

Global Conference on  
**Recent Advancements in Sustainable Materials**  
**(GC-RASM 2021)**

29-30, July 2021 | Mangalore, India | [www.gc-rasm.com](http://www.gc-rasm.com)

**Program Schedule**

Date	Time	Event
29.07.2021	09.30 am to 10.00 am	Inaugural Function
29.07.2021	10.00 am	<b>Keynote 1</b>
29.07.2021	10.45 am	<b>Keynote 2</b>
29.07.2021	11.30 am to 05.10 pm	Session: CH01(Online)
		Session : CE01(online)
		Session : CE02(online)
		Session : ME01(online)
		Session : ME02(online)
		Session : MSE01(online)
		Session : PH01(online)
		Session : PH02(online)
30.07.2021	10.45 am	<b>Keynote 3</b>
30.07.2021	11.30 am to 05.10 pm	Session : CH02(Online)
		Session : CE03(online)
		Session : CE04(online)
		Session : ME03(online)
		Session : ME04(online)
		Session : PH03(online)
		Session : PH04(online)
		Session : AME01(online)
30.07.2021	05.15 pm	Valedictory Function

CH - Applied Chemistry  
 CE - Civil Engineering  
 AME - Applied Mathematics & Electronics  
 MSE- Materials & Metallurgical Engineering

PH - Applied Physics  
 ME- Mechanical Engineering

**Note:**

1. Start time given above indicates Indian Standard Time (IST).
2. Presentation will be conducted using Google Meet.
3. Participants can join their respective sessions by clicking the meet link given
4. Mode of presentation should be powerpoint presentation(ppt or pptx)
5. Duration of presentation: 10 minutes (presentation) + 5 minutes(Queries)
6. Participant using Google Meet will be admitted at any time prior to their scheduled time.
7. Participants are requested to follow the scheduled time; especially regarding the time for your talk.
8. Participants are requested to contact the respective session In-Charges for presentation related queries.
9. If any problem connecting to session, please text to the respective session In-Charges (Or) GC-RASM Whatsapp group during presentation date(s).

**Session: CH01**

Date: 29.07.2021

Time: 11.30 am to 04.00 pm

Session In-charge: **Will be added**Session in-charge Contact Number: **Will be added**

Time	Paper ID	Paper Title
11.30 am	RASM 1009	A study on the photo stability of Basella Rubra (Pasalai fruit) Extract with Nano Flower Zinc Oxide
11.50 am	RASM 1031	Structural analysis of surprisingly formed Cu II cubane through the specific cleavage of >C=N- and >C-S- of a Schiff base ligand and its biological activities
12.10 pm	RASM 1045	Synthesis and Application of Benzodiazepine compounds as corrosion inhibitor for mild steel in acid media
12.30 pm	RASM 1091	Effect of oxidants and dopant on morphology, crystallinity and optical absorbance of nano structural polyindole
12.50 pm	RASM 1092	Advance Recovery Approach for Efficient Recovery of Waste Lubricating Oil by Different Material Formulations
02.00 pm	RASM 1093	Structural, Morphological and Optical Studies of CdSe Quantum Films Synthesized by Ultrasonic Vibration Assisted Drop-Casting Method
02.20 pm	RASM 1097	A simple method for the synthesis of anatase-rutile mixed phase TiO <sub>2</sub> using a simple precursor and higher visible-light photocatalytic activity of Co-doped TiO <sub>2</sub>
02.40 pm	RASM 2011	Multiobjective Optimization of Thermophysical Properties of Indonesian fly-ash nanofluid
03.00 pm	RASM 2026	Effect of Temperature on Yield and Nanostructure of Multiple Layers of Carbon Nanotubes
03.20 pm	RASM 2036	Synthesis and investigation of structural, morphological, thermal behaviour, and magnetic properties of CoFe <sub>2</sub> O <sub>4</sub> -MnO <sub>2</sub> nano-composite
03.40 pm	RASM 2044	Chromium Oxide Regulated Nanoparticles Biosynthesis in Manihot Esculenta Leaf Extract
04.00 pm	RASM 3012	Role of Critical Area in nanofiltration of fatty acids by polymer membrane

**Session: CE01**

Date: 29.07.2021

Time: 11.30 am to 04.50 pm

Session In-charge: **Will be added**Session in-charge Contact Number: **Will be added**

