

5th International Conference on

Physical and Theoretical Chemistry

October 11-13, 2018 | Edinburgh, Scotland

UK: Conference Series LLC Ltd

47 Churchfield Road, London, W3 6AY

Toll Free: +0-800-014-8923

DAY-1

October 11, 2018

Meeting Hall: Macallan Glenfiddich

08:00-09:00 Registrations

Opening Ceremony · · · · · · · · · · · · · · · · · 09:00-09:15

KEYNOTE FORUM

09:15-09:30 Introduction

09:30-10:05 Title: Nonadiabatic molecular dynamics following photoexcitation: an *ab initio* quantum approach Horst Köppel, University of Heidelberg, Germany

Title: Noncovalent interactions in bio- and nanosciences: quantum mechanical approach

10:05-10:40

Pavel Hobza, Institute of Organic Chemistry and Biochemistry – CAS, Czech Republic

GROUP PHOTO

Networking & Refreshments 10:40-10:55 @ Academy Lounge

Sessions: Theoretical and Computational Chemistry | Physical Chemistry: A Molecular Approach | Chemical Physics and Chemical Kinetics

Chair: Masahiko Hada, Tokyo Metropolitan University, Japan Co-Chair: Małgorzata A. Broda, University of Opole, Poland

INTRODUCTION

Title: Vanadium NMR chemical shift in vanadium complex catalyst: a cooperation of QC 10:55-11:20 calculation and MLR analysis Masahiko Hada, Tokyo Metropolitan University, Japan Title: Experimental and computational studies on the ground state of an isolated Fe(II)-11:20-11:45 **Phthalocyanine** Dana Nachtigallova, Institute of Organic Chemistry and Biochemistry - CAS, Czech Republic Title: Quantum chemical study on the tuning thiol-ene polymerization 11:45-12:10 **Isa Degirmenci,** Ondokuz Mayis University, Turkey Title: Generalized coordinates hybrid Monte Carlo using high speed robotics algorithms 12:10-12:35 Laurentiu Spiridon, Institute of Biochemistry of the Romanian Academy, Romania Title: Interatomic coulombic decay mediated by ultrafast superexchange energy transfer 12:35-13:00 Tsveta Miteva, Sorbonne University, France

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Lunch Break 13:00-13:45 @ Traders restaurant

13:45-14:10	Title: A smart strategy for finding global minima of microhydrated biomolecules with minimal DFT calculations Kyung Yup Baek, Korea Advanced Institute of Science and Technology, Korea
14:10-14:35	Title: Atomistic insights into electrochemical interfaces by <i>ab-initio</i> simulations and <i>in-situ</i> characterizations Tadashi Ogitsu, Lawrence Livermore National Laboratory, USA
14:35-15:00	Title: Structure and spectroscopy of E and Z isomers of Boc-Gly-ΔPhe-NHMe Małgorzata A. Broda, University of Opole, Poland
15:00-15:25	Title: Understanding the non-covalent interaction mediated modulations to the electronic structure of quasi-zero-dimensional graphene nanoflakes Amrit Sarmah, Institute of Organic Chemistry and Biochemistry – CAS, Czech Republic
	Networking and Refreshments 15:25-15:40 @ Academy Lounge
15:40-16:05	Networking and Refreshments 15:25-15:40 @ Academy Lounge Title: "Remake" of the non-linear dielectric effect in investigations of structure of liquids Kazimierz Orzechowski, University of Wroclaw, Poland
15:40-16:05 16:05-16:30	Title: "Remake" of the non-linear dielectric effect in investigations of structure of liquids
	Title: "Remake" of the non-linear dielectric effect in investigations of structure of liquids Kazimierz Orzechowski, University of Wroclaw, Poland Title: Slowing-down of Pt reduction kinetics in microemulsions: a computer simulation study

DAY-2

Panel Discussion

October 12, 2018

Meeting Hall: Macallan Glenfiddich

KEYNOTE FORUM

09:00-09:35	Title: Climate change and global warming: thoughts of a quaker scientist Richard Tuckett, University of Birmingham, UK
09:35-10:10	Title: Manipulating liquid crystals via photo generated fields and tailored polymer Alexander Lorenz, Paderborn University, Germany
10:10-10:45	Title: Manipulation of single molecules at surfaces: switches, wires and motors Leonhard Grill, University of Graz, Austria



Networking & Refreshments 10:45-11:00 @ Academy Lounge

Sessions: Solid-state Chemistry | Quantum Chemistry | Electro & Photochemistry | Physical Chemistry of Macromolecules

