

The Serbian Society for Ceramic Materials
Institute for Multidisciplinary Research (IMSI), University of Belgrade
Institute of Physics, University of Belgrade
Center of Excellence for the Synthesis, Processing and Characterization of
Materials for use in Extreme Conditions "CEXTREME LAB" - Institute of
Nuclear Sciences "Vinča", University of Belgrade
Faculty of Mechanical Engineering, University of Belgrade
Center for Green Technologies, Institute for Multidisciplinary Research,
University of Belgrade
Faculty of Technology and Metallurgy, University of Belgrade
Faculty of Technology, University of Novi Sad

A microscopic image of ceramic particles, showing a transition from white to red. The particles are spherical and densely packed. The top half is white, and the bottom half is red, with a horizontal boundary between them.

PROGRAMME and the BOOK of ABSTRACTS

5CSCS-2019

5th Conference of
the Serbian Society for Ceramic Materials
June 11-13.2019. Belgrade Serbia

Edited by:
Branko Matović
Zorica Branković
Aleksandra Dapčević
Vladimir V. Srdić

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Vladimir V. Srdić

SPECIAL THANKS TO



Република Србија
МИНИСТАРСТВО ПРОСВЕТЕ,
НАУКЕ И ТЕХНОЛОШКОГ РАЗВОЈА



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WELCOME MESSAGE

The 5th Conference of the Serbian Society for Ceramic Materials: 5CSCS-2019 aims to review the knowledge, experience and share new ideas among the professionals, industrialists and students from research areas of ceramic materials and by taking an active part in discussions and technical sessions at the conference. The conference provides exhibitor booths for the companies and the institutions to showcase their services, products, innovations, innovative ideas and research work & results.

The conference includes all aspects of ceramics: modelling, synthesis, properties, processing and applications of bulk, films, powders, nanomaterials, composites providing a platform for academic exchange among participants from universities, institutes, companies around the region in the field of ceramics research as well as to explore a new direction for future development. The conference has an elemental feature to the distinguished motive speakers, plenary speeches, young investigators, poster presentations, oral presentations, technical workshop, and scientific sessions.

The conference is hosted and organized by the Serbian Society for Ceramic Materials, and co-organized by the Institute for Multidisciplinary Research - University of Belgrade, Center of Excellence for the Synthesis, Processing and Characterization of Materials for use in Extreme Conditions “CEXTREME LAB” - Institute of Nuclear Sciences “Vinča” - University of Belgrade, Institute of Physics - University of Belgrade, Faculty of Mechanical Engineering - University of Belgrade, Center for Green Technologies of the Institute for Multidisciplinary Research - University of Belgrade, Faculty of Technology and Metallurgy - University of Belgrade, Faculty of Technology - University of Novi Sad.

We are grateful for the support of the Ministry for education, science and technological development of the Republic of Serbia. We would also like to express our sincere thanks to the conference organizers, session chairs, presenters, exhibitors and all the conference attenders for their efforts and enthusiastic support in this exciting time in Belgrade. I look forward to meeting you and interacting with you at Conference.

Branko Matovic,
President of the Serbian Society for Ceramic Materials

Content

PROGRAMME

Tuesday, June 11, 2019	18
Wednesday, June 12, 2019	20
Thursday, June 13, 2019	22

PLENARY LECTURES

J. Christian Schön (BIO)MOLECULES, IN VACUUM AND ON SURFACES: WHAT DO THE ENERGY LANDSCAPES OF SUCH MATERIALS TELL US?	25
K. Doll STRUCTURE-PROPERTY RELATIONSHIPS FROM ELECTRONIC STRUCTURE CALCULATIONS	26

INVITED LECTURES

J. Popović, A. Djurišić, Ž. Skoko, I. Lončarić, L. Grisanti 2D LAYERED HYBRID ORGANIC-INORGANIC PEROVSKITES FOR ADVANCED LIGHT EMITTING APPLICATIONS	27
A. Gubarevich, J. Maletskic, K. Yoshida COMBUSTION SYNTHESIS OF MAX PHASE SOLID SOLUTIONS IN Ti-Zr-Al-C AND Ti-Zr-Si-C SYSTEMS	28
V. Srot, Y. Wang, M. Minola, U. Salzberger, P. Moghimian, B. Pokorny, P.A. van Aken NANOSCALE CHARACTERIZATION OF INTERFACES IN FUNCTIONAL MATERIALS	29
S. Smiljanić, S. Grujić, D. Popović FROM GLASS TO GLASS-CERAMIC	30
D. Bučevac, M. Nikolić, M. Omerašević, V. Krstić YAG:Ce,Pr YELLOW-EMITTING PHOSPHOR WITH ENHANCED RED EMISSION FOR WHITE LEDS	31