Time	Paper ID	Paper Title
11.30 am	RASM 1002	Recycling and Reclamation of MSW Using MRF Techniques in Madurai
11.50 am	RASM 1016	Biological material in self-healing of concrete
12.10 pm	RASM 1049	Response of Self-Compacting Concrete Beams under Varying Temperature
12.30 pm	RASM 1050	Development and Strength Assessment of Sustainable High Strength Fiber Reinforced Concrete
12.50 pm	RASM 1067	Studies on Computing Compressive Strength of Zeolite Blended Concrete Using Multiple regression Analysis
02.00 pm	RASM 1069	Performance of Ternary Blend SCC With Ground Granulated Blast Furnace Slag and Metakaolin
02.20 pm	RASM 1070	Study of Effect of Confinement in Lightweight Aggregate Concrete using GFRP Tubes
02.40 pm	RASM 1071	Enhanced Concrete Performance in Cracking Resistance and Chloride Penetration using Hybrid Fiber Blends
03.00 pm	RASM 2016	Buckling of functionally graded carbon nanotube reinforced composite cylindrical panel with a cutout under uniaxial compression
03.20 pm	RASM 2035	Profound probing of Groundnut Shell Ash (GSA) as Pozzolanic Material in making innovative sustainable construction material
03.40 pm	RASM 2041	Simulation of dynamic processes in earth dams under shock impacts
04.10 pm	RASM 2053	Experimental Evaluation of Sorptivity For High Strength Concrete Reinforced with Zirconia Rich Glass Fiber and Basalt Fiber
04.30 pm	RASM 2060	Modeling elastic-plastic strains in earth dams

**Session: CE02**

Date: 29.07.2021

Time: 11.30 am to 04.50 pm

Session In-charge: **Will be added**Session in-charge Contact Number: **Will be added**

Time	Paper ID	Paper Title
11.30 am	RASM 2067	Valorization of Soda Lime Glass in Cement Sand Matrix
11.50 am	RASM 2074	Enhancement on the Properties of Recycled Coarse Aggregate through Bio-deposition – An Experimental Study
12.10 pm	RASM 2081	Modelling of AOP removal of $\beta$ - blocker Atenolol from wastewater
12.30 pm	RASM 2082	Multiple approach to crash analysis toward battle robot under impact loads
12.50 pm	RASM 2084	Prediction of mechanical properties for Polyetheretherketone composite reinforced with Graphene and Titanium powder using Artificial Neural Network
02.00 pm	RASM 2090	Feasibility development of anchored geogrid for the enhancement of CBR value in weak subgrade soil
02.20 pm	RASM 3003	Design of an impact attenuator for passive safety on roads
02.40 pm	RASM 3029	Combined effect of metakaolin and hybrid fibers on the strength properties of high performance concrete
03.00 pm	RASM 3038	Durability of fly ash and silica fume based composite fiber reinforced high-performance concrete subjected to acid attack
03.20 pm	RASM 3049	Carbon Dioxide And GHG Emission Reduction by Utilization of Groundnut Husk Ash in Concrete
03.40 pm	RASM 3056	Recycled Substance Evaluation and Effect on Fire Resistance Structures
04.10 pm	RASM 3089	Evaluate the Optimum dosage of Nano Material on Self Sensing Properties for Nano Cement Composites
04.30 pm	RASM 4003	Comparative Study of Confining Reinforcement Used for the Rectangular Concrete Short Column

**Session: ME01**

Date: 29.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Will be added**Session in-charge Contact Number: **Will be added**

