



# **In-Person Conference**

## **Program-At-A-Glance**

**Peers Alley Media**

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Vancouver BC, Canada



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Peers Alley Media

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[www.peersalleyconferences.com](http://www.peersalleyconferences.com)

MARCH 21-22  
**2022**  
London, UK

**JOINT EVENT**

**ADVANCED MATERIALS  
SCIENCE WORLD  
CONGRESS  
&  
ADVANCED CHEMISTRY  
WORLD CONGRESS**

**Scientific Program**

# DAY 1

MARCH 21, 2022

# Scientific Program

08:30-09:00 Opening Ceremony

## Keynote Session

09:00-09:25

**Title: Multivariate optimization approach applied to natural polymers from *Ceratonia siliqua* L. and *Moringa oleifera* Lam as coagulating/flocculating agents**  
**Flavia Vieira da Silva-Medeiros**, *Federal University of Technology, Brazil*

09:25-09:50

**Title: Primary immune thrombocytopenia and essential thrombocythemia: Cases series**  
**Maria Podolak-Dawidziak**, *Wroclaw Medical University, Poland*

09:50-10:15

**Title: Present state of the Density Functional Theory studies, the spin problem, and following from quantum mechanics limits on its application**  
**Ilya G. Kaplan**, *National Autonomous University of Mexico, Mexico*

Refreshment Break 10:15-10:30

## Distinguished Speaker Talks

10:30-10:50

**Title: Creating complex 3D and 5D anisotropy in phase field modeling interface energies**  
**Jacob L. Bair**, *Oklahoma State University, USA*

10:50-11:10

**Title: Electromotive force generated in all materials under temperature difference**  
**Dong-Il Song**, *Korea Meteorological Administration, South Korea*

11:10-11:30

**Title: Multi-class modeling of grain growth and delta phase dissolution kinetics of alloy 718 with in-situ HT-EBSD measurements**  
**Christian Gruber**, *Materials Center Leoben Forschung GmbH, Austria*

11:30-11:50

**Title: Use of metallized raw materials in electric furnace steelmaking**  
**Karimov Ramin Ismatbey oglu**, *Baku Steel Company LLC, Azerbaijan*

11:50-12:10

**Title: Highly efficient photoswitch in diarylethene-based single- and bi-layer molecular junctions**

**Jean Christophe Lacroix**, *Université Sorbonne Paris Cité, France*

12:10-12:30

**Title: Characterization and anticancer potential of Withania somnifera fruit bioactives (a native species to Pakistan) using GC-MS, NMR and LC-MS-ESI**

**Qudsia Tabassam**, *University of Sargodha, Pakistan*

12:30-12:50

**Title: Electromagnetic methods for improved production of additive manufacturing materials**

**Imants Kaldre**, *University of Latvia, Latvia*

12:50-13:10

**Title: Causes of celestial motion**

**Dong-II Song**, *Korea Meteorological Administration, South Korea*

**Group Photo**

**Lunch Break 13:10-13:40**

13:40-14:00

**Title: A novel technique for mapping material and information flow in food traceability systems**

**Samantha Islam**, *University of Cambridge, UK*

14:00-14:20

**Title: Chemicals and Multiple Chemical Sensitivity (MCS)**

**Andrea Cormano**, *ISDE Benevento, Italy*

14:20-14:40

**Title: Systematic review and meta-analysis on the effects of astaxanthin on human skin ageing**

**Xiangyu Zhou**, *University College London, UK*

14:40-15:00

**Title: Bactericidal surfaces by biomimetics of the nanopillars on insect wings**

**Richard W. van Nieuwenhoven**, *Vienna University of Technology, Austria*

15:00-15:20

**Title: Front-end investigations of the coated particles of nuclear fuel samples – Ion polishing method**

**Zuzanna M. Krajewska**, *National Centre for Nuclear Research, Poland*

15:20-15:40

**Title: Novel image analysis technique for UHP hybrid nano-based fiber-reinforced concrete**

**Mohammad Iqbal Khan**, *King Saud University, Saudi Arabia*

**Refreshment Break 15:40-15:55**

15:55-16:15

**Title: Fabrication of pore-selectively silver-functionalized honeycomb-attened film and its application for antibacterial activity**

**Do Sung Huh**, *Inje University, South Korea*

16:15-16:35

**Title: Compact dual-band 4-MIMO Antenna elements for 5G mobile applications**

**Fayad Ghawbar**, *Universiti Tun Hussein Onn Malaysia, Malaysia*

16:35-16:55

**Title: Energy and CO<sub>2</sub> emission assessments of alkali- activated concrete and ordinary portland cement concrete: A comparative analysis of different grades of concrete**