Ž. Burghard, A. Knöller, J. Bill STRUCTURING OF HIGHLY POROUS MECHANICALLY STABLE SCAFFOLDS	32
Z. Furdósová, A. Kovalčíková² O. Hanzel, I. Dlouhý, P. Tatarko DEVELOPMENT OF ULTRA-HIGH TEMPERATURE CERAMICS BY FIELD ASSISTED SINTERING TECHNOLOGY	33
M. Radovic, Y. Chen, D. Holta, H. Gao, A. Talapatra, T. Doung, R. Arroyave ALUMINA FORMING MAX PHASES: CURRENT STATUS AND FUTURE PERSPECTIVES	34
T. Prikhna, O. Ostash, A. Kuprin, V. Sverdun, V. Podhurska, M. Karpets, T. Serbeniuk, B. Matovic, A. Starostina MAX MATERIALS AND COATINGS STABLE IN OXIDIZING AND HYDROGEN ATMOSPHERES AT HIGH TEMPERATURES	35
A. Rečnik, N. Stanković, N. Daneu TOPOTAXIAL PHASE TRANSFORMATIONS AND TWINNING OF RUTILE	36
Y. Rostovtsev, M. Moazzezi MATERIALS WITH EXCITED QUANTUM COHERENCE: FROM PLASMONICALLY INDUCED TRANSPARENCY TO QUANTUM CORRELATION	37
M. Makowska-Janusik NANOSIZED SEMICONDUCTING MATERIALS - THEIR PROPERTIES AND APPLICATIONS – THEORETICAL APPROACH	38
X. Rocquefelte, W. Lafargue-dit-Hauret THEORETICAL INVESTIGATION OF MAGNETIC AND MULTIFERROIC PROPERTIES	39
R. Kumar PLASMON ENHANCED VISIBLE LIGHT PHOTOCATALYTIC ACTIVITY IN POLYMER-DERIVED TIN/SI-O-C-N NANOCOMPOSITES	39
C. Galassi, P. Galizia, M. Cernea, E. Mercadelli, C. Capiani, F. Craciun MICROSTRUCTURE CONTROL IN MULTIFERROIC COMPOSITES	41
S. Vranjes-Đurić, M. Radović, M. Mirković, Z. Milanović, A. Vukadinović, M. Perić, Đ. Petrović, D. Janković RADIOLABELLED NANOMATERIALS DESIGNED FOR APPLICATION IN MEDICINE	42
N. Dudukovic, D. Nguyen, J. Destino, T. Yee, K. Sasan, L. Wong, F. Ryerson, I. Jones, Z. Seeley, N. Cherepy, S. Payne, T. Suratwala, E. Duoss, R. Dylla-Spears 3D PRINTING OF MULTIMATERIAL GLASS AND CERAMIC OPTICS	43
J. Macan, M. Dutour Sikirić, M. Deluca, R. Bermejo, C. Baudin, M. Plodinec, K. Salamon, M. Čeh, A. Gajović PREPARATION AND MECHANICAL PROPERTIES OF POROUS ZIRCONIA/ CALCIUM PHOSPHATES CERAMIC COMPOSITES	44

B. Malič, L. Fulanović, V. Bobnar RELAXOR FERROELECTRIC CERAMICS FOR ELECTROCALORIC COOLING: PROCESSING CHALLENGES AND POSSIBLE APPLICATIONS	45
G. Branković, Z. Branković, P. Gao, M. Radović EXPERIMENTAL EVIDENCE OF ELECTRO-MECHANICAL COUPLING IN CUBIC YSZ	46
S. Bernik, A. Rečnik, T. Tian, G. Li, J.-B. Lebegorre, E. Guilmeau ENGINEERING OF DEFECTS AND THERMOELECTRIC PROPERTIES OF ZnO CERAMICS	47
F. Craciun, F. Cordero, C. Galassi DIELECTRIC AND ANELASTIC SPECTROSCOPY: A POWERFUL COMBINED TOOL FOR CHARACTERIZING MULTIFUNCTIONAL CERAMICS	48
D.M. Djokić, B. Stojadinović, D. Stepanenko, S. Aškračić, Z. Dohčević- Mitrović VARIABLE RANGE HOPPING MECHANISM OF CARRIER TRANSPORT IN BiFeO ₃ NANO-PARTICLES REVEALED VIA RAMAN SCATTERING TECHNIQUE	49
PI. Premović, B.Ž. Todorović, D.T. Stojiljković ELECTRON SPIN RESONANCE STUDIES OF NATURAL KAOLINITES: A BRIEF REVIEW	50
T. Volkov Husović, S. Martinović, M. Vlahović TRADITIONAL CERAMICS: PAST, PRESENT AND FUTURE	52
E. Volceanov, S.M. Sandu, A. Volceanov, V. Fruth, C. Cristea ECO-CERAMICS FOR BLAST MITIGATION	53
C. Ferone, B. Liguori, P. Aprea, G. Roviello SELF-SUPPORTING ZEOLITES BY GEOPOLYMER GEL CONVERSION. EVALUATION FOR WATER SOFTENING APPLICATIONS	54
G. Muksi CONTROLLING THE GEOPOLYMERIZATION REACTIONS BY MECHANICAL ACTIVATION OF SECONDARY RAW MATERIALS	55

ORAL PRESENTATIONS

M. Počuča-Nešić, Z. Marinković Stanojević, A. Dapčević, P. Cotič, Z. Jagličić, G. Branković, Z. Branković MECHANOCHEMICAL vs. CHEMICAL SYNTHESIS IN THE PREPARATION OF YMnO ₃ CERAMIC MATERIALS	56
I. Milenković, K. Radotić, B. Matović, M. Prekajski, Lj. Živković, D. Jakovljević, G. Gojgić-Cvijović, V. Beškoski COATING OF CERIUM OXIDE NANOPARTICLES WITH DIFFERENT CARBOHYDRATES	57