Time	Paper ID	Paper Title
11.30 am	RASM 1032	Numerical Simulation of Effect of Geometry, Material on Thermal Performance of Engine Cylinder Fins
11.50 am	RASM 1043	An analytical study on electroosmotic flow within a microchannel between two parallel plates without the Debye–Huckel approximation
12.10 pm	RASM 1044	Generation of Square Micropattern using Electrochemical Micromachining
12.30 pm	RASM 1047	Numerical Simulation of Savonius Rotors used for Low Wind Speed Application
12.50 pm	RASM 1086	An investigation on the performance and viability of a hybrid twisted blade profile for a Horizontal Axis Micro Wind Turbine
02.00 pm	RASM 2004	The Use of Entropy-Based GRA Approach to Analyze and Optimize the Wire Electrical Discharge Machining Process for Nitronic-30
02.20 pm	RASM 2019	Impact of Mach Number on the Flow Pattern in Suddenly Expanded Duct
02.40 pm	RASM 2030	An Investigation on Fatigue Behaviour of Bi-Directional Fibre Reinforced Polymer Nano Composite Using FEA Solver
03.00 pm	RASM 2031	Migration Induced Localization of Multiwalled Carbon Nanotubes in PP Phase of PP/ABS blend and their Hybrid Composites:Influence on Mechanical and Thermal Properties
03.20 pm	RASM 2032	Synthesis and characterization of acid treated reduced graphene oxide
03.40 pm	RASM 2040	Effect of Ethylene glycol mono acetate as an oxygenated fuel additive on emission and performance characteristics of diesel engine fueled with diesel-cottonseed biodiesel
04.10 pm	RASM 2043	Effect of different electrode angle as well as weld direction on the bead geometry of Submerged Arc Welding process
04.30 pm	RASM 2051	The effect of cutting fluid in improving the machinability of Inconel 718 using ceramic AS20 tool
04.50 pm	RASM 2054	Design of a 6 DOF robot manipulator for 3D printed construction

**Session: ME02**

Date: 29.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Will be added**Session in-charge Contact Number: **Will be added**

Time	Paper ID	Paper Title
11.30 am	RASM 2056	Lateral torsional buckling of steel beams strengthened by steel plate
11.50 am	RASM 2073	Significance of dynamic control on suddenly expanded flow when nozzles are over, under, and perfectly expanded
12.10 pm	RASM 2077	Emission control exploring the energy and exergy analysis for turbines of a 500MW coal-based conventional power plant
12.30 pm	RASM 2083	Experimental study on near-dry wire-cut electrical discharge machining of Inconel 718 alloy
12.50 pm	RASM 2086	Hydroelastic analysis of floating long viscoelastic plate in shallow water
02.00 pm	RASM 2093	Effect of water pressure and temperature on spherical float of level sensing auto drain valve
02.20 pm	RASM 2095	Effect of sawdust addition on the mechanical and water absorption properties of Banana-Sisal/Epoxy natural fiber composites
02.40 pm	RASM 3001	Design of a fixture for wire-cut EDM: a generic approach
03.00 pm	RASM 3015	CFD Study on the Effect of Nanofluids in Natural Circulation Loop With Side Heater
03.20 pm	RASM 3022	A Critical Study and Analysis of Process Parameters of Selective Laser Sintering Rapid Prototyping
03.40 pm	RASM 3041	Effect of particle damper technique on tribological properties during hard turning process
04.10 pm	RASM 3046	Bending Response Optimization of an Ionic Polymer-Metal Composite Actuator Using Orthogonal Array Method
04.30 pm	RASM 3053	Design of Multipurpose Mechanical Machine
04.50 pm	RASM 3055	Effect of SMAW Flux Composition on the Metallurgy of Welded Duplex Stainless Steel

**Session: MSE01**

Date: 29.07.2021

Time: 11.30 am to 04.40 pm

Session In-charge: **Will be added**Session in-charge Contact Number: **Will be added**

Time	Paper ID	Paper Title
11.30 am	RASM 1075	Exploring Potential of Glass Surface Immobilized Short Antimicrobial Peptide (AMP) as Antibacterial Coatings
11.50 am	RASM 1094	AHSS welding using undermatching filler wires and process advantages with P-GMAW
12.10 pm	RASM 2024	Designing a short, potent, pore-forming antimicrobial peptide
12.30 pm	RASM 2061	Effect of Filler Wire Strength on High Strength Low Alloy Steels
12.50 pm	RASM 2063	Pressure Dependent Chemical Changes Of Adsorbed Water In MIL-47 (V) By Raman Spectroscopy
02.00 pm	RASM 4012	Stabilization of Cr <sup>+6</sup> in Sodium Dichromate plant residue through Down Draft Sintering (DDS) technique and its application in manufacture of building bricks
02.20 pm	RASM 4033	A simplified bibliometric mapping and analysis about sustainable polymers
02.40 pm	RASM 4042	Mechanochemical Synthesis and Microstructural Characterisation of CaTiO <sub>3</sub> Powders
03.00 pm	RASM 4071	Dielectric Properties of Steel Melting Shop (SMS) Slag
03.20 pm	RASM 5059	Influence of Fibers Hybridization on the Tensile and Flexural Properties of Hemp/Bagasse Reinforced Poly-lactic Acid (PLA)
03.40 pm	RASM 6026	Comparative assessment and statistical data of admixed rosemary and castor oil on the corrosion inhibition of high carbon and P4 low carbon mold steels
04.00 pm	RASM 6027	Comparative data on the protection performance of celery, pomegranate and green tea distillates on mild steel in weak H <sub>2</sub> SO <sub>4</sub> solution
04.20 pm	RASM 5086	Effect of Wave Shift of Porous Slab on Thermo-Hydraulic Transport Characteristics of Laminar Flow Through a Wavy Channel



