

# Poster communications

Tuesday, September 27, 2016 from 17:40 to 19:45

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- P1** "On the modelling of rarefied flows under very low pressure plasma spray conditions", Dmitrii IVCHENKO
- P2** "Elaboration of nanostructured coatings by pulsed arc plasma spraying synchronized with liquid injection", Fabrice MAVIER
- P3** "Investigation on Nd<sup>3+</sup> doped TeO<sub>2</sub>-Bi<sub>2</sub>O<sub>3</sub>-Nb<sub>2</sub>O<sub>5</sub> glasses and ceramics dedicated for laser applications", Masayuki TANAKA
- P4** "Synthesis and sintering of SnO<sub>2</sub> nanoparticles", Fabien GIOVANNELLI
- P5** "Synthesis, sintering and thermoelectric properties of (La<sub>1-x</sub>Sr<sub>x</sub>)CoO<sub>3</sub> ceramics", Fabian DELORME
- P6** "Electronic Structure of Cation-Disordered Rocksalt Oxides as Positive Electrode Materials for Lithium-ion Batteries", Yu HASHIMOTO
- P7** "First-principles studies on rocksalt-type cathode materials for sodium ion battery", Takahiro MUKAI
- P8** "Grain-oriented polycrystalline lanthanum silicate oxyapatite grown by reactive diffusion between solid and gases", Koichiro FUKUDA
- P9** "Study of experimental clay mixtures in order to improve the brick clay production", Julie PEYNE
- P10** "Contribution to the thermodynamic study and oxidation behavior of HfB<sub>2</sub>-SiC Ultra-High Temperature Ceramics", Cassandre PIRIOU
- P11** "Geopolymer binder based on the powder or liquid alkali solutions precursors deposit on the bricks", Lamyaa LAOU
- P12** "Geopolymer as new ecomaterial: control of formation and working properties", Ameni GHARZOUNI
- P13** "Fabrication of the hardened bodies of boron carbide (B<sub>4</sub>C) with geopolymer binder using a Warm Press Method", Kosuke KUBOTA
- P14** "Mechanical and structural properties relationship within tellurite-based glass systems around the glass transition temperature", Damien CLAVIER
- P15** "*Ab initio* study of non-linear optical susceptibility of TeO<sub>2</sub>-based glasses: modifier's influence", Jonathan DE CLERMONT-GALLERANDE
- P16** "Transparent ceramics for high power laser applications", Rémy BELON
- P17** "Review of the nonlinear optical properties of various tellurite glass systems and of TeO<sub>2</sub>-alpha single crystal", Jean-René DUCLERE
- P18** "Optimization of the dielectric properties of pure Alumina up to V band for telecommunication", Khalil DRISSI
- P19** "Elaboration and microwave dielectric properties of the potassium niobium tellurate KNbTeO<sub>6</sub>", Morgane DOLHEN
- P20** "Towards a clearer vision within the structure of new glasses in the TeO<sub>2</sub>-TiO<sub>2</sub>-WO<sub>3</sub> system", Mohammed Reda ZAKI
- P21** "Relationships between the structure and the strong optical nonlinearity of the BaTe<sub>2</sub>O<sub>6</sub> crystalline phase", David HAMANI
- P22** "Preparation and microstructural study of bioceramic coating by solution precursor plasma spraying", Rolando Jr. CANDIDATO
- P23** "Interfacial interactions in calcium carbonate materials", Barbara MYSZKA
- P24** "Force spectroscopy study of the interactions between fibronectin and calcium phosphate ceramics", Nadia EL FELSS

