



RISTCON 2018

Program of 5th Ruhuna International Science and
Technology Conference

February 15, 2018

Faculty of Science
University of Ruhuna
Matara
SRI LANKA



Ruhuna Science and Technology Conference (RISTCON) 2018	
Date: February 15, 2018	
Venue: Professor Alawaththagoda Pemadasa Auditorium	
Registration (7.30 a.m. – 8.00 a.m.)	
Inauguration Ceremony (8.00 a.m. – 10.00 a.m.)	
8.00 – 8.05	Arrival of the Chief Guest & Guests of Honor
8.05 – 8.15	Lighting the Traditional Oil Lamp
8.15 – 8.20	University Anthem
8.20 – 8.30	Welcome Address by Professor J. W. Hewage <i>Chairperson/RISTCON 2018</i>
8.30 – 8.45	Address by Professor P. A. Jayantha <i>Dean, Faculty of Science, University of Ruhuna, Sri Lanka</i>
8.45 – 9.00	Address by the Chief Guest Senior Professor Gamini Senanayake <i>Vice Chancellor, University of Ruhuna, Sri Lanka</i>
9.00 – 9.45	Keynote Address by Dr. Thilak Mudalige <i>Research Scientist</i> <i>Food and Drug Administration, USA</i> "Application and Characterization of Nanomaterials in Consumer Products"
9.45 – 9.55	Vote of Thanks by Dr. N. Yapage <i>Joint Secretary/RISTCON 2018</i>
9.55 – 10.00	National Anthem and Closing Ceremony
10.00 --10.45	Refreshments (Faculty Complex Open Space)
11.00 onwards	Technical Sessions (Departments of Chemistry and Physics)

Technical Sessions - Summary of the Program					
<i>Venues: Department of Physics (PHY) and Department of Chemistry (CHEM), Faculty of Science</i>					
Time	Event				
11.00 – 12.45	Technical session-I Oral Presentations (Eight parallel sessions)				
	Session A1 Agriculture, Botany and Biotechnology <i>PHY-1</i>	Session B1 Chemistry <i>CHEM-1</i>	Session B3 Ecology and Environmental Science <i>CHEM-2</i>	Session C1 Fisheries & Aquaculture and Zoology <i>CHEM-3</i>	Session D1 Computer Science <i>PHY-2</i>
	Session D3 Physics, Nano technology and Engineering <i>PHY-3</i>	Session D5 Mathematics and Statistics <i>PHY-4</i>	Session C3 Medical and Health Sciences <i>CHEM-4</i>		
12.45 – 13.45	Lunch (Faculty Complex Open Space)				
13.45 – 14.45	Plenary Talk by Dr. Kithsri Karunatilake, <i>Consultant Physician, Base Hospital Dickoya, Hatton</i> “Unraveling the Myths in Western Medicine ” (Mini Auditorium - Department of Physics)				
14.45- 15.45	Poster session and Tea (Department of Chemistry)				
16.00– 17.30	Technical session-II Oral Presentations (Five parallel sessions)				
	Session A2 Agriculture, Botany and Biotechnology <i>PHY-1</i>	Session B2 Chemistry <i>CHEM-1</i>	Session C2 Fisheries & Aquaculture and Zoology <i>CHEM-3</i>	Session D2 Mathematics and Statistics <i>PHY-4</i>	Session D4 Physics, Nanotechno logy and Engineering <i>PHY-3</i>

Oral Presentations Details – Category A

(Agriculture, Botany, Biotechnology)

Session A1 (Venue: **PHY-1**) (*Mini Auditorium*)