**Session: PH01**

Date: 29.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Will be added**Session in-charge Contact Number: **Will be added**

Time	Paper ID	Paper Title
11.30 am	RASM 1011	Polyaniline-CuO Nanocomposite: Electrical, Structural and Sensor Properties
11.50 am	RASM 1036	Conducting polyaniline doped with zinc tungstate matrix film as gas sensing composite
12.10 pm	RASM 1048	Theoretical investigation of, ferroelectric Phase transition, and Tangent delta in CsH <sub>2</sub> AsO <sub>4</sub> (CDA) crystal
12.30 pm	RASM 1055	Synthesis of Marigold-like ZnIn <sub>2</sub> S <sub>4</sub> Microspheres at Low-Temperature
12.50 pm	RASM 1058	Vegetative voltaic cell from ethanolic leaf extract from Prosopis juliflora plant
02.00 pm	RASM 1061	X-ray Structure of 4-Aminopyridinium-Oxalate-Oxalic acid-Hydrate (1/1/0.5/0.5) And Its Characterization
02.20 pm	RASM 1063	Investigation of Dielectric properties and Ferroelectric phase transition in lead-free AgNbO <sub>3</sub>
02.40 pm	RASM 1072	Optical and Upconversion Properties of Bismuth Tellurite Glasses Co-doped With Er <sup>+3</sup> -Yb <sup>+3</sup> Ions
03.00 pm	RASM 1076	Excess Thermodynamic Properties of Binary Liquid Mixture at Different Temperature
03.20 pm	RASM 1082	Ultrasonic Study of Molecular Interactions in Organic Liquid with CCl <sub>4</sub> at Different Temperature
03.40 pm	RASM 1088	Preparation of UV, LASER and white light sensitive conducting polymer poly (3, 4-ethylenedioxythiophene) "PEDOT" nanoparticles
04.10 pm	RASM 1090	Effycacy Of Photoluminescenes And Magnetic Behavior Of Ce Doped ZnO Nanoparticles By Solid State Reaction Method
04.30 pm	RASM 1098	Third order measurements, Thermal and Mechanical Stress Tolerance Studies of a Nonlinear Borate Family hybrid crystal towards Optoelectronic Applications
04.50 pm	RASM 2001	Experimental investigations on the beta attenuation properties of lead monoxide – polycarbonate composite films.

**Session: PH02**

Date: 29.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Will be added**Session in-charge Contact Number: **Will be added**

