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12th International Conference and Exhibition on

Materials Science and Chemistry

May 20-22, 2019
Zurich, Switzerland



SCIENTIFIC PROGRAM

DAY 1
Monday, 20th May

08:30-09:00 **Registrations**

09:00-09:30 **Introduction**

09:30-09:50 COFFEE BREAK

09:50-11:50 Meeting Hall 01 **KEYNOTE LECTURES**

11:50-13:10

MEETING HALL 01	MEETING HALL 02
Talks On: Materials Science and Chemistry	**Talks On: Materials Science and Engineering**
Nanostructures	Electronic and photonic materials
Macromolecular chemistry	Catalytic materials for energy
Atomic structure and bonding	Surface science and engineering
Carbon nanotubes and fullerenes	Emerging materials and their technology
Modern materials chemistry	Optimization of materials and structures

13:10-13:15 GROUP PHOTO

13:15-14:00 LUNCH BREAK

14:00-16:00

MEETING HALL 01	MEETING HALL 02
Talks On: Materials Chemistry in Developing Areas	**Talks On:** Materials Synthesis and Characterization
Scope and applications in pharmaceutical chemistry	Synthetic materials chemistry
Scope and applications in physical chemistry	Ceramic structures and properties
Scope and applications in organometallic chemistry	Coordination chemistry and intermetallics
Scope and applications in electrochemistry	Solid state chemistry
Scope and applications in green chemistry	Composite materials
Scope and applications in click chemistry	Metamaterials

16:00-16:20 COFFEE BREAK

MEETING HALL 01 (16:20-17:00)	MEETING HALL 01 (17:00-18:00)
Young Researchers	Workshop

DAY 2
Tuesday, 21st May

09:00-10:30 Meeting Hall 01 — **KEYNOTE LECTURES**

10:30-10:50 COFFEE BREAK

10:50-12:50

MEETING HALL 01	MEETING HALL 02
Talks On: Analytical Techniques and Instrumentation in Materials Chemistry	**Talks On: Polymeric Materials**
Scanning and transmission electron microscopy	Polymer chemistry
Atomic force microscopy	Polymer synthesis
Optical spectroscopy	Polymer characterization
X-ray diffraction	Polymer coating
Organic analysis	Polymer testing
Structural analysis	Polymer technology

12:50-13:35 LUNCH BREAK

13:35-15:55

MEETING HALL 01	MEETING HALL 02
Talks On: Nanomaterials	**Talks On: Inorganic Materials Chemistry**
Types of nanomaterials	Metals and non-metals
Nanomaterials applications	Inorganic nanotubes
Properties of nanomaterials	Polymorphism and allotropy
Nanomaterials synthesis	Stoichiometry and gravimetry
Nanotechnology in materials	Liquid crystals
Nanoporous membranes	Lithium-ion batteries

15:55-16:15 COFFEE BREAK

MEETING HALL 01 (16:15-17:00)	MEETING HALL 01 (17:00-18:00)
Poster Presentations	Workshop

DAY 3
Wednesday, 22nd May

09:00-10:30 Meeting Hall 01 — **KEYNOTE LECTURES**

10:30-10:50 COFFEE BREAK

10:50-12:50

MEETING HALL 01	MEETING HALL 02
Talks On: Organic Materials Chemistry	**Talks On:** Applied Materials Chemistry
Nomenclature and isomerism	Ultrasound usage
Structural chemistry	Sol-gel conversion
Metal-organic frameworks	Sonochemistry
Conjugated systems and chromophores	Electric phenomena
Diamond and carbon materials	Magnetic phenomena
Resonating organic materials	Plastics fabrication and uses

12:50-13:35 LUNCH BREAK

13:35-15:55

MEETING HALL 01	MEETING HALL 02
Talks On: Materials Chemistry and Physics	**Talks On:** Science and Technology of Advanced Materials
Applied physics	Graphene material science
Materials characterization techniques	Graphene production and functionalization
Material engineering	2-D materials beyond graphene
Mechanics of materials	Analogues of two dimensional materials
Functional materials	Chemical and mechanical properties of graphene and 2-D materials
Materials science and physics	Applications of graphene in various forms
Acoustic metamaterials	

15:55-16:15 COFFEE BREAK

MEETING HALL 01 (16:15-17:00)	MEETING HALL 01 (17:00-18:00)
Poster Presentations	Workshop

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Glimpses of Chemistry Conferences













