SCIENTIFIC PROGRAM

11th Conference On
Solid State Chemistry

SSC 2014
Slovakia
6-11 JULY 2014

Trenčianske Teplice, Slovak Republic

SUNDAY, 6th July 2014

12:30-19:00	Registration
18:00-20:00	Welcome party

MONDAY, 7th July 2014

07:30 -	Registration
08:00-08:30	Opening Ceremony

ORAL PRESENTATIONS

PL – Plenary Lecture; KN – KeyNote lecture; O - lecture

TOPIC 3: Applications of inorganic and organometallic materials

Chair: **Z. Lenčéš**

08:30-09:15	PL	**E. Ionescu** Ceramic nanocomposites for energy conversion and storage
09:15-09:45	KN	**J. Binner** Processing and characterisation of advanced ceramics for demanding applications
09:45-10:05	O	**C. Salameh** Polymer-derived boron nitride with tailor-made porosity for energy applications
10:05-10:25		*COFFEE BREAK*

Chair: **E. Ionescu**

10:25-10:45	O	**J.J. Rogers** Novel luminescent materials based on gallium-aluminium silicate inorganic polymers
10:45-11:05	O	**Z. Lenčéš** Influence of rare earth dopant and N/O substitution on the electronic structure and luminescent properties of silicon oxynitride phosphors
11:05-11:25	O	**W. Ziemkowska** Nano-titania doped with noble metals – synthesis, structure, eco- and citotoxicity
11:25-11:45	O	**P. Gotcu-Freis** Thermophysical investigations of cathode material for lithium-ion batteries
11:45-11:55	O	**J. Garcia-Martinez - IUPAC**
11:55-12:15	O	**J. Garcia-Martinez** Commercial-scale catalytic performance of hierarchical zeolites
12:15-13:40		*LUNCH*

TOPIC 5: Thermochemical, thermodynamic and kinetic aspects		
Chair: **M. Boča**		
13:40-14:25	PL	**N. Koga** Thermoanalytical approach to kinetic phenomena in solid-state as exemplified by thermal decomposition of solids
14:25-14:55	KN	**J. Málek** Crystallization and viscous flow in supercooled chalcogenide systems
14:55-15:15	O	**M. Liška** Configurons and viscostity of 15(Na_2O, K_2O)•10(CaO, ZnO)•75(ZrO_2, SiO_2) glasses
15:15-15:35	O	**H. Akiba** Crystal growth of ionic semiclathrate hydrate at the interface between CO_2 gas and tetrabutylammonium bromide aqueous solution
15:35-15:55		*COFFEE BREAK*
Chair: **M. Liška**		
15:55-16:15	O	**R. Nakamura** An experimental attempt to increase molecular ozone in a clathrate hydrate
16:15-16:35	O	**A. Prnová** Thermal behaviour and phase compositions of glasses and polycrystaline materials in the system Y_2O_3-Al_2O_3
16:35-16:55	O	**D.S. Tsvetkov** Oxygen content, thermodynamic stability and electrical properties of $YBaCo_4O_{7\pm\delta}$
16:55-17:15	O	**A.Yu. Zuev** Chemical expansion of perovskite-type mixed ionic and electronic conducting materials
17:15-17:35		*COFFEE BREAK*
Chair: **J. Málek**		
17:35-17:55	O	**M. Zdanowska-Frączek** Activation volumes for solid-solid transformation in $(NH_4)_4H_2(SeO_4)_3$ below superionic phase transition
17:55-18:15	O	**J. Barták** Crystallization kinetics in Se-Te thin films
18:15-18:35	O	**M. Palcut** High temperature oxidation of borided steel
18:35-18:55	O	**S. J. Shih (**TOPIC 2 - Electric and magnetic aspects**)** Correlation of grain misorientations and conductivities for strontium titanate
20:00-22:00		**POSTER SESSION I** – TOPICS 1, 2, 3

TUESDAY, 8th July 2014

07:30 - Registration

TOPIC 1: Chemical and physical aspects

Chair: **R.C.T. Slade**

08:30-09:15 PL **S.A.M. Tofail**
Electrical properties of nanocrystalline hydroxyapatite and its electrical modifications

09:15-09:45 KN **I. Van Driessche**
Chemical solution deposition of functional ceramic coatings using ink jet printing

09:45-10:05 O **M. Senna**
Solid state synthesis of phase pure spinel $Li_4Ti_5O_{12}$ nanoparticles at 600 °C from homogeneous and highly reactive solid precursors