Time	Paper ID	Paper Title
11.30 am	RASM 2007	Thermal and optoelectrical properties of cobalt doped and undoped strontium L(+) tartrate pentahydrate single crystals
11.50 am	RASM 2008	Magnetic Susceptibility and frequency dependence ac conductivity of PPY/PANI/V <sub>2</sub> O <sub>5</sub> nanosheets
12.10 pm	RASM 2015	Spectroscopic studies of Transition metal ion-doped borate glasses for optical applications
12.30 pm	RASM 2025	Enhanced Properties of Zn <sup>2+</sup> Substituted Cr <sub>2</sub> O <sub>3</sub> Nanoparticles In Escalating The Distillate Yield Of Acrylic Pyramid Solar Still
12.50 pm	RASM 2029	Imidazole added Sulphamic Acid Single Crystals with Optimal Properties for Optoelectric Devices
02.00 pm	RASM 2034	Structural and Spectroscopic Analysis of Pure Phase Hexagonal Wurtzite ZnO Nanoparticles Synthesized by Sol-Gel
02.20 pm	RASM 2039	One-pot hydrothermal synthesis of polypyrrole/Fe <sub>2</sub> O <sub>3</sub> nano-seeds for energy storage application
02.40 pm	RASM 2042	Effect on Lotus leaf for Dielectric Applications
03.00 pm	RASM 2048	Structural and morphological properties of bismuth telluride nanoparticles synthesized by two-step hydrothermal method
03.20 pm	RASM 2058	Melting phenomena of Cu <sub>0.25</sub> Ni <sub>0.75</sub> bimetallic alloy: A Molecular Dynamics Approach
03.40 pm	RASM 2066	Synthesis and characterization of Manganese doping on NiO nanoparticles and its supercapacitor applications
04.10 pm	RASM 2069	Ion transport property studies of a new TiO <sub>2</sub> dispersed Na <sup>+</sup> ion conducting nanocomposite polymer electrolytes
04.30 pm	RASM 2075	Factors influencing mobility in ITO thin films and the consequent effects on optical and NIR surface plasmon resonance properties
04.50 pm	RASM 2080	RF-sputtered V <sub>2</sub> O <sub>5</sub> thin films on two different glass substrates

**Session: CH02**

Date: 30.07.2021

Time: 11.30 am to 04.30 pm

Session In-charge: **Will be added**Session in-charge Contact Number: **Will be added**

Time	Paper ID	Paper Title
11.30 am	RASM 3014	Investigation on Solid State Pyrolytic Decomposition of Bimetallic Fumarate and Tartrate Precursors of Co (II), Ni (II) and Zn (II) with Manganese
11.50 am	RASM 1009	A study on the photo stability of Basella Rubra (Pasalai fruit) Extract with Nano Flower Zinc Oxide
12.10 pm	RASM 3068	Influence of Cu <sup>2+</sup> substitution on structural and optical properties of Mg-Zn ferrite nanoparticles
12.30 pm	RASM 3071	Evaluation of solvent transport and cure characteristics of chlorobutyl rubber graphene oxide nanocomposites
12.50 pm	RASM 4002	Synthesis, Single Crystal X Ray Diffraction analysis and thermogravimetric studies of a novel Cu (II) based metal organic frame work from Isophthalate and Pyridine linkers
02.00 pm	RASM 4004	Synthesis characterization DC conductivity and EMI shielding studies of Iron-decorated Polypyrrole-fly ash nanocomposites
02.20 pm	RASM 4021	Peroral delivery of risedronate sodium for treatment of osteoporosis
02.40 pm	RASM 4023	Development of Green Geo-Adsorbent Pellets from Low Fire Clay for Possible Use in Methylene Blue Removal in Aquaculture
03.00 pm	RASM 4082	In Vitro Study of Green Synthesized ZnO Nanoparticles on Human Lung Cancer Cell Lines
03.20 pm	RASM 5070	Four-parameter model for the thermodynamic and microscopic properties of AlCu liquid alloys at 1373 K
03.40 pm	RASM 5083	Anti-bacterial and anticancer activities of Quinoxaline-2-carbohydrazide-N-oxide compounds
04.10 pm	RASM 5092	Preparation and characterization of Caprine bone derived mineral substituted Hydroxyapatite/ Phyllanthus acidus extract for biomedical applications

**Session: CE03**

Date: 30.07.2021

Time: 11.30 am to 04.30 pm

Session In-charge: **Will be added**Session in-charge Contact Number: **Will be added**

Time	Paper ID	Paper Title
11.30 am	RASM 4005	The combined effect of GGBS and low volume fibres on the low-velocity impact and mechanical properties of Self-compacting concrete
11.50 am	RASM 4006	Arriving the Suitability of Polyethylene Wastes in Flexible Pavements: An Experimental Approach
12.10 pm	RASM 4010	Temperature Stresses in Functionally Graded (FGM) Material Plates using Deformation Theory – Analytical Approach
12.30 pm	RASM 4024	Flexural Shear Behavior of FRHSC Beams with Fibers only in Shear Span
12.50 pm	RASM 4069	Investigating the Performance of Self-Compacting Concrete Pavement Containing GGBS
02.00 pm	RASM 4086	Effect of PCB as partial replacement of fine aggregate and coarse aggregate in concrete
02.20 pm	RASM 4088	Finite Element Analysis of Polymeric and Cementitious materials to secure Cracks in concrete
02.40 pm	RASM 4093	Stabilization of Soil Nailed Slope by Flexible Facing
03.00 pm	RASM 4095	Modelling the Hardened Properties of Steel Fiber Reinforced Concrete using ANN
03.20 pm	RASM 5002	Evaluation of Strength Parameters of Ultra-Fine Flyash and Nanosilica Incorporated High-Performance Concrete
03.40 pm	RASM 5006	Comparative study of various flexible facing materials for soil nailed slopes
04.10 pm	RASM 5007	Assessment of Asphalt Binder and Mixes Modified with Zycotherm and Sulphur