Session Convener: Dr. T.G. Dayananda

Chairperson: Prof. Alfred E. Szmidt

Time	Abs. No	Title
11.00	A 02	Cell membrane integrity and proline content of <i>Rhizophora mucronata</i> Lam. seedlings under hypersaline and drought conditions <i>Dissanayake N.P., Hathurusinghe U.I., Kodikara K.A.S., Ranasinghe P. and Jayatissa L.P.</i>
11.15	A 11	Evaluation of shelf life of biocontrol agent <i>Trichoderma</i> isolate T13 with different formulations <i>Chathuranga T. S., Masakorala K., and Abeysinghe S.</i>
11.30	A 12	Identification of metallothionein gene in <i>Staphylococcus warneri</i> strain G isolated from industrial effluent in Sri Lanka <i>Edirisinghe S.N.J., Kumari W.M.N.H., and Wijayarathna C.D.</i>
11.45	A 21	Amine oxidases of <i>Arabidopsis</i> are potential candidates of abscisic acid signaling <i>Wimalasekera R. and Scherer G. F. E.</i>
12.00	A 27	Effects of water deficit stress on growth, leaf relative water content and stomata density of <i>Capsicum annum</i> L.cv. CA8 <i>Kariyawasam P.S., Peris Y. M. M., and Samaraweera D. N.</i>
12.15 – 12.45		Guest Speech by Prof. Alfred E. Szmidt, <i>Graduate School of Sciences, Kyushu University, Japan</i> “Introgressive hybridization in two Indo-West Pacific <i>Rhizophora</i> mangrove species: <i>R. mucronata</i> and <i>R. stylosa</i>”

Session A2 (Venue: **PHY-1**)

Session Convener: Mr. K.A.S. Kodikara

Chairperson: Prof. S. Subasinghe

Time	Abs. No	Title
16.00	A 05	Change from hand milking to machine milking affects the milk yield and behavior of Jersey cross-bred cows <i>Senaratna D., Viduranga W.P.C., Premakumara M.M.K., and Atapattu N.S.B.M.</i>

16.15	A 10	Fluctuations of Seasonal of paddy production on Food Security in Sri Lanka <u>Amarasekara K.A.I.M.</u>
16.30	A 15	In-vitro screening of Ethyl methanesulphonate (EMS) treated shoot tips of banana for Fusarium wilt using crude culture filtrates of different <i>Fusarium oxysporum</i> isolates <u>Shirani D.A., Niroshani K. A. C., Abeysinghe P. D., and Abeysinghe S.</u>

Oral Presentations Details – Category B

(Biochemistry & Biophysics, Chemistry, Ecology, Environmental Science and Oceanography)

Session B1 (Venue: **CHEM-1**)

Session Convener: Dr. J.S. Hewage

Chairperson: Prof. H.M.K.K. Pathirana

Time	Abstract No	Title
11.00	B 06	Anti-hypercholesterolemic activity of <i>Phyllanthus reticulatus</i> and <i>Glochidion zeylanicum</i> (“<i>Hunukirilla</i>”) methanolic extracts on Wistar albino rats (<i>Mus norvegicus albinus</i>) <u>Dissanayaka D. M. L. C., Weerakoon S. R., Somaratne S., Nilakarawasam N., and Ranasinghe C.</u>
11.15	B 08	Synthesis and biological activity studies of a novel highly functionalized 2-methylbenzoxazole derivative <u>Perera S. A. I. D., De Silva H. I. C., Abeyunga D. T. U., De Silva N., Chatterjee, S. and Pittman, Jr. C. U.</u>
11.30	B 09	<i>Cassia auriculata</i> and <i>Cyperus rotundus</i> as green corrosion inhibitors in hydrochloric acid <u>Dissanayake K. D. M. M., Gunasekara R.H.W., and Patabendige N. M.</u>
11.45	B 41	Antiglycation activity, antioxidant activity, total phenol and flavonoid contents of the aqueous extracts of raw and ripe leaves of <i>Artocarpus heterophyllus</i> <u>Erangika, J.A.H., Deraniyagala, S.A. and Fernando, S.C.D.</u>
12.00	B 13	Production of lipase by <i>Fusarium oxysporum</i> using Mee (<i>Madhuca longifolia</i>) oil cake substrate and its potential applications in detergent industry <u>De Alwis H. D. H. K. and Weerasooriya M.K.B.</u>
12.15	B 20	Determination of cadmium in rice using mercury and bismuth coated carbon electrodes by voltammetric techniques <u>Kulasinghe K. A. K. S., Hewage J. W. and Fernando K.R.</u>

Session B2 (Venue: **CHEM-1**)