M. Vasić, S. Martinović, M. Vlahović, T. Volkov-Husović, A. Savić RELEVANT PROPERTIES OF GREEN SELF COMPACTING CONCRETE	58
D. Zagorac, J. Zagorac, T. Škundrić, D. Jovanović, M. Čebela, D. Jordanov, M. Rosić, B. Matović FIRST-PRINCIPLES INVESTIGATIONS OF ZnO/ZnS MIXED COMPOUNDS, POLYTYPOISM AND (HETERO)STRUCTURES	59
J. Zagorac, D. Zagorac, D. Jovanović, M. Čebela, D. Jordanov, M. Rosić, B. Matović FIRST PRINCIPLE INVESTIGATION OF Al _{1-x} B _x N SOLID SOLUTION	60
R. Stephan THE INORGANIC CRYSTAL STRUCTURE DATABASE (ICSD)	61
V. Fruth, L. Predoana, I. Poenaru, L. Todan, L. Aricov, G. Petcu, H. Stroescu, I. Radut, M. Calin, L. Jecu MULTIFUNCTIONAL COMPOSITE COATINGS WITH SELF-CLEANING AND ANTIMICROBIAL PROPERTIES CONTAINING OXIDE NANOPOWDERS	61
A. Kovács, É. Makó SYNTHESIS AND QUANTIFICATION OF KAOLINITE NANOSCROLLS	62
B. Matović PREPARATION OF Ag DOPED CERIA CERAMICS	63
N. Nikolić FORMATION OF METAL POWDERS ELECTROLYSIS: COMPARISON OF MORPHOLOGICAL AND CRYSTALLOGRAPHIC CHARACTERISTICS	64
M. Zunic, S. Boulfrad, L. Bi, E. Traversa SPIN-COATING DEPOSITION OF DENSE BaZr _{0.7} Pr _{0.1} Y _{0.2} O _{3-δ} ELECTROLYTE THICK FILMS ON NI-BASED ANODES FOR IT-SOFCs	65
K. Vojisavljević, S.M. Savić, M. Počuča-Nešić, V. Đokić, V. Ribić, Z. Branković, G. Branković HUMIDITY SENSOR BASED ON MESOPOROUS SnO ₂ FABRICATED VIA NANOCASTING TECHNIQUE	66
A. Nesterovic, M. Markovic, J. Vukmirovic, I. Stijepovic, M. Milanovic, V.V. Srdic PROCESSING OF Bi _{0.5} Na _{0.5} TiO ₃ BASED PIEZOELECTRIC CERAMICS	67
J. Peng, J. Zeng, L. Zheng, G. Li, N. Yaacoub, M. Tabellout, A. Gibaud, A. Kassiba THE INTERPLAY OF PHASES, STRUCTURAL DISORDER AND DIELECTRIC BEHAVIOR IN Al DOPED BiFeO ₃ -BaTiO ₃ CERAMICS	68
F. Matau, M. Pintilei, A. Stancu TEMPERING RECIPES OF THE CHALCOLITHIC POTTERY. CASE STUDIES FROM EASTERN ROMANIA	69

POSTER PRESENTATIONS

A. Yapyrintsev, O. Ivanova, L. Yang, M. Rumyantseva, B. Matović, V. Ivanov HYDROGEN PEROXIDE-ASSISTED ROUTE FOR NANOCRYSTALLINE WO ₃ SYNTHESIS WITH EXCELLENT SENSING RESPONSE	70
M. Vukčević, I. Bošković, S. Nenadović, M. Mirković, J. Gulicovski, V. Pavlovic, Lj. Kljajević THE POTENTIAL OF HYBRID GEOPOLYMER COMPOSITES	71
J. Vukašinić, M. Počuča-Nešić, A. Dapčević, V. Ribić, G. Branković, Z. Branković SYNTHESIS, CHARACTERIZATION AND PHOTOCATALYTIC PROPERTIES OF LaNiO ₃ -BASED POWDERS	72
Z.Z. Vasiljevic, M. Dojcinovic, V.P. Pavlovic, J. Vujancevic, S. Markovic, N. Tadic, M.V. Nikolic INFLUENCE OF Co ²⁺ IONS ON PHOTOCATALYTIC PROPERTIES OF MgFe ₂ O ₄ FERRITES	73
Z. Melichová, Lj. Kljajević, S. Nenadović REMOVAL OF NICKEL IONS FROM AQUEOUS SOLUTIONS BY ADSORPTION ONTO NATURAL SORBENTS	74
M. Marinkovic, M. Rubezic, A. Krstic¹, H. Stankovic, M. Randjelovic, B. Matovic, A. Zarubica CHEMICALLY MODIFIED NANO-STRUCTURED γ -ALUMINA IN PROCESS OF BIODIESEL PRODUCTION	75
J. Gulicovski, S. Nenadović, Lj. Kljajević, M. Kragović, M. Nišavić, M. Mirković, M. Stojmenović GEOPOLYMER- DOPED BY CeO ₂ AS SOLID ELECTROLYTE	76
M. Ivanović, N. Mladenović, J. Gulicovski, B. Todorović, Lj. Kljajević, K. Trivunac, S.S. Nenadović METAKAOLIN-BASED INORGANIC POLYMER SYNTHESIS USING ALKALINE ACTIVATOR	77
B. Čolović, O. Janković, M. Mirković, S. Živković, V. Jokanović A NEW DENTAL MATERIAL ON THE CALCIUM ALUMINATE CEMENT	78
M. Čebela, P. Šenjuga, F. Torić, Ž. Skoko, D. Pajić INFLUENCE OF Ag DOPING ON THE CRYSTAL STRUCTURE AND MAGNETIC PROPERTIES OF CuO NANOPOWDERS	78
S.S. Nenadović, M. Ivanović, N. Mladenović, M. Nenadović, M. Petković, B. Todorović, Lj. Kljajević IMPROVEMENT OF PHYSICAL AND MECHANICAL PROPERTIES OF GEOPOLYMER THROUGH ADDITION OF ZIRCON	79

