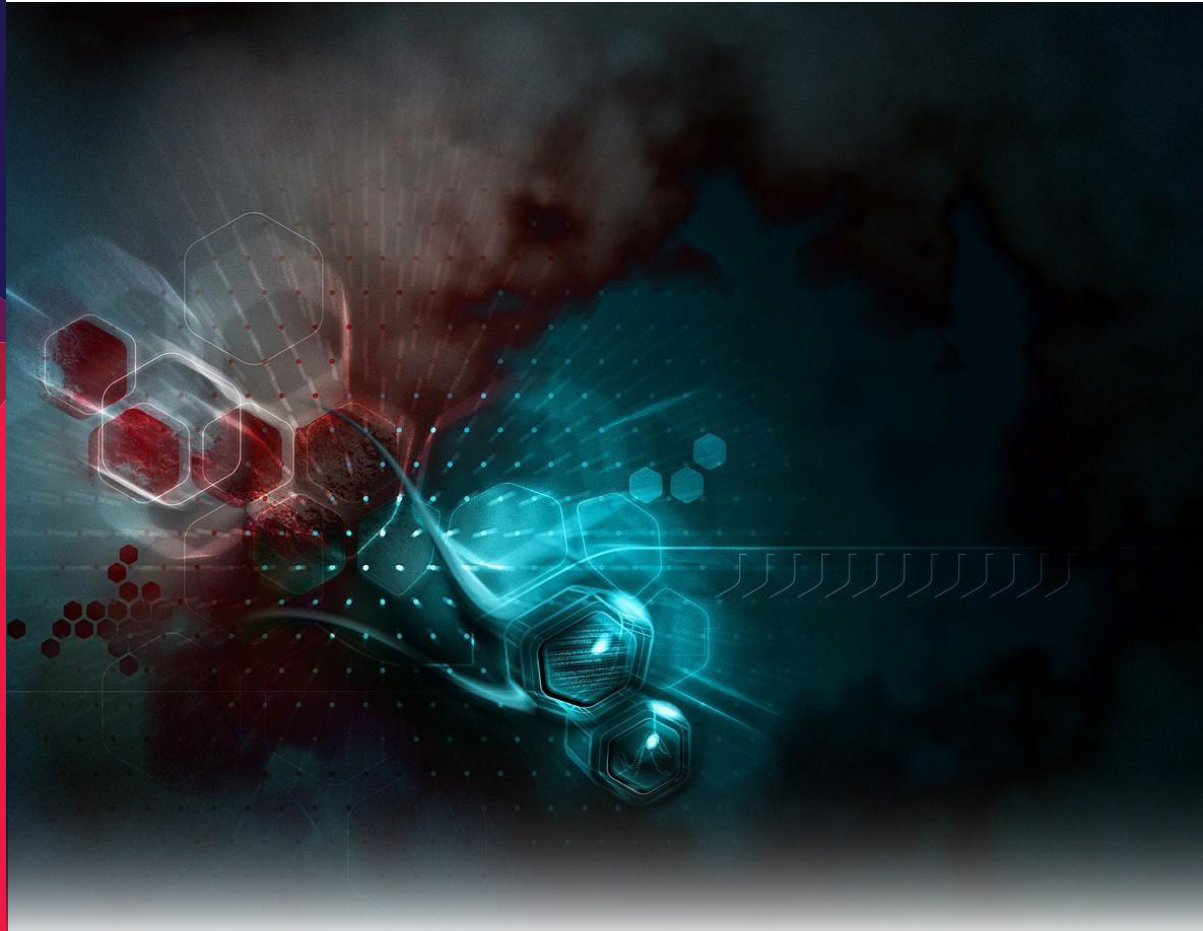


Scientific Program



22nd International Conference on
**Graphene, Carbon
Nanotubes and
Nanostructures**

September 17-18, 2018 | Berlin, Germany

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DAY-1

September 17, 2018

Meeting Hall: **Slyt 1**

09:30-10:00 Registrations

Opening Ceremony **10:00-10:25**

KEYNOTE FORUM

10:25-10:30 Introduction

10:30-11:15 **Title:** Decorated, crumpled graphene oxide assemblies for advanced imaging applications
Rina Tannenbaum, Stony Brook University, USA

Group Photo @ Networking & Refreshments 11:15-11:30 @ Slyt Foyer

11:30-12:15 **Title:** Interaction of unfolded fullerene nanoparticles with heavy-metal ions in water solutions
Roberto Pizzoferrato, University of Rome Tor Vergata, Italy

Sessions: Carbon nanotubes and graphene | Graphene Modification and Functionalization | Graphene-like 2D materials | Graphene and 2D Materials based Nanocomposites

Chair: Masatoshi Shioya, Tokyo Institute of Technology, Japan

INTRODUCTION

12:15-12:45 **Title:** Characterization of the solvent specific evaporation from carbon nanotube bucky papers with different functionalization
Ildikó Y Tóth, University of Szeged, Hungary

12:45-13:15 **Title:** Mechanical properties of fluorine elastomers dispersed with carbon nanotubes and graphene oxide nanoribbons
Masatoshi Shioya, Tokyo Institute of Technology, Japan

Lunch Break 13:15-14:00 @ Restaurant Rienäcker

14:00-14:30 **Title:** Improved performance desalination of the synthesized CNT/ceramic composite membrane distillation for oil field produced water desalination
Zahra Sadeghian, Research Institute of Petroleum Industry, Iran

14:30-15:00 **Title:** Towards new synthesis of graphene-CNTs hybrid materials
Jerzy P. Lukaszewicz, Nicolaus Copernicus University, Poland

