Gordon DM) **50: 137-150 (2022)**

Peelability

Vegetative and reproductive phenology of *Cinnamomum verum* J. Presl grown in intermediate climatic zone of Sri Lanka (Hansika KAS, Kodikara KAS, Wijeweera AA, Senanayake G & Jayatissa LP) **50: 87-99 (2022)**

Penicillin

Screening and quantitative analysis of antibiotic resistance genes in hospital and aquaculture effluent in Sri Lanka as an emerging environmental contaminant (Liyanage GY, Weerasekera MM & Manage PM) **50: 361-370 (2022)**

Phaeodactylum tricornutum

Anti-inflammatory activity of nonyl 8-acetoxy-6-methyloctanoate, isolated from the cultured marine diatom, *Phaeodactylum tricornutum*: mediated via suppression of inflammatory mediators in LPS-stimulated RAW 264.7 macrophages (Samarakoon KW, Ko JY, Lee JH & YJ Jeon YJ) **50: 685-693 (2022)**

Phenology

Vegetative and reproductive phenology of *Cinnamomum verum* J. Presl grown in intermediate climatic zone of Sri Lanka (Hansika KAS, Kodikara KAS, Wijeweera AA, Senanayake G & Jayatissa LP) **50: 87-99 (2022)**

Photovoltaic systems

Analysis of instantaneous, daily and monthly statistics 2017-2021 of rooftop solar energy (Lucas JR) **50: 799-811 (2022)**

Phylogenetic groups

Predominance of phylogenetic group B2 among commensal *Escherichia coli* in humans from Kandy District, Sri Lanka (Rangama BNLD, Abayasekara CL and Gordon DM) **50: 137-150 (2022)**

Pollution

Effects of dietary lead exposure on the call of Japanese quail (*Coturnix japonica*) hatchlings (Ranasinghe RPTI, Fernando TSP & Wijesinghe MR) **50: 477-487 (2022)**

Polyethylene glycol

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Polyethylene glycol-grafted graphite

Synthesis of polyethylene glycol-grafted graphite and effect of its loading on properties of natural rubber composites (Sampath WDM, Fernando CAN & Edirisinghe DG) **50: 785-798 (2022)**

Polyhydroxyalkanoates (PHAs)

Poly- β -hydroxybutyrate (PHB) production potential of naturally existing cyanobacterial blooms (Wijerathne RS, Manage PM, & Idroos FS) **50: 733-743 (2022)**

Poly- β -hydroxybutyrate (PHB)

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Precision cancer therapy

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Pressure head

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PRGdb

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Primary congenital glaucoma

High prevalence of glaucoma-associated CYP1B1 mutation (p.G61E) in primary congenital and open angle glaucoma patients in Pakistan (Yousaf K, Bashir R, Balqees K, Naz S, Munir N & Aslam F) **50**: 589-594 (2022)

Probabilistic modelling

A coupled system of stochastic differential equations for probabilistic wind speed modelling (Bandarathilake HMDP, Palamakumbura GWRMR & Maithripala DHS) **50**: 613-623 (2022)

Probiotic

Physicochemical and sensory attributes of inulin incorporated set yoghurt prepared using cow and buffalo milk (Gnanarathna KADC, Jayasumama MTLK, Weragama KWDP, Gunasekara DCS, Weerasingha WVVR, Chandrasekara A & Prasanna PHP) **50**: 651-661 (2022)

Production

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Productivity

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Proportional integral derivative controller

Novel nebulizer design with adaptive flow regulation (Dampage U & Ariyasinghe M) **50**: 101-109 (2022)

Pseudomonas aeruginosa

An approach to develop bioremediation by isolation and characterization of microorganisms from soil contaminated with used lubricating oil (Wijesooriya MM, Masakorala K, Widana Gamage SMK & Walakulu Gamage SS) **50**: 347-360 (2022)

Quartz

Nanotechnology in sustainable value addition to Sri Lankan minerals (Rajapakse RMG) **50**: 303-314 (2022)

Radioactive iodine

Comparison of radioactive iodine therapy outcome and the duration of pretreatment discontinuation of carbimazole among hyperthyroid patients: a prospective study (Raheem S & Nanayakkara DKK) **50**: 417-423 (2022)

Randić index

M-polynomial and topological indices for the anti-tuberculosis drugs (Jude TP, Elango P & Koneswaran M) **50**: 827-838 (2022)

Ratio estimator

Estimation of mean considering the joint influence of measurement errors and non-response in two-phase sampling designs (Sabir S, Sanullah A & Gupta S) **50**: 13-25 (2022)

