

VIRTUAL EVENT

**4TH EDITION OF
ADVANCED
CHEMISTRY
WORLD
CONGRESS**

**MARCH 28
2023**

Theme:

Chemical advances and new technologies that solve global problems including energy, urbanisation to environment and human health; current trends and future research prospects in chemistry and beyond

ADV. CHEMISTRY 2023

<https://advanced-chemistry.peersalleyconferences.com/>

Scientific Program

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GMT-Greenwich Mean Time

07:45-08:00 Opening Ceremony

Distinguished Speaker Talks

Sessions: Analytical Chemistry | Agricultural Chemistry | Biochemistry | Chemistry of Transition Elements | Chemical Engineering | Electrochemistry | Environmental Chemistry | Food Chemistry | Forensic Chemistry | Geochemistry | Green Chemistry | Industrial Chemistry | Inorganic Chemistry | Materials Science | Medicinal Chemistry | Metallurgy | Molecular biology | Natural Product | Neurochemistry | Organic Chemistry | Petrochemistry | Physical Chemistry | Polymer Chemistry

08:00-08:20 **Title: Ethics on the soil: She is a living substance**
Katsuyuki Minami, *Kitasato University, Japan*

08:20-08:40 **Title: Magnesium production in China and the process optimization**
Daxue Fu, *Northeastern University, China*

08:40-09:00 **Title: Novel therapeutic potential of the anti-cancer drug BIBR1532 in ischemic stroke**
Chi Kwan Tsang, *The First Affiliated Hospital of Jinan University, China*

09:00-09:20 **Title: Recent advances of magnetic gold hybrids and nanocomposites, and their potential biological applications**
Mirza Muhammad Faran Ashraf Baig, *The Hong Kong University of Science and Technology, China*

09:20-09:40 **Title: Free of cost energy conservation through behavioural training: An Indian perspective**
Ali Shaikh Shamsar, *Energy Conservation Project Management, India*

09:40-10:00	<p>Title: Autoclave and pulsed low frequency ultrasound cavitation based thermal activation of persulfate for regeneration of hydrogen titanate nanotubes as recyclable dye adsorbent</p> <p>Satyajit Shukla, <i>CSIR-National Institute for Interdisciplinary Science and Technology (NIIST), India</i></p>
10:00-10:20	<p>Title: Anticancer potency of N(4)-ring incorporated-5-methoxyisatin thiosemicarbazones</p> <p>Paras Nath Yadav, <i>Tribhuvan University, Nepal</i></p>
10:20-10:40	<p>Title: Simulations of liquid chromatography using two-dimensional non-equilibrium lumped kinetic model with Bi-Langmuir Isotherm</p> <p>Sadia Perveen Ahsan, <i>Air University, Pakistan</i></p>
10:40-11:00	<p>Title: Electrochemical sensing by novel copper oxide nanostructures</p> <p>Rupali Nagar, <i>Symbiosis Institute of Technology, India</i></p>
11:00-11:20	<p>Title: Safety culture in Sri Lankan industrial chemical laboratories</p> <p>Udaya K Jayasundara, <i>Institute of Chemistry Ceylon, Sri Lanka</i></p>
Refreshment Break 11:20-11:30	
11:30-11:50	<p>Title: Soft X-ray emission in plasma focus device</p> <p>Hadi Barati, <i>Amirkabir University of Technology, Iran</i></p>
11:50-12:10	<p>Title: A new ant algorithmic approach for solving PFSP</p> <p>Shahriar Farahmand Rad, <i>Payame Noor University, Iran</i></p>
12:10-12:30	<p>Title: Application of nanotechnology to monitor agricultural parameters that promote health and nutritional crop growth in order to provide sustainable economic growth in Aatma Nirbhar Bharat</p> <p>Sumanta Bhattacharya, <i>Maulana Abul Kalam Azad University of Technology, India</i></p>