Session Convener: Dr. G.B.C. Sanath

Chairperson: Prof. V.P. Bulugahapitiya

Time	Abstract No	Title
16.00	B 38	Investigation of a suitable metal catalytic system for the aldol reaction between acetophenone and benzaldehydes <i>Kaushalya H. A. S. T. and Kalutharage N. K.</i>
16.15	B 39	Investigation of the best method for extraction of fish anesthetic compounds from common tephrosia (Kathurupila); <i>Tephrosia purpurea</i> leaves and effects of the extracts on fish (guppies) <i>Wedamulla P. G., Kalutharage N. K. and Atapaththu K. S. S.</i>
16.30	B 12	Synthesis of magnetic iron oxide nanoparticles using an aqueous extract of <i>Eichhornia crassipes</i> (Water hyacinth) <i>Perera N. L. N., Fernando N., and Manawadu H.C.</i>
16.45	B 43	Effects of millet on calcium oxalate crystal growth and dissolution <i>Liyanagamage V., White M. G. and Ranaweera A. S.</i>
17.00	B 44	Extraction and acetylation of lignin extracted from rice straw and sugar cane bagasse <i>Panamgama L. A. and Palihakkara I. N. H.</i>
17.15	B 46	Comparison of two green methods for refining of crude oil obtained from fish waste of <i>Lutjanus rivulatus</i> <i>Rathnayake R. M. I. H. and Pathirana H.M.K.K.</i>
17.30	B 48	Physicochemical treatment of synthetic textile wastewater containing reactive black 5 <i>Bandara T. P. D. S., Wadumethrige, S. H. and Wanniarachchi S.</i>

Session B3 (Venue: **CHEM-2**)

Session Convener: Dr. W.S. Hemalika

Chairperson: Prof. H.C.E. Wegiriya

Time	Abstract No	Title
11.00	B 05	Life history aspects of two monophagous insect species feeding on <i>Calotropis gigantea</i> in Sri Lanka <i>Wijeweera W.P.S.N., Dhileepan K., Senaratne K.A.D.W. and De Silva M.P.K.S.K.</i>

11.15	B 17	Lead pollution in road side dust in selected locations in Matara district <i>Abeysooriya M.D., Wijerama N.K., Fernando K.R. and Asanthi H.B.</i>
11.30	B 23	Sediment quality in Hambantota Harbour basin: a baseline assessment <i>Jayasekara M. A. D. D., Asanthi H. B. and Kumara P. B. T. P.</i>
11.45	B 32	Tolerance of Rose Balsam (<i>Impatiens balsamina</i> L.), to grow on soil contaminated by used automobile lubricating oil <i>Walakulu Gamage, S.S., Masakorala, K., Brown, M.T. and Widana Gamage, S.M.K.</i>

Oral Presentations Details – Category C

(Fisheries & Aquaculture, Medical & Health Sciences, Veterinary Science, Zoology)

Session C1 (Venue: **CHEM-3**)

Session Convener: Prof. M.G.V. Wickramasinghe

Chairperson: Prof. N.J. De Amarasinghe

Time	Abs. No	Title
11.00	C 17	A study on selected characteristics of three age groups of captive elephants in Pinnawala Elephant Orphanage, Sri Lanka <i>Wijesinghe H.M.N.P., Sudarshani K.A.M. and Wegiriya H.C.E.</i>
11.15	C 22	Survey on predatory mosquito larvae and their consortium mosquito larvae in selected habitats in Matara district <i>Ranasinghe R.N.M. and Wegiriya H.C.E.</i>
11.30	C 24	A preliminary evaluation of potential predatory activity of <i>Cyphoderus</i> spp. (Collembola: Cyphoderidae) on the root-knot nematode <i>Meloidogyne incognita</i> <i>Damithri W. H. D. P. I., Senadhirathna M.G.G.K.S.,_ Dammini Premachandra W.T.S.</i>
11.45	C 25	Effects of acetaminophen exposure on behaviour, erythrocyte nuclear morphology and gill histology of juvenile <i>Oreochromis niloticus</i>: an experimental study <i>Dissanayaka D.D.S., Gunawickrama S.H.N.P. and Gunawickrama K.B.S.</i>
12.00	C 27	Comparative analysis of stress, major stressors and coping mechanisms in a selected group of undergraduates of University of Ruhuna <i>Jasinghe B.L.E., Wegiriya H.C.E. and Wickramasinghe M.G.V.</i>
12.15	C 28	Breeding preference of <i>Aedes aegypti</i> and <i>Aedes albopictus</i> (Diptera: Culicidae) in Galle District, Sri Lanka <i>Dissanayake D.M.D.S. and Wegiriya H.C.E.</i>

