



6th International Conference and Exhibition on

Materials Science and Chemistry

May 17-18, 2018 | Rome, Italy



UK: Conference Series IIc LTD47 Churchfield Road, London, W3 6AYToll Free: +0-800-014-8923

Olimpica 2

conferenceseries.com 09:00-09:25

Opening Ceremony

	Keynote Forum
09:25-09:30	Introduction
	Title: Surface multi-functionalization of carbon fibres by novel plasma surface
09:30-10:10	engineering technologies
	Hanshan Dong, University of Birmingham, UK
	Title: Jumping crystals: Controlled giant thermoelastic deformation of an organic molecular
10:10-10:50	crystal
	Theo Rasing, Radboud University, Netherlands
	Group Photo
	Networking and Refreshments Break 10:50-11:05 @ Foyer
	Title: Design of metal-to-metal charge transfer chromophores for visible light activation of
11:05-11:45	oxygen evolving Mn oxide catalysts in a polymer film
	Akira Yamaguchi, Tokyo Institute of Technology, Japan
Sessions: Mat	erials 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-Ch	air: Xiaoying Li, University of Birmingham, UK
	Session Introduction
	Title: Orientation studies of endohedral nitrogen fullerenes and their water-
11:45-12:15	solubilization, progress and opportunities
	Kyriakos Porfyrakis, University of Oxford, UK
	Title: Surface engineering of soda lime silicate glass under thermal poling process for
12:15-12:45	hardness reinforcement
	Fargin Evelyne, ICMCB - Université Bordeaux, France
	Lunch Break 12:45-13:45 @ Hotel Restaurants
13:45-14:15	Title: Proposed link between the periodic table and the standard model
	John O Roberts, University of Liverpool, UK
14:15-14:45	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
14:45-15:15	Xiaoying Li, University of Birmingham, UK
	Title: Functionalization of MnO ₂ as a water oxidation catalysts in terms of the redox chemistry of Mn
15:15-15:45	Akira Yamaguchi, Tokyo Institute of Technology, Japan
	Networking and Refreshments Break 15:45-16:00 @ Foyer
	Title: Development of method for quantitative determination of bromelain in gel formulation
16:00-16:30	Nana Gorgaslidze, Tbilisi State Medical University, Georgia
16:30-16:50	YRF: A new hydrometallurgical process involving mechanochemical conversion with reagent
10:30-10:30	Seda Cetintas, Kocaeli University, Turkey
10:30-10:30	Seda Çetintaş, Kocaeli University, Turkey YRF: Biosensor based on magnetite/lianin/polydopamine hybrid material combined with alucose
	YRF: Biosensor based on magnetite/lignin/polydopamine hybrid material combined with glucose
16:50-17:10	YRF: Biosensor based on magnetite/lignin/polydopamine hybrid material combined with glucose oxidase for amperometric glucose biosensor
	YRF: Biosensor based on magnetite/lignin/polydopamine hybrid material combined with glucose

Day 2 May 18, 2018

Olimpica 2

Olimpica 2		
Keynote Forum		
09:30-10:10	Title: Development of high and ultra-high temperature ceramic matrix composites	
	Jon Binner, University of Birmingham, UK	
10 10 10 50	Title: The formation mechanism of metastable Al ₆ (Fe, Mn) phase in die-cast Al-Mg	
10:10-10:50	Shouxun Ji, Brunel University London, UK	
	Networking and Refreshments Break 10:50-11:05 @ Foyer	
Sessions: Nand	omaterials Inorganic Materials Chemistry Organic Materials Chemistry Applied	
	nistry 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	
11:05-11:35	Title: Optical anisotropy studies of silver nanowire/polymer composite films	
	Takeo Tomiyama, Hitachi Chemical Co., Ltd., Japan	
	Title: Fluorine, a key-element for the XXI st century: Uses of fluoride materials in modern	
11:35-12:05	technologies	
	Alain Tressaud, ICMCB-CNRS, University Bordeaux, France	
12:05-12:35	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	
12:35-13:05	Title: Ultra-bright magnetic nanoassemblies as theranostic agents	
	Lartigue Lenaic, Université de Nantes, France	
	Lunch Break 13:05-14:05 @ Hotel Restaurants	
	Title: Magnetic nanoparticles: The effect of chemico-physical parameters on their	
14:05-14:35	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	
14:35-15:05	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	
15:05-15:25	biomass waste for adsorption applications	
	Elif Cerrahoglu, Kocaeli University, Turkey	
	Networking and Refreshments Break 15:25-15:40 @ Foyer	
	Poster Presentations 15:40 - 17:00 @ Foyer	
Poster Judge: I	artigue Lenaic, Université de Nantes, France	
DD116001	Title: Mesoporous CeO ₂ -ZrO ₂ -based mixed oxides for automotive catalysis	
PPMC001	Anatoly Bortun, PIDC, USA	
	Title: Novel low dimensional mixed valent transition metal chalcogenides discovered by	
PPMC002	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	

	Title: Separation of by-product gases in steel industry for carbon resources utilization by semi-
PPMC006	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
	Title: Phenalenyl like substructures in fullerene molecules
PPMC013	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
	Title: Screening cancer biomarkers with plastic antibodies assembled on a fuel cell: Application
PPMC017	to CEA
	Raquel Campos, Instituto Superior de Engenharia do Porto, Portugal

Panel Discussion
Closing Ceremony