A. Malešević, N. Tasić, J. Čirković, J. Vukašinović, A. Dapčević, V. Ribić, Z. Branković, G. Branković CuO-BASED NANOPLATELETS FOR HUMIDITY SENSING APPLICATION	80
A. Malešević, A. Dapčević, A. Radojković, Z. Branković, G. Branković CHEMICAL STABILITY OF DOPED δ -Bi ₂ O ₃ AS AN ELECTROLYTE FOR SOLID OXIDE FUEL CELLS	81
M.V. Nikolic, M.D. Lukovic, M.P. Dojcinovic, Z.Z. Vasiljevic NANOCRYSTALLINE SnO ₂ -Zn ₂ SnO ₄ COMPOSITE THICK FILMS APPLIED AS HUMIDITY SENSORS	82
J. Luković, Z. Dohčević-Mitrović, S. Boskovic, J. Maletaškić, M. Mirković, V. Pavkov, B. Matović THE SOLID SOLUTIONS OF DOPED CERIA PREPARED BY SELF-PROPAGATING ROOM TEMPERATURE METHOD	83
M.P. Nikolić, V.B. Pavlović, A. Maričić, S.S. Stanojević-Nikolić, V.V. Srdić SYNTHESIS AND APPLICATION OF SILICA PARTICLES FOR THE REMOVAL OF HEAVY METALS AND PESTICIDE RESIDUES FROM AQUEOUS SOLUTIONS	84
M. Vasic, A. Krstic, H. Stankovic, M. Rubezic, M. Randjelovic, B. Matovic, A. Zarubica TITANIA AND CHEMICALLY MODIFIED TITANIA IN PHOTOCATALYTIC CONVERSION OF SELECTED DYE(S) AND PESTICIDE	85
N. Tomić, M. Grujić-Brojčin, A. Kremenović, V. Lazović, M. Šćepanović PHASE TRANSITION FROM TiO ₂ BROOKITE-BASED NANOPOWDER TO TITANATE: EFFECT OF ANNEALING TEMPERATURE ON MORPHOLOGY AND PHOTOCATALYTIC BEHAVIOR	86
N. Nikolić, M. Šćepanović, M. Grujić-Brojčin, K. Vojisavljević, T. Srećković THE EFFECTS OF MILLING MEDIA ON MORPHOLOGICAL AND STRUCTURAL CHANGES IN MECHANICALLY ACTIVATED ZnO	87
V.S. Cvetković, N.M. Vukićević, N.D. Nikolić, G. Branković, Z. Baščarević, T.S. Barudžija, J.N. Jovićević FORMATION OF MgO/Mg(OH) ₂ NANOSTRUCTURES BY MOLTEN SALT ELECTROLYSIS	88
M. Mirković, J. Maletaškić, S. Nenadović, Lj. Kljajević, P. Vulić, B. Matović GRAIN MORPHOLOGY OF LOW TEMPERATURE TREATED HYDROXYAPATITE MATERIAL	89
I. Radović, M. Kragović, M. Stojmenović, M. Rosić, F. Veljković, A. Stajčić, V. Dodevski CHARACTERIZATION OF SiO ₂ CERAMIC POWDER SYNTHESIZED BY INCORPORATION OF A PORE GENERATOR INTO THE ACTIVATED CARBON	90

O. Hanzel, M.A. Singh, D. Marla, R. Sedlák, P. Šajgalík FUNCTIONAL PROPERTIES OF SIC-GRAPHENE COMPOSITES AND ITS BASIC EDM CHARACTERISTICS	91
L. Radovanović, P. Vulić, Ž. Radovanović, J. Rogan PREPARATION OF Co ₃ O ₄ NANO- AND MICROPARTICLES BY SOLID STATE THERMOLYSIS OF COBALT(II) COMPLEX	92
M. Gilic, J. Mitric, J. Cirkovic, S. Petrovic, D. Perusko, L. Reissig, N. Romcevic OPTICAL AND STRUCTURAL INVESTIGATION OF Cr ₂ O ₃ THIN FILMS: THE EFFECT OF THICKNESS FOR POSSIBLE APPLICATION FOR DIFFERENTIAL PHOTODETECTORS	93
N. Ilić, J. Bobić, M. Vijatović Petrović, A. Džunuzović, B. Stojanović PHOTOCATALYTIC ACTIVITY OF BiFeO ₃ -BASED POWDERS	93
Z.Z. Vasiljevic, M. Dojcinovic, J. Vujancevic, N. Tadic, M.V. Nikolic NANOCRYSTALLINE IRON-MANGANITE (FeMnO ₃) APPLIED FOR HUMIDITY SENSING	94
J. Čirković, D. Luković Golić, A. Radojković, A. Dapčević, N. Tasić, J. Jovanović, M. Čizmić, G. Branković, Z. Branković STRUCTURAL, OPTICAL AND PHOTOCATALYTIC PROPERTIES OF BiFeO ₃ NANOPARTICLES	95
Lj. Kljajević, M. Ivanović, N. Mladenović, M. Mirković, I. Vukanac, J. Gulicovski, S. Nenadović RADIOLOGICAL AND STRUCTURAL CHARACTERIZATION OF FLY ASH- BASED ALKALI ACTIVATED MATERIALS	96
A. Mitrović, J. Milićević, S. Milošević Govedarović, S. Kurko, T. Pantić, J. Rmuš, Ž. Mravik, J. Grbović Novaković AELECTROCHEMICAL SENSORS BASED ON PYROPHYLLITE	97
V. Pavkov, G. Bakić, V. Maksimović, A. Maslarević, B. Matović METAL-GLASS COMPOSITE MATERIAL	98
S. Ilić, Ž. Radovanović, A. Egelja, S. Zec, B. Matović MICROSTRUCTURAL ANALYSIS AND MICROHARDNESS OF IRON DOPED MULLITES	99
J. Maletaškić, J. Luković, K. Yoshida, T. Yano, R.S.S. Maki, A. Gubarevich, B. Matović PHASE COMPOSTION AND SYNTERING BEHAVIOR OF BORON SUBOXIDE (B ₆ O) CERAMICS	100
T. Klaser, Ž. Skoko, P. Naumov, M. Zema IS THERMOSALIENT EFFECT POSSIBLE WITHOUT PHASE TRANSITION?	101
D. Jordanov, D. Zagorac, J. Zagorac, M. Rosić, M. Čebela, J. Luković, B. Matović CRYSTAL STRUCTURE PREDICTION IN Y-TERNARY SYSTEMS	102