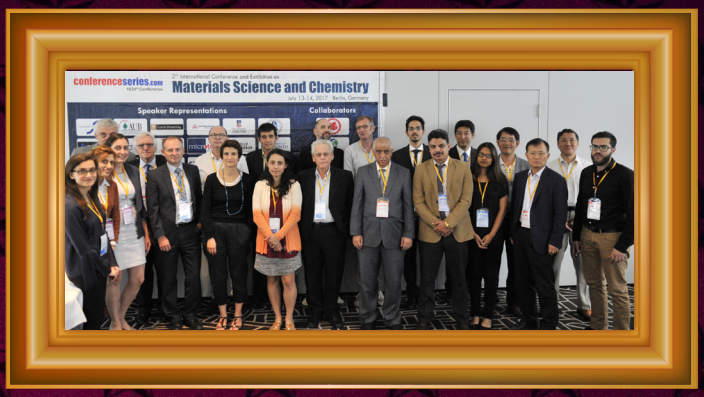




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Glimpses of Materials Chemistry Conferences

















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Zürich Attractions



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Scientific Program

6th International Conference and Exhibition on

Materials Science and Chemistry

May 17-18, 2018 | Rome, Italy



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Day 1 May 17, 2018

Registrations

Olimpica 2

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Opening Ceremony

Keynote Forum

Introduction

Title: Surface multi-functionalization of carbon fibres by novel plasma surface engineering technologies

Hanshan Dong, University of Birmingham, UK

Title: Jumping crystals: Controlled giant thermoelastic deformation of an organic molecular crystal

Theo Rasing, Radboud University, Netherlands

Group Photo

Networking and Refreshments Break

Title: Design of metal-to-metal charge transfer chromophores for visible light activation of oxygen evolving Mn oxide catalysts in a polymer film

Akira Yamaguchi, Tokyo Institute of Technology, Japan

Sessions: Materials Science and Chemistry | Materials Science and Engineering | Materials Chemistry in Developing Areas | Materials Synthesis and Characterization | Polymeric Materials

Session Chair: Fargin Evelyne, ICMCB - Université Bordeaux, France

Session Co-Chair: Xiaoying Li, University of Birmingham, UK

Session Introduction

Title: Orientation studies of endohedral nitrogen fullerenes and their water-solubilization, progress and opportunities

Kyriakos Porfyrakis, University of Oxford, UK

Title: Surface engineering of soda lime silicate glass under thermal poling process for hardness reinforcement

Fargin Evelyne, ICMCB - Université Bordeaux, France

Lunch Break

Title: Proposed link between the periodic table and the standard model

John O Roberts, University of Liverpool, UK

Title: Correlation of oxygen defects with surface Lewis acidity and catalytic properties of hybrid MoO_3/SBA-15 catalysts

Jin An Wang, Instituto Politécnico Nacional, Mexico

Title: Ceramic conversion treatments of a low cost beta titanium alloy to combat wear

Xiaoying Li, University of Birmingham, UK

Title: Functionalization of MnO_2 as a water oxidation catalysts in terms of the redox chemistry of Mn

Akira Yamaguchi, Tokyo Institute of Technology, Japan

Networking and Refreshments Break

Title: Development of method for quantitative determination of bromelain in gel formulation

Nana Gorgaslidze, Tbilisi State Medical University, Georgia

YRF: A new hydrometallurgical process involving mechanochemical conversion with reagent

Seda Çetintaş, Kocaeli University, Turkey

YRF: Biosensor based on magnetite/lignin/polydopamine hybrid material combined with glucose oxidase for amperometric glucose biosensor

A Jędrzak, Poznan University of Technology, Poland

Panel Discussion

Day 2 May 18, 2018

Olimpica 2

Keynote Forum

Title: Development of high and ultra-high temperature ceramic matrix composites
Jon Binner, University of Birmingham, UK
Title: The formation mechanism of metastable $Al_6(Fe, Mn)$ phase in die-cast Al-Mg alloys
Shouxun Ji, Brunel University London, UK

Networking and Refreshments Break

Sessions: Nanomaterials | Inorganic Materials Chemistry | Organic Materials Chemistry | Applied Materials Chemistry | Materials Chemistry and Physics | Science and Technology of Advanced Materials

Session Chair: Alain Tressaud, ICMCB-CNRS-University of Bordeaux, France
Session Co-Chair: Lartigue Lenaic, Université de Nantes, France