Session C 2 (Venue: **CHEM-2**)

Session Convener: Ms. W.P.S.N. Wijeweera

Chairperson: Prof. W.T.S.D. Premachandra

Time	Abstract No	Title
16.00	C 06	Effect of rhythmic Buddhist chanting (<i>Pirith</i>) and western pop music on rats' behavioral and hematological responses <i>Dissanayaka D.M.L.C., Liyanage K.C.M., Munasinghe D.S.P., Weerakoon S.R., Somaratne S. and Jayasinghe C.D.</i>
16.15	C 10	Induced breeding success and fry rearing of <i>Mystus vittatus</i> (Iri-Ankutta) <i>Manoj Somarathana K.M.D.</i>
16.30	C 21	Nest characteristics of endemic Dull-blue flycatcher in Horton Plains National Park and surrounding habitats, Sri Lanka <i>Dharmarathne W.D.S.C. and Mahaulpatha W.A.D.</i>
16.45	C 23	Microhabitat selection by endemic endangered frog, <i>Fejervarya greenii</i> (Family: Dicroglossidae) in and around lentic water bodies in a tropical montane cloud forest of Sri Lanka <i>Prabhath M.C., Jayasekara E.G.D.P., Chandrasiri, P.H.S.P. and Mahaulpatha W.A.D.</i>
17.00	C 26	Reproductive performances and condition factor of Rosy Barb, <i>Pethiya conchonus</i> (Hamilton, 1822) fed with diets supplemented with medicinal plant materials <i>Punchihewa D.S.Y., Amarasinghe N.J. De S. and Guruge W.A.H.P.</i>

Session C3 (Venue: **CHEM-4**)

Session Convener: Dr. S .Wanniarachchi

Chairperson: Prof. E.P.S. Chandana

Time	Abs. No	Title
11.00	C 02	Effect of light and temperature on laboratory assessment of serum bilirubin <i>Bandara A.M.S., Damayanthi W.R.S. and Priyadarshani A.M.B.</i>
11.15	C 04	Impact of anthropometric measurements on taste perception for sucrose in patients with type II diabetes mellitus <i>Vidanage D., Wasalathanthri S. and Hettiarachchi P.</i>
11.30	C 09	Development and validation of a spectrophotometric method for the analysis of low concentrations of paracetamol in serum <i>Dissanayake N. C. A., Mannapperuma U. and Galappatthy P.</i>
11.45	B 22 (C 29)	Leaves and fruit pericarp of <i>Garcinia zeylanica</i> Roxb. as a potential anti-diabetic agent <i>Lansakara L.M.O.D.K. and Jayawardena B.</i>

Oral Presentations Details – Category D

(Computer Science & ICT, Engineering, Mathematics & Statistics, Nano Technology,
Physics & Geophysical Science)

Session D1 (Venue: PHY-2)

