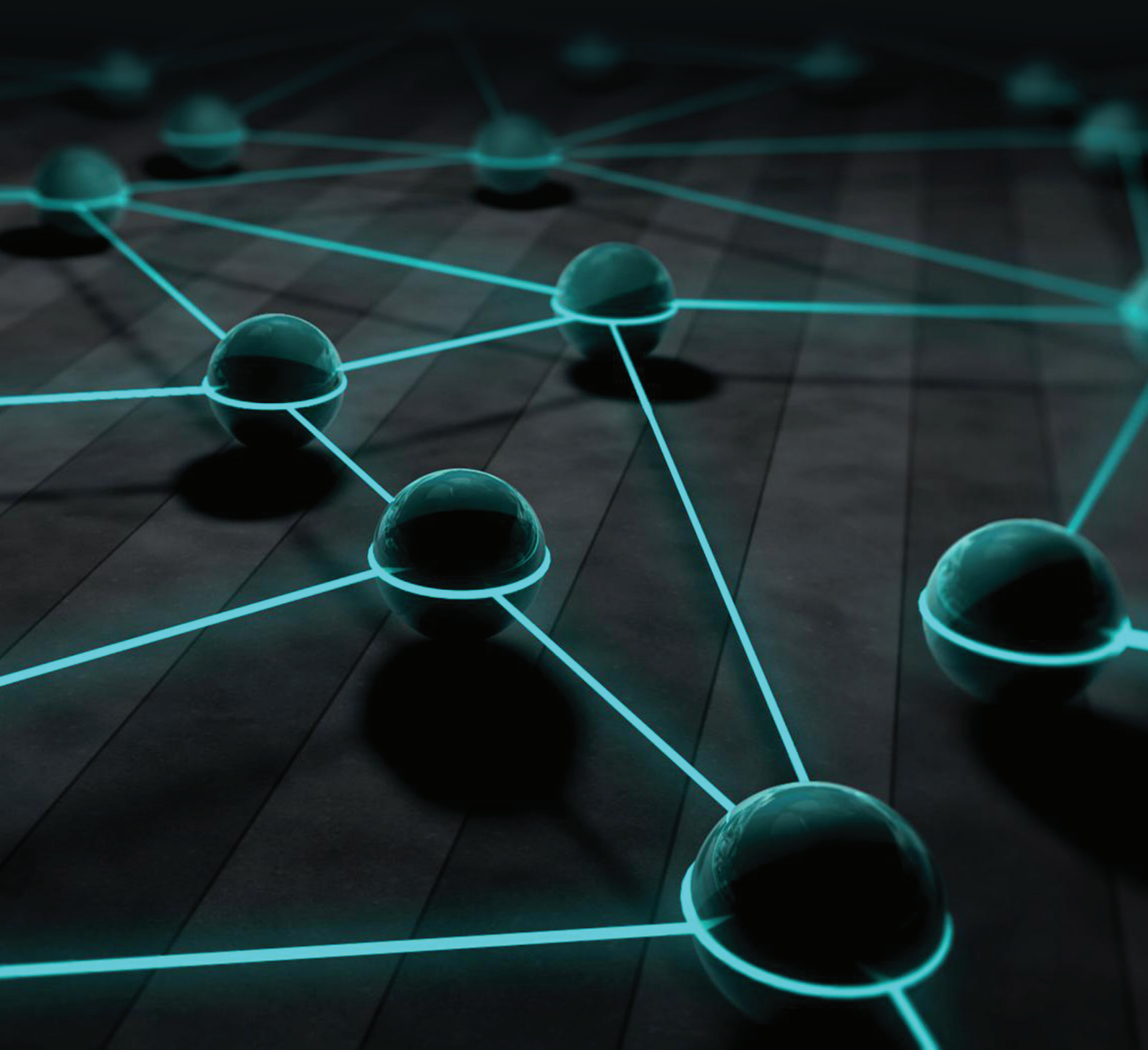


Proceedings of
15th Annual Congress on

MATERIALS RESEARCH & TECHNOLOGY

February 19-20, 2018 | Paris, France



conference**series**.com 09:00-09:30

Opening Ceremony

Keynote Forum

Introduction

- 09:30-10:10 **Title: Creating the materials of tomorrow**
Joseph W Newkirk, Missouri University of Science & Technology, USA
- 10:10-10:50 **Title: Complexity and anisotropy of plastic flow of commercially pure Ti on multiple scales**
Mikhail A Lebyodkin, Université de Lorraine, France

Panel Discussion

Networking & Refreshment Break 10:50-11:10 @ Le Foyer

Group Photo

Sessions: Graphene and 2D Materials

Session Chair: Joseph W Newkirk, Missouri University of Science & Technology, USA

Session Co-chair: Alejandro Pacheco-Sanjuán, Federico Santa María Technical University, USA

Session Introduction

- 11:10-11:30 **Title: Discrete differential geometry concepts for the analysis of finite deformations in single and multi-layered 2D nano-structures**
Alejandro Pacheco-Sanjuán, Federico Santa María Technical University, USA
- 11:30-11:50 **Title: Electrically controllable spin states in single-layer graphene: Direct observation by ESR spectroscopy**
Kazuhiro Marumoto, University of Tsukuba, Japan
- 11:50-12:10 **Title: Theoretical design of flat building blocks for flat silicene with density functional theory calculations**
Masae Takahashi, Tohoku University, Japan
- 12:10-12:30 **Title: Transfer free graphene growth at and below 250°C using novel catalysts**
Masaki Tanemura, Nagoya Institute of Technology, Japan
- 12:30-12:50 **Title: Challenges and dimensions of collective memory to conserve housing network within an urban context as modern monument: General consideration and the case of siedlung gropius történ estate in dessau's modern monument with material contradictions**
Sayed Ahmed, Anhalt University of Applied Sciences Dessau, Germany
- 12:50-13:10 **Title: Understanding the unique electronic properties of nano structures using photoemission theory**
Soonnam Kwon, Pohang Accelerator Laboratory, Republic of Korea