Chair: Alexander Lorenz, Paderborn University, Germany

Co-Chair: Kazimierz Orzechowski, University of Wroclaw, Poland

INTRODUCTION

11:00-11:25	Title: Tuning optical and catalytic properties of ligated noble metal clusters by synergistic role of metallic and organic subunits Vlasta Bonačić-Koutecký, Humboldt University of Berlin, Germany
11:25-11:50	Title: Non-isothermal physico-chemical processes in superfluid helium Eugene B. Gordon, Russian Academy of Sciences, Russia
11:50-12:15	Title: Versatile approach combining theoretical and experimental aspects of raman spectroscopy to investigate battery materials Mouna Ben Yahia, ICGM, University of Montpellier, France
12:15-12:40	Title: Photochemistry of acetohydroxamic acid in solid argon. FTIR and theoretical studies Magdalena Sałdyka, University of Wrocław, Poland
12:40-13:05	Title: Excited states deactivation in model proteins chains: nonadiabatic dynamics simulations and ab initio methods Valérie Brenner, Laboratory Interactions, Dynamics and Lasers-CEA Saclay, France

Lunch Break 13:05-13:50 @ Traders restaurant

POSTER PRESENTATIONS 13:50 – 14:20 @ ACADEMY LOUNGE

PC001	Title: Effect of conformational correction to the enthalpy of formation calculated by G4 theory Taisiya A. Suchkova, Lomonosov Moscow State University, Russia
PC002	Title: Conformational changes in 2-(1,2,4-triazol-3-yl)benzoic acid induced by UV laser light Magdalena Pagacz-Kostrzewa, University of Wrocław, Poland
PC003	Title: Non-covalently functionalized novel stable complexes of graphene and small molecules Vijay Madhav Miriyala, Institute of Organic Chemistry and Biochemistry – CAS, Czech Republic
PC004	Title: Prediction of structures of dinucleotide steps containing non Watson-Crick base pairs Satyabrata Maiti, Saha Institute of Nuclear Physics, India
PC005	Title: Isolated molecule of Iron(II)phthalocyanine exhibits quintet ground-state: a nexus between theory and experiment Rabindranath Lo, Institute of Organic Chemistry and Biochemistry – CAS, Czech Republic
PC006	Title: Tuning the spin-state of Iron(II)phthalocyanine (FePc) molecules via non-covalent interaction by positioning on functionalized graphene Debashree Manna, Institute of Organic Chemistry and Biochemistry – CAS, Czech Republic

17:45-18:00

PC007	Title: Investigating twin polymerization via density functional theory Janett Prehl, Chemnitz University of Technology, Germany
PC008	Title: Influence of ionic cross-linking on polymer interdiffusion in water-borne pressure-sensitive adhesives Hares Wahdat, Clausthal University of Technology, Germany
PC009	Title: Measurement of dissociation energies for π - π stacked dimers of aromatic hydrocarbons Ali Hamzah Alessa, The University of Manchester, UK
SESSIONS	
14:20-14:45	Title: Computational and empiric considerations regarding the electrocatalytic reduction of CO ₂ by water soluble cobalt porphyrins Yeshayahu Ben-Eliyahu, Ben-Gurion University of the Negev, Israel
14:45-15:10	Title: Coordination chemistry in pyridine and imidazole compounds containing gem-diol moieties. Solid-state NMR and X-Ray studies Juan Manuel Lázaro-Martínez, University of Buenos Aires, Argentina
15:10-15:35	Title: Surface reactivity of layered manganese oxides: an experimental and theoretical approach Germain Vallverdu, University of Pau & Pays Adour, France
	Networking & Refreshments 15:35-15:50 @ Academy Lounge
15:50-16:15	Title: Synthesis and cyclic voltammetry study of asymmetrical triphenylmethane di- and trisulfides on coated and bare gold electrodes Imad Ali Abu-Yousef, American University of Sharjah, UAE
SESSIONS	
16:15-16:40	Title: Multiple interacting collective modes and phonon gap in phospholipid membranes Giovanna D'Angelo, University of Messina, Italy
16:40-17:05	Title: Dynamical and structural characterization of thermally responsive pluronic-based nano-delivery systems Caterina Branca, University of Messina, Italy
17:05-17:30	Title: Transition metal systems: a theoretical modeling of their $L_{2,3}$ -edge X-ray absorption spectra Silvia Carlotto, University of Padova, Italy
YOUNG RE	SEARCH FORUM ————————————————————————————————————
17:30-17:45	Title: Application of combined electrochemical reactions for extraction of metals from metal- containing waste
	Sharipov Rustam Hasanovich, Kazakh-British Technical University, Republic of Kazakhstan

Title: Composition for reducing the pour point of diesel fuel

Myrzakhanov Maxat Makhmudovich, Kazakh-British Technical University, Republic of Kazakhstan

Panel Discussion

Poster Awards Ceremony

DAY-3

October 13, 2018

Networking Session 13:00-14:00 @ Traders restaurant

Closing Ceremony

Bookmark your Dates

6th International Conference on

Physical and Theoretical Chemistry

September 09-10, 2019 | Zurich, Switzerland

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