



Organized by the
Italian Ceramic Society
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XVI
ECerS
CONFERENCE

TORINO
16-20 JUNE
2019



XVI CONFERENCE AND EXHIBITION OF THE EUROPEAN CERAMIC SOCIETY



POSTER SESSIONS

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Poster sessions at Politecnico will take place in the Poster Area in “Pavilion T” on the following days:

POSTER SESSION 1, POLITECNICO - 18 JUNE

Date: **Tuesday, 18 June from 18.00 to 19.00**

Set-up: **Monday, 17 June from 10.30**

Removing: **Tuesday, 18 June at 19.00**

- S1** Innovative processing and synthesis
- S2** HT processes and advanced sintering
- S3** Modelling of ceramics
- S4** Advanced structural ceramics, composites and refractories
- S5** Ceramics and glasses for healthcare
- S6** Ceramics for energy conversion and storage
- S7** Functional Ceramics

POSTER SESSION VALENTINO CASTLE - 18 JUNE

Date: **Tuesday, 18 June from 18.00 to 19.00**

Set-up: **Monday, 17 June from 13.00**

Removing: **Tuesday, 18 June at 19.00**

POSTER SESSIONS

POSTER SESSION 2, POLITECNICO - 20 JUNE

Date: **Thursday, 20 June from 12.00 to 13.00**

Set-up: **Wednesday, 19 June from 08.00**

Removing: **Thursday, 20 June within 17.00**

- S1** Innovative processing and synthesis
- S2** Modelling of ceramics together with IV Cermodel:
“Modelling and simulation meet innovation in ceramics technology”
- S4** Advanced structural ceramics, composites and refractories
- S6** Ceramics for energy conversion and storage
- S7** Functional Ceramics
- S8** Silicate Ceramics

GENERAL INFORMATION

Each poster has to be fixed to the panel reporting the same poster's number, as the one given by the organization. Poster panel height is cm 250 and the usable surface in portrait size is cm. 90 (width) and cm. 160 (height). Tape to affix posters will be available in the poster area.

Authors are requested to be next to their poster during the Poster Sessions in order to answer any questions.

Poster left in the poster boards will be removed by the organization.

Board Nr.	Presenting	Title	ID Abs
S01: INNOVATIVE PROCESSING AND SYNTHESIS			
01	Islam Abdeldjalil Bouakaz	THE EFFECT OF WALL THICKNESS AND PORES SIZE ON THE MECHANICAL PROPERTIES OF HYDROXYAPATITE BASED GYROIDS PRODUCED BY STEREO LITHOGRAPHY.	787
02	Qirong Chen	HYBRID ADDITIVE/SUBTRACTIVE MANUFACTURING SYSTEM TO PREPARE DENSE AND COMPLICATED CERAMIC PARTS	740
03	Simge Cinar	INCREASING SOLIDS CONTENT OF NANOPOWDER SUSPENSIONS AND THE DENSITY OF GREEN BODIES THEREOF	961
04	Hugo Curto	ADDITIVE MANUFACTURING AND MICROWAVE SINTERING OF ALUMINA	713
05	Chloe Goutagny	DEVELOPMENT OF BIO-CERAMIC RESIN-BASED SLURRY IN ORDER TO MANUFACTURE DENSE CERAMIC PARTS WITH THE STEREO LITHOGRAPHY PROCESS	598
06	Yani Guo	FACILE PREPARATION AND OIL-WATER SEPARATION OF HYBRID MEMBRANE BASED ON PSMA AND SiO ₂ NANO-CERAMIC ADDITIVE	578
07	Sven Kriegseis	DEVELOPMENT OF A SUPPORTSUSPENSION FOR THE DIRECT INKJET PRINTING PROCESS	471
08	Francesca Mazzanti	OPTIMIZATION OF LIGHT-ACTIVATED RESINS FOR ADDITIVE MANUFACTURING OF ZIRCONIA	389
09	Martina Orlovská	INFLUENCE OF PRINTING PARAMETERS ON PROPERTIES OF ALUMINA CERAMICS PREPARED BY FUSED FILAMENT FABRICATION	317
10	Stefan Pfeiffer	SHAPING OF COMPLEX ALUMINA COMPONENTS VIA LASER ADDITIVE MANUFACTURING OF SPRAY-DRIED CERAMIC GRANULES	286
11	Kristína Randová	DEVELOPMENT OF COMPOSITE FILAMENTS FOR FUSED DEPOSITION MODELING OF OXIDE CERAMICS	258