Lunch break 13:10-14:00 @ Food and More

Sessions: Materials Science and Engineering | Advanced Materials and Devices | Materials Physics | Energy Materials

Session Chair: Laetitia Petit, Tampere University of Technology, Finland

Session Co-chair: Mikhail A Lebyodkin, Université de Lorraine, France

Session Introduction

- 14:00-14:20 **Title: Strong correlation effects on the electrical permittivity of two-dimensional systems**
Raymond Fresard, Normandy University, France
- 14:20-14:40 **Title: n-type doping of diamond for electronics**
Marie-Amandine Pinault-Thaury, Scientific Research National Center, France

14:40-15:00 Title: Novel phosphate glass-ceramics and particles-containing phosphate glasses

Laetitia Petit, Tampere University of Technology, Finland

15:00-15:20 Title: The theory of chaos and its impact on fashion design

Nashwa El Shafei, Damietta University, Egypt

15:20-15:40 Title: Present status and future prospects for super low-cost Cu_2O -based solar cells

Toshihiro Miyata, Kanazawa Institute of Technology, Japan

Networking & Refreshment Break 15:40-16:00 @ Le Foyer

16:00-16:20 Title: Topological hetero-structures of layered telluride compounds

Yuta Saito, National Institute of Advanced Industrial Science and Technology, Japan

16:20-16:40 Title: Main-chain polyelectrolyte based on 1,2,3-triazolium with pentaethylene oxide spacer obtained via click chemistry for all-solid state electrochromic device applications

John Marc C Puguan, Myongji University, Republic of Korea

Day 2 February 20, 2018

Conference Hall: Berlin

Keynote Forum

09:30-10:10 Title: The children's school micro climate's wear at different humidity conditions pressure

Ahmad Elsyed Tahan, Damietta University, Egypt

10:10-10:50 Title: Development of SiC based nanocomposites with enhanced electrical conductivity

Pavol Hvizdos, The Institute of Materials Research of Slovak Academy of Sciences, Slovakia

Panel Discussion

Networking & Refreshment Break 10:50-11:05 @ Le Foyer

Sessions: Ceramics and Composite Materials | Nanotechnology in Materials Science | Polymer Science and Engineering

Session Chair: Ahmad Elsyed Tahan, Damietta University, Egypt

Session Co-chair: Pavol Hvizdos, The Institute of Materials Research of Slovak Academy of Sciences, Slovakia

Session Introduction

11:05-11:25 Title: Spark plasma sintering of boron carbide ceramics: Densification mechanisms and thermomechanical properties

Guy Antou, University of Limoges, France

11:25-11:45 Title: Fabrication of carbon nanostructures by advanced plasma nano-processes

Mineo Hiramatsu, Meijo University, Japan

11:45-12:05 Title: Different roles of carbonate additives on hexagonal boron nitride microstructure prepared from urea and boric acid

Hajar Ghanbari, Iran University of Science & Technology, Iran

12:05-12:25 Title: Anisotropic radio-chemically pore-filled composite proton exchange membranes for fuel cell

Tauqir A Sherazi, COMSATS Institute of Information Technology, Pakistan

Video Presentation 12:25-12:45

Lunch Break 12:45-13:30 @ Food and More

Poster Presentations 13:30-14:00 @ Le Foyer

MRC 01 Title: Chemical Stability of zinc stannate in aqueous media

Sadiye Pelin Erden, Anadolu University, Turkey

MRC 02 Title: Elaboration and structural characterization of new materials of KDP-Family

Rawdha Dekhili, Université de Lorraine, France

MRC 03 Title: Numerical and experimental study on temperature energy harvesting in barium titanate/copper laminated composites

Hiroki Takeuchi, Tohoku University, Japan

MRC 04 Title: Utilization of designed Al-doped ZnO (MicNo®-AZO) particles for antistatic applications

Pinar Sengun, Anadolu University, Turkey

- MRC 05** Title: **Semitransparent perovskite solar cell with increased stability of top laminated carbon nanotube composite**
Inga Ermanova, National University of Science and Technology, Russia
- MRC 06** Title: **Microstructure evolution and nitriding behaviors of Sm-Fe alloys in rapid solidification process**
Chunyan Song, North China University of Science and Technology, China
- MRC 07** Title: **Synthesis of complex-shaped microparticles via phase separation in microfluidic device**
Kyoung Duck Seo, Wonkwang University, Republic of Korea
- MRC 08** Title: **Effect of polydopamine-modified surface for electrospun LiFePO_4 cathode material**
Mi-Ra Shin, Korea National University of Transportation, Republic of Korea
- MRC 09** Title: **In situ $\text{AlN}/\text{Al}_2\text{O}_3$ composite powder formation using dextrose-assisted carbothermal reduction**
Hajar Ghanbari, Iran University of Science & Technology, Iran

Award Ceremony

UPCOMING CONFERENCES

23rd International Conference on

Advanced Materials

June 20-21, 2018 Oslo, Norway

W: advancedmaterials.materialsconferences.com

4th Annual Conference on

Biomaterials

June 04-06, 2018 Prague, Czech Republic

W: biomaterials.materialsconferences.com

20th International Conference and Exhibition on

Materials Science and Engineering

September 10-11, 2018 Stockholm, Sweden

W: material-science.materialsconferences.com