10:05-10:25 *COFFEE BREAK*

Chair: **I. van Driessche**

10:25-10:45 O **P. Koštál**
Viscosity of chalcogenide materials

10:45-11:05 O **J. Vatrál**
Electrochemical studies of interactions between Fe(III)/Fe(II) and amino acids and neurotransmitters

11:05-11:25 O **E.M. Glebov**
Supramolecular chemistry as a tool to improve the characteristics of solid-state photochroms

11:25-11:45 O **N. Widiastuti**
Synthesis of zeolite NaY-templated carbon: Zeolite NaY template removal using HF and HCl

11:45-12:05 O **C. Taviot-Guého** (TOPIC 4 - Spectroscopic, diffraction and structural aspects)
Use of the pair distribution function technique for the development of detailed structure/property correlations in layered double hydroxides (LDH)

12:05-13:30 *LUNCH*

TOPIC 6: Computation and theoretical aspects

Chair: **D. Tunega**

13:30-14:15 PL **R. Ahuja**
Materials for energy applications: A computational materials science point of view

14:15-14:45 KN **T. Bucko**
Density dependent correction for the description of London dispersion forces: Improved Tkachenko-Scheffler method and its applications

14:45-15:05 O **J. Pavlik**
Molecular ising-spins as a working tool for polynuclear spin crossover systems

15:05-15:35 KN **A. Zaoui**
Surface and interface of carbonates and clay subjected to various environmental conditions

15:35-15:55 *COFFEE BREAK*

Chair: **D. Tunega**

15:55-16:15 O **F. Labat**
Towards the modeling of CdSe nanoparticles: a DFT protocol optimized on CdSe bulk and surface properties

16:15-16:35 O **G. Shao**
Designer doping of TiO_2 for enhanced functionality under remarkably widened solar spectral range

TOPIC 3: Applications of inorganic and organometallic materials

Chair: **W.-H. Tuan**

16:35-17:05 KN **P. Miele**
Boron- and silicon-based polymer derived *nano*-ceramics

17:05-17:25 O **J. Pagáčová**
The surface properties of inorganic-organic films

17:25-17:45 *COFFEE BREAK*

Chair: **P. Miele**

17:45-18:05 O **A. Plško**
Nanocomposite films prepared by sol-gel method

18:05-18:25 O **W.-H. Tuan**
Preparation of calcium sulfate for bioceramic applications

18:25-18:45 O **V. Zeleňák**
Design and synthesis of porous metal-organic frameworks for carbon dioxide adsorption

18:45-19:05 O **K. Kowal**
Durability of the adhesion of titanium dioxide nanoparticles embedded in textile surface

20:00-22:00 **POSTER SESSION II** – TOPICS 4, 5, 6

WEDNESDAY, 9th July 2014

07:30 - Registration

TOPIC 2: Electric and magnetic aspects

Chair: **R. Boča**

08:30-09:15 PL **L. Salmon**
Spin crossover nanomaterials

09:15-09:45 KN **B. Tsukerblat**
Vibronic problems in nanosized mixed- valence clusters: A symmetry assisted approach

09:45-10:05 O **J. Onoe**
Electron conduction properties of one-dimensional periodic uneven structured C60 polymer films

10:05-10:25 *COFFEE BREAK*

Chair: **B. Tsukerblat**

10:25-10:55 KN **F. Renz**
Recent progress in iron-containing compounds with light vs x-ray switching effects

10:55-11:15 O **S. Kikkawa**
Enhanced magnetic coercivity in the spinel ferrite powder hybridized with α-Fe_2O_3 or $BaFe_{12}O_{19}$

11:15-11:35 O **R. Boča:**
Five single molecule magnets: [Dy_2Zn_2], [Dy_2Co_2], [Dy_2], [DyCu], and [Co]

11:35-11:55 O **L. Pogány**
Photomagnetic properties of spin crossover iron(II) complexes

11:55-13:30 *LUNCH*

13:30-22:00 **TRIP 1 and TRIP 2**

THURSDAY, 10th July 2014

07:30 - Registration

TOPIC 4: Spectroscopic, diffraction and structural aspects

Chair: **D. Galusek**

08:30-09:15 PL **E. Murad**
Instrumental characterization of geological materials and their synthetic analogs

09:15-09:45 KN **G.D. Chryssikos**
Clay-based hybrid materials by spectroscopy: The case of maya blue