Session Convener: Dr. S. M. Vidanagamachchi

Chairperson: Prof. L.A.L.W. Jayasekara

Time	Abstract No	Title
11.00	D 01	A simple and efficient incremental convex hull algorithm in 3D space <i>Wijeweera K. R. and Kodituwakku S. R.</i>
11.15	D 09	Detecting and correcting real-word errors in Tamil sentences <i>Sakuntharaj R. and Mahesan S.</i>
11.30	D 38	Integrating IoT with greenhouse environments for monitoring and analysis <i>Niroshana P.I.K., Ranasinghe M.P.S., Chamalka G.K., Devinda L.A.M.J.A., Dantanarayana T.G.G., Masakorala K. and Walisadeera A.I.</i>
11.45	D 42	Use of dynamic text prediction for Tamil text editing <i>Sarubi T., Lorensuhewa S.A.S. and Kalyani M.A.L.</i>
12.00	D 45	Improving user friendliness of Singlish to Sinhala Unicode converters by word prediction <i>Kapugama K.D.C.G., Lorensuhewa S.A.S. and Kalyani M.A.L.</i>
12.15	D 47	Sinhala news analysis using text mining and machine learning <i>Ekanayaka R.K.S.K., Lorensuhewa S.A.S. and Kalyani M.A.L.</i>

Session D2 (Venue: PHY-2)

Session Convener: Dr. B.G.S.A. Pradeep

Chairperson: Dr. W.A. R. De Mel

Time	Abstract No	Title
16.00	D 03	Queueing analysis of patients flow and optimal bed requirement of maternity ward in Matara hospital <i>Nivarthana H.P.K. and Jayasekara L.A.L.W.</i>
16.15	D 23	Trends and effect of economic factors of suicides in Sri Lanka <i>Devindi R.P.D.C.S. and Kulatunga D.D.S.</i>
16.30	D 36	Forecasting monthly cinnamon prices in Matara district using ARIMA approach <i>Dilshani S.D.M., Prasangika K.D., Peiris T.S.G. and Jayasekara L.A.L.W.</i>
16.45	D 43	Methods to measure value at risk of a portfolio: a case study on Sri Lanka Stock Exchange <i>Gallage D.D.P. and Abeygunawardana R.A.B.</i>

Session D3 (Venue: PHY-3)

Session Convener: Dr. W. M. K. De Silva

Chairperson: Prof. W.G.D. Dharmarathna

Time	Abstract No	Title
11.00	D 02	Comparative study on the buckling properties of Palmyra and Coconut trees <i>Kumara S.B.R.H. and Kandasamy K.</i>
11.15	D 04	Determination of filament temperature of incandescent lamps <i>Rathnathilaka K.A.C. and Jayatilleke K.P.S.</i>
11.30	D 06	Construction of a monochromatic LED replacement lamp <i>Kodagoda A.N., Jayatilleke K.P.S. and Abewickrama S.S.</i>
11.45	D 07	Development of a low cost optical spectrometer for visible region <i>Abeywickrama K., Lewangama L.G.R.C., Abeywickrama S.S., Wickramasuriya N.T., De Silva W.M.K. and Perera H.A.D.S.D.</i>
12.00	D 10	Development of a green building rating tool for special nature buildings (hotels) in Sri Lanka <i>Maheepala S.A.D.S.S., Dissanayeka R. and Jayasinghe G.Y.</i>
12.30	D 48	Preliminary results of Low Resolution Spectroscopy of some selected stellar objects using a DSLR camera <i>Chathuranga M.D.M., Amaradasa H.D.S. and Mahanama G.D.K.</i>

Session D4 (Venue: PHY-3)

Session Convener: Dr. H.A.D.S.D. Perera

Chairperson: Prof. K.K.A.S. Yapa

Time	Abstract No	Title
16.00	D 13	Effect of sound on the <i>Staphylococcus aureus</i> bacterium <i>Kumara P.A.M.M., De Silva L.M.M. and Aponsu G.M.L.P.</i>
16.15	D 14	Synthesis and characterization of bacteria-mediated silver nanoparticles <i>Peiris M.M.K., Gunasekara T.D.C.P., Arachchi N.D.H., Jayaweera P.M. and Fernando S.S.N.</i>
16.30	D 18	Design and analysis of a phase difference measurement system with improved performance <i>Ajward A.M.</i>
16.45	D 29	Hearing threshold shift of workers in metal quarries and crushers due to high occupational noise exposure <i>Sethunga S.M.N., Abeyasuriya U. and Bodhika J.A.P., Dharmaratne W.G.D. and Wickramasinghe S.A.</i>