Board Nr.	Presenting	Title	ID Abs
12	Marcello Romagnoli	PREPARATION OF BaCe _{0.65} Zr _{0.20} Y _{0.15} O _{3-δ} -Ce _{0.85} Gd _{0.15} O _{2-δ} ALL-CERAMIC COMPOSITE MEMBRANES BY 3D-PRINTING TECHNIQUE	239
13	Alex Sangiorgi	THREE DIMENSIONAL PRINTING OF PHOTOCATALYTIC TITANIUM DIOXIDE-BASED FILTERS	212
14	Giovanni Urruth Bruno	ABSORBANCE ENHANCERS OF CERAMIC POWDERS FOR SELECTIVE LASER SINTERING	97
15	Peter Veteska	THERMAL DEBINDING AND SINTERING OF POLYMER-CERAMIC COMPOSITE FILAMENTS FOR FDC	85
S02: HT PROCESSES AND ADVANCED SINTERING			
16	Caroline Gajdowski	THERMOELECTRIC PROPERTIES OF Al-DOPED ZnO FABRICATED BY FLASH SINTERING	630
S03: MODELLING OF CERAMICS			
17	Jeong Min Cheon	COUPLED PHASE DIAGRAM EXPERIMENT AND THERMODYNAMIC ASSESSMENT OF THE Li ₂ O-ZnO SYSTEM	738
18	Pavel Grinchuk	MOLECULAR DYNAMICS SIMULATION OF THE DENSE PACKING OF SiC BIDISPERSE POWDER MIXTURE	589
19	Christelle Harnois	EXPERIMENTAL AND NUMERICAL INVESTIGATION OF THE EFFECT OF SUSCEPTOR ARRANGEMENT DURING SINGLE-MODE MICROWAVE SINTERING	565
20	Barbara Horvat	THEORETICAL ESTIMATION OF COMPOSITION OF AMORPHOUS PHASE IN THE PRECURSORS FOR ALKALI ACTIVATED SYNTHESIS	552
21	Ehsan Hosseini	FINITE ELEMENT MODELING: A FIRST STEP TOWARD THE STUDY OF COUPLING BETWEEN PYROELECTRIC AND AND SOFT FERROMAGNETIC BASED EXTRINSIC MULTIFERROICS	550
22	Byung Nam Kim	THEORETICAL ANALYSIS OF DENSIFICATION KINETICS IN FINAL SINTERING STAGE OF NANO-SIZED ZIRCONIA	502

Board Nr.	Presenting	Title	ID Abs
S03: MODELLING OF CERAMICS			
23	Zviad Kovziridze	FAILURE STRESS ENERGY FORMULA	477
24	Ewa Litwinek	INFLUENCE OF COMPOSITION CHANGES ON VISCOELASTIC PROPERTIES OF CLAY-CEMENT BINDERS	430
25	Vojislav Mitic	MODELING THE THERMAL AND ELECTRICAL CONDUCTIVITY RELATION OF SYNTHESIZED DIAMONDS WITHIN FRACTAL NATURE ANALYSIS	87
26	Diego Alejandro Ochoa Guerrero	ELECTRIC-FIELD-INDUCED PHASE TRANSFORMATION IN FERROELECTRIC MATERIALS STUDIED BY TEMPERATURE-DEPENDENT NONLINEAR DIELECTRIC CHARACTERIZATION	323
27	Andrey Tikhonov	INFLUENCE OF POROSITY, PORE CHANNEL SIZE AND GEOMETRICAL SIZES OF BIOIMPLANTS ON THEIR PERMEABILITY	119
S04: ADVANCED STRUCTURAL CERAMICS, COMPOSITES AND REFRACTORIES			
28	Eszter Bódis	SiC/NANO-DIAMOND CERAMIC COMPOSITES SINTERED BY SPS	795
29	Miroslaw Bucko	HYDROTHERMALLY CRYSTALLIZED ZrO ₂ -MgO NANOPOWDERS. WAY OF PROCESSING AND PROPERTIES	774
30	Kyoon Choi	MECHANICAL PROPERTIES OF CF/SiC COMPOSITE USING A COMBINED PROCESS OF CHEMICAL VAPOR INFILTRATION AND PRECURSOR INFILTRATION PYROLYSIS	729
31	Valerio Curti	NEW FUNCTIONAL PROPERTIES OF HIGH ENTROPY OXIDES	802
32	Rafal Cygan	THE INFLUENCE OF SHELL MOULDS STRENGTHENED BY GLASS FIBRES AND METAL POWDERS IN THE TURBINE BLADES CASTING PROCESS	712
33	Nino Darakhvelidze	OBTAINING OF THE COMPOSITE OF BETA-SIALON MATRIX VIA METAL-THERMAL AND NITROGEN PROCESSES IN THE B ₄ C-SiC-Al ₂ O ₃ -Si-Al-CARBON FIBER-GEOPOLYMER SYSTEM	701