09:45-10:05 O **V. Gionis**
Vibrational spectroscopic investigation of sepiolite-indigo hybrids

10:05-10:25 *COFFEE BREAK*

Chair: **G.D. Chryssikos**

10:25-10:45 O **T. Gavenda**
Raman spectroscopy of irradiated glasses

10:45-11:05 O **D. Galusek**
Luminescence properties of aluminate and aluminosilicate glasses

11:05-11:25 O **J. Peng**
A TiO_2-composite catalyst based on the Keggin-type tungstosilicate microtubes for photo-oxidation of organic dye

11:25-11:45 O **A. Lancok**
Mössbauer spectrometry study of Ferritin nanoparticles

11:45-12:05 O **J. Darul**
The post-spinel phase boundary in Mn_3O_4 determined by in situ x-ray diffraction under high pressure and high temperature

12:05-13:30 *LUNCH*

Chair: **A. Lancok**

13:30-14:00 KN **R. Kužel**
X-ray diffraction analysis of polycrystalline thin films and films with strong texture and residual stress

14:00-14:20 O **S. Kokenyesi**
Compositional dependence of photostructural transformations and optical relief recording in As(Ge)-Se chalcogenide glasses

14:20-14:40 O **A. Mozalev**
Spectroscopic and structural characterization of niobium oxide nanocolumn arrays derived from anodically oxidized Al/Nb metal layers

14:40-15:00 O **E. Asabina**
Synthesis and characterization of complex zirconium phosphates, containing metals in oxidation state +2

15:00-15:20 O **H. Yasuda**
Mechanisms of aspect ratio control in gold nanorods prepared in a solution

15:20-15:40 O **V. Podzemná** (TOPIC 5 - Thermochemical, thermodynamic and kinetic aspects)
Study of crystallization process in Ge_xS_{1-x} glasses by optical microscopy

15:40-16:00 *COFFEE BREAK*

TOPIC 1: Chemical and physical aspects

Chair: **S.A.M. Tofail**

16:00-16:30 KN **R.C.T. Slade**
Transition metal oxides for supercapacitive electrochemical energy storage: Tailoring phase and texture and the associated electrolyte systems

16:30-16:50 O **M. Guo**
Study of valence chemistry for Mn-doped TiO_2 powder with remarkable photocatalytic performance

16:50-17:10 O **O.M. Gaitko**
New ternary oxides in Bi_2O_3-NiO-Sb_2O_5 system with pyrochlore and $KSbO_3$-type structures

17:10-17:30 O **G. Plesch**
Anti-biofilm efficacy and photocatalytic activity of Eu doped and sulphated anatase

17:30-17:50 O **P. Piszczek**
Titanium Oxo complexes: Synthesis, structure, and application in nanotechnologies

17:50-18:10 O **S. Telegin**
Electrical properties and phase transitions of the single crystal $EuBaCo_{2-x}O_{6-\delta}$ with the "112" structure

19:30-22:30 **CONFERENCE DINNER**

FRIDAY, 11th July 2014

07:30 - Registration

TOPIC 2: Electric and magnetic aspects

Chair: **F. Renz**

08:30-09:00 KN **S. Klyatskaya**
Molecular magnetism – A key issue for quantum technology

09:00-09:20 O **M.S. Konale**
Proton conductivity behavior of aluminum biphenyl-4,4'-dicarboxylate studied by impedance spectroscopy with random-walk approach

09:20-09:40 O **D. S. Patil**
Impedance analysis of $[(GeS_2)_{100-2x}\text{-}(Ga_2S_3)_x\text{-}(AgI)_x]_{100-y}\text{-}Ag_y$ chalcogenide system and study of power law dependance correlation

09:40-10:00 O **A. Packová**
Hexacoordinate Ni(II) complexes – magnetic properties and magnetostructural *D*-correlation

10:00-10:20 O **A. Koishybay**
Novel rechargeable lithium ion battery for large scale energy storage and its temperature performances

10:20-10:40 *COFFEE BREAK*

Chair: **M. Boča**

10:40-11:00 O **V. H. Tran**
Magnetic phase diagram of $URu_{1-x}Pd_xGe$

11:00-11:20 O

11:20-11:40 O **P. Augustín**
Spin crossover in iron(III) schiff–base complexes

11:40-12:00 O **M. Drábik** (TOPIC 5 - Thermochemical, thermodynamic and kinetic aspects)
Thermoanalytical characterisation of dental restoration / filling materials