17.00	D 34	Identification of gender from acoustic characteristics of Sinhala vowels <i>Weerathna K.A.P., Bodhika J.A.P., Jayasekara L.A.L.W and Anuruddha Wicramasinghe A.</i>
17.15	D 37	Heteroatom rich mesoporous carbon supported gold nanoparticles – An efficient catalyst for benzyl alcohol oxidation <i>Thambiliyagodage C.J. and Bakker M. G.</i>

Session D5 (Venue: *PHY-3*)

Session Convener: Dr. D.M. Samarathunga

Chairperson: Prof. P.A. Jayantha

Time	Abstract No	Title
11.00	D 08	The momentum distribution of one-dimensional strongly repulsive Bose gas at large momenta <i>Nandani E.J.K.P. and Xi-Wen Guan</i>
11.15	D 15	Approximate solutions of time fractional Fornberg-Whitham type equations by Laplace decomposition method <i>Mathanaranjan T. and <u>Himalini K.</u></i>
11.30	D 26	Numerical solutions of a time fractional reaction-diffusion model for pattern formation in coral reefs <i>Somathilake L.W. and Burrage K.</i>
11.45	D 31	Stability analysis of a double delayed HIV – I dynamics model with nonlinear functional response and absorption effect <i>Mendis M.K.S., Pradeep B.G.S.A. and Rathnayake N.S.</i>
12.00	D 40	Some estimations of summation-integral-type operators <i><u>Yadav R.</u></i>

* Name of the presenting author is underlined

Poster Presentations

Time: 14.45 to 15.45 p. m.

Venue: Department of Chemistry, Faculty of Science

Category A

Agriculture, Botany and Biotechnology

A 01	Plant regeneration from cotyledonary nodal explants of tomato (<i>Lycopersicon esculentum</i> Mill.) cultivar KC-1 <i>Shanika M.M.A.N., Seran T.H. and Shiyamala B.</i>
A 13	Identification of genes encoding heavy metal transporting proteins in selected bacteria of an effluent <i>Chathurika K.P.R., Kumari W.M.N.H., and Wijayarathna C.D.</i>
A 16	Preliminary stem anatomy of the genus <i>Cinnamomum</i> found in Sri Lanka <i>Ranawaka M.S.N. and Abeysinghe P.D.</i>
A 17	Screening of antibacterial effect of selected plant leaf extracts <i>Hansika K. A. S., Perera A. J. D. and Hemamali K. K. G. U.</i>
A 25	Evaluation of the antioxidant potential of fruit wine prepared from conkerberry, <i>Carissa spinarum</i> L. (Apocynaceae) <i>Thangadurai D., Mundaragi A. C., Appaiah K.A. A. and Sangeetha J.</i>
A 26	Identification of superior Nili Ravi buffalo bulls (<i>Bubalus bubalis</i>) for increasing milk production through selection by estimation of breeding values and genome analyses <i>Islam S. and Shehzad W.</i>

Category B

Biochemistry & Biophysics, Chemistry, Ecology, Environmental Science, Oceanography

B 04	Study of the damage of two-spotted mite <i>Oligonychus</i> spp. on <i>Gliricidia</i>, and characterization of a fungus <i>Rhizopus</i> spp. infecting the mite <i>Gobinantha S. and Mikunthan G.</i>
B 07	Comparative assessment of the treatment performance and water quality in Kahawatta and Godakawela drinking water processing plants <i>Rameshraj K., Wijetunga S., Gunaratne T.A.R.M. and Wickramasinghe W.M.S.</i>
B 10	Evaluation of <i>in vitro</i> antioxidant and sunscreens activities of different solvent extracts obtained from <i>Drypetes sepiaria</i> (Weera) leaves <i>Hettihewa S.K, Kaushalya W.P.D. and Dissanayake, A. S.</i>
B 11	Monsoon effect on the variation of groundwater quality in Vavuniya City area, Sri Lanka <i>Anoja N. and Thayalan S.</i>
B 15	TLC Fingerprint profile analysis of leaf extracts of six antidiabetic medicinal plants widely used in Sri Lanka <i>Arachchi D. N. A. and Hewage J. S.</i>