**Session: CE04**

Date: 30.07.2021

Time: 11.30 am to 04.30 pm

Session In-charge: **Will be added**Session in-charge Contact Number: **Will be added**

<b>Time</b>	<b>Paper ID</b>	<b>Paper Title</b>
11.30 am	RASM 5012	Evaluation of Cerium Oxide Nanoparticle as Corrosion Inhibitor for Mild Steel
11.50 am	RASM 5027	Influence of Glass Powder and Hydrated Lime on Strength Properties of Concrete
12.10 pm	RASM 5033	Development of Pavement Quality Concrete with SCM's, Fibers and Graphite
12.30 pm	RASM 5046	Experimental investigation on strength properties of high performance concrete produced using artificial and natural sand
12.50 pm	RASM 5053	Incinerated municipal solid waste bottom ash bricks: a sustainable and cost-efficient building material
02.00 pm	RASM 5055	Effect of Elevated Temperature on Stress-Strain Behaviour of Self-Compacting Concrete
02.20 pm	RASM 5075	Fly-Ash Conjoined Ground Granulated Blast Furnace Slag Proxy for Fresh and Hardened Responses
02.40 pm	RASM 5085	Studies on Usage of Natural Fibers and Eco Sand for Sustainable Concreting
03.00 pm	RASM 7003	3D Concrete Printing Matrix Reinforced with Geogrid
03.20 pm	RASM 7005	Experimental Study on Light Weight Panel using Phosphogypsum
03.40 pm	RASM 7006	Utilization of Plastic Waste and ProsopisJuliflora Ash in Making Floor Tiles
04.10 pm	RASM 7007	Study on Properties of Bio-Bricks

**Session: ME03**

Date: 30.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Will be added**Session in-charge Contact Number: **Will be added**

Time	Paper ID	Paper Title
11.30 am	RASM 3061	Experimental investigations of wire lag phenomena on wire electrical discharge machining of M2 tool steel
11.50 am	RASM 3063	Microstructure evolution and phase transformation of ZrB <sub>2</sub> -ZrO <sub>2</sub> -MoSi <sub>2</sub> -Al coating during annealing treatment
12.10 pm	RASM 3067	Experimental comparative study of banana fiber composite with glass fiber composite material using Taguchi method
12.30 pm	RASM 3069	Effect of CNT content on microstructure and hardness of AlSi/MWCNT Nano composite
12.50 pm	RASM 3076	Force Transmissibility of the Viscoelastic Material Used as Vibration Isolation in Power Loom
02.00 pm	RASM 3095	Mathematical modeling of various forces acting on piston rod packing rings and determining its basics dimensions
02.20 pm	RASM 4001	Tribological Analysis of Al-Si alloy based MMCs at Elevated Temperature
02.40 pm	RASM 4019	Evaluation of Normalized Thickness Variation of Superplastic Cone Forming
03.00 pm	RASM 4036	Experimental Investigation on Compression Strength of EPOXY/PVC Blend with Different Fibre Glass Reinforcements Using Taguchi's L 27 Orthogonal Array
03.20 pm	RASM 4043	Experimental Investigations on triple concentric tube heat Exchanger
03.40 pm	RASM 4046	Numerical Study of Fluid Flow and Heat Transfer for Flow of Cu-Al <sub>2</sub> O <sub>3</sub> -Water Hybrid Nanofluid in a Microchannel Heat Sink
04.10 pm	RASM 4049	Optimization of cutting forces and tool-tip temperature in turning of nickel-based superalloy using FE simulation
04.30 pm	RASM 4051	Acoustic emission test method for investigation of M250 maraging steel pressure vessels for aerospace applications
04.50 pm	RASM 4053	Analysis and Optimization of Nozzle Distance during Turning of EN-31 Steel Using Minimum Quantity Lubrication