Chair: **M. Senna** **(**TOPIC 1: Chemical and physical aspects**)**

12:00-12:20 **C. Rajnák**
Neutral spin transition compounds

12:20-12:40 **W. Pabst**
Elastic moduli and thermal conductivity of porous ceramics – modeling and measurement

12:40-12:55 **CONFERENCE CLOSURE**

13:00-14:30 *LUNCH*

POSTER PRESENTATIONS

POSTER SESSION I (*T1, T2, T3*)

T1 - Chemical and physical aspects

PI - 01 J.E. Choe, S. Jeon: 3,4-ethylenedioxythiophene functionalized reduced graphene oxide with palladium nanoparticles for enhanced electrocatalytic oxygen reduction reaction

PI - 02 H. Fansuri, N. Widiastuti, A. Aliyatulmuna, D. Prasetyoko, B. Prijamboedi: Preparation and characterization of $La_{1-y}X_yCo_{0.8}Fe_{0.2}O_3$ (X = Ba or Sr) dense membranes

PI - 03 D. Galusková, P. Gaalová, D. Galusek: Quantitative analysis of phosphorus with atomic emission spectroscopy for evaluation of chemical durability of biological apatite

PI - 04 T. Kavetskyy, J. Nowak, J. Borc, J. Rusnák, O. Šauša, A. L. Stepanov: Chemical aspects of ion implantation into polymethylmethacrylate probed by Raman spectroscopy and electrical measurements

PI - 05 J. Burunkova, I. Denisiuk, I.Csarnovics, R. Bohdan, S. Kokenyesi: Gold/acrylic polymer nanocomposites: Technology and application for photonic elements

PI - 06 A. Lancok, B. Štíbr, M. Miglierini, T. Kmječ, M. Bakardijev: Structural characterization of $[Fe(\eta^6\text{-}C_6H_6\text{-}nMe_n)_2]^{2+}$ dications

PI - 07 K. Lee, S. Jeon: Silver electrocatalyst supported on different length linkages of graphene for oxygen reduction reaction in alkaline media

PI - 08 O. Monfort, T. Roch, L. Satrapinskyy, T. Plecenik, G. Plesch: Formation of VO_2(B) thin films and study of their photocatalytic activity

PI - 09 M.V. Morozova, Z.A. Mikhaylovskaya, E.S. Buyanova, S.A. Petrova: The substituted $Bi_{26}Mo_{10}O_{69}$ bismuth molybdate: Synthesis, properties and structure

PI - 10 M.V. Morozova, Yu.V. Emelyanova, A.N.Shatohina, Z.A. Mikhaylovskaya, E. S. Buyanova, S.A. Petrova: Synthesis, structure and functional characteristics of solid electrolytes based on the bismuth niobates

PI - 11 V. Pavlik, M. Kontrík, M. Boča: Influence of molten fluorides on corrosion behavior of alloy incoloy 800 h/ht

PI - 12 M. Motola, L. Satrapinskyy, G. Plesch: Preparation and photocatalytic properties of vanadium doped TiO_2 nanotubes

PI - 13 O. Kh. Poleshchuk, K. V. Zaitsev, S. S. Karlov: Donor-acceptor bond in oligogermanes

PI - 14 J. Šubrt, E. Pližingrová, V. Brezová, G. Plesch: Highly photoactive anatase foams prepared from lyophilized aqueous colloids of peroxo-polytitanic acid

PI - 15 A.S. Urusova, A.V.Bruzgina, V.A.Cherepanov, T.V.Aksenova: Phase equilibria in the yttrium-barium-iron-oxide system at 1373 K

PI - 16 P. Barborík, Z. Vasková, B. Kubíková, M. Boča: Physicochemical properties of the system LiF-NaF-KF(eut.) – $Na_7Zr_6F_{31}$: Density and volume properties, viscosity and surface tension

PI - 17 N.E. Volkova, M.Yu. Mychinko, L.Ya. Gavrilova, V.A. Cherepanov: Defect structure and conductivity of the complex oxides $SmBaCo_{2-x}Fe_xO_{6-\delta}$ (x=0, 0.6)

PI - 18 J.Zontek-Wilkowska, J.Wasylak: Hierarchically structured nanolayers obtained by wet chemical etching process

PI - 19 M. Yun, S. Jeon: Synthesis of alloy platinum-cobalt nanoparticles supported on thiolated graphene oxide for high catalytic activity toward the oxygen reduction reaction