Board Nr.	Presenting	Title	ID Abs
34	Mihai Eftimie	RECYCLED SINTERED SODA-LIME GLASS AS SUBSTRATE FOR GRAPHENE	667
35	Suzana Filipovic	ELECTRICAL AND MECHANICAL PROPERTIES OF ALUMINA DOPED WITH TRANSITION METAL OXIDES SINTERED AT 1400°C	647
36	Mikhail Grega	STRUCTURE AND CONDUCTIVITY OF 9CaO-91ZrO ₂ CERAMICS, OBTAINED FROM FREEZE-DRIED POWDER WITH CRYOPROTECTANT ADDITION	592
37	Lillia Haddour	TOUGHNESS AND DIELECTRIC BEHAVIOR OF POLYCRYSTALLINE ALUMINA.	574
38	Chi Yuen Huang	PREPARATION OF TRANSLUCENT ALUMINA CERAMICS THROUGH SLIP CASTING AND VACUUM SINTERING	545
39	Elise Hugon	SYNTHESIS OF Ti-, Zr- AND Hf-CONTAINING MAX CARBIDE PHASES BY ELECTRIC ARC FURNACE AND BY SPS	537
40	Lucile Joly-Pottuz	TEM OBSERVATION AND IN SITU COMPRESSION TESTS OF TRANSITION ALUMINA PREPARED BY HIGH PRESSURE COMPACTION AT ROOM TEMPERATURE	525
41	Ilona Kieliba	THERMAL CYCLING BEHAVIOUR OF ALUMINA-SPINEL CASTABLES	503
42	Roman Kontic	DEVELOPMENT OF CERAMIC BASED STATIONARY PHASES FOR CHROMATOGRAPHY	482
43	Emese Kurovics	EXAMINATION OF MULLITE CERAMIC SPECIMENS MADE BY CONVENTIONAL CASTING METHOD FROM KAOLIN AND SAWDUST	464
44	Ana Morales Rodríguez	HYDROTHERMAL DEGRADATION IN ZIRCONIA COMPOSITES WITH DIFFERENT BIDIMENSIONAL GRAPHENE-BASED NANOSTRUCTURES	364
45	Maria Elena Payret Arrúa	CLAY CATALYTIC ACTIVITY Na35 BENTONITE IN BIODIESEL PRODUCTION	298