D. Jovanović, J. Zagorac, A. Zarubica, J. Christian Schön, D. Zagorac, B. Matović DFT STUDY OF Au / Ag / Cu DOPED TiO ₂	103
D. Jovanović, J. Zagorac, A. Zarubica, D. Zagorac, B. Matović THEORETICAL INVESTIGATION OF VARIOUS TiO ₂ MODIFICATIONS AND THEIR ELECTRONIC PROPERTIES	104
T. Škundrić, D. Zagorac, Je. Zagorac, J. Christian Schön, B. Matović STRUCTURE PREDICTION AND ENERGY LANDSCAPE EXPLORATION IN THE CrSiN SYSTEM	105
T. Škundrić, D. Zagorac, A. Zarubica, J. Zagorac, B. Matović SILICON HEXABORIDE INVESTIGATIONS USING ab initio DATA MINING APPROACH	106
J. Radaković, K. Batalović, M. Čebela ADAPTATION OF N-TiO ₂ PROPERTIES USING TARGETED DEPOSITION OF TRANSITION METALS	107
M. Čebela, P. Šenjuga, F. Torić, Ž. Skoko, D. Zagorac, D. Pajić INFLUENCE OF Ho DOPING ON STRUCTURAL AND MAGNETIC BEHAVIOUR OF MULTIFERROIC BiFeO ₃	108
M. Rosić, J. Zagorac, M. Čebela, D. Jordanov, I. Radović, V. Dodevski, D. Zagorac THEORETICAL STUDY OF GdMnO ₃ PEROVSKITE STRUCTURES AND INVESTIGATION OF RELATED TILT SYSTEMS	109
N. Labus, M. Rosić, M. Čebela, D. Jordanov, V. Dodevski, I. Radović THEORETICAL AND EXPERIMENTAL STUDY OF POLYCRYSTALLINE PHASES OBTAINED BY THE NANOMETRIC ZnTiO ₃ POWDER SINTERING	110
V. Ribić, A. Rečnik, M. Komelj, A. Kokalj, G. Dražić, J. Rogan, Z. Branković, G. Branković STRUCTURAL INVESTIGATION OF INVERSION BOUNDARIES IN Sb-DOPED ZnO	111
V. Ribić, N. Skorodumova, A. Dapčević, A. Rečnik, D. Luković Golić, Z. Branković, G. Branković MICROSCOPIC AND COMPUTATIONAL STUDY OF Gd-DOPED BiFeO ₃	112
S.T. Jelić, N. Novaković, Z. Branković, G. Branković NOVEL APPROACH TO DOPANT TREATMENT IN ELECTRONIC STRUCTURE CALCULATIONS – A CASE STUDY OF Mg-DOPED ZINC OXIDE	113
B.M. Marković, I.S. Stefanović, A.R. Popović, N.L. Ignjatović, A.B. Nastasović OPTIMIZATION OF THE PREPARATION OF NOVEL POLYMER/CLAY NANOCOMPOSITES	114
M.M. Vijatović Petrović, A. Džunuzović, J.D. Bobić, N. Ilić, B.D. Stojanović MULTIFERROIC COMPOSITES BaTiO ₃ -Ni _{0.7} Zn _{0.29} Cu _{0.01} Fe _{1.95} Sm _{0.05} O ₄	115

M. Jakab, M. Enisz-Bódogh THE PRODUCTION OF BIOMORPHOUS CERAMICS AND GLASS-CERAMICS ..	116
A. Boros, T. Korim PRODUCTION OF CRACK-FREE CATALYST SUPPORTS FROM METAKAOLIN BASED GEOPOLYMERS	117
A.M. Kazuz, Ž. Radovanović, V. Miletić, M. Ležaja Zebić, Đ. Veljović, R. Petrović, Đ. Janačković PROMISING DENTAL MATERIALS BASED ON α -TRICALCIUM PHOSPHATE AND FLUORAPATITE	118
D. Milošević, J. Perendija, M. Milošević, N. Tomić, Z. Veličković, A. Marinković REMOVAL OF Pb^{2+} and Cd^{2+} FROM AQUEOUS SOLUTION USING AMINO FUNCTIONALIZED THREE-Dimensionally ORDERED (3DOM) ALUMINA .	119
N. Ilić, M. Mladenović, G. Kaluderović, N. Knežević MESOPOROUS SILICA-BASED NANOCARRIERS FOR pH-RESPONSIVE DELIVERY OF ANTICANCER METAL COMPLEXES	120
A. Egelja, S. Pašalić, V. Dodevski, M. Kragović, I. Stojković-Simatović, Ž. Radovanović, M. Stojmenović STRUCTURAL, MORPHOLOGICAL AND ELECTRICAL PROPERTIES OF ALUMINA/YAG COMPOSITES AS SOLID ELECTROLYTE FOR IT – SOFC	121
A. Džunuzović, M. Vijatović Petrović, N. Ilić, J. Bobić, B. Stojanović PROPERTIES OF VARIOUS MULTIFERROICS PREPARED BY MIXING METHOD	122
S. Ahmetović, N. Tasić, M. Žunić, A. Dapčević, Z. Branković, G. Branković TITANIA-BASED ELECTROSPUN NANOFIBERS AND THEIR PHOTOCATALYTIC PERFORMANCE	123
N. Tasić, J. Ćirković, M. Žunić, V. Ribić, A. Dapčević, L. Ćurković, G. Branković, Z. Branković Ag/TiO_2 NANOCOMPOSITE MATERIALS FOR APPLICATION IN VISIBLE- LIGHT PHOTOCATALYSIS	123
J. Stanojev, B. Bajac, J. Matovic, V.V. Srdic FABRICATION OF CARBON-BASED ELECTRODES TRANSPARENT IN UV/VIS AND IR RANGE	124
J. Jovanović, J. Ćirković, A. Radojković, N. Tasić, G. Branković, Z. Branković INFLUENCE OF ZnO NANOPARTICLES ON SLOW RELEASE OF ESSENTIAL OIL FROM POLYMERIC MATRIX	125
N. Penić, M. Borovina, M. Đaković, D. Pajić MAGNETIC SPIN CHAINS IN COPPER(II) SUPRAMOLECULAR ARCHITECTURES	126