RAW 264.7 cells

Anti-inflammatory activity of nonyl 8-acetoxy-6-methyloctanoate, isolated from the cultured marine diatom, *Phaeodactylum tricorutum*: mediated via suppression of inflammatory mediators in LPS-stimulated RAW 264.7 macrophages (Samarakoon KW, Ko JY, Lee JH & YJ Jeon YJ) **50**: 685-693 (2022)

Regression analysis

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Reservoir pre-release

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Resistance genes

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Rice Genome Annotation Project

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Rooftop solar

Analysis of instantaneous, daily and monthly statistics 2017-2021 of rooftop solar energy (Lucas JR) **50**: 799-811 (2022)

Rooting

Micropropagation of *Stevia rebaudiana* (Bertoni) Bertoni using nutrient water of *Cocos nucifera* var. *aurantiaca* (King coconut) as a natural growth enhancer (Karunarathna HGMK, Medagama K, Wijesundara S & Iqbal MCM) **50**: 3-12 (2022)

Rosby waves

Anomalous propagation pathway of the Sri Lanka Dome in summer 2014 (Pathirana G, Chen G, Wang D, Abeyratne MK & Priyadarshana T) **50**: 851-861 (2022)

Routes of administration

Effect of PEGylated gold nanorods on the circulating vascular endothelial growth factor, platelet-derived growth factor, and miR-29a in CD-1 mice (Gamal-Eldeen AM, Raafat BM, Fahmy CA, Abo-Elfadl MT, El-Daly SM & Ali MRK) **50**: 467-475 (2022)

RT-qPCR

Sonication-assisted water extract of *Dendronephthya gigantea* exhibits anti-fine dust effects; attenuation of MAPK phosphorylation in macrophages (Jayawardena TU, Fernando IPS, Nagahawatta DP, Wang L, Yang HW, Oh JY, Sanjeeva KKA & Jeon Y) **50**: 151-160 (2022)

Selection modes

Non invasive automated approach for eczema lesions pigmentation using colour space normalization (Nisar H, Ch'ng Y-K & Yeap KH) **50**: 705-716 (2022)

Service life prediction

Combined use of non-destructive tests, visual inspection and service life prediction to ensure the reliability of reinforced concrete water tanks (Ranasinghe K & De Silva S) **50**: 371-386 (2022)

Shallow landslides

Stability analysis of a partially saturated layered soil formation associated with shallow landslides (Walpita SC, Ratnaweera P & Fernando GWR) **50**: 405-415 (2022)

Shooting

Micropropagation of *Stevia rebaudiana* (Bertoni) Bertoni using nutrient water of *Cocos nucifera* var. *aurantiaca* (King coconut) as a natural growth enhancer (Karunarathna HGMK, Medagama K, Wijesundara S & Iqbal MCM) **50**: 3-12 (2022)

Skin lesions

Non invasive automated approach for eczema lesions pigmentation using colour space normalization (Nisar H, Ch'ng Y-K & Yeap KH) **50**: 705-716 (2022)

Smoothing techniques

A coupled system of stochastic differential equations for probabilistic wind speed modelling (Bandarathilake HMDP, Palamakumbura GWRMR & Maithripala DHS) **50**: 613-623 (2022)

Socio-economic impacts

Artificial intelligence framework for threat assessment and containment for covid-19 and future epidemics while mitigating the socioeconomic impact to women, children, and underprivileged groups (Ilangarathna G, Weligampola H, Ranasinghe Y, Attygalla E, Godaliyaddha R, Herath V, Ekanayake P, Ekanayake SY, Pinnawela M, Dharmaratne S, Tilakaratne G & Ekanayake J) **50**: 251-262 (2022)

Socioeconomics

New paradigm for inland fisheries development in Sri Lanka: a transdisciplinary approach for addressing food and nutritional security (Amarasinghe US, Pushpalatha KBC & Wijenayake WMHK) **50**: 177-194 (2022)

Soil fertility

Rice production in nutrient-limited soils: Strategies for improving crop productivity and land sustainability (Suriyagoda LBD) **50**: 521-539 (2022)

Solar collector

A novel approach for energy and exergy analysis of a flat plate solar collector with energy storage (Hanif M, Khattak MK, Ul Haq I, Uddin R & Ullah K) **50**: 161-172 (2022)

Solar energy

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Solar intermittency

Analysis of instantaneous, daily and monthly statistics 2017-2021 of rooftop solar energy (Lucas JR) **50**: 799-811 (2022)