**Ali Alsalman**, *Almaaqal University, Iraq*

16:55-17:15

**Title: The effect of cholesterol removal from milk and cream on the textural and organoleptic properties of final products**

**Lukáš Kolarič**, *Institute of Food Nutrition, Slovak University of Technology, Slovakia*

17:15-17:35

**Title: Application of lipases immobilized on Octyl-Sepharose CL-4B carrier as potential biocatalysts in obtaining pure enantiomers of NSAIDs**

**Natalia Kocot**, *Nicolaus Copernicus University in Torun, Poland*

Poster

**Title: Development of environmentally friendly HPLC methods for the simultaneous detection of several benzodiazepines and their applications to pharmaceuticals and human biological fluid**

**Hassan M Albishri**, *King Abdulaziz University, Saudi Arabia*

Poster

**Title: Determination of endocrine disruptor Bisphenol-A leakage from different matrices of dental resin-based composite materials**

**Naser Faissal Al-Tannak**, *Kuwait University, Kuwait*

E-Poster

**Title: Separation of radioactive Ni from activation products**

**Fabiola Monroy-Guzmán**, *Instituto Nacional de Investigaciones Nucleares, Mexico*

**E-Poster**

**Title: Mesoporous tungsten oxide films for electrochromic windows**  
**Chi-Ping Li**, *National United University, Taiwan*

**E-Poster**

**Title: Pesticides: Agricultural food products, problems, chemistry**  
**Lydia Bondareva**, *Federal Scientific Center of Hygiene Maned After F.F. Erisman, Russia*

**E-Poster**

**Title: Influence of ammonia modification on ultra-pure activated carbons derived from furfuryl alcohol**  
**Agnieszka Kałamaga**, *West Pomeranian University of Technology, Poland*

**E-Poster**

**Title: Bandgap-coupled template auto-catalysis towards the growth of high-purity sp<sup>2</sup> nanocarbons**  
**Jun Gao**, *Tsinghua University, China*

**Panel Discussion**

**End of Day 1**



# DAY 2

MARCH 22, 2022

# Scientific Program

08:30-09:00 Opening Ceremony

## Keynote Session

09:00-09:25

**Title: Smart coatings: Degradation of priority pollutants on TiO<sub>2</sub> based photocatalytic materials in indoor and outdoor environments-Principles and mechanisms**

**Dimitrios Kotzias**, *Institute for Health and Consumer Protection, Italy*

09:25-09:50

**Title: High sodium content P2-type cathode for high-performance sodium-ion batteries**

**Ting Jin**, *Northwestern Polytechnical University, China*

## Distinguished Speaker Talks

09:50-10:10

**Title: Circular polarizing filters based on chiral metasurface**

**Xin He**, *Zhejiang University, China*

10:10-10:30

**Title: Hot ECAP implementation in zirconia reinforced aluminium chip matrix (Al6061) composite production**

**Sami Abdo Mohammed Al-Alimi**, *Universiti Tun Hussein Onn Malaysia (UTHM), Malaysia*

10:30-10:50

**Title: Nanoparticles as cell tracking agents in human ocular cell transplantation therapy**

**David C. Mundy**, *Stanford University School of Medicine, USA*

## Panel Discussion

End of Day 2





# Virtual Conference

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# VIRTUAL EVENT

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## 3<sup>RD</sup> ADVANCED CHEMISTRY WORLD CONGRESS

MARCH 21-22  
**2022**

Theme: Chemical Innovations that will change the Modern World:  
Current Trends, Education and Future Research Opportunities

**Scientific Program**

## ADV. CHEMISTRY 2022

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

# DAY 1

MARCH 21, 2022

# Scientific Program

GMT- Greenwich Mean Time

08:45-09:00 Opening Ceremony

Oral Session

**Sessions:** Analytical Chemistry | Biochemistry | Chemical Engineering | Electrochemistry | Food Chemistry | Geochemistry | Green Chemistry | Industrial Chemistry | Inorganic Chemistry | Nanotechnology | Materials Science | Medicinal Chemistry | Neurochemistry | Organic Chemistry | Physical Chemistry | Polymer Chemistry | Radiochemistry

09:00-09:20 **Title: EVA technology: Chemistry and applications**

**Pier Giorgio Righetti**, *Politecnico di Milano, Italy*

09:20-09:40

**Title: Mechanism of gases generation during lithium-ion batteries cycling with standard electrolyte LP57**

**Nikolay Efimovich Galushkin**, *Don State Technical University, Russia*

09:40-10:00

**Title: The use of enhanced hydrophobicity of nanofibrillated cellulose derived from oil palm empty fruit bunches as nano-reinforcing agent for poly (lactic acid) nanocomposite films**