P. Verma, P.K. Roy STRUCTURAL AND ELECTRO-MAGNETIC PROPERTIES OF Mg-DOPED POLYCRYSTALLINE $\text{Bi}_{0.9}\text{Sm}_{0.1}\text{Fe}_{1-x}\text{Mg}_x\text{O}_3$ ($X \leq 0.1$) FERRITES	127
M. Suthar, P.K. Roy EFFECT OF CERIUM (Ce^{3+}) DOPING ON STRUCTURAL, MAGNETIC AND DIELECTRIC PROPERTIES OF BARIUM HEXAFERRITE	127
P. Šenjug, M. Čebela, F. Torić, T. Klaser, Ž. Skoko, D. Pajić P. Šenjug, MAGNETIC BEHAVIOUR OF Ag DOPED BiFeO_3	128
I. Panic, D. Pantic, J. Radakovic, M. Rosic, Jordanov, V. Dodevski, M. Čebela SYNTHESIS AND CHARACTERIZATION OF BiFeO_3 FINE POWDERS	129
J.D. Bobić, M. Deluca, N.I. Ilić, M.M. Vijatović Petrović, A.S. Dzunuzović, V.K. Veerapandiyan, B.D. Stojanovic FERROELECTRIC, MAGNETIC AND RAMAN SPECTRA MEASUREMENTS OF $\text{Bi}_5\text{Ti}_3\text{FeO}_{15}$ AURIVILLIUS-BASED MULTIFERROIC MATERIALS	130
A. Radojković, M. Žunić, S.M. Savić, S. Perać K. Vojisavljević, D. Luković Golić, Z. Branković, G. Branković ADJUSTING THE ELECTROLYTE PROPERTIES OF $\text{BaCe}_{0.9}\text{Y}_{0.1}\text{O}_{3-\delta}$ BY CO- DOPING	131
S. Perać, S.M. Savić, S. Kojić, Z. Branković¹, G. Branković NANOINDENTATION STUDY OF Cu DOPED NaCo_2O_4 CERAMICS	132
O. Milošević, D. Luković Golić, M. Počuča-Nešić, A. Dapčević, G. Branković, Z. Branković STRUCTURAL, MICROSTRUCTURAL AND FERROELECTRIC PROPERTIES OF Ti-DOPED YMnO_3 CERAMICS SYNTHESIZED BY POLYMERIZATION COMPLEX METHOD	133
D. Luković Golić, J. Vukašinović, V. Ribić, M. Kocen, M. Podlogar, A. Dapčević, G. Branković, Z. Branković THE INFLUENCE OF SINTERING PROCESSING ON MICROSTRUCTURAL, OPTICAL AND ELECTRICAL PROPERTIES OF ZINC OXIDE CERAMICS DOPED WITH Al^{3+} , B^{3+} , Mg^{2+}	134
S.M. Savić, K. Vojisavljević, M. Počuča-Nešić, N. Knežević, M. Mladenović, V. Đokić, Z. Branković SBA-15 ASSISTED SnO_2 HUMIDITY SENSOR	135
J. Vukašinović, M. Počuča-Nešić, D. Luković Golić, A. Dapčević, M. Kocen, S. Bernik, V. Lazović, Z. Branković, G. Branković SPARK PLASMA SINTERING OF CONDUCTIVE Sb-DOPED BaSnO_3	136
M. Počuča-Nešić, K. Vojisavljević, S.M. Savić, V. Ribić, N. Tasić, G. Branković, Z. Branković COMPARISON OF SENSING PROPERTIES OF $\text{SnO}_2/\text{KIT-5}$ AND SnO_2 HUMIDITY SENSORS	137

J. Rakić, Z. Baščarević OPTIMIZATION OF MECHANICAL ACTIVATION OF FLY ASH	138
M. Marić Stojanović, M. Glumac, V. Andrić, J. Mutić ROMAN METALLURGICAL VESSELS FROM MT. KOSMAJ	139
Author Index	140

P-56

TITANIA-BASED ELECTROSPUN NANOFIBERS AND THEIR PHOTOCATALYTIC PERFORMANCE

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In this work we present detailed optimization of the titania-based electrospun nanofibers fabrication procedure. The starting solutions were prepared from stabilized titanium (IV) isopropoxide and different polymers, such as PCL (polycaprolactone) and PVP (polyvinylpyrrolidone). We report on the correlation between the processing parameters and functional properties of as synthesized fibers. Microstructural analyses performed on SEM and FE-SEM have revealed branchy morphology of nanofibers uniform in shape and size. Anatase phase in as prepared and calcined samples was disclosed by in-depth analysis of TEM images and SAED spectra. The obtained fibers were used in UV/Vis photocatalytic reactor for degradation of dye-contaminated water solutions. Promising results were observed showing improved behavior compared to referent samples. Furthermore, the influence of various dopants on the photocatalytic properties was investigated.