Solar power generation

Analysis of instantaneous, daily and monthly statistics 2017-2021 of rooftop solar energy (Lucas JR) **50**: 799-811 (2022)

Solid resilient tyres

Failure prediction of solid resilient tyres due to kerb impact: A finite element modelling approach (Premarathna WAAS, Jayasinghe JASC, Senanayake CD, Wijesundara KK & Gamage P) **50**: 625-637 (2022)

Somatic embryogenesis

Induction of somatic embryogenesis from leaf explants of *Exacum trinervium* (L.) Druce (Binara) (de Silva V & Eeswara JP) **50**: 27-33 (2022)

Soursop fruit

Development of vacuum-dried powder and drinking yoghurt from soursop fruit (*Annona muricata* L.) and evaluation of their physico-chemical and functional properties (Ranaweera NI, Pitipanaarachchi RC, Herath HMT & Chandramali DVP) **50**: 489-502 (2022)

Southern Sri Lanka

Assessment of marine turtle nesting habitats from Tangalle to the Kumbukkan Oya estuary in south-eastern Sri Lanka (Perera SJ, Perera WPN, Goonatilake S de A, Ekaratne K, Wijesinghe D, Perera LV, Chandranimal D & Ediriweera A) **50**: 755-769 (2022)

Species-specific

An approach to develop bioremediation by isolation and characterization of microorganisms from soil contaminated with used lubricating oil (Wijesooriya MM, Masakorala K, Widana Gamage SMK & Walakulu Gamage SS) **50**: 347-360 (2022)

Sri Lanka

Ocean circulation around Sri Lanka (Pattiaratchi CB, Wijeratne EMS & de Vos A) **50**: 293-302 (2022)

Sri Lanka Dome

Anomalous propagation pathway of the Sri Lanka Dome in summer 2014 (Pathirana G, Chen G, Wang D, Abeyratne MK & Priyadarshana T) **50**: 851-861 (2022)

ST

Predominance of phylogenetic group B2 among commensal *Escherichia coli* in humans from Kandy District, Sri Lanka (Rangama BNL, Abayasekara CL and Gordon DM) **50**: 137-150 (2022)

Statistics

Application of Benford's law in agricultural production statistics (Hanci F) **50**: 387-393 (2022)

Steel column

Seismic performance of stiffened steel box column with different corner stiffener arrangements: a numerical approach (Thevega T, Jayasinghe JASC & Susantha KAS) **50**: 453-466 (2022)

Stevia rebaudiana

Micropropagation of *Stevia rebaudiana* (Bertoni) Bertoni using nutrient water of *Cocos nucifera* var. *aurantiaca* (King coconut) as a natural growth enhancer (Karunarathna HGMK, Medagama K, Wijesundara S & Iqbal MCM) **50**: 3-12 (2022)

Stiffener arrangements

Seismic performance of stiffened steel box column with different corner stiffener arrangements: a numerical approach (Thevega T, Jayasinghe JASC & Susantha KAS) **50**: 453-466 (2022)

Stochastic differential equation

A coupled system of stochastic differential equations for probabilistic wind speed modelling (Bandarathilake HMDP, Palamakumbura GWRMR & Maithripala DHS) **50**: 613-623 (2022)

Strength

Seismic performance of stiffened steel box column with different corner stiffener arrangements: a numerical approach (Thevega T, Jayasinghe JASC & Susantha KAS) **50**: 453-466 (2022)

Sulphide stress corrosion

Developing a model to predict the propagation of sulphide stress corrosion of steel used for petroleum pipelines (Manimendra A, De Silva I & Jayasundara R) **50**: 839-850 (2022)

Sulphur

Developing a model to predict the propagation of sulphide stress corrosion of steel used for petroleum pipelines (Manimendra A, De Silva I & Jayasundara R) **50**: 839-850 (2022)

Summer monsoon current

Anomalous propagation pathway of the Sri Lanka Dome in summer 2014 (Pathirana G, Chen G, Wang D, Abeyratne MK & Priyadarshana T) **50**: 851-861 (2022)

Surface circulation

Ocean circulation around Sri Lanka (Pattiaratchi CB, Wijeratne EMS & de Vos A) **50**: 293-302 (2022)

Sustainability

Rice production in nutrient-limited soils: Strategies for improving crop productivity and land sustainability (Suriyagoda LBD) **50**: 521-539 (2022)

Sustainable agriculture

Microbiome: diversity, distribution, and potential role in sustainable crop production (Fernando WGD & Dolatabadian A) **50**: 231-250 (2022)