T2 - Electric and magnetic aspects

PI - 20 M.L. Calatayud, I. Castro, W.P. Barros, M. Julve1, N. Marino, G. DeMunno, M.J. Castro-Bleda: Steric and/or electronic ligand effects on intrachain interactions of alternating copper(II) chains

PI - 21 J. Vallejo, I. Castro, J. Cano, R. Ruiz-García, F. Lloret, D. Armentano: Structure and magnetic properties of a metal-organic framework comprising of one-dimensional cobalt chains

PI - 22 Ľ. Dlháň, A. Abedi, R. Boča: Magnetism of iron(II) bithiazole complexes

PI - 23 Z. Dobrovolskaya, D. Deyneko, S. Aksenov, S. Stefanovich, B. Lazoryak: New whitlockite-type ferroelectric vanadates

PI - 24 P. Dulian, T. Sikora, W. Bąk, Cz. Kajtoch, K. Wieczorek-Ciurowa: Dielectric study of epoxy resin-$CaCu_3Ti_4O_{12}$ composites

PI - 25 A. V. Egorysheva, O. G.Ellert, O. M. Gaitko: New magnetic dilute pyrochlores $Bi_{1.8}Fe_{1.2-x}Ga_xSbO_7$ with spin-glass transition

PI - 26 C.S. Jung, P.W. Jang, K.-H. Kim, and K. Seomoon: Ellipsometric study of ferroelectric copolymer langmuir-blodgett films

PI - 27 P.W. Jang, C.S. Jung, K.-H. Kim, K. Seomoon and S. Moon: Effects of annealing on the structure and electromagnetic properties of iron-silicon thin films

PI - 28 N. Kochetova, I. Alyabysheva, K. Belova, I. Animitsa: Electrical properties of composite systems $Ba_2In_2O_5$–Ba_2InMO_6 (M = Nb, Ta)

PI - 29 O.V. Merkulov, A.A. Markov, I.I. Leonidov, M.V. Patrakeev, I.A. Leonidov, V.L. Kozhevnikov: Defect structure of $Sr_2Fe_{1-x}Ta_{1+x}O_{6-\delta}$ in the vicinity of cation's stoichiometric state

PI - 30 D.S. Patil, M.S. Konale, J. Kolar, V. Zima, T. Wagner: Ionic conductivity study of LiI-Ga_2S_3-GeS_2 chalcogeide system by random-walk approach

PI - 31 F. Renz, B.F.O. Costa, M. Blumers, F. Dencker, A. Nibur, D. Wengerowsky, B. Dreyer, Y. Tanatsugu, R. Sindelar, R. Boča, L. Rissing, G. Klingelhöfer, the KLIMT science team: The hidden Klimt

PI - 32 K. Seomoon, P. Jang, C. Jung, K.-H. Kim: X-ray photoelectron spectroscopy depth analysis of Al-DOPED ZnO thin films post-treated by inductively coupled plasma

PI - 33 K.-H. Kim, J.M. Yeon, P. Jang, C. Jung, K. Seomoon: Fabrication and evaluation of quantum well structures with Si/Al_2O_3/Si layers for solar cell applications

PI - 34 T. Sikora, P. Dulian, W. Bąk, Cz. Kajtoch, K. Wieczorek-Ciurowa: Dielectric properties OF polymer matrix composites with mechanochemically synthesized barium titanate

PI - 35 M. Zdanowska-Frączek, Z.J. Frączek, Ł. Lindner: System for electric properties of solids under pressure

T3 - Applications of inorganic and organometallic materials

PI - 36 D. Basiak, W. Ziemkowska, A. Jastrzębska, A. Olszyna: Synthesis and characterization of nanosized titania doped with noble metals

PI - 37 D. Basiak, W. Ziemkowska: Controlled synthesis of alumina using trialkylaluminum compounds as starting materials

PI - 38 Ž. Dohnalová, P. Šulcová: Preparation, characterization and testing of strontium cerium oxide doped by terbium as a potential ceramic pigment

PI - 39 J. Garcia-Martinez, M. Rico, E. Serrano, A.E. Sepulveda, J.R. Berenguer, E. Lalinde: Visible-light response and photocatalytic activity of novel mesoporous organotitanias

PI - 40 M. Hejdová, E. Černošková, R. Todorov, Z. Černošek, J. Holubová: Characterization of selected bulk glasses and thin films of Ge-Se-Te system

