Poster II. / July 11, Wednesday 10:00-12:00, 13:50-16:30 / July 12, Thursday 10:00-12:00, 13:10-15:30* / Glass Hall
Structural materials
Martin Boruvka (Czech Republic): Structure-related properties of bionanocomposites based on poly(lactic acid), cellulose nanocrystals and organic impact modifier
Martina Češková (Czech Republic): Comparison of FDM manufactured cavity insert and conventional injection moulding: an influence on crystallization, morphology and thermo-mechanical properties of injection moulded parts
Richard Dvořák (Czech Republic): Evaluation of high-temperature degraded concrete with content of blast furnace slag by non-destructive approach
Martin Fides (Slovakia): Mechanical properties and wear damage of silicon carbide composites with carbon nanotubes
Morihiro Hariki (Japan): Deformation behavior of harmonic structure designed SUS304L austenitic stainless steel at elevated temperatures
Ryohei Iritani (Japan): Harmonic structure design of 0.3mass% carbon steel
Artem Khomich (Russia): Atom probe tomography study of nickel-based superalloy
Damian Koclęga (Poland): Microstructure characterization of the Inconel 686 clad layer after high temperature corrosion tests in aggressive gases and ashes
Milena Koralnik (Poland): The microstructure evolution of bainitic steel after low-cycle fatigue tests
Saša Kovačić (Croatia): Application of surface engineering to reduce tool wear
Stanislav Krymskiy (Russia): On the effect of precipitates on intergranular corrosion of severely deformed 2xxx aluminum alloy
Ľubomíra Kuzníková (Czech Republic): Investigation of mechanism of glycine nitrate processes for preparation of lanthanide oxides nanocrystallites
Motoki Miyakoshi (Japan): Anomalous strain hardening behavior of harmonic structure designed nickel
Razilia Muftakhetdinova (Russia): Determination of cooling rates in iron meteorites by the structure of spinodal decomposition
Jan Palán (Czech Republic): Continous production of ultrafine to nanocrystalline wires of pure titanium
Dávid Pammer (Hungary): Mechanical test of 3D printed titanium samples with oriented inhomogenous material structure
Taťána Radkovská (Czech Republic): Evaluation of retained austenite in a TRIP steel using EBSD and X-ray diffraction technique
Richard Sedlák (Slovakia): Boron carbide/graphene platelets ceramics with improved fracture toughness, functional and tribological properties
Akito Shimamura (Japan): Microstructure evolution of harmonic structure designed pure titanium compacts by thermo-mechanical processing
Attila Szlancsik (Hungary): Fracture toughness of ceramic hollow sphere filled metal matrix composites
Munir Tasdemir (Turkey): Investigation on mechanical and flammability properties of high density polyethylene/pinna nobilis polymer composites
Tamás Temesi (Hungary): Manufacturing metal-polymer hybrid joints using a non-conventional method
Jozef Toman (Czech Republic): Synthesis and properties of free-standing graphene nanosheets at atmospheric pressure conditions
Koki Yagi (Japan): Application of bimodal powder process to harmonic structure design of SUS316L austenitic stainless steel
Dang-Hyok Yoon: Fabrication and joining of the SiC fiber-reinforced SiC composites
Anastasia Volodarskaja (Czech Republic): Microstrucrure and mechanical properties of CP-Ti-1 processed by ECAP
George Vourlias (Greece): Morphological and structural characterization of thermally conductive HDPE/graphene nanocomposites
Eric J. Zhao (China): A steel-like unalloyed ductile iron
Energy, transportation and environment
Samuel A. J. Armson (United Kingdom): Investigation of the microstructure of autoclave-formed zirconium oxide via top-down EBSD
Jong Hoon Joo (South Korea): A new apporach to avoid errors from electrode overpotential using an in-plane geometry in Hebb-Wagner method
Younki Lee (South Korea)*:* A new approach to accelerate ionic transport of Na-β"-alumina with pre-added phase stabilizer in vapor phase method
Dhinisa Patel (United Kingdom): Characterisation of novel low activation high entropy alloys for high temperature and Ffusion plasma-facing materials applications
Hana Rajhelová (Czech Republic): Comprehensive characterization of the automotive brake wear debris is crucial for understanding of its environmental impact
Modelling and characterisation

Fatima Zohra Baouche (Algeria): Comparative study between solar thermal and photovoltaic: modeling and characterization
Máté Czagány (Hungary): The influence of the phosphorous content on the nano-microstructure and microhardness of electroless Ni-P coatings
Nouara Chibane (Algeria): Analysis of the critical conditions for the appearance of PLC instabilities in the Al-2.5%Mg alloy
Mira Filali (Algeria): Physico-chemical and mineralogical characterisation of marls deposits (Algiers)
Alberto Gutiérrez (Spain): A theoretical study on molten alkali carbonate interfaces
Liam Hardwick (United Kingdom): Characterisation and thermodynamic modelling of inconel-718 vacuum brazed joints with nickel-based filler metals
Viktor Hliva (Hungary): Detection of delamination in composite structures with DIC method
Agne Lage (Lithuania): Comparative analysis of real and virtual garments distance ease
Alistair Lyle (United Kingdom): Material characterisation of selectively laser melted haynes 282
Daniel M. Ogris (Austria): Grain growth controlled by grain boundary and boundary junction migration
*Preliminary programme 19/06/2018 - changes may occur!