Technical Programme : Theme - Physical Sciences
RESCON 2023

Friday, 3rd November 2023

11.00-1.15

Session ID	Session Chairs	Location
PS1	**Prof. Manawadevi. Y. U. Ganehenege** **Dr. R. J. K. Udayana Ranatunga**	**C2.6**

Time	Abstract ID	Title	Presenter
11.00-11:15	18	Ti/TiO2 SHOTCKY JUNCTION AND HIGHLY PHOTOACTIVE Sb2S3 PHOTOANODE FOR SOLAR WATER SPLITING	Chathuranga A G Wijerathna
11.15-11.30	48	REMOVAL OF MAGNESIUM IONS BY FUNCTIONALIZED CARBON NANOTUBE	Sivanayani Selvakumar
11.30-11.45	54	Modeling Copper Ion Adsorption On Kaolinite By In-situ Measurement of Free Metal Ion Activities	Nalesha Mudannayake
11.45-12.00	144	Electronically Conducting Donor Acceptor (D-A) type polymer synthesized using 3,4-Ethylenedioxythiophene (EDOT) with Berberine isolated from Coscinium fenestratum	Dhananjani Egodawele
12.00-12.15	155	ADSORPTIVE REMOVAL OF RHODAMINE B DYE FROM MAGNETIC MnFe2O4-MONTMORILLONITE NANOCOMPOSITE	Sammani A Kanthage
12.15-12.30	158	OPTIMIZATION OF THE SOLUTE DESCRIPTORS FOR CITRONELLAL BY GAS CHROMATOGRAPHY AND LIQUID-LIQUID PARTITION SYSTEMS	Pradeep Hewage
12.30-12.45	160	Enhanced Semiconducting Properties in Co-MOF-74 Upon Encapsulation of Aniline Derivatives as Guest Molecules	Thushani P.D.T.S.N Jayasundara
12:45-1:00	179	ADSORPTIVE REMOVAL OF AMOXICILLIN USING MONTMORILLONITE BARIUM TITANATE NANOCOMPOSITE IN AN AQUEOUS MEDIUM	Roshan Tharindu Bandara
1:00-1:15	**Panel Discussion**		

11:00 - 1:00

Session ID	Session Chairs	Location
PS2	**Prof. L.R.A.K. Bandara** **Dr. J.P. Liyanage**	**C2.5**

Time	Abstract ID	Title	Presenter	
11:00-11:15	23	A NANOGRAVIMETRIC APPROACH TO STUDY THE PHOTOCATALYTIC ACTIVITY OF NANO TITANIA THIN FILMS	K.R Jaliya Manuda	
11:15-11:30	89	COMPARISON OF X-RAY ATTENUATION IN THE ENERGY RANGE OF 50-80 KEV IN ALUMINIUM AND ZIRCON MINERAL ENCASED IN EPOXY MATRIX	Kalpani M Weerasekara	
11:30-11:45	113	SOUND ABSORPTION PROPERTIES OF STUCTURES DEVELOPED USING WASTE MATERIALS	Danuka D Senarath	
11:45-12:00	119	THE ENHANCEMENT OF THERMOELECTRIC PROPERTIES OF COPPER IODIDE THROUGH DOPING	dasun t.b kahawaththe	
12:00-12:15	122	SELECTIVE REDUCTION OF GRAPHENE OXIDE DEPOSITED ON HEAT-SENSITIVE SUBSTRATES	Kanishka Hansana Madurawala	
12:15-12:30	182	THICKNESS EFFECT ON THE PHYSICOCHEMICAL PROPERTIES OF ELECTRODEPOSITED ZnTe LAYERS	Olajide I. Olusola	*Via Zoom*
12:30-12:45	195	Layered Marigold-Flower-like CdS/MoS2-reduced Graphene Oxide Nanocomposite as an Efficient Electrode Material for Supercapacitor	Lina N Khandare	*Via Zoom*
12:45-1:00	196	Synthesis of Sb2Te3 nanoparticles by a cost-effective hydrothermal technique and its photodetector applications.	Maruti V Salve	*Via Zoom*
	Panel Discussion			