P-57

Ag/TiO₂ NANOCOMPOSITE MATERIALS FOR APPLICATION IN VISIBLE-LIGHT PHOTOCATALYSIS

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In this work we present novel and simple chemical method for preparation of Ag/TiO₂ nanocomposite powders and investigate their photocatalytic performance under visible irradiation (simulated AM1.5 spectrum). Presented method involves

AUTHOR INDEX

Ahmetović S.	123	Cvetković V.S.	88
Andrić V.	139	Đaković M.	126
Aprea P.	54	Daneu N.	36
Aricov L.	61	Dapčević A.	56,72,80,81,95,112, 123,123,133,134, 136
Arroyave R.	34	Deluca M.	44,130
Aškračić S.	49	Destino J.	43
Bajac B.	124	Djokić D.M.	49
Bakić G.	99	Djurišić A.	27
Barudžija T.S.	88	Dlouhý I.	33
Baščarević Z.	88,138	Dodevski V.	90,109, 110,121,129
Batalović K.	107	Dohčević-Mitrović	49,83
Baudin C.	44	Dojcinovic M.	73,82,94
Bermejo R.	44	Doll K.	26
Bernik S.	47,136	Đokić V.	66,135
Beškoski V.	57	Doung T.	34
Bi L.	65	Dražić G.	111
Bill J.	32	Dudukovic N.	43
Bobić J.	93,115,122,130	Duoss E.	43
Bobnar V.	45	Dutour Sikirić M.	44
Boros A.	117	Dylla-Spears R.	43
Borovina M.	126	Dzunuzović A.S.	93,115,122,130
Bošković I.	71	Egelja A.	100,121
Boskovic S.	83	Enisz-Bódogh M.	116
Boulfrad S.	65	Ferone C.	54
Branković G.	46,56,66,72,80,81,88,95, 111,112,113,123,123,125, 131,132,133,134,136,137	Fruth V.	53,61
Branković Z.	46,56,66,72,80,81,88,95, 111,112,113,123,123,125, 131,132,133,134,136,137	Fulanović L.	45
Bučevac D.	31	Fürdősová Z.	33
Burghard Z.	32	Gajović A.	44
Calin M.	61	Galassi C.	41,48
Čapiani C.	41	Galizia P.	41
Čebela M.	59,60,78,103,107,108, 109,110,128,129	Gao H.	34
Čeh M.	44	Gao P.	46
Cernea M.	41	Gibaud A.	68
Chen Y.	34	Gilic M.	93
Cherepy N.	43	Glumac M.	139
Čirković J.	80,93,95,123,125	Gojgić-Cvijović G	57
Čizmić M.	95	Grbović Novakovi	97
Čolović B.	78	Grisanti L.	27
Cordero F.	48	Grujić S.	30
Cotić P.	56	Grujić-Brojčin M.	86,87
Craciun F.	41,48	Gubarevich A.	28,101
Cristea C.	53	Guilmeau E.	47
Ćurković L.	123	Gulicovski J.	71,76,77,96
		Hanzel O.	33,91
		Holta D.	34

Ignjatović N.L.	114	Luković Golić D.	95,112,131,133,134,136
Ilić Nebojša	120	Luković J.	83,101,103
Ilić Nikola	93,115,122,130	Lukovic M.D.	82
Ilić S.	100	Macan J.	44
Ivanov V.	70	Malič B.	45
Ivanova O.	70	Maki R.S.S.	101
Ivanović M.	77,79,96	Makó É.	62
Jagličić Z.	56	Maksimović V.	99
Jakab M.	116	Malešević A.	80,81
Jakovljević D.	57	Maletaskić J.	28,83,89,101
Janačković Đ.	118	Mladenović N.	77
Janković D.	42	Makowska-Janusik	38
Janković O.	78	Maričić A. 84	84
Jecu L.	61	Marić Stojanović	139
Jelić S.T.	113	Marinković A.	119
Jokanović V.	78	Marinkovic M.	75
Jones I.	43	Marinković Stanojev	56
Jordanov D.	59,60,103,129	Marković B.M.	114
Jovanović D.	59,60,104,105,109,110	Markovic M.	67
Jovanović J.	95, 125	Markovic S.	73
Jovićević J.N.	88	Marla D.	91
Kaluđerović G.	120	Martinović S.	52,58
Karpets M.	35	Maslarević A.	99
Kassiba A.	68	Matau F.	69
Klaser T.	102,128	Matovic B.	35,57,59,60,63,70,75, 83,85,89,99,100,101, 103,104,105, 106
Kljajević L.	71,74,76,77,79,89,96	Matovic J.	124
Knežević N.	120,135	Melichová Z.	74
Knöller A.	32	Mercadelli E.	41
Kocen M.	134,136	Milanovic M.	67
Kojić S.	132	Milanović Z.	42
Kokalj A.	111	Milenković I.	57
Komelj M.	111	Miletić V.	118
Korim T.	117	Milićević J.	97
Kovács A.	62	Milošević D.	119
Kovalčiková A.	33	Milošević Govedaro	97
Kragović M.	76,90,121	Milošević M.	119
Kremenović A.	86	Milošević O.	133
Krstic A.	75,85	Minola M.	29
Krstić V.	31	Mirković Marija	42
Kumar R.	39	Mirković Miljana	71,76,78, 8389,96
Kuprin A.	35	Mitric J.	93
Kurko S.	97	Mitrović A.	97
Labus N.	110	Mladenović M.	120,135
Lafargue Hauret	39	Mladenović N.	79,96
Lazović V.	86,136	Moazzezi M.	37
Lebegorre J-B.	47	Moghimian P.	29
Ležaja Zebić M.	118	Mohamed Kazuz	118
Li G.	47,68	Mravik Ž.	97
Liguori B.	54		
Lončarić I.	27		