Board Nr.	Presenting	Title	ID Abs
S04: ADVANCED STRUCTURAL CERAMICS, COMPOSITES AND REFRACTORIES			
46	José Ignacio Peña	ULTRAFINE FIBROUS CERAMICS WITH IMPROVED MECHANICAL PROPERTIES GROWN BY THE LASER-HEATED FLOATING ZONE TECHNIQUE	296
47	Johannes Rauchenecker	INVESTIGATION OF SINTERING PARAMETERS FOR CONSOLIDATING ALUMINUM NITRIDE CERAMICS	256
48	Antonio Javier Sanchez Herencia	DENSE ALUMINA MULLITE COMPOSITE CERAMICS FROM ALUMINA AND A SPODUMENE-ALBITE FELDSPAR BINARY MIXTURES; PROCESSING AND PROPERTIES.	931
49	Yanan Sun	STUDY ON THE TRANSFORMATION PROCESS FROM METALLIC POLYMER PRECURSOR TO SOLID SOLUTION $HfTaC_2$	151
50	Gulnazi Tanatadze	CERAMIC COMPOSITE FOR MANUFACTURING OF ARMORED ELEMENTS	130
51	Dmitrii Titov	SINTERING PROCESSES AND PHASE FORMATION STUDY OF $MoSi_2$ - $NbSi_2$ CERAMIC	954
52	Maria Traianidis	MONITORING OF REFRACTORY CASTABLES DRYING	86
53	Servet Turan	DIRECTIONAL PROPERTY CHARACTERIZATION OF HOT PRESSED B_4C - TiB_2 COMPOSITES DOPED WITH WC	202
54	Servet Turan	ANISOTROPIC PROPERTIES OF SPARK PLASMA SINTERED IN-SITU W_2B_5 - B_4C COMPOSITES	313
55	Hakan Ünsal	IN SITU SYNTHESIS AND CHARACTERIZATION OF B_4C - TiB_2 FIBERS COMPOSITES	30
56	Mária Vozárová	THE INFLUENCE OF GRAIN SIZE ON THE DENSIFICATION AND MICROSTRUCTURAL EVOLUTION OF BORON CARBIDE CERAMICS DURING PRESSURELESS SINTERING	67
57	Milan Vuksic	COMPARISON OF CONVENTIONAL AND UNCONVENTIONAL SINTERING OF ALUMINA CERAMICS CONTAINING WASTE ALUMINA POWDER OBTAINED BY SLIP CASTING	65

Board Nr.	Presenting	Title	ID Abs
58	William Rainforth	SPS SINTERING OF ZIRCONIA TOUGHENED ALUMINA COMPOSITES WITH TITANIA ADDITION AND ITS EFFECT ON MICROSTRUCTURE	51
59	Tailin Zhang	SYNTHESIS OF HIGH-ENTROPY ULTRA-HIGH TEMPERATURE CERAMICS	11
S05: CERAMICS AND GLASSES FOR HEALTHCARE			
60	Ecaterina Andronescu	NANOMATERIALS FOR BIO-IMAGING, BASED ON RARE EARTH ELEMENTS DOPED HYDROXYAPATITE	840
61	Federica Banche Niclot	LARGE-PORE MESOPOROUS BIOACTIVE GLASSES FOR BONE GROWTH FACTOR ENCAPSULATION AND RELEASE.	823
62	Alexandra Catalina Birca	MULTIFUNCTIONAL SYSTEMS BASED ON HYDROXYAPATITE AND ANTITUMOR AGENTS FOR BONE CANCER TREATMENT	801
63	Salim Brahim	SYNTHESIS AND CHARACTERIZATION OF CALCIUM PHOSPHATE BIO-CERAMICS POWDER THROUGH THE DISSOLUTION OF DJEBEL ONK PHOSPHATE ORE	779
64	Cristina Busuioc	FABRICATION OF MINERAL SCAFFOLDS FOR HARD TISSUE IMPLANTS: SYNTHESIS ROUTES	770
65	Angel Caballero	THE QUATERNARY SYSTEM CaO - P_2O_5 - ZnO - MgO AS A TOOL FOR DISCUSSING THE EFFECT OF ZnO AND MgO ON THE PHASE STABILITY, DISSOLUTION AND BIOLOGICAL BEHAVIOUR OF DOPED TRICALCIUM PHOSPHATE MATERIALS	767
66	Pin Yi Chen	EVOLUTION OF MICROSTRUCTURES AND MECHANICAL PROPERTIES IN HYDROXYAPATITE BIO-CERAMICS BY SINTERING TEMPERATURE	741
67	Izabela Constantinoiu	SOL-GEL DERIVED MINERAL SCAFFOLDS FOR HARD TISSUE APPLICATIONS	721
68	Karolina Dudek	ELECTROPHORETIC DEPOSITION AND CHARACTERIZATION OF MULTIFUNCTIONAL HYBRID LAYERS ON NITI SHAPE MEMORY ALLOY	933