**Dwi Yuni Hastati**, *Bogor Agricultural University (IPB University), Indonesia*

10:00-10:20

**Title: Savitzky–Golay filtering-Based fusion of multiple exposure images for high dynamic range imaging**

**Vivek Ramakrishnan**, *Datta Meghe College of Engineering, India*

10:20-10:40

**Title: Current progress on open tubular ion chromatography**

**Weixiong Huang**, *China University of Geosciences, China*

Refreshment Break 10:40-11:00

11:00-11:20

**Title: Radiation-Assisted Green Synthesis and Characterization of Selenium Nanoparticles, and Larvicidal Effects on Culex pipiens complex**

**A. M. Fadl**, *Egyptian Atomic Energy Authority, Egypt*

11:20-11:40

**Title: Meta-interaction physics on the evolution of the universe between dark energy and dark matter**

**Li Zongcheng**, *Soochow University, China*

11:40-12:00

**Title: Fabrication of waste-based magnetic activated carbon nanostructures for environmental applications**

**Mohamed Abdelaty Habila**, *King Saud University, Saudi Arabia*

12:00-12:20

**Title: Identification and characterization of Prothionamide degradation impurities by MS, NMR, and ultra- performance liquid chromatography method development**

**Vijaya Kumar Baksam**, *Micro Labs Ltd, India*

12:20-12:40

**Title: Exfoliation corrosion performance of aeronautical aluminum alloy**

**Abdessamad Brahami**, *Université Djilali Liabes, Algeria*

**Lunch Break 12:40-13:10**

13:10-13:30

**Title: Electron currents and magnetic pulses in bounded atomic systems**

**Shalini Lumb Talwar**, *University of Delhi, India*

13:30-13:50

**Title: Metabolite profile and dynamics during traditional beverages production: Case of palm wines in Côte d'Ivoire**

**Theodore N. Djeni**, *Nangui Abrogoua University, Ivory Coast*

13:50-14:10

**Title: Starch-coated magnetic nanoparticles and external electromagnetic field for cancer theranostic**

**Veselina Uzunova**, *Institute of Biophysics and Biomedical Engineering, Bulgaria*

14:10-14:30

**Title: Investigation of the potential complexing ability of dissolved organic substances in surface water to Al (III), Fe (III) and Cu (II) ions**

**Zhezherya Vladyslav**, *National Academy of Sciences of the Ukraine, Ukraine*

14:30-14:50

**Title: Characterization and anticancer potential of Withania somnifera fruit bioactives (a native species to Pakistan) using GC-MS, NMR and LC-MS-ESI**

**Qudsia Tabassam**, *University of Sargodha, Pakistan*

14:50-15:10

**Title: Separation of radioactive Ni from activation products**

**Fabiola Monroy-Guzmán**, *Instituto Nacional de Investigaciones Nucleares, Mexico*

15:10-15:30

**Title: Pesticides: Agricultural food products, problems, chemistry**

**Lydia Bondareva**, *Federal Scientific Center of Hygiene Maned After F.F. Erisman, Russia*

15:30-15:50

**Title: Possibilities of using biomethane as a low-emission energy carrier in transport in the light of the Green Deal**

**Izabela Samson-Bręk**, *National Research Institute, Poland*

15:50-16:10

**Title: Voltammetric study of sulfonated tetra- and octa-substituted cobalt phthalocyanine complexes in aqueous solutions**

**Mariia A. Kovanova**, *Ivanovo State University of Chemistry and Technology, Russia*

16:10-16:30

**Title: Experimental study of smart extinguishing material for use in forest and wildland-urban interface fires**

**Michail Chalaris**, *International Hellenic University, Greece*

Panel Discussion

End of Day 1



# DAY 2

MARCH 22, 2022

# Scientific Program

GMT- Greenwich Mean Time

## Oral Session

08:45-09:00 Introduction

**Sessions:** Analytical Chemistry | Biochemistry | Chemical Engineering | Electrochemistry | Food Chemistry | Geochemistry | Green Chemistry | Industrial Chemistry | Inorganic Chemistry | Nanotechnology | Materials Science | Medicinal Chemistry | Neurochemistry | Organic Chemistry | Physical Chemistry | Polymer Chemistry | Radiochemistry