Targeted cancer therapy

The road to precision cancer therapy – history and strategies (Thiagalingam S) **50**: 321-330 (2022)

Tet A

Screening and quantitative analysis of antibiotic resistance genes in hospital and aquaculture effluent in Sri Lanka as an emerging environmental contaminant (Liyanage GY, Weerasekera MM & Manage PM) **50**: 361-370 (2022)

Tet M

Screening and quantitative analysis of antibiotic resistance genes in hospital and aquaculture effluent in Sri Lanka as an emerging environmental contaminant (Liyanage GY, Weerasekera MM & Manage PM) **50**: 361-370 (2022)

Tetracycline

Screening and quantitative analysis of antibiotic resistance genes in hospital and aquaculture effluent in Sri Lanka as an emerging environmental contaminant (Liyanage GY, Weerasekera MM & Manage PM) **50**: 361-370 (2022)

Theil-Sen estimators

Implementation of adaptive lasso regression based on multiple Theil-Sen Estimators using differential evolution algorithm with heavy tailed errors (Dünder E, Zaman T, Cengiz MA & Alakus K) **50**: 395-404 (2022)

Thottea

First record of *Thottea duchartrei* Sivar., A. Babu & Balach. (Aristolochiaceae) in Sri Lanka (Tennakoon TMSG, Borosova R, Suraweera C, Herath S, De Silva T, Padumadasa C, Weerasena J, Gunaratna N, Gunasekera N, Edwards S & Wijesundara S) **50**: 441-452 (2022)

Time series analysis

Development of wind energy prediction models using statistical, machine learning and hybrid techniques: a case study (Ekanayake P, Panahatipola O & Jayasinghe J) **50**: 503-517 (2022)

Tomography

Determination of safe zone of the mandible for implant and bone harvesting (using CBCT) of mandible in a group of Sri Lankan subjects (Dharmapala RMAU, Satharasinghe DM, Silva SPI & Jeyasinghthan J) **50**: 65-72 (2022)

Topological indices

M-polynomial and topological indices for the anti-tuberculosis drugs (Jude TP, Elango P & Koneswaran M) **50**: 827-838 (2022)

Total microbial activity

An approach to develop bioremediation by isolation and characterization of microorganisms from soil contaminated with used lubricating oil (Wijesooriya MM, Masakorala K, Widana Gamage SMK & Walakulu Gamage SS) **50**: 347-360 (2022)

Toxicity

Effects of dietary lead exposure on the call of Japanese quail (*Coturnix japonica*) hatchlings (Ranasinghe RPTI, Fernando TSP & Wijesinghe MR) **50**: 477-487 (2022)

Track forecast

Forecasting the track and the intensity of the cyclone Burevi using WRF (Gamage TD, Sonnadara U, Jayasinghe S & Basnayake S) **50**: 675-684 (2022)

Traffic management

Increasing the effectiveness of T-junctions with an innovative geometrical and phasing arrangement (Jayasooriya NK, Perera HLK and Bandara JMSJ) **50**: 73-86 (2022)

Traffic signal design

Increasing the effectiveness of T-junctions with an innovative geometrical and phasing arrangement (Jayasooriya NK, Perera HLK and Bandara JMSJ) **50**: 73-86 (2022)

Transgenic mosquitoes

Mosquito control: A review on the past, present and future strategies (Karunaratne SHPP & Surendran SN) **50**: 277-292 (2022)

Transmuted distributions

A new multivariate transmuted family of distributions: theory and application for modelling of daily world COVID-19 cases (Darwish JA, Al-Turk LI & Shahbaz MQ) **50**: 771-784 (2022)

Treatments

Screening of potential aerobic denitrifying bacteria for nitrate removal from water (Kirisan A, Gnanavelrajah N & Ratnayake RR) **50**: 639-649 (2022)

Tropical cyclone

Forecasting the track and the intensity of the cyclone Burevi using WRF (Gamage TD, Sonnadara U, Jayasinghe S & Basnayake S) **50**: 675-684 (2022)

Tropical cyclones

Tropical cyclones in the Arabian Sea and the Bay of Bengal: comparison of environmental factors (Pathirana G & Priyadarshani K) **50**: 53-64 (2022)

Tropical reservoirs

New paradigm for inland fisheries development in Sri Lanka: a transdisciplinary approach for addressing food and nutritional security (Amarasinghe US, Pushpalatha KBC & Wijenayake WMHK) **50**: 177-194 (2022)