Board Nr.	Presenting	Title	ID Abs
S05: CERAMICS AND GLASSES FOR HEALTHCARE			
69	J.A. Ferreira	INFLUENCE OF COLD PLASMA TREATMENT OF N ₂ , H ₂ AND O ₂ ON THE FORMATION OF CALCIUM PHOSPHATES ON THE SURFACE OF Al ₂ O ₃ /ZrO ₂ NANOCOMPOSITES	207
70	Isabel Izquierdo-Barba	DESIGNING NANOSYSTEMS FOR BIOMEDICAL APPLICATIONS	960
71	Gabrielle Anne Laguisma	ATOMISTIC SIMULATION OF BETA-TRI CALCIUM PHOSPHATE A RESORBABLE BIOCERAMIC – CLARIFICATION OF CALCIUM PARTIAL OCCUPANCY AND STATIC DISORDER IN THE CRYSTAL STRUCTURE	456
72	Janis Locs	BIOMIMETIC AMORPHOUS CALCIUM PHOSPHATE	957
73	Dongliang Lyu	ASIAN ELEMENTS ON MEISSEN PORCELAIN	416
74	Sandra Regina Masetto Antunes	PREPARING TiO ₂ -DOPED BOROSILICATE FOAM GLASS COATED WITH HYDROXYAPATITE TO BE USED AS SCAFFOLDS	395
75	Nayarit Alexandra Mata	SYNTHESIS AND IN VITRO CHARACTERIZATION OF 3D MULTILAYER POROUS SCAFFOLDS	393
76	Ionela Andreea Neacsu	BIOMIMETIC BIOCOSPOSITE BASED ON Zn ²⁺ DOPED HYDROXYAPATITE FOR BONE TISSUE ENGINEERING	338
77	Adrian Ionut Nicoara	COMPOSITE SCAFFOLDS BASED ON CALCIUM PHOSPHATES AND BARIUM TITANATE FOR HARD TISSUE IMPLANTS	333
78	Maria Antonia Sainz	FABRICATION AND ENHANCED MECHANICAL PROPERTIES OF TRICALCIUM PHOSPHATE CERAMICS DOPED WITH ZnO AND ZnO-MgO BY SPARK PLASMA SINTERING	219
79	Brahimi Salim	SYNTHESIS AND CHARACTERIZATION OF CALCIUM PHOSPHATE BIOCERAMICS POWDER THROUGH THE DISSOLUTION OF DJEBEL ONK PHOSPHATE ORE	215

Board Nr.	Presenting	Title	ID Abs
80	Eugenia Tanasa	ELECTROSPUN GELATIN NANOFIBERS LOADED WITH MAGNETITE NANOPARTICLES AS BIOMIMETIC SCAFFOLDS FOR TISSUE REGENERATION	131
81	Darta Ubele	INFLUENCE OF HYDROTHERMAL TREATMENT ON STORED CHARGE DENSITY OF THERMALLY SPRAYED HYDROXYAPATITE	103
82	Chiara Vitale-Brovarene	NOVEL SMART AND RESORBABLE DEVICES TO TREAT OSTEOPOROTIC FRACTURES: THE CHALLENGE OF THE GIOTTO PROJECT	74
83	Jan Vojtisek	CERAMICS COMPOSITES BASED ON HYDROXYAPATITE AND CALCIUM ALUMINA PHASE	72
84	Eniko Volceanov	Ca ²⁺ AND Mg ²⁺ TANDEM INFLUENCE ON PHASE TRANSFORMATION, SINTERING AND CHEMICAL STABILITY IN ARTIFICIAL SALIVA OF ZIRCONIA - ALUMINA BIOCERAMIC	70
S06: CERAMICS FOR ENERGY CONVERSION AND STORAGE			
85	Beyza Bakkal	THERMOELECTRIC PROPERTIES AND PHASE EQUILIBRIA IN CERIA DOPED Ca ₃ Co ₄ O ₉ CERAMICS	826
86	Neetu Bansal	ASSESSING CONDUCTION AND DIFFUSION BEHAVIOUR OF ALKALI IONS IN CALCIUM SILICATE GLASSES	970
87	Fatima Zohra Boutebakh	DEPOSITION TIME EFFECT ON CZTS THIN FILMS PROPERTIES FOR PHOTOVOLTAIC APPLICATION	969
88	Kincal Cem	EXPERIMENTAL PHASE STUDIES IN THE La-X-Ni-O (X=Mg, Ca, Sr) SYSTEM	748
89	Chin Yi Chen	PHOTOCATALYTIC PROPERTIES OF CERIA/POLYANILINE HETEROSTRUCTURED POWDER	743
90	Jing Heng Chen	ENHANCED PHOTOCATALYTIC CO ₂ REDUCTION ACTIVITY USING HETEROSTRUCTURED CHALCOGENIDE COMPOSITE PHOTOCATALYST	742
91	Adilson Luiz Chinelatto	SYNTHESIS AND CHARACTERIZATION OF LaNi _{1-x} Cr _x O _{3-δ} FOR USE IN FUEL CELLS	736