09:00-09:20

**Title:** A novel detection system for fragmented cytokeratin 18 using new antibodies

**Minori Yamada**, *Bio-Diagnostic Reagent Technology Center, Sysmex Corporation, Japan*

09:20-09:40

**Title:** Absorbed dose monitoring radiochromic film systems for intense photon and electron radiation processing technologies

**Vladimir P Tenishev**, *Russian Metrological Institute of Technical Physics and Radio Engineering (VNIIFTRI) Mendeleevo, Russian Federation*

09:40-10:00

**Title:** A high-performance electrolysis cell promises more cost-competitive renewable hydrogen

**Gerhard (Gerry) F. Swiegers**, *University of Wollongong, Australia*

10:00-10:20

**Title:** Spiropyrazolinium salts and O-TOSILATE- $\beta$ -(BENZIMIDAZOL-1-YL) propioamidoxime as the products of  $\beta$ -aminopropioamidoximes tosylation

**Kayukova Lyudmila Alexandrovna**, *JSC A.B. Bekturov Institute of Chemical Sciences, Kazakhstan*

10:20-10:40

**Title:** Analysis of riverbank erosion – A micro-level approach

**Sanchayan Mukherjee**, *Kalyani Government Engineering College, India*

Refreshment Break 10:40-11:00

11:00-11:20

**Title:** More general families of exact solitary wave solutions of nonlinear schrodinger equation with their applications in nonlinear optics

**Nadia Cheemaa**, *Zhejiang Normal University, China*

11:20-11:40

**Title: An introduction to general high-pressure closed acidic decomposition method of rock samples for trace element analysis by ICP-MS**  
*Xijuan Tan, Chang'an University, China*

11:40-12:00

**Title: The effect of Gamma Irradiation on nucleolar activity, the presence of chromosomal abnormalities and the efficiency of energy conversion as indicators for mutation breeding in *Triticum turgidum***  
*Eben von Well, Agricultural Research Council – Small Grain, South Africa*

12:00-12:20

**Title: Strip surface defect identification using multiresolution binarized image features**  
*Zoheir Mentouri, University of Guelma, Algeria*

Lunch Break 12:20-12:50

12:50-13:10

**Title: Selective oxidation of styrene to benzaldehyde over niobium modified phosphomolybdic acid catalyst**  
*Balaga Viswanadham, GMR Institute of Technology, India*

13:10-13:30

**Title: Biodiversity and agricultural heritage: A path to sustainability**  
*Liane Portuondo Farías, Institute of Technologies and Applied Sciences (InSTEC), Cuba*

13:30-13:50

**Title: Hyperbolic tilings and crystallographic structures**  
*Benedikt Kolbe, Hausdorff Center for Mathematics, Germany*

13:50-14:10

**Title: Biochemical reaction networks used in population dynamics and epidemiological modeling**  
*Svetoslav Marinov Markov, Bulgarian Academy of Sciences, Bulgaria*  
*Milen Borisov, Bulgarian Academy of Sciences, Bulgaria*

Refreshment Break 14:10-14:30

14:30-14:50

**Title: N, S donor acetamide ligand: Silver (I) binding and test silver (I) extraction studies**  
*Abiodun Daniel Aderibigbe, University of Connecticut, USA*

14:50-15:10

**Title: Progressive Sperm Sorting Method using High-throughput Rheotaxis-based device**  
*Afrouz Ataei, Florida Atlantic University, USA*

15:10-15:30

**Title: Combining machine learning and molecular modeling – CASTELO, a 4D submolecular motif identification method for drug discovery**  
*Leili Zhang, IBM Thomas J. Watson Research Center, USA*

15:30-15:50

**Title: Production water analysis by combining Electro Spray on Paper (EPS) and Laser-Induced Breakdown Spectroscopy (LIBS) techniques**  
**Carlos Albeiro Carreño Barrera**, *Universidad Industrial de Santander, Colombia*

15:50-16:10

**Title: Unknown metabolites identification with high resolution GC-MS and IROA technology**  
**Yunping Qiu**, *Albert Einstein College of Medicine, USA*

16:10-16:30

**Title: Stability characteristics of nanoparticles in a laminar linear shear flow in presence of DLVO- and non-DLVO forces**  
**Vivekananda Bal**, *Massachusetts Institute of Technology, USA*

16:30-16:50

**Title: Validation of analytical model and identification of salt effect on wellbore temperature in underbalanced drilling**  
**Olatunji Olayiwola**, *University of Louisiana at Lafayette, USA*

Panel Discussion

End of Day 2



**BOOKMARK  
YOUR DATES**

**4<sup>TH</sup> ADVANCED  
CHEMISTRY WORLD  
CONGRESS**

**MARCH 2023**

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