Invited Speakers

IC1 : R. Chaim, Densification mechanism maps with plasma fields during spark plasma sintering of ceramic powders.
IC2 : G. Bernard-Granger, Spark Plasma Sintering: an useful tool to manufacture thermoelectrical materials.
IC3 : R. Torrecillas, [et al.], Multifunctional Materials by Spark Plasma Sintering: IP Nanoker experience.
IC4 : G. Cao [et al.], Reactive and non-reactive Spark Plasma Sintering for the fabrication of UHTC materials.
IC5 : J. Garay [et al.], Transmitting, emitting and controlling light: Nanocrystalline transparent ceramics for photonic applications.
IC6 : E. Olevsky, Ultra-Rapid Field-Assisted Consolidation of Powders.
IC7 : T. Misawa [et al.], Influence of frequency of power supply on sintering behavior of SPS process.

Oral Communications

Theme: Densification Mechanisms
O1 : E. Grigoryev [et al.], The densification kinetics of powder materials at high-voltage consolidation.
O2 : E. Aleksandrova [et al.], In-Situ Bi-Axial Spark-Plasma Sintering Dilatometry.
O3 : Z. Trzaska [et al.], TEM investigation of microscopic densification mechanisms of TiAl elaborated by SPS.
O4 : R. Marder [et al.], Spark and plasma in spark plasma sintering of ceramics: soft versus rigid particles.
O5 : A. Proietti [et al.], Synthesis of olivine-pyroxene Earth-mantle analogues using Spark Plasma Sintering.

Theme: FGM
O6 : S. Meir [et al.], SPS processed Al_2O_3/Ti graded composite.
O7 : M. Schwertz [et al.], Spark Plasma Sintering technology applied to polymer-based composites for structural light weighting.

Theme : Multimaterials
O8 : K. Vanmeensel [et al.], Spark plasma sintering of tungsten based alloys, property assessment and up scaling possibilities, K.
O9 : L. Castro [et al.], Recent progress in the development of ceramic batteries by SPS.
O10 : F. Lalère [et al.], An all-solid state NASICON sodium battery operating at 200°C assembled by Spark Plasma Sintering.
O11 : S. Dupuis [et al.], Influence of the powder quality on the dielectric behavior of $Ba_{0.6}Sr_{0.4}TiO_3$ nanoceramics obtained by SPS.
O12 : M. Albino [et al.], Barium strontium titanate (BST)-TiO_2 ceramics by SPS: architecture, microstructure and dielectric properties
O13 : U. Anselmi-Tamburini [et al.], Low-Temperature Protonic Conductivity in Nanometric TiO_2 obtaned by HP-SPS.
O14 : D. Bregiroux [et al.], From crystal to ceramic: fabrication of a low thermal expansion material.
O15 : N. Pradeilles [et al.], First approach of electromagnetic phenomena during the first stages of the SPS treatment.

Theme: Joining Materials
O16 : O. Guillon [et al.], Joining ZrB_2-graphite by FAST/SPS: joints formation and the interfacial structures.

Theme: Composites / nanocomposites
O17 : S. Decker [et al.], Enhanced mechanical properties of a 5vol.% Mg-PSZ reinforced TRIP-matrix composite by a varied processing.
O18 : C. Arnaud [et al.], Carbon nanotube-copper composite: powder, SPS, microstructure and mechanical properties.
O19 : B. Lanfant [et al.], Nano-SiC/CNT composites sintered by SPS: CNT amount effect on mechanical, thermal and electrical Properties.
O20 : I. Agote [et al.], Titanium Matrix Composites by SPS: Study of the effect of type of reinforcements.
O21 : L. Boilet [et al.], Effect of cBN and Co content on densification, microstructure, mechanical properties and wear performance of SPS cBN/WC-Co composites.
O22 : R. Billard [et al.], Synthesis by SPS of a composite of barium aluminosilicate ($BaAl_2Si_2O_8$) reinforced by oxide fibers.
O23 : G. Langa Thabiso [et al.], Microstructural and Phase Characterization of Spark Plasma Sintered WC-3YSZ Nanocomposites.