**Session: ME04**

Date: 30.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Will be added**Session in-charge Contact Number: **Will be added**

Time	Paper ID	Paper Title
11.30 am	RASM 4075	Trajectory Features and Energy Dissipation of Conventional and Modified (Deflector) Ski-Jump Bucket
11.50 am	RASM 4080	Comparative Analysis of Drop Impact Resistance for Different Polymer Based Materials Used for Hearing Aid Casing
12.10 pm	RASM 5018	Tensile Behavior of Pre-Stress Corroded and Post Hydrogen Embrittled Spring Steel
12.30 pm	RASM 5021	Experimental study on the stability and flame characteristics of LPG flames in O <sub>2</sub> /N <sub>2</sub> and O <sub>2</sub> /CO <sub>2</sub> environment
12.50 pm	RASM 5032	Performance assessment of valve regulated lead acid battery for E-bike in field test
02.00 pm	RASM 5034	Comparative modal analysis of cantilever beam made of biocomposites using finite element analysis
02.20 pm	RASM 5040	Effect of hydrogen flow rates on the performance of two biodiesels fuelled dual fuel engine
02.40 pm	RASM 5056	Environmentally Assisted Fracture Behavior of Edge and Corner Notched Spring Steel
03.00 pm	RASM 5072	Effect of injection timing on the performance of Ceiba Pentandra biodiesel powered dual fuel engine
03.20 pm	RASM 5089	Design optimization of strain gauge mounting cross section length of strain gauge balance component for wind tunnel application
03.40 pm	RASM 5090	Artificial neural network modelling for average surface roughness in citrate stabilized electroless nickel boron coatings
04.10 pm	RASM 7001	Dislocation and Deformation Analysis of Cu-Ni Thin Films during Nanoindentation using Molecular Dynamics Simulation Approach
04.30 pm	RASM 7002	Experimental Analysis on Roof Construction
04.50 pm	RASM 7008	Experimental Study of Single Bed Prototype adsorption Refrigeration Unit Using Low Grade Heat Energy

**Session: PH03**

Date: 30.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Will be added**Session in-charge Contact Number: **Will be added**

Time	Paper ID	Paper Title
11.30 am	RASM 2087	Nanostructure Wrinkle Thin Films on Flexible Substrate: Tunable Optical Properties
11.50 am	RASM 2088	Investigation of DFT on the structural and electronic properties of silicene nanoribbons when adsorption of Li, H, Fe
12.10 pm	RASM 2091	Structural characterization and investigation of magneto-optic and multiferroic properties of nanostructured $\text{CoFe}_2\text{O}_4$ prepared by sol-gel derived facile chemical route
12.30 pm	RASM 3008	Honey Based Hydrogel as Delivery System for Wound Healing
12.50 pm	RASM 3016	Optimum Utilization of Ceramic Tile Waste for Enhancing Concrete Properties
02.00 pm	RASM 3024	UV-Vis absorption Spectroscopic Analysis of Oxyhalide Glass System
02.20 pm	RASM 3028	Theoretical investigation, of Cochran's mode frequency, and electrical permittivity of $\text{KH}_2\text{AsO}_4$ (KDA) crystal by using Zuberav's statistical Green function technique
02.40 pm	RASM 3040	DSSC using <i>Wrightia tinctoria</i> (Roxb.) R Br.: A TRIAL
03.00 pm	RASM 3047	Thiourea doped $\text{TiO}_2$ : Structural, Optical and Electrochemical Properties
03.20 pm	RASM 3051	Angular Dependence of Localized Mode of Chalcogenide Photonic Crystal
03.40 pm	RASM 3052	Theoretical study on various contributions to the magnetization of $\text{Pb}_{1-x}\text{Eu}_x\text{Se}$
04.10 pm	RASM 3060	Structural, Morphological and Electrical Properties of PVA/Au Nanocomposite Films
04.30 pm	RASM 3096	Investigation of structural and electrical properties of nickel chloride doped Pyrrole Aniline Copolymer
04.50 pm	RASM 4014	Study of Structural and Electrochemical Properties of Ilmenite ( $\text{FeTiO}_3$ ) doped $\text{TiO}_2$