Board Nr.	Presenting	Title	ID Abs
S06: CERAMICS FOR ENERGY CONVERSION AND STORAGE			
92	Fabio Coral Fonseca	TUNING MASS DIFFUSION IN CERIA SHAPED NANOCRYSTALS	971
93	Anil Demirkesen	EXPERIMENTAL PHASE STUDIES AND THERMOELECTRIC PROPERTIES IN DOPED $\text{Ca}_3\text{Co}_4\text{O}_9$ CERAMICS	685
94	Talita Gishitomi Fujimoto	PREPARATION AND CHARACTERIZATION OF SOLID ELECTROLYTE COMPOUNDS CONSISTING OF DOPED LANTHANUM GALLATE AND YTTRIA STABILIZED ZIRCONIA	636
95	Tzyy Leng Horng	IMPROVED PHOTOCATALYTIC HYDROGEN EVOLUTION OF ZINC SULFIDE WITH METAL ION MODIFICATION VIA A MICROWAVE-ASSISTED SOLVOTHERMAL METHOD	553
96	Seungbok Lee	ENHANCING THE SINTERING PROPERTIES AND IMPROVING MICROSTRUCTURE OF GADOLINIUM-DOPED-CERIA INTERLAYER AT A LOWER TEMPERATURE BY DOPING WITH TRANSITION METAL ELEMENTS FOR SOFC APPLICATION	444
97	Gabriel Lima De Oliveira	TiO_2 MICROSPHERES OBTAINED BY INTERNAL GELATION AND ITS PHOTOCATALYTIC PROPERTIES	433
98	Kathy Sabolsky	REDOX STABILITY OF ALTERNATIVE CERAMIC COMPOSITIONS FOR SOLID OXIDE FUEL CELL ANODES	225
99	Tae Ho Shin	SURFACE MODIFIED $\text{Ce}(\text{Mn},\text{Fe})\text{O}_2 / \text{La}(\text{Sr})\text{Fe}(\text{Mn})\text{O}_3$ AS CERAMIC ANODE FOR DIRECT-HYDROCARBON FUEL SOLID OXIDE FUEL CELLS	947
100	Chien Yie Tsay	HYDROTHERMALLY SYNTHESIZED TUNGSTEN TRIOXIDE NANOROD ARRAY AND ZINC OXIDE NANOSHEET ARRAY COMPOSITION STRUCTURES FOR ENHANCED PHOTOCATALYTIC PROPERTIES	110
101	Sangkuk Woo	OPTIMIZATION OF M-DOPED STRONTIUM FERRITE SYMMETRIC ELECTRODE AND CERAMIC ELECTROLYTES FOR SYMMETRICAL SOLID OXIDE FUEL CELLS	732
102	Katerina Zakova	SYNTHESIS OF CERAMIC MATERIALS BASED ON Ca-Co-O SYSTEM BY CITRIC ACID METHOD	23