Mucsi G.	55	Prikhna T.	35
Mutić J.	139	Radaković J.	107,129
Naumov P.	102	Radojković A.	81,95,125,131
Nastasović A.B.	114	Radotić K.	57
Nesterovic A.	67	Radovanović Ž.	92,100,118,121
Nenadović M.	79	Radovanović L.	92
Nenadović S.S.	71,74,76,77,79, 89,96	Radović I.	90,109,110
Nguyen D.	43	Radović M.	42
Nikolić M.	31	Radović M.	34,46
Nikolić M.P.	84	Radut I.	61
Nikolic M.V.	73,82,94	Randjelovic M.	75,85
Nikolić N.D.	64,88	Rakić J.	138
Nikolić N.	87	Rečnik A.	36,47,111,112
Nišavić M.	76	Reissig L.	93
Novaković N.	113	Ribić V.	66,72,80,111,112,123, 134,137
Omerašević M.	31	Rmuš J.	97
Ostash O.	35	Rocquefelte X.	39
Pajić D.	78,108,126,128	Rogan J.	92,111
Panic I.	129	Romcevic N.	93
Pantic D.	129	Rosić M.	59,60,90,103,109, 110, 129
Pantić T.	97	Rostovtsev Y.	37
Pašalić S.	121	Roviello G.	54
Pavlovic V.P.	73	Roy P.K.	127,127
Pavlovic V.	71,84	Rubezic M.	75,85
Pavkov V.	83,99	Rumyantseva M.	70
Payne S.	43	Ryerson F.	43
Peng J.	68	Šajgalík P.	91
Penić N.	126	Salamon K.	44
Perać S.	131,132	Salzberger U.	29
Perendija J.	119	Sandu S.M.	53
Perić M.	42	Sasan K.	43
Perusko D.	93	Savić A.	58
Petcu G.	61	Savić S.M.	66,131,132,135,137
Petković M.	79	Šćepanović M.	86,87
Petrović Đ.	42	Schön J.C.	25,104,105
Petrović R.	118	Sedlák R.	91
Petrovic S.	93	Seeley Z.	43
Pintilei M.	69	Šenjuga P.	78,108,128
Plodinec M.	44	Serbeniuk T.	35
Počuča-Nešić M.	56,66,72,133,135,136,37	Singh M.A.	91
Podhurska V	35	Skoko Ž.	27,78,102,108,128
Podlogar M.	134	Skorodumova N.	112
Poenaru I.	61	Škundrić T.	59,105,106
Pokorny B.	29	Smiljanić S.	30
Popović A.R.	114	Srdic V.V.	67,84,124
Popović D.	30	Srećković T.	87
Popović J.	27	Srot V.	29
Predoana L.	61	Stajčić A.	90
Prekajski M.	57		
Premović P.I.	50		

Stancu A.	69	Veljković F.	90
Stankovic H.	75,85	Veljović Đ.	118
Stanković N.	36	Verma P.	127
Stanojev J.	124	Vijatović Petrović	93,115,122,130
Stanojević-Nikolić	84	Vlahović M.	52,58
Starostina A.	35	Vojisavljević K.	66,87,131,135,137
Stefanović I.S.	114	Volceanov A.	53
Stepanenko D.	49	Volceanov E.	53
Stephan R.	61	Volkov Husović	52,58
Stijepovic I.	67	Vranjes-Đurić S.	42
Stojadinović B.	49	Vujančević J.	73,94
Stojanović B.D.	93,115,122,130	Vukadinović A.	42
Stojiljković D.T.	50	Vukanac I.	96
Stojković-Simatović	121	Vukašinić J.	72,80,134, 136
Stojmenović M.	76,90,121	Vukčević M.	71
Stroescu H.	61	Vukićević N.M.	88
Suratwala T.	43	Vukmirovic J.	67
Suthar M.	127	Vulić P.	89,92
Sverdun V.	35		
		Wang Y.	29
Tabellout M.	68	Wong L.	43
Tadic N.	94		
Talapatra A.	34	Yaacoub N.	68
Tasić N.	80,95,123,123,125,137	Yang L.	70
Tatarko P.	33	Yano T.	101
Tian T.	47	Yapryntsev A.	70
Todorović B.	77,79	Yee T.	43
Tomić N.	119	Yoshida K.	28,101
Torić F.	78, 108,128		
Todan L.	61	Zagorac D.	59,60,103,104,105, 105,106,108,109
Todorović B.Ž.	50	Zagorac J.	59,60,103,104,105, 105,106,108,109
Tomić N.	86		
Traversa E.	65	Zarubica A.	75, 85, 104, 105, 106
Trivunac K.	77	Zec S.	100
		Zema M.	102
Van Aken P.A.	29	Zeng J.	68
Vasić Milan	58	Zheng L.	68
Vasic M.	85	Zhivković Lj.	57
Vasiljevic Z.Z.	73,82,94	Zhivković S.	78
Veerapandiyan	130	Žunić M.	65,123,123,131
Veličković Z.	119		

5CSCS-2019 PROGRAMME and the BOOK of ABSTRACTS

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