**Session: PH04**

Date: 30.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Will be added**Session in-charge Contact Number: **Will be added**

Time	Paper ID	Paper Title
11.30 am	RASM 4018	Low temperature synthesis and influence of Ce 3+ substitution on structural and magnetic properties of nanocrystalline cobalt ferrite using citrate precursor sol-gel method
11.50 am	RASM 4025	Parametric amplification of acoustical phonons in semiconductor magneto-plasmas: quantum effects
12.10 pm	RASM 4038	Green Synthesis of ZnO and CuO NPs using Ficus benghalensis Leaf Extract and their Comparative study for Electrode Materials for High performance Supercapacitor Application
12.30 pm	RASM 4040	Steady-state and transient Raman gain coefficients of weakly-polar magnetoactive doped semiconductors
12.50 pm	RASM 4083	Preparation, Characterization of SF- HPMC blend films and SF microparticles
02.00 pm	RASM 4091	Elastic and mechanical properties of titanium diboride under high pressure
02.20 pm	RASM 5025	Analysis of the thermoluminescence glow curve of CaSO <sub>4</sub> :Dy phosphor by simplified general One Trap Differential equation.
02.40 pm	RASM 5028	Nanocrystalline ceramic oxide CaBiNbO <sub>6</sub> - An optically active material
03.00 pm	RASM 5045	Combustion Synthesis and Luminescence Characterization of Dy <sup>3+</sup> Activated Li <sub>2</sub> Sr <sub>2</sub> Al <sub>2</sub> PO <sub>4</sub> F <sub>9</sub> Phosphor
03.20 pm	RASM 5047	Symmetries in the properties of mixing of AgCu liquid alloys at 1423 K
03.40 pm	RASM 5061	Influence of the properties of p-a-Si:H layer and the work function of front contact on silicon heterojunction solar cell performance
04.10 pm	RASM 5069	Synthesis and luminescence properties of Ce <sup>3+</sup> doped (Sr, Ba) <sub>2</sub> GeO <sub>4</sub> phosphors
04.30 pm	RASM 5076	Structural, optical and Magnetic properties of Yttrium Aluminium Bromate (YAB) nanomaterial, prepared by low cost sol-gel chemical method
04.50 pm	RASM 5082	Structural and Electrical Investigation of 'Bi' doped SmFeO <sub>3</sub> -BaTiO <sub>3</sub> perovskite system

**Session: AME01**

Date: 30.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Will be added**Session in-charge Contact Number: **Will be added**

Time	Paper ID	Paper Title
11.30 am	RASM 2023	Stability Issues And Mitigating Techniques In The AC Grid System
11.50 am	RASM 2028	Robustness Evaluation of sub-22nm FinFETs Electrical Characteristics Affected by Physical Variability
12.10 pm	RASM 2059	Study of radiation shielding materials on Microstrip Patch Antenna for sustainability
12.30 pm	RASM 2068	Configuration of phosphorus doping in silicene nanoribbons in the presence of an external electric field
12.50 pm	RASM 3021	Analysis of Hybrid Tandem Solar Cell using Neural Network
02.00 pm	RASM 4016	Development of an Ammonia gas sensor employing an inter-digital capacitive structure coated with Mn <sub>0.5</sub> Zn <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> nano-composite
02.20 pm	RASM 4060	Novel graphene-based OPFET for optoelectronic applications
02.40 pm	RASM 2099	Bipolar Intuitionistic Fuzzy Soft Expert Score Functions
03.00 pm	RASM 3026	Multiple Slips and Heat Source Effects on Mhd Stagnation Point Flow of Casson Fluid Over a Stretching Sheet in the Presence of Chemical Reaction
03.20 pm	RASM 3037	Characteristics Of Mhd Casson Fluid Past An Inclined Vertical Porous Plate
03.40 pm	RASM 3043	Free vibrations of rigidly fixed electro-magneto non-local generalized thermoelastic cylinder with voids material
04.10 pm	RASM 4090	Numerically approach for enhanced mass transfer of Bio-convection on Magneto-hydrodynamic Carreau fluid flow through a nonlinear stretching surface
04.30 pm	RASM 5009	Effects of Crack Location and Depths for an Iron Bar: A Finite Element approach
04.50 pm	RASM 2099	Bipolar Intuitionistic Fuzzy Soft Expert Score Functions