Lunch Break

L5

Session ID	Session Chairs	Location
PS3	**Prof. K. M. S. Wimalasiri** **Dr. J. M. Susanthi Jayasinghe**	**C2.5**

Time	Abstract ID	Title	Presenter
2.00-2.15	24	ASSESSMENT OF CYTOTOXICITY OF SELECTED EDIBLE LEAFY PLANTS OF SRI LANKA	Savani Ulpathakumbura
2.15-2.30	31	DETERMINATION OF CYTOTOXICITY OF DIFFERENT SOLVENT EXTRACTS OF SOFT STEMS OF DIFFERENT BANANA (*Musa sp.*) CULTIVARS	Nithini Liyadipiptiya

2:00-4:1	2.30-2.45	83	DETERMINATION OF PHENOLIC CONTENT AND ANTIOXIDANT POTENTIAL OF A NUTRIENT SUPPLEMENT DEVELOPED USING SELECTED LOCAL GRAIN VARIETIES	T.P.Sathsara S. Perera
	2.45-3.00	126	ANTI-OBESITY EFFECTS OF A POLYHERBAL MIXTURE	Kanishka C.J Costa
	3.00-3.15	132	ANTIDIABETIC AND ANTIOBESITY POTENTIAL OF OLEANOLIC ACID DERIVATIVES	Tharala D Thennakoon
	3.15-3.30	134	Comparative study on nutritional components and antioxidant activities of a local wild grape variety, Ampelocissus indica (L.) Planch and a commercial grape variety, Vitis vinifera L.	Wathsala J Nandasiri
	3:30-3:45	139	ANTIOXIDANT ACTIVITY COMPARISON OF COMMON DIFFERENT CURRY LEAVES VARIETIES IN SRI LANKA	Shashikala Udari Wanigasekara
	3:45-4:00	**Panel Discussion**		

	Session ID	**Session Chairs**	**Location**
	PS4	**Prof. Anura Wickramasinghe** **Dr. W. R. Priyanga Wijesinghe**	**C2.6**

	Time	**Abstract ID**	**Title**	**Presenter**
2:00-4:00	2:00-2:15	32	RAPID SYNTHESIS OF PHYTOGENIC SILVER NANOPARTICLES MEDIATED BY PUMPKIN BYPRODUCTS AND EVALUATION OF THEIR ANTIOXIDANT POTENTIAL	A.M.S.H. Aththanayaka
	2:15-2:30	56	MULTI-TARGET INHIBITORY ACTIVITY OF Salicornia brachiata AND Suaeda maritima SEED ON α-AMYLASE, TYROSINASE AND LIPASE	Nimashi Palindi Herath
	2:30-2:45	77	CHARACTERIZATION OF SEED OILS OF FOUR GARCINIA SPECIES TO ASSESS POTENTIAL APPLICATIONS IN COSMETICS AND DIETARY SUPPLEMENTS	K. A. H. Thathsara
	2:45-3:00	78	EVALUATION OF INSECT-REPELLENT ACTIVITY OF PIPER LONGUM (L.) BASED NANO-EMULSIONS FOR THE CONTROL OF SITOPHILUS ORYZAE (L.) (COLEOPTERA: CURCULIONIDAE)	Vinavee Apsara Sandeepani
	3:00-3:15	109	CANARIUM ZEYLANICUM SEED OIL AS A FEEDSTOCK FOR BIODIESEL PRODUCTION	Waruni Keshiya
	3:15-3:30	180	CONFINED NANOCRYSTALLIZATION OF ANTHRANILIC ACID IN A MESOPOROUS ZEOLITE MATRIX	Bimsara K.M.M. Chandrasekera
	3:30-3:45	**Panel Discussion**		

Saturday, 4th November 2023

	Session ID	**Session chairs**	**Location**
	PS5	**Prof. B. S. B. Karunaratne** **Dr. B. S. Dassanayake**	**C2.5**