PI - 41 M. Hnatko, M. Kašiarová, D. Galusková, R. Bystrický, Z. Lenčéš, P. Šajgalík: Corrosion of engineering ceramic materials (silicon nitride and SiAlON) by molten iron

PI - 42 J. Hynek, V. Kalousek, R. Žouželka, P. Dzik, J. Rathouský, J. Demel, K. Lang: High photocatalytic activity of transparent films composed of ZnO nanosheets

PI - 43 M. Holubec, P. Komadel: Possibilities for removal of chlorinated hydrocarbons from soil matrix using zero valent iron

PI - 44 P. Luňáková, K. Vilušinská, M. Trojan, J. Trojan: Yellow perovskite pigments

PI - 45 H.P. Oliveira, G.R. Silva, J.L. Bruçó, J.C. Borges, and C.A. Pelá: $CaSO_4$:Dy/silica composite as thermoluminescent dosimeter

PI - 46 P. Šimurka, J. Kraxner, P. Vrábel, T. Paučo, S. Sanchetti, S. Falcone: Al_2O_3 - ZrO_2 - SiO_2 refractory corrosion in barium soda lime silicate glass melt

PI - 47 F. Tonus, S. J. Skinner: *In-situ* SOFC cathode/electrolyte interaction study at operating conditions

PI - 48 J. Trojan, L. Karolová, J. Luxová, M. Trojan, P. Luňáková: Cassiterite pigments with chromium and rare earth metals

PI - 49 N.S. Tsvetkova, I.L. Ivanov, D.S. Tsvetkov, A. Yu. Zuev: Cathode materials (100-y)$PrBaCo_{2-x}Fe_xO_{6-\delta}$ – y$Ce_{0.8}Sm_{0.2}O_2$ (x=0-0.6; y=0÷30) for intermediate temperature SOFCs

PI - 50 Z. Vilčeková, M. Kašiarová, M. Domanická, M. Hnatko, P. Šajgalík: Preparation and properties of silicon nitride cellular biomaterials for bone replacement

POSTER SESSION II (*T4, T5, T6*)

T4 - Spectroscopic, diffraction and structural aspects

PII - 01 V. Pet'kov, E. Asabina, I. Schelokov, I. Glukhova, V. Kurazhkovskaya, E. Borovikova: New complex phophates of titanium, iron and metals in oxidation state +2

PII - 02 E. Jaśkowska, W. Ziemkowska: DialkylgalLium complexes with Oxamides and succinic acid amides

PII - 03 V. Karadjova, D. Stoilova: Vibrational behavior of matrix-isolated ions in tutton compounds. Infrared spectroscopic studies of $Cs_2Ni(XO_4)_2$•$6H_2O$ (X = S. Se) and of NH_4^+ ions included in $M_2Ni(XO_4)_2$·$6H_2O$ (M = Cs, Rb; X = S, Se)

PII - 04 V. Karadjova, M. Wildner, D. Manasieva, D. Stoilova: Hydrogen bond strength in some beryllium compounds. Correlation between structural data and infrared spectra

PII - 05 S. Kareiva, A. Selskis, F. Ivanauskas, S. Šakirzanovas: Stereo photography and spatial surface reconstruction using scanning electron microscopy images

PII - 06 A. Kleinová, J. Huran, V. Sasinková, A. P. Kobzev: FTIR spectroscopy investigation of chemical bonding in silicon carbide thin films prepared by PECVD technology

PII - 07 M. Kowalik, J. Masternak, W. Sawka-Dobrowolska, B. Barszcz: Coordination modes of pyridine-2,3-dicarboxylic acid related to Cu(II), Cd(II), Ca(II), Mn(II) and Pb(II) ions

PII - 08 S.H. Lin, W.L. Tzeng, W.H. Tuan, D. Galusek, S.J. Shih: Correlation of photoluminescence and crystallinity for $SrTiO_3$:Pr^{3+}, Al^{3+} particles by spray pyrolysis

PII - 09 K. Matelková, L. Kucková, J. Moncoľ, A. Mašlejová: Synthesis and structural characterization of oxalato complexes

PII - 10 H. P. Oliveira and J. P. L. Ferreira: Synthesis of $(VO)_2P_2O_7$ doped with molybdenum via intercalation-reduction of $VOPO_4$•$2H_2O$

PII - 11 H. Pálková, V. Bizovská, A. Czímerová, J. Madejová, P. Komadel, P. Uhlík, J. Lexa: Application of infrared spectroscopy for characterization of perlites