Theme: transparent materials
O24 : M. Nanko [et al.], Transparent oxide ceramics prepared by pulsed electric current sintering.
O25 : A. Largeteau [et al.], Critical parameters to obtain transparent ceramics by SPS: Cubic and Non-cubic crystalline systems
O26 : M. Sokol [et al.], Transparent polycrystalline magnesium aluminate spinel (PMAS) processed by high pressure SPS technique.
O27 : A. Katz [et al.], Evolution of Er:YAG transparent ceramics microstructures using LiF doping by Spark Plasma Sintering (SPS)

Theme: Modeling/Simulations
O28 : D. Giuntini [et al.], Assessment of Electrical Contact Resistance in Spark-Plasma Sintering Graphite Tooling,
O29 : Manière C. [et al.], Electrical, Thermal and Mechanical modeling of Spark Plasma Sintering.

Theme: New developments
O30 : J. Noudem, [et al.], Densification of AISI 316L stainless steel by spark plasma sintering.
O31 : D. Fabrègue [et al.], Elaboration of architectured materials by spark plasma sintering.
O32 : S. Grasso [et al.], Field effects in Electric Current Assisted Sintering (ECAS) techniques.
O33 : J. Huber, FAST Direct Hot-Pressing (FAST DHP), the industrial equivalent to SPS.
O34 : E. Bichaud [et al.], Flash sintering of Alumina / Zirconia ceramic composites.
O35 : V. Dupont [et al.], Effect of hybrid heating on the temperature distribution during SPS sintering of large volume parts.
O36 : S. Rollin-martinet [et al.], Thermoelectric properties of $Cu_{12}Sb_4S_{13}$ tetrahedrite compounds sintered by Spark Plasma Sintering.
O37 : T. Voisin, [et al.], Development of titanium aluminides by SPS: to a low cost near-net shape blade with enhanced properties.

Posters

P1 : J. Lesseur [et al.], 3D imaging by X-ray microtomography of ferroelectric composite materials and numerical modelling of their properties.
P2 : J. Wachowicz [et al.], WCCo/cBN produced by the Pulse Plasma Sintering (PPS) method.
P3 : T. Lapauw [et al.] Reaction sintering of Mn+1AXn phase ceramics by spark plasma sintering.
P4 : V. Igor [et al.], Spark Plasma Sintering technique is as effective method for the synthesis and sintering of the thermoelectric materials.
P5 : M. Yurlova [et al.], Synthesis and Consolidation of Fe-Ti-C Powder System by Field-Assisted Techniques.
P6 : M. Legallais [et al.], Study by electrical methods of the oxidation state of Barium Titanate ceramics elaborated by SPS processes.
P7 : L. Lebedeva [et al.], Field-Assisted Consolidation of Zirconium and Zirconium Alloy Powders.
P8 : I. Bogachev [et al.], Densification Kinetics of Spark-Plasma Sintering of ODS Steel Powders.
P9 : T. Al naboulsi [et al.], Spark plasma sintering of Barium titanate derived from mechanical activation.
P10 : M. Yurlova [et al.], Comparative Analysis of High-Voltage Compaction, SPS and Hot-Pressing of ZrN and TiN Powders.
P11 : G. Antou [et al.], A way to identify pressure-assisted sintering mechanisms: application to hot pressing and SPS of alumina.
P12 : N. Tercé [et al.], SPS synthesis of Fe-rich olivine aggregates.
P13 : O. Gerber [et al.], Porous iron oxide@graphene nanocomposites processed by SPS.
P14 : G. Philippot [et al.], Spark Plasma Sintering processing of supercritical $Ba_{1-x}Sr_xTiO_3$ nanoparticles to study size and strain effects on the structural and dielectric properties
P15 : Z. Trzaska [et al.], Electromigration experiments in the Ag-Zn system in SPS conditions.
P16 : M. Prakasam [et al.], Ruby and Ti: Sapphire transparent ceramics by spark plasma sintering (SPS) for laser applications.
P17 : G. Fantozzi [et al.], Effect of Mg, Zr, La doping on sintering, microstructure and transparency of alumina sintered by SPS..
P18 : G. Bonnefont [et al.], Transparent $MgAl_2O_4$ Spinel obtained by SPS.
P19 : I. Agote [et al.], Processing of thermoelectric materials by SPS.
P20 : U. Kus [et al.], Study of the Spark Plasma Sintering of the Ta6V alloy.
P21 : Ch. Laurent [et al.], Metal-oxide composite coatings formed *in situ* during SPS of oxide powder.
P22 : F. Nozahic[et al.], Spark Plasma Sintering of ceramic-intermetallic composites for self-healing thermal barrier systems.