Board Nr.	Presenting	Title	ID Abs
S07: FUNCTIONAL CERAMICS			
103	Doo Hyun Choi	FABRICATION OF TRANSPARENT CALCIUM LANTHANUM SULFIDE CERAMICS BY OPTIMIZING THE HEATING RATE IN SPARK PLASMA SINTERING	733
104	Pavel Ctibor	STRUCTURE AND ELECTRICAL PROPERTIES OF YTTRIUM OXIDE FIRED BY SPARK PLASMA SINTERING OR SPRAYED BY PLASMA TORCH	916
105	Sena Dayioglugil	THE EFFECTS OF RARE EARTH DOPING ON PERSISTENT PHOSPHORESCENCE PROPERTIES OF ZINC BOROSILICATE GLASSES	915
106	Rabah Djafar	ELABORATION AND CHARACTERIZATION OF CERAMICS MATERIALS FOR ELECTRONIC APPLICATIONS	914
107	Kuei-Chih Feng	LTCC DEVELOPMENT OF LOW-K AND MID-K CO-FIRED MATERIALS AND SILVER DIFFUSIVE BEHAVIOR	651
108	Pierre André Goujon	RHEOLOGY STUDY OF SLURRY MADE WITH $\text{Ca}(\text{Zr}_x\text{Ti}_{1-x})\text{O}_3$	903
109	Douglas Gouvea	ADDITIVE STABILIZATION OF MAGHMITTE FOR USE AS A PHOTOCATALYST	925
110	Hatice Kubra Gumus	GEL COMBUSTION SYNTHESIS AND LUMINESCENT PROPERTIES OF RARE-EARTH CO-DOPED CaTiO_3 RED PHOSPHORS	909
111	Nikolett Hegedüs	HYDROGEN EFFECT ON THE OPTICAL AND MECHANICAL PROPERTIES OF SIN THIN FILMS	563
112	Jiwon Hong	MICROSTRUCTURAL AND OPTICAL PROPERTIES OF THE ZnS CERAMICS OBTAINED BY SPARK PLASMA SINTERING OF HYDROTHERMALLY SYNTHESIZED POWDERS	554
113	Cheng Liang Huang	COLOR-TUNABLE $\text{Dy}^{3+}/\text{Tb}^{3+}$ CO-DOPED $\text{LiLa}(\text{MoO}_4)_2$: Sm^{3+} PHOSPHORS FOR SINGLE-PHASED WHITE-LIGHT-EMITTING LUMINESCENCE	546

Board Nr.	Presenting	Title	ID Abs
S07: FUNCTIONAL CERAMICS			
114	Andrzej Kruk	PREPARATION AND CHARACTERIZATION OF METAL TRI-DOPED Y_2O_3 FOR MAGNETO-OPTICAL APPLICATION	469
115	Aidong Li	FABRICATION AND CHARACTERIZATIONS OF HfO_2 -BASED BILAYER ULTRATHIN FILM MEMRISTORS FOR ELECTRONIC SYNAPSE APPLICATIONS	888
116	Zhidong Lin	THE PREPARATION AND OZONE GAS-SENSING PERFORMANCE OF Co_3O_4 NANOBLOCKS	431
117	Ting Liu	NEW THERMAL-SENSITIVE PROPERTIES OF $BiTiO_3$ CERAMICS FOR HIGH TEMPERATURE NTC THERMISTORS	428
118	Md Saiduzzaman	HYDROTHERMAL SYNTHESIS OF NEW BKBO BASED DOUBLE PEROVSKITE SUPERCONDUCTOR	220
119	Slavica Savic	NANOCASTING SYNTHESIS OF MESOPOROUS SnO_2 FOR HUMIDITY SENSOR APPLICATION	201
120	Babu Singarapu	FABRICATION OF TRANSPARENT AND NANOSTRUCTURED DOPED AND UNDOPED $NaGdF_4$ GLASS-CERAMIC COATINGS FOR OPTOELECTRONIC DEVICE APPLICATIONS	175
121	Saide Umerova	SELF-ASSEMBLY OF POLYMER - CERAMIC NANOPARTICLES CLUSTERS INTO THIN FILMS OBTAINED BY SCREEN-PRINTING METHOD	967
122	Igor Zajc	THE JUMP-LIKE PTCR EFFECT IN METAL- $BaTiO_3$ COMPOSITE MAGNETIC PTC THERMISTORS	25

