**10th International conference Solid State Surfaces and Interfaces**

## 19 November - 22 November, 2018, Smolenice Castle, Slovakia

[**https://lm.uniza.sk/~jurecka/konferencie/SSSI-2018/**](https://lm.uniza.sk/~jurecka/konferencie/SSSI-2018/)

**Invited speakers**

• **Prof. Hikaru Kobayashi**, Institute of Scientific and Industrial Research, Japan Science and Technology Agency,  
  Osaka University, Japan  
  
• **Prof. Harri Lipsanen**, Aalto University, Department of Electronics and Nanoengineering, Aalto, Finland  
  Semiconductor nanowires for photonics  
  
• **Prof. Jacek Szuber**, Silesian University of Technology, Institute of Electronics, Gliwice, Poland  
  Role of surface properties of low dimensional conductive oxide nanostructures in their gas sensors application  
  
• **Prof. Katsuhiro Akimoto**, Institute of Applied Physics, University of Tsukuba, Tsukuba, Japan  
  Interface properties between both ocuproine and metal studied by photoemission spectroscopy  
  
• **Dr. Peter Šiffalovič**, Institute of Physics, Slovak Academy of Sciences, Bratislava, Slovakia  
  Real-Time Monitoring of thin film growth by means of X-ray scattering  
  
• **Assist. Prof. Kentaro Imamura**, Institute of Scientific and Industrial Research, Japan Science and Technology Agency,  
  Osaka University, Japan  
  Toward 22% efficiency nanocrystalline Si layer/crystalline Si solar cells with graded band-gap structure  
  
• **Prof. Jarmila Müllerová**, Institute of Aurel Stodola, University of Žilina, Liptovský Mikuláš, Slovakia  
  Optical properties of alkaline earth titanates: structural and compositional modifications  
  
• **Dr. Matej Jergel**, Institute of Physics, Slovak Academy of Sciences, Bratislava, Slovakia  
  Surface Finishing of X-ray Crystal Optics After Nanomachining  
  
• **Assoc. Prof. Jozef Novák**, Institute of Electrical Engineering SAS, Bratislava, Slovakia  
  Electrical and photovoltaic characteristics of MoS2/GaP p-n junctions  
  
• **Dr. Joanna Bauer**, Wroclaw University of Technology, Poland  
  Functional hybrid nanostructures in chemoresistance cancer therapy  
  
• **Prof. János Mizsei**, Budapest University of Technology and Economics, Budapest, Hungary  
  Vibrating capacitor methods for investigation of Solid State Surfaces and Interfaces  
  
• **Prof. Grzegorz Jung**, Ben Gurion University of the Negev, Beer-Sheva, Israel  
  Meyer-Neldel rule in the conductivity of low doped manganite systems  
  
• **Dr. Aarne Kasikov**, Institute of Physics, Univesity of Tartu, Tartu, Estonia  
  Dispersion of ALD Cr2O3 films in UV-VIS  
  
• **Prof. Dietrich R.T. Zahn**, Technische Universität Chemnitz, Chemnitz, Germany  
  Spectroscopy on Novel Cd-free Semiconductor Quantum Dots  
  
• **Prof. Nour-eddine Gabouze**, Research Center in Semiconductor Technology for the Energetic (CRTSE), Algiers, Algeria  
  Horseradish peroxidase enzyme immobilization on modified porous silicon for hydrogen peroxide detection  
  
• **Assoc. Prof. Stanislav Jurečka**, Institute of Aurel Stodola, University of Žilina, Slovakia  
  Black silicon - correlation between microstructure and optical properties  
  
• **Prof. Dr. Thomas Chassé**, Institut für Physikalische und Theoretische Chemie, Universität Tübingen, Germany  
  Low Band Gap (LBG) Polymers for Electronics and Optoelectronics - Films, Interfaces, Degradation  
  
• **Prof. Ivan Ohlídal**, Faculty of Science, Masaryk University, Brno, Czech Republic  
  Optical properties of non-stoichiometric silicon nitride films.  
  