PII - 12 M. J. Percino, M. Cerón, G. Soriano-Moro, P. Ceballos, V. M. Chapela, M. E. Castro, M. Reyes-Reyes, and R. López-Sandoval: Supramolecular structures of α,β-unsatured acrylonitrile derivatives and their fluorescence behaviour

PII - 13 L. Petra, P. Billik, P. Komadel: Effect of dry grinding on adsorption properties of montmorillonite

PII - 14 D. Plachá, G. Simha Martynková, O. Dutko, J. Karas, M. Valášková: Functionalized carbon nanotubes, their characterization and properties

PII - 15 M. Puchoňová, Z. Repická, J. Moncol, L. Dlháň, M. Mazúr, D. Valigura: Spin-spin interactions mediated by H-bond in copper(II) salicylatocomplexes

PII - 16 V. Sasinková, J. Huran, A. Kleinová, S.A. Kulikov: Raman spectroscopy study of PECVD silicon carbide thin films irradiated with neutrons

PII - 17 O. Shpotyuk, A. Ingram, P. Baláž, Z. Bujňáková, L. Shpotyuk: Nanostructurization of arsenic sulfide polymorphs probed with positron annihilation lifetime spectroscopy

PII - 18 L. Shpotyuk, O. Shpotyuk, A. Ingram: Free volume structure of realgar by positron annihilation lifetime spectroscopy

PII - 19 G. Simha Martynková, M. Valášková, L. Rozumová, D. Plachá: Nanocarbon fillers treatment for metalic nanocomposites preparation

PII - 20 F. Šimko, A. Rakhmatullin, M. Kontrík, C. Bessada: Formation of oxofluoroaluminates in (K, Rb)F–Al_2O_3 systems

PII - 21 M. Korenko, M. Straka, M. Šimurda, J. Uhlíř, L. Szatmáry, M. Ambrová: Phase analysis of the solidified KF–(LiF–NaF–UF_4)–ZrF_4 molten electrolytes for the electrowinning of uranium

PII - 22 M. Valášková, J. Zdrálková, G. Simha Martynková: New ceramic composites sintered from the mixtures with organovermiculite

PII - 23 W. Ziemkowska: Role of lewis bases in reactions of aluminum and gallium trialkyls with 2-mercapto benzoxazole

T5 - Thermochemical, thermodynamic and kinetic aspects

PII - 24 N. Gorodylova, Ž. Dohnalová, P. Šulcová: The Role of yttrium in stress-induced stabilization of *t*-ZrO_2 and its influence on the reactivity of the obtained product in interaction with phosphates

PII - 25 H. Krarcha, S. Messaadi: Heats of formation of zirconium binary transition metal alloys

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PII - 28 S. Kitabayashi and N. Koga: Formation Process of TIN(IV) oxide nanoparticles during oxidative decomposition of TIN(II) oxalate

PII - 29 K. Łączka, J. Wasylak: Investigation of the activation energy of LAS glass-ceramics utilizing the wastes and natural spodumene

PII - 30 M. Lissová, V. Zemanová, A. Plško, M. Liška, M. Chromčíková, B. Hruška: Properties of glasses in ZnO-P_2O_5 system

PII - 31 A. Matraszek, I. Szczygieł: The double phosphates of sodium and rare earth elements with glaserite structure: Synthesis and polymorphism

PII - 32 E. Radomińska, A. Matraszek, T. Znamierowska: Study of phase equilibria in the $Ba_3Y(PO_4)_3$-$BaRbPO_4$ system

PII - 33 J. Michálková, P. Vlčková, J. Vokelová, K. Faturíková, M. Chromčíková, M. Liška: Kinetic model of izomer TT glass fiber leaching in corrosive media under flow-through condition

PII - 34 L.A. Molotovska, A.S. Podyman, D.B. Shakhnin, A.I. Gab, V.V. Malyshev, J. Schuster, V. Pavlik: Disilicide coatings formation at chromium, molybdenum and tungsten surfaces from chloride-fluoride silicon containing melts

PII - 35 R. Pilar, L. Svoboda, P. Honcova, P. Kostal: Comparison of amorphous and crystalline As_2Se_3

PII - 36 P. Pilny, J. Shanelova, J. Malek: Simulation of crystal growth

PII - 37 V.V. Sereda, D.S. Tsvetkov, A.Yu. Zuev, I.L. Ivanov: Nonstoichiometry, defect structure and defect-induced properties of $LaNi_{0.6}Fe_{0.4}O_{3-\delta}$