- P25** "Ordered mesoporous silica containing polymer composites with drug delivery capability", E. BOCCARDI
- P26** Diagnosis and therapy of precocious tumors with inkjet-printed mesoporous silica microdots, Romain TRIHAN
- P27** "Consolidation of carbonated apatite bioceramics at low temperature by Spark Plasma Sintering", Camille ORTALI
- P28** "Design, processing and characterisation of mesoporous glass with therapeutic ion release capability", Francesca Elisa CIRALDO
- P29** "Processing and Characterization of Mesoporous Bioactive Silicate Glasses Doped with Biologically Active Ions", Seray KAYA
- P30** "High temperature wear resistance of Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub> refractories coated by flame spraying", David FRANCO
- P31** "Drilling indent tests as a promising method to evaluate mechanical properties of coatings manufactured by thermal spraying process", Claudia PALACIO
- P32** "Growth and characterization of Li<sub>2</sub>MoO<sub>4</sub> single crystals for heat-scintillation cryogenic bolometers used in the rare events searches", Matias VELAZQUEZ
- P33** "Adhesion and modelization of crystallographic-bonded alumina coatings on C35 steel", Raphaëlle BERNARDIE
- P34** "Synthesis, characterization and structural modeling of intercalated and nanostructured hydroxalcalite compounds", Lyna TORZUOLI
- P35** "Laser processing of metal oxalate powders to prepare oxides in the form of 2D or 3D parts", Philippe TAILHADES
- P36** "Influence of non-stoichiometry on microstructural and optical properties of Nd:YAG ceramics for lasers applications", Loick BONNET
- P37** "Crystal structure and the ferroelectric domains of the layered perovskite Bi<sub>4</sub>Ti<sub>3</sub>O<sub>12</sub>", Toru ASAKA
- P38** "Synthesis of Core-Shell structures of ZrO<sub>2</sub>:Eu<sup>3+</sup>-deposited metal nanoparticles and fluorescence properties", Kenichiro UENO
- P39** "Ion emission from nano-sharpening glass fiber", Daiko YUSUKE 103423
- P40** "Non hydrolytic solvothermal synthesis and characterisation of metal oxide TiO<sub>2</sub> or SnO<sub>2</sub> nanoparticles", Alex LEMARCHAND
- P41** "Polymer derived ZrB<sub>2</sub>-SiC ceramic composites for ultra-high temperature applications", R. Selwin JOSEYPHUS
- P42** "Molybdenum and titanium nitride films processed in an expanding (Ar-N<sub>2</sub>-H<sub>2</sub>) plasma", Isabelle JAUBERTEAU
- P43** "Synthesis, crystal structure and electron density distributions of a new aluminum oxycarbide", Hiroki BANNO
- P44** "Evolution of thermophysical properties of green bodies during firing", David SMITH
- P45** "Structural stabilization of ultrasmall ZrO<sub>2</sub> nanoparticles due to surface impurities", Roberto GRENA
- P46** "Chemical transformation behavior in the metal/ceramic interface of TBC systems comprising PVD-Al interlayer", Ibrahim ALI
- P47** "Heterostructured ceramic materials based on PZTN-CFO compounds", Pietro GALIZIA
- P48** "Microstructural characterization of very dense and very porous ceramics", Tereza UHLÍŘOVÁ
- P49** "Up-converting and thermal properties of YbAG ceramics doped with Ho<sup>3+</sup> and Er<sup>3+</sup> ions", Robert TOMALA
- P50** "The influence of applied sintering pressure on optical properties of Sr<sub>2</sub>CeO<sub>4</sub> nanoceramics", Mariusz STEFANSKI
- P51** "K<sub>4</sub>SrSi<sub>3</sub>O<sub>9</sub> - New Material for Transparent Ceramic", Dagmara STEFAŃSKA
- P52** "Bulk Silicon doped Boron Carbide", Cyril BESNARD

- P53** "Bacteriophage loading of calcium phosphate bio-ceramics: a tool against infections in bone surgery", Hélène PHILIPPOT
- P54** Solidification of a liquid earth binder via polymer gelation: towards poured earth concretes, Alban PINEL
- P55** "Bioinspired hydroxyapatite dual-structure for bone substitutes", Shaan CHAMARY
- P56** "Processing of magnetoelectric laminate ceramic composites based on the  $\text{CoFe}_2\text{O}_4/(\text{K,Na})\text{NbO}_3$  system", Washington SANTA ROSA
- P57** "Color Laser Marking of Stainless steel", Bc. Lucie FOREJTOVÁ
- P58** "SiFeN-Based Ceramic Paper with Hierarchical Micro/Nano-Morphology", Cong ZHOU
- P59** "(Tailored piezoresistive polymer-derived ceramics for high-temperature force sensors) High temperature strain sensor materials", Felix ROSENBERG
- P60** "Evaluation systems of technical condition for high pressure gas pipelines", Barbora KUNZOVA
- P61** "Tunable porosity in geopolymers and their applications", Elettra PAPA
- P62** "Monitoring residual stress in glass using the luminescence of  $\text{Nd}^{3+}$  as probe", Jonas SCHATZ