Board Nr.	Presenting	Title	ID Abs
S09: CULTURAL HERITAGE			
1	Barbara Cavallaro	PRELIMINARY DATA ABOUT TILES FROM S. MARCO HILL IN PATERNÒ (CATANIA- SICILY)	750
2	Antonio Doménech-Carbó	ELECTROCHEMICAL SCREENING OF INKA POTTERY OF DIFFERENT PERIODS FROM THE QOTAKALLI ARCHAEOLOGICAL SITE IN THE AREA OF CUSCO (PERÚ)	678
3	Kehui Hu	STAINED GLASS CERAMIC JEWELRY AND ART BY CERAMIC STEREOLITHOGRAPHY	548
4	Jinho Kim	FORMULATION OF GLASS-CERAMIC INK FOR DIGITAL INK-JET PRINTING	495
5	Yoshihiro Kusano	MICROSTRUCTURE AND FORMATION MECHANISM OF GOLD-COLORED JAPANESE BIZEN STONEWARE	463
6	Mauro Francesco La Russa	THE FIRST ARCHAOMETRIC CHARACTERIZATION OF DECORATED POTTERY FROM THE ARCHAEOLOGICAL SITE OF VILLA DEI QUINTILI (ROME, ITALY)	459
7	Paola Novara	MEDIEVAL AND POST-MEDIEVAL ESCAVATION POTTERY IN THE NATIONAL MUSEUM OF RAVENNA. A DIFFICULT RECONSTRUCTION OF AN UNKNOWN HERITAGE	325
8	Galina Papulova	IMPROVEMENT OF DESIGN OF CERAMIC PRODUCTS WITH WATER PAINT SOLUTIONS IN THE PAINT COMPOSITION	304
9	Gianluca Poldi	INTEGRATED ANALYTICAL TECHNIQUES ON A PAINTED TERRACOTTA BY LUCA DELLA ROBBIA	276
10	Istem Sencan	PERLITIC REDUCTION GLAZES COLORED BY COPPER(II) OXIDE	192

Board Nr.	Presenting	Title	ID Abs
S01: INNOVATIVE PROCESSING AND SYNTHESIS			
01	Gye Seok An	FACILE SYNTHESIS OF YOLK-SHELL $\text{Fe}_3\text{O}_4@\text{SiO}_2$ NANO-SPHERES AND THEIR ADSORPTION PROPERTY FOR THE PLASMID DNA	843
02	Mario Borlaf	FLAME SPRAY SYNTHESIS FOR THE PRODUCTION OF HIGHLY ACTIVE NANOCATALYST FOR OXYGEN EVOLUTION REACTION	594
03	Adriana Scoton Antonio Chinelatto	STUDY OF FREEZE CASTING PROCESS TO GENERATE FUNCTIONAL POROSITY GRADIENTS IN Al_2O_3 CERAMICS	735
04	Maria Eugenia Contreras Garcia	REVERSE OPALINE STRUCTURE OF NiO BY ELECTRODEPOSITION	311
05	Imane Daou	EFFECT OF HALLOYSITE CONTENT AND HEAT TREATMENT ONTO THE PROPERTIES OF USE OF TEXTURED KAOLIN-BASED CERAMICS	702
06	Eloïse Douet	DEVELOPMENT AND CHARACTERISATION OF MULTILAYER COATINGS VIA THE SOL-GEL METHOD	673
07	Vladimir Lucian Ene	MAGNETRON SPUTTERING THIN FILMS WITH PREFERRED ORIENTATION FOR POSITRON MODERATION	663
08	Lucie Galvánková	THE EFFECT OF MECHANOCHEMICAL ACTIVATION OF STARTING MATERIALS TO HYDROTHERMAL SYNTHESIS OF C-S-H PHASES	625
09	Magdalena Gizowska	DENSIFICATION PROCESS INVESTIGATION OF NANOYTRIA OBTAINED BY SOLUTION COMBUSTION SYNTHESIS	612
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