Session Introduction

Title: Optical anisotropy studies of silver nanowire/polymer composite films
Takeo Tomiyama, Hitachi Chemical Co., Ltd., Japan
Title: Fluorine, a key-element for the XXIst century: Uses of fluoride materials in modern technologies
Alain Tressaud, ICMCB-CNRS, University Bordeaux, France
Title: Synthesis of Co-free & Li-excess positive electrode materials for lithium-ion battery
Mitsuharu Tabuchi, National Institute of Advanced Industrial Science and Technology, Japan
Title: Ultra-bright magnetic nanoassemblies as theranostic agents
Lartigue Lenaic, Université de Nantes, France

Lunch Break

Title: Magnetic nanoparticles: The effect of chemico-physical parameters on their fundamental and biomedical applicative properties
Paolo Arosio, Università degli Studi di Milano, Italy
Title: Simple green synthesis of amino acid functionalised CdTe/CdSe/ZnSe core-multi shell with improved cell viability for cellular imaging
Oluwatobi S Oluwafemi, University of Johannesburg, South Africa
YRF: Optimization of mechanochemical modification process of a lignocellulosic biomass waste for adsorption applications
Elif Cerrahoglu, Kocaeli University, Turkey

Networking and Refreshments Break

Poster Presentations

Poster Judge: Lartigue Lenaic, Université de Nantes, France

PPMC001	**Title: Mesoporous CeO_2-ZrO_2-based mixed oxides for automotive catalysis** **Anatoly Bortun,** PIDC, USA
PPMC002	**Title: Novel low dimensional mixed valent transition metal chalcogenides discovered by exploratory synthesis** **Mihai I Sturza,** IFW Dresden - Institute for Solid State Research, Germany
PPMC003	**Title: Synthesis of hydrazones of 5α-androstane series** **Nana N Barbakadze,** Tbilisi State Medical University, Georgia
PPMC004	**Title: Synthesis of derivatives of adamantane modified epiandrosterone** **Nana N Barbakadze,** Tbilisi State Medical University, Georgia
PPMC005	**Title: Catalytic synthesis of alkylpyrazines over mixed oxides obtained from LDHs materials** **Florina Teodorescu,** Center for Organic Chemistry - Romanian Academy, Romania
PPMC006	**Title: Separation of by-product gases in steel industry for carbon resources utilization by semi-alicyclic polyimide membranes** **Jeong-Hoon Kim,** KRICT - Carbon Resources Institute, South Korea
PPMC007	**Title: Synthesis of 5α-steroidal[17,16-d]pyrazolines** **Nanuli Nadaraia,** Tbilisi State Medical University, Georgia

PPMC008	**Title: Synthesis of a new Cd-complex supported on magnetic nanoparticles and study of its catalytic activity for oxidation reactions** **Taiebeh Tamoradi,** University of Kurdistan, Iran
PPMC009	**Title: Steroidal oximes modified by N-protected amino acids** **Nana Gorgaslidze,** Tbilisi State Medical University, Georgia
PPMC010	**Title: The lipid composition of some plants growing in Georgia** **Nana Gorgaslidze,** Tbilisi State Medical University, Georgia
PPMC011	**Title: Synthesis and characterization of ultra-thin and ultra-highly conductive poly(3,4-ethylenedioxythiophene) nanofilm** **Sungsoo Kim,** Pai Chai University, Korea
PPMC012	**Title: A joint spectrochemical, chemometrics and DFT/TD-DFT analysis of the Zn^{II}, Cu^{II} and Fe^{II} metal ions complexation by MTB in aqueous solution** **Zolaikha Rasouli,** University of Kurdistan, Iran
PPMC013	**Title: Phenalenyl like substructures in fullerene molecules** **Ayrat R Khamatgalimov,** Arbuzov Institute of Organic and Physical Chemistry - FRC Kazan Scientific Center of RAS, Russia
PPMC014	**Title: Copper sulfide nanocrystals for efficient photothermal ablation of tumor cells** **Zhiyong Zheng,** Technical University of Denmark, Denmark
PPMC015	**Title: Scaling up the synthesis of a hydroxyquinoline functionalized calix[4]arene – A designer molecule for selective rare earth extraction** **Quirina Roode Gutzmer,** Freiberg University of Mining and Technology, Germany
PPMC016	**Title: Non-enzymatic direct glucose fuel cells: A novel principle towards autonomous electrochemical biosensors** **M Helena M de Sá,** Instituto Superior de Engenharia do Porto, Portugal
PPMC017	**Title: Screening cancer biomarkers with plastic antibodies assembled on a fuel cell: Application to CEA** **Raquel Campos,** Instituto Superior de Engenharia do Porto, Portugal

Panel Discussion

Closing Ceremony