	Time	**Abstract ID**	**Title**	**Presenter**	
8.00-10.15	8.00-8.15	8	DEVELOPMENT OF AN ELECTRIC VEHICLE FOR THE DIFFERENTLY ABLED WITH SOLAR ASSIST	E.S. Mohamed	
	8.15-8.30	148	Effect of Quaternary Cations on The Efficiency of Quasi-Solid-State Dye-Sensitized Solar Cells	KMSP Bandara	
	8.30-8.45	150	OPTIMIZATION OF EFFICIENCY IN DYE-SENSITIZED SOLAR CELLS BY THE INFUSION OF GRAPHENE TO PHOTOANODE	Rampatige P Chandrika	
	8.45-9.00	163	ANALYSIS OF AFM IMAGES FOR INVESTIGATING THE MORPHOLOGY AND POROSITY OF FLUORINE-DOPED TIN OXIDE THIN FILMS	Mason Caron	*Via Zoom*
	9.00-9.15	197	CeO2/MnO2 Composite Material for Asymmetric Supercapacitor Applications	Swapnil R Bhosale	*Via Zoom*
	9.15-9.30	198	HYDROTHERMAL SYNTHESIS OF HGTE THIN FILM FOR POSSIBLE APPLICATIONS IN THE DEVLOPMENT OF CDTE SOLAR CELLS.	Aparna Satish Ukarande	*Via Zoom*
	9.30-9.45	201	PERFORMANCE ENHANCEMENT IN ULTRATHIN CIGS SOLAR CELLS USING PLASMONIC NANOPARTICLES – A FINITE DIFFERENCE TIME DOMAIN ANALYSIS APPROCH	Sachin Vijay Desarada	*Via Zoom*
	9.45-10.00	202	COST-EFFECTIVE CIGS THIN FILMS: ELECTRODEPOSITION AND CHARACTERIZATION FOR EFFICIENT SOLAR CELLS	Priyanka U Londhe	*Via Zoom*
	10:00-1:15	**Panel Discussion**			

Tea Break

	1:30-2:00	***Plenary Talk by Prof. Danny O'Hare @ Conference Hall Block C***	
2:15-3:30	**Session ID**	**Session chairs**	**Location**
	PS6	**Prof. R.M. Gamini Rajapakse** **Prof. T. M. W. J. Bandara**	**C2.5**

Time	Abstract ID	Title	Presenter
2:15-2:30	69	DEVELOPMENT OF HUMIDITY SENSING COMPOSITE MATERIAL USING SnO DOPED PHENOL FORMALDEHYDE (PF) DERIVED CONDUCTIVE CHARCOAL	Kamaljith Heshan Galagedara
2:30-2:45	92	LOW-COST COUNTER ELECTRODE PREPARED USING ACTIVATED CARBON DERIVED FROM RICE HUSK FOR DYE-SENSITIZED SOLAR CELLS	Ishara U Weerasinghe
2:45-3:00	115	PREPARATION AND CHARACTERIZATION OF COCONUT SHELL ACTIVATED CARBON BLACK FOR ELECTROPHOTOGRAPHY TONER APPLICATION	Chamodi S Vithana Gamage
3:00-3:15	169	LIGNOCELLULOSIC COIR FIBER ASSISTED FABRICATION A POROUS SHEATH-POROUS CORE POLYANILINE NANOPARTICLES@FIBER COMPOSITE VIA IN-SITU CHEMICAL	Thilanka I Nawarathna
3:15-3:30	181	NANOCOCRYSTALLIZATION OF UREA:4-HYDROXYBENZOIC ACID USING SONOCHEMICAL METHODS	Madara Dinithi M Walpala
3:30-3:45	183	Synthesise of Activated Carbon Titanium Dioxide-Based Composite from Coconut Shell for Optimized and Cost-Effective Supercapacitors	Dananjaya K Bandara
	Panel Discussion		