B 16	Isolation and characterization of mangrove endophytic fungi <i>Gunathunga S.U. and Rathnayake I.V.N.</i>
B 18	<i>Terminalia arjuna</i> attenuates glycation and glycation induced cross-linking; An <i>in vitro</i> study <i>Dheeraseskera O., Perera H. K. I. and Bandara A.M.P.S.T.M.</i>
B 19	Land-use/cover changes in the city of Hambantota, Sri Lanka, over the past two decades – a field validated GIS study <i>Madarasinghe S.K., Yapa K.K.A.S., Satyanarayana B., Udayakantha P.M.P., Kodikara K.A.S. and Jayatissa L.P.</i>
B 30	Assessment of water quality surveillance activities in a MOH area: A case study from Bope-Poddala, Galle <i>De Silva M.M.D.S., Dayarathne H.R., Kumarasinghe A., Lalith D. and Kumara W.G.P.</i>
B 31	Surface water quality of Bisodola water source in Ratnapura, Sri Lanka <i>Dasanayake R.P.K., Dharmadasa W.K., Perera M.D.N.D. and Jayasinghe G.Y.</i>
B 34	A Case Study on Developing an Industrial Symbiosis Using a Multi-Industrial Approach <i>Moneravilla D.M.N.B., Kudavidanage E.P., Udayakumara E.P.N. and Edirisinghe L.</i>
B 35	Quartz impregnated nitrile butadiene rubber (NBR) for high ware resistant applications; preliminary study <i>Manthirathna, M.A.N.C., Kadanapitiya M.S., Jayasinghe N., Francis P.</i>
B 37	Right to clean and healthy environment and e-waste in Sri Lanka: A way forward <i>Pathiraja P.M.A.S.</i>
B 40	Impact of agrochemical usage of paddy cultivation at Welipothewelayaya, Thissamaharama in Sri Lanka <i>Kaushalya K.L.R., Wijenayake T.R. and Gangabadage C.S.</i>
B 45	Isolation and characterization of Pomelo pectin and preparation of pectin derived Ag nanoparticles <i>Nayanaransi L.A.U., Edussuriya M. and Dissanayake A.S.</i>
B 49	Green approach for conversion of industrial wastes to biofuel over egg-shell CaO catalyst <i>Kithulqoda H.N., Edussuriya M. and Ranaweera A.S.</i>

Category C

Fisheries & Aquaculture, Medical & Health Sciences, Veterinary Science, Zoology

Abstract No	Title
C 01	Mid Upper Arm Circumference-for-age: an alternative method of assessing acute under-nutrition among preschool children <i>Sujendran S., Senarath U., Joseph J.</i>

C 05	Maternal urinary iodine status and its relationship of newborn's thyroid status in selected MOH divisions of Jaffna district <i>Yoganathan T., Arasaratnam V., Hettiarachchi M.</i>
C 11	Qualitative study on experiences and challenges perceived by informal caregivers of elders in Batticaloa district <i>Arulanandem K. and Kisokanth G.</i>
C 13	Knowledge and practices regarding sugar and salt consumption among government servants in a selected Divisional Secretary Office <i>Wickramasinghe W.W.P., Godage M., Wijerathne A. K.S., Dodangoda P., Samaranayake T. D. A.</i>
C 14	Clinical and histopathological features of patients with cutaneous leishmaniasis in Hambantota, Sri Lanka <i>Sudarshani K. A. M., Eswaramohan T., Murugananthan A., Wegiriya H. C. E., Liyanage P. L. A. N.</i>
C 18	Impact of three selected companion plants on selection of host plant, <i>Vigna unguiculata sesquipedalis</i> by the aphid species, <i>Aphis craccivora</i> <i>Ruwanthika M. J. and Wickramasinghe M.G.V.</i>

Category D

Computer Science & ICT, Engineering, Mathematics & Statistics, Nano Technology, Physics & Geophysical Science

Abstract No	Title
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D 17	Nickel doped ZnO nanoparticles decreased dissolution and reduced toxicity in Zebrafish (<i>Danio rerio</i>) embryos <i>Dananjaya S.H.S., Chandrarathna H.P.S.U., Udayantha H.M.V. and De Zoysa M.</i>
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