2nd International Conference on Nanoscience and Nanotechnology (ICONN) Nov.1-2, 2019

Lahore University of Management Sciences (LUMS) Lahore 54792, Pakistan

Day - 1 (November 1, 2019)	
8:00 am to 9:00 am	Reception and Registration
Inquagration	
Inauguration	
9:00 am to 9:05 am	ICONN Introduction (Irshad Hussain, Principal Organizer, ICONN-19)
9:05 am to 9:10 am	Welcome address (Shahid Masud, Dean SBASSE, LUMS)
9:10 am to 9:15 am	Nanotechnology status in Pakistan (N. M. Butt (SI), Fellow, Pakistan Academy of Sciences (PAS))
9:15 am to 9:25 am	Inaugural address (Syed Babar Ali, Founder & former Pro-Chancellor of LUMS)
Session – I Biomedical applications of nanomaterials Chair: N.M. Butt Co-Chair: Arshad Hussain	
9:30 am to 10:00 am	The nanotechnology gold rush Mathias Brust (University of Liverpool, UK)
10:00 am to 10:30 am	Sequence-specific "Peptoids" for bionano science and engineering K. H. Aaron Lau (Strathclyde University, Glasgow, UK)
10:30 am to 10:50 am	Multi-dimensional materials in health-related applications Najam-ul-Haq (Bahauddin Zakariya University, Multan)
10:50 am to 11:05 am	Tea break

Session – II Biomedical applications of nanomaterials Chair: Arshad Saleem Bhatti Co-Chair: Najam-ul-Haq	
11:05 am to 11:25am	Smart surfaces and drug delivery systems Basit Yameen (Lahore University of Management Sciences, LUMS)
11:25 am to 11:45 am	Metallic nanoparticles and de-oxy sugar containing pro- angiogenic synthetic grafts to accelerate healing in burns and diabetic foot ulcer wounds
	Muhammad Yar (COMSATS University Islamabad, Lahore campus)
11:45 am to 12:00 pm	TiO₂ based nanocomposite hydrogel for solar disinfection Anam Safri (Strathclyde University, Glasgow, UK)

12:00 pm to 12:15 pm	The use of gold nanoparticles as novel photodynamic cancer therapy sensitizers
	Matthew Broadbent (University of Liverpool)
12:15 pm to 12:30 pm	Chiral metamaterials for biological sensing: The role of optical chirality and interference
	Cameron Gilroy (University of Glasgow, UK)
12:30 pm to 12:45 pm	In-vitro and in-vivo characterization of PVA/Starch/g-C ₃ N ₄ /Ag-TiO ₂ nanocomposite hydrogel membranes for wound dressings Arooj Ahmed (National University of Science and Technology)
12:45 pm to 2:30 pm	Lunch Break

Session – III Nanomaterials for renewable energy technologies Chair: Walther Schwarzacher Co-Chair: Zakir Hussain	
2:30 pm to 3:00 pm	Nanotechnology: key to synthetic fuels for a sustainable energy transition Asif Ansar (German Aerospace Center, Germany)
3:00 pm to 3:20 pm	Tailoring and tuning of optical properties of wide band gap semiconductor nanostructures Arshad Saleem Bhatti (COMSATS University Islamabad)
3:20 pm to 3:40 pm	Fused ring small molecule acceptors for high-performance fullerene-free polymer solar cells Raja Shahid Ashraf (Government College University Lahore)
3:40 pm to 4:00 pm	Advanced functional nanoscale materials: Thin-films, electrocatalysis, solar and chemical energy conversion applications Khurram S. Joya (King Fahd University of Petroleum and Minerals, KSA)
4:00 pm to 4:15 pm	Tuning metal chalcogenide molecular catalysts for the hydrogen evolution reaction: Electronic effects and mechanistic insights James McAllister (University of Glasgow, UK)
4:15 pm to 4:30 pm	Controlled development of electrode materials for water splitting Akhtar Munir (Lahore University of Management Sciences)
4:30 pm to 6:00 pm	Tea and Poster session
7:00 pm to 10:00 pm	Cultural night