12:30-12:50	<p>Title: Absorption spectra of dissolved oxygen molecules in aerated solvents. A review of laser activation experiments Alexander Krasnovsky Jr., <i>Federal Center of Biotechnology Russian Academy of Science, Russian Federation</i></p>
12:50-13:10	<p>Title: Locus of chemical reactions domains in the freely falling drop impact flow Yuli D. Chashechkin, <i>Ishlinsky Institute for Problems in Mechanics RAS, Russia</i></p>
Lunch Break 13:10-13:40	
13:40-14:00	<p>Title: The relationship between the efficiency of energy conversion, fertility and the presence of branched ears as indicators for the determination of the optimal dosage for disease resistance mutation breeding when gamma irradiation is applied to kernels of <i>Triticum aestivum</i> L. Eben von Well, <i>ARC-Small Grain Institute, South Africa</i></p>
14:00-14:20	<p>Title: Spectroscopic features of NH-tautomers of the free base corroles Yousef H. Ajeeb, <i>Modern University for Business and Science, Lebanon</i></p>
14:20-14:40	<p>Title: High-temperature hydrogen attack on 2.25Cr-1Mo Steel: The roles of residual carbon, initial microstructure and carbide stability Mohammed Alshahrani, <i>Saudi Aramco Research and Development Centre, Saudi Arabia</i></p>
14:40-15:00	<p>Title: Economic performance of certified cocoa-based agro-forestry systems in Cameroon Ngoucheme Rene, <i>Institute of Agricultural Research for Development (IRAD), Cameroon</i></p>
15:00-15:20	<p>Title: Carbon and nutrient cycling in tree plantations vs. natural forests: Implication for an efficient cocoa agroforestry system in West Africa Michel K. Yao, <i>Université Nangui Abrogoua, Côte d'Ivoire</i></p>
15:20-15:40	<p>Title: Phosphogypsum as secondary resource in the circular economy Katarzyna Kiegiel, <i>Institute of Nuclear Chemistry and Technology, Poland</i></p>

15:40-16:00

Title: Tunable polycationic organohalloysite electrocatalyst
Francis Merlin Melatagua Tchieno, *Leibniz Institute for Solid State and Materials Research (IFW Dresden), Germany*

Refreshment Break 16:00-16:10

16:10-16:30

Title: Optimization of essential oils yield extracted from *Curcuma longa* residue through solid state fermentation
Sylvie Nguikwie Kwanga, *University of Douala, Cameroon*

16:30-16:50

Title: Improved surface morphology and corrosion resistance performance of 2205 duplex stainless steel by low temperature gas nitriding
Nsikan Etim Dan, *Federal University of Technology Owerri, Nigeria*

16:50-17:10

Title: Healthy humans can be a source of antibodies countering COVID-19
Antonietta M. (Mietta) Lillo, *Los Alamos National Laboratory, USA*

17:10-17:30

Title: Peukert generalized equations with due consideration of internal resistance of automotive-grade lithium-ion batteries for their capacity evaluation
Nataliya Nikolaevna Yazvinskaya, *Don State Technical University, Russia*

17:30-17:50

Title: Quantum-classical mechanics: Principles, applications and prospects
Vladimir V. Egorov, *FSRC Crystallography and Photonics, Russia*

17:50-18:00

Title: Quantification of kinetic rate constants of oxygen reduction reaction pathways over Pt-free electrocatalysts and its application in Tafel slope evaluation
Yun Wu, *Guangdong University of Petrochemical Technology, China*

18:00-18:10

Title: Mercury prediction in groundwater of Naameh Landfill (Lebanon) using an Artificial Neural Network (ANN) model
Farah Kanj, *Lebanese University, Lebanon*

Panel Discussions

Closing Remarks





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YOUR DATES**

**5TH ADVANCED
CHEMISTRY
WORLD CONGRESS**

March 2024 | Amsterdam, Netherlands

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