15:00- 15:30 **Title: Molecular dynamics simulations of mechanical and tribological properties of polymer composites enhanced by cross-linked graphene sheets**
Yunlong Li, Shenyang University of Technology, China

15:30- 16:00 **Title: Ultrasonic waves and temperature effects on graphene structure fabricated by electrochemical exfoliation method**
Razieh Bakhshandeh, Alzahra University, Iran

Networking & Refreshments 16:00-16:15 @ Syla Foyer

16:15-16:45 **Title: Theoretical study of single wall carbon nanotube functionalized with palladium as hydrogen sulfide gas sensor**
Reza Kalantarinejad, Shezan Company, Iran

16:45-17:15 **Title: Electrochemical Performance Enhancement by Using Graphene for Energy Storage and Catalysis**
Jae-Jin Shim, Yeungnam University, South Korea

Panel Discussion

DAY-2

September 18, 2018
Meeting Hall: Syla 3

KEYNOTE FORUM

09:00-09:30 **Title: Pair interaction of vortical structures in continuous media: Criterion of stability**
Vasily Yu Belashov, Kazan Federal University, Russia

09:30-10:00 **Title: New materials for radiation sources in the mid-infrared region**
Alessandra Toncelli, Nanoscience Institute-CNR, Italy

10:00-10:30 **Title: Matter dynamics in a unitary relativistic quantum theory**
Eliade Stefanescu, Institute of Mathematics of the Romanian Academy, Romania

Networking & Refreshments 10:30-10:50 @ Syla Foyer

Sessions: Material Physics | Nano-Technology | Electromagnetism and Electronics | Condensed Matter Physics | Applied Physics

Chair: Dragos Victor Anghel, Horia Hulubei National Institute of Physics and Nuclear Engineering, Romania

Co-Chair: Paul Wagner, University of Vienna, Austria

INTRODUCTION

10:50-11:10 **Title: Flux flow instability for testing superconducting materials in view of applications**
Gaia Grimaldi, CNR – SPIN Institute, Italy

- 11:10-11:30** **Title: Direct experimental determination of contact angles and line tensions on the nano-scale**
Paul E Wagner, University of Vienna, Austria
- 11:30-11:50** **Title: Radiation technique to control the atomic composition and physical properties of thin film materials for different super conductive and other functional nano-elements production**
K E Prikhodko, National Research Centre Kurchatov Institute, Russia
- 11:50-12:10** **Title: Semiempirical quantum transport model for SOIFETs and FinFETs**
Ulrich Wulf , Brandenburg University of Technology Cottbus-Senftenberg, Germany
- 12:10-12:30** **Title: Peculiarities of the BCS theory of superconductivity**
Dragos Victor Anghel, Horia Hulubei National Institute of Physics and Nuclear Engineering, Romania
- 12:30-12:50** **Title: A biophysics problem: Computational difficulties and their solution**
L. Gr. Ixaru, Horia Hulubei National Institute of Physics and Nuclear Engineering, Romania

Lunch Break 12:50-13:50 @ Restaurant Rienäcker

- 13:50-14:10** **Title: Canonical relativistic quantization of electromagnetic field in the presence of an anisotropic conductor magneto-dielectric medium**
Majid Amooshahi, University of Isfahan, Iran
- 14:10-14:30** **Title: New sight at the nature of superconductivity phenomenon: Simple explanation**
Vasily Yu Belashov, Kazan Federal University, Russia

Chair: Vasily Belashov, Kazan Federal University, Russia

- 14:30-14:50** **Title: Analysis of Type Ia supernovae light curves in observed bands**
Herman Holushko, Independent Researcher, Canada
- 14:50-15:10** **Title: The GEMS (Gravity Electro Magnetism Super) unification theory – a theory of the unification of the four forces of nature**
John E Brandenburg, Morningstar Applied Physics, USA
- 15:10-15:30** **Title: Fragmentation of the northeastern Paleo-Indian oceanic domain by a creeping lithospheric current: Evidence from the Ontong Java Plateau**
Carl Strutinski, Germany

Networking & Refreshments 15:30-15:50 @ Sylt Foyer

- 15:50-16:10** **Title: Transformation properties of electromagnetic field strength quantities under local gauge U(1) symmetry described in two-spinor language and induced zitterbewegung (trembling motion) in spin 1/2 particles**
J Buitrago, University of La Laguna, Spain
- 16:10-16:30** **Title: Nonlinear dynamics of the solitary vortices and the wave structures in the complex media**
Khatuna Chargazia, Ivane Javakhishvili Tbilisi State University, Georgia

POSTER PRESENTATIONS 16:30–17:00

Poster Judge: Livius Trache, Horia Hulubei National Institute of Physics and Nuclear Engineering, Romania

- CN01** **Title: Strong coupling between graphene surface plasmon and intersubband transitions**
F Pisani, University of Pisa, Italy
- CN02** **Title: The instability of shear vortex waves in a viscoelastic dusty plasma systems**
M Mahdavi Gharavi, Kharazmi University, Iran
- CN03** **Title: Artificial neural network for prediction of CuO reduction by low-temperature hydrogen plasma**
Hajizadeh Kobra, Islamic Azad University, Iran
- CN04** **Title: Exploring the celestial sphere with the telescope and computational analysis of the images**
Boldea Afrodita Liliana, Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering, Romania
- CN05** **Title: Using of radiation technique to transform superconductive NbN thin film to metal or insulator state to form functional nano elements for cryo-electronic devices**
M M Dementyeva, National Research Centre "Kurchatov Institute", Russia

Panel Discussion

Awards & Closing Ceremony

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