Tuberculosis

M-polynomial and topological indices for the anti-tuberculosis drugs (Jude TP, Elango P & Koneswaran M) **50**: 827-838 (2022)

Tumour suppressor genes

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Turtle nesting hotspots

Assessment of marine turtle nesting habitats from Tangalle to the Kumbukkan Oya estuary in south-eastern Sri Lanka (Perera SJ, Perera WPN, Goonatilake S de A, Ekaratne K, Wijesinghe D, Perera LV, Chandranimal D & Ediriweera A) **50**: 755-769 (2022)

UI/UX designing

Designing a closed-loop information flow model in bridging the market information gap among agriculture stakeholders in Sri Lanka (Mallikaarachchi TB, Samaraweera G, Walisadeera A, De Silva L & Munasinghe S) **50**: 881-896 (2022)

Unitary matrices

On the construction of unitaries representing minimal inner toral polynomials (Dissanayake CSB & Wijesooriya UD) **50**: 607-611 (2022)

Upwelling

Ocean circulation around Sri Lanka (Pattiaratchi CB, Wijeratne EMS & de Vos A) **50**: 293-302 (2022)

Used lubricating oil

An approach to develop bioremediation by isolation and characterization of microorganisms from soil contaminated with used lubricating oil (Wijesooriya MM, Masakorala K, Widana Gamage SMK & Walakulu Gamage SS) **50**: 347-360 (2022)

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VEGF and PDGF

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VISSIM

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Visual inspections

Combined use of non-destructive tests, visual inspection and service life prediction to ensure the reliability of reinforced concrete water tanks (Ranasinghe K & De Silva S) **50**: 371-386 (2022)

Water hardness

Geo-environmental assessment of geochemistry of groundwater and associated human health risks in the dry zone terrain of Sri Lanka (Chandrajith R & Diyabalanage S) **50**: 213-229 (2022)

Wave climate

Assessment of wave climate change and its impact on littoral drift along the Kalutara and Kalpitiya beaches in Sri Lanka (Samarasekara RSM, Sahthy MM, Siriwardana AHMS & Siriwardana HPAM) **50**: 813-826 (2022)

Weibull distribution

A new multivariate transmuted family of distributions: theory and application for modelling of daily world COVID-19 cases (Darwish JA, Al-Turk LI & Shahbaz MQ) **50**: 771-784 (2022)

Weight vector selection

Implementation of adaptive lasso regression based on multiple Theil-Sen Estimators using differential evolution algorithm with heavy tailed errors (Dünder E, Zaman T, Cengiz MA & Alakus K) **50**: 395-404 (2022)

Western boundary currents

Anomalous propagation pathway of the Sri Lanka Dome in summer 2014 (Pathirana G, Chen G, Wang D, Abeyratne MK & Priyadarshana T) **50**: 851-861 (2022)

White noise

A coupled system of stochastic differential equations for probabilistic wind speed modelling (Bandarathilake HMDP, Palamakumbura GWRMR & Maithripala DHS) **50**: 613-623 (2022)

Wind energy

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Wind-stress

Anomalous propagation pathway of the Sri Lanka Dome in summer 2014 (Pathirana G, Chen G, Wang D, Abeyratne MK & Priyadarshana T) **50**: 851-861 (2022)

Wistar rats

Effect of cylindrospermopsin on the hepatotoxicity in wistar rats (Abeyisiri HASN, Wanigasuriya JKP, Suresh TS, Beneragama DH & Manage PM) **50**: 595-605 (2022)

WRF-ARW

Forecasting the track and the intensity of the cyclone Burevi using WRF (Gamage TD, Sonnadara U, Jayasinghe S & Basnayake S) **50**: 675-684 (2022)

WSN

Fuzzy based congestion detection and control algorithm for energy efficient wireless sensor network (WSN) (Ramasamy-Rajeswari A, Ganapathy S, Kulothungan K & Kannan A) **50**: 563-576 (2022)

Yoghurt

Physicochemical and sensory attributes of inulin incorporated set yoghurt prepared using cow and buffalo milk (Gnanarathna KADC, Jayasumama MTLK, Weragama KWDP, Gunasekara DCS, Weerasingha WVVR, Chandrasekara A & Prasanna PHP) **50**: 651-661 (2022)

Zagreb index

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β -glucuronidase

Bioactive cyclo-(S-Pro-R-Leu) from *Aspergillus flavus*, the marine endophytic fungus from brown alga, *Dictyota kunthi* (Haniffa HM, Dharmaratne HRW & Mohommad MY) **50**: 717-721 (2022)