Day - 2 (November 2, 2019)

8:00 am to 8:30 am Registration

Session – IV Synthesis, characterization and properties of nanomaterials	
Chair: Mathias Brust	Co-Chair: Asif Ansar
8:30 am to 9:00 am	Classical nucleation theory and electrodeposition
	Walther Schwarzacher (University of Bristol, UK)
9:00 am to 9:20 am	Magneto-optics of 2D materials
9:00 am to 9:20 am	Sabieh Anwar (Lahore University of Management Sciences)
0:20 am to 0:40 am	Inorganic materials for electrochemical and catalysis applications
9:20 am to 9:40 am	Manzar Sohail (National University of Science and Technology)
9:40 am to 10:00 am	Fabrication of triboelectric nanogenerators using template assisted synthesis
	Ajab K. Kasi (University of Balochistan, Quetta)
10:00 am to 10:15 am	Long wavelength lattice dynamics in morphotropic PbZr _x Ti _{1-x} O ₃ : the road to large scale electronic structure calculations Jack Baker (University College London, London, UK)
10:15 am to 10:30 am	First principles modeling of anisotropic thermoelectric materials Alban d'Harcourt (University of York, UK)
10:30 am to 10:45 am	• •
	Faroha Liaqat (Quaid-i-Azam University, Islamabad)
10:45 am to 11:00 am	Tea break

Session –V Synthesis, characterization and properties of nanomaterials Chair: Bien Tan Co-Chair: Shahab-ud-Din Memon	
11:00 am to 11:30 am	The effect of confinement on the crystallization of soft materials Hatice Duran (TOBB University of Economics and Technology, Turkey)
11:30 am to 11:50 am	Synthesis of ion-channels: Ideal candidates for the drug delivery systems
	Raza Shah (HEJ Research Institute of Chemistry, International Center for Chemical and Biological Sciences (ICCBS), University of Karachi)
11:50 am to 12:10 pm	The role of calixarenes as nanorobotics in material science
	Shahab-ud-Din Memon (Center of Excellence in Analytical Chemistry, University of Sindh, Jamshoro)
12:10 pm to 12:30 pm	Graphene and other 2D materials: Fabrication & applications Rashid Jalil (University of Engineering and Technology, Lahore)

12:30 pm to 12:45 pm	Real time STM tip state recognition using neural networks Oliver Gordon (University of Nottingham, UK)
12:45 pm to 1:00 pm	Nano-colloids to understand the nature of the glass transition
	Levke Ortlieb (University of Bristol, UK)
1:00 pm to 2:00 pm	Lunch break

Session – VI Environmental applications of nanomaterials Chair: Raza Shah Co-Chair: Hatice Duran	
2:00 pm to 2:30 pm	Porous hypercrosslinked polymer-TiO ₂ -graphene photocatalysts for visible-light-driven CO ₂ conversion
	Bien Tan (Huazhong University of Science and Technology (HUST), Wuhan, China)
2:30 pm to 2:50 pm	Carbon dioxide capture from methane using mixed matrix membranes Arshad Hussain (National University of Science and Technology, Islamabad)
2:50 pm to 3:10 pm	BioSurfactant stabilised nanomaterials – antimicrobial, cytotoxic activity Mohammed Yaseen (University of the West of Scotland, UK)
3:10 pm to 3:30 pm	Emerging 2D-Mxene and black TiO ₂ nanomaterials and their potential for environmental applications
	Waheed Khan (National Institute of Biotechnology and Genetic Engineering (NIBGE), Faisalabad)
3:30 pm to 3:50 pm	Applications of multinary metal oxides nanocomposites M. Akhyar Farrukh (Forman Christian College, Lahore)
3:50 pm to 4:10 pm	Mesoporous zirconia nanostructures (MZN) for excellent adsorption of As(III) and As(V) from aqueous solutions Khurram Shehzad (University of Science and Technology of China, China)
4:10 pm to 4:40 pm	Closing ceremony and refreshments