• **Dr. Daniel Franta**, Faculty of Science, Masaryk University, Brno, Czech Republic  
  Temperature dependent dispersion models applicable in solid state physics  
  
• **Dr. Dušan Korytár**, Institute of Electrical Engineering SAS, Bratislava, Slovakia  
  Surface quality, subsurface damage and mechanisms of material removal in nanomachining of brittle materials  
  
• **Assoc. Prof. Kazumasa Iida**, Department of Materials Physics, Nagoya University, Nagoya, Japan  
  Electric double layer transistor in NdFeAsO and grain boundary junctions of NdFeAs(O,F)  
  
• **Dr. Shigeru Masuda**, The University of Tokyo, Graduate School of Arts and Sciences, Tokyo, Japan  
  Selective observation of π-derived states of picene crystalline film on Cu(111): A combined study of UPS, MAES,  
  and first-principles calculation.  
  
• **Dr. Yuki Kobayashi**, Institute of Scientific and Industrial Research, Japan Science and Technology Agency,  
  Osaka University, Japan  
  High amount of hydrogen generation by the reaction of Si composition with water in the body  
  to prevent oxidative stress-induced diseases  
  
• **Assoc. Prof. Dario Daghero**, Department of Applied Science and Technology, Politecnico di Torino, Italy  
  Study of the energy gap in the noncentrosymmetric superconductor Mo3Al2C by point-contact  
  Andreev-reflection spectroscopy  
  
• **Dr. Ján Ivančo**, Institute of Physics SAS, Bratislava, Slovakia  
  Solid-state sensors for detection of trace concentrations of acetone vapor  
  
• **Assoc. Prof. Ján Minár**, University of West Bohemia, New Technologies - Research Centre, Plzeň, Czech Republic  
  KKR-Green's function method - recent developments and applications to ARPES  
  
• **Dr. Nadia Saoula**, Centre de Developpement des Technologies Avancees, Alger, Algeria  
  The effect of plasma parameters on the deposition of ZrO2 by magnetron sputtering  
  
• **Assoc. Prof. Giovanni Piero Pepe**, Universita di Napoli 'Federico II', Napoli, Italy  
  
• **Prof. Wu Lu**, Department of Electrical and Computer Engineering, Ohio State University, USA  
  Perovskite Oxide semiconductor Heterojuntions for Field Effect Transistor Applications  
  
• **Dr. Marin Tadic**,Institute of Nuclear Sciences, University of Belgrade, Serbia  
  Iron oxide nanoparticles: synthesis, surface effects and magnetic properties

• **Prof. Ľubica Stuchlíková**, Institute of Electronics and Phototonics, Slovak University of Technology, Bratislava, Slovakia  
   Deep Level Transient Spectroscopy Study of Emission and Capture Processes in Nanostructured Porous Silicon  
  
• **Prof. Ratiba Outemzabet**, Université des Sciences et de la Technologie Houari Boumedienne Faculté de Physique,  
  Alger, Algeria  
  
• **Prof. Tofail Syed**, University of Limerick, Limerick, Ireland  
  Piezoelectricity in Unpoled, Sr-doped hydroxyapatite  
  
• **Dr. Štefan Chromik**, Institute of Electrical Engineering SAS, Bratislava, Slovakia  
  The influence of the substrate and aging on properties of YBCO strips exposed to electron irradiation  
  
• **Assoc. Prof. Martin Kopáni**, Faculty of Medicine, Comenius University, Bratislava, Slovakia  
  Effect of etching time on n-type black silicon  
  
• **Dr. Heike Angermann**, Helmholtz-Zentrum Berlin für Materialien und Energie, Berlin, Germany  
  Surface photovoltage measurements on Si solar cell substrates after cleaning and passivation in Ozone containing solutions