PII - 38 I. Szczygieł, K. Winiarska: The role of co-precipitation conditions on the structure and microstructure of manganese-zinc ferrite

PII - 39 I. Szczygieł, A. Matraszek, L. Macalik, J. Hanuza: Optical and structural characterization of $Na_3Ln_{1-x}Yb_x(PO_4)_2$ orthophosphates synthesized by Pechini method (*Ln* = Y, La, Gd)

PII - 40 P. Vlčková, J. Vokelová, J. Michálková, K. Faturíková, M. Chromčíková, M. Liška: Kinetics of leaching of izomer TT glass fiber in corrosive media

PII - 41 J. Vokelová, P. Vlčková, J. Michálková, K. Faturíková, M. Chromčíková, M. Liška: Kinetics of leaching of izomer TT glass grains under static conditions in distilled water and in borate coolant solution

PII - 42 V. Zemanová, A. Plško, M. Lissová, M. Chromčíková, M. Liška: Thermal properties of $50CaO\text{-}50P_2O_5$ glasses

T6 - Computation and theoretical aspects

PII - 43 P. Kostka, M. Legouera, J. Macháček, N. Bašinová, M. Žaloudková, M. Poulain: Infrared transmitting glasses in the system of $ZnBr_2 – Sb_2O_3$: Thermal properties, surface corrosion and structural model

PII - 44 M. J. Percino, M. E. Castro, M. Cerón, P. Ceballos, G. Soriano-Moro, V. M. Chapela, M. Reyes-Reyes, R. López-Sandoval: Understanding crystal packing and polymorphism of (Z)-2-phenyl-3-(4-(pyridin-2-yl)phenyl)acrylonitrile crystals and their fluorescence behaviour using theoretical study

PII - 45 O. Kh. Poleshchuk, A. L. Ivanovskii, N. B. Egorov: Chemical bonding in isotopically pure lead chalcogenides

PII - 46 E. Scholtzová, D. Tunega: Vibrational dynamics in ettringite – DFT and experimental study

PII - 47 R. Šolc, D. Tunega, S. Dultz, B. Schampera: Diffusion of ions in organically modified clays – experimental and molecular dynamics study

PII - 48 R. Šolc, D. Tunega, M. H. Gerzabek, S. Woche, J. Bachmann: Wettability of organically coated tridymite surface – molecular dynamics study

PII - 49 O. V. Kibalnikova: Modeling of catalytic process of DFT

PII - 50 O. V. Kibalnikova: Modeling of gas dimeric nanoclusters

MEETING INFORMATION

Place of event: SPA HALL "Kúpeľná dvorana"
Address: 17 November street 32, Trenčianske Teplice

Organizing committee

Miroslav BOČA / Conference Chair/
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Badge colours:

Organizing committee – ORANGE
Full meeting participants – BEIGE
Single day participants – GREEN
Accompanying persons - BLUE

You are kindly asked to use your badge to be allowed to enter the meeting centre and the restaurant.

Lectures

All lectures will be held in the Concert Auditorium of the SPA HALL
Plenary lectures - 45 minutes including discussion,
Keynote lectures – 30 minutes including discussion,
Other lectures – 20 minutes including discussion.

The presentations should be delivered to the technical assistant on the day preceding the lecture or at the very latest, 20 minutes before the first presentation of the day. The speakers are kindly asked to provide the presentations prepared in Power Point or in the pdf format. Using own laptops for presentations is not recommended to avoid potential technical problems.

If the speaker would not confirm his lecturing (see above) the time reserved for his lecture will be substituted with a break the programme will resumed as scheduled.

All known changes in the schedule will be announced before the first presentation in the morning, will be displayed on the entrance door of the lecture room, and on the wide screen monitor installed in the entrance hall.

Poster presentations

Both poster sessions will be held in the Concert Auditorium on Monday and Tuesday. The poster boards will be numbered and the posters should be placed to the appropriate boards in the morning of both days. Everything necessary to mount the posters will be provided at the registration desk.
Authors are advised to retrieve their posters immediately after their poster session. The abandoned posters will be discarded.

Poster competition for students

The results will be announced during the Conference Dinner on Thursday.

All authors are requested to participate on the poster sessions.

Lunches

Lunches will be covered in the registration fee and will be served in the restaurant KURSALON between 12:00 and 13:30 h. The tickets will be provided at the registration desk and collected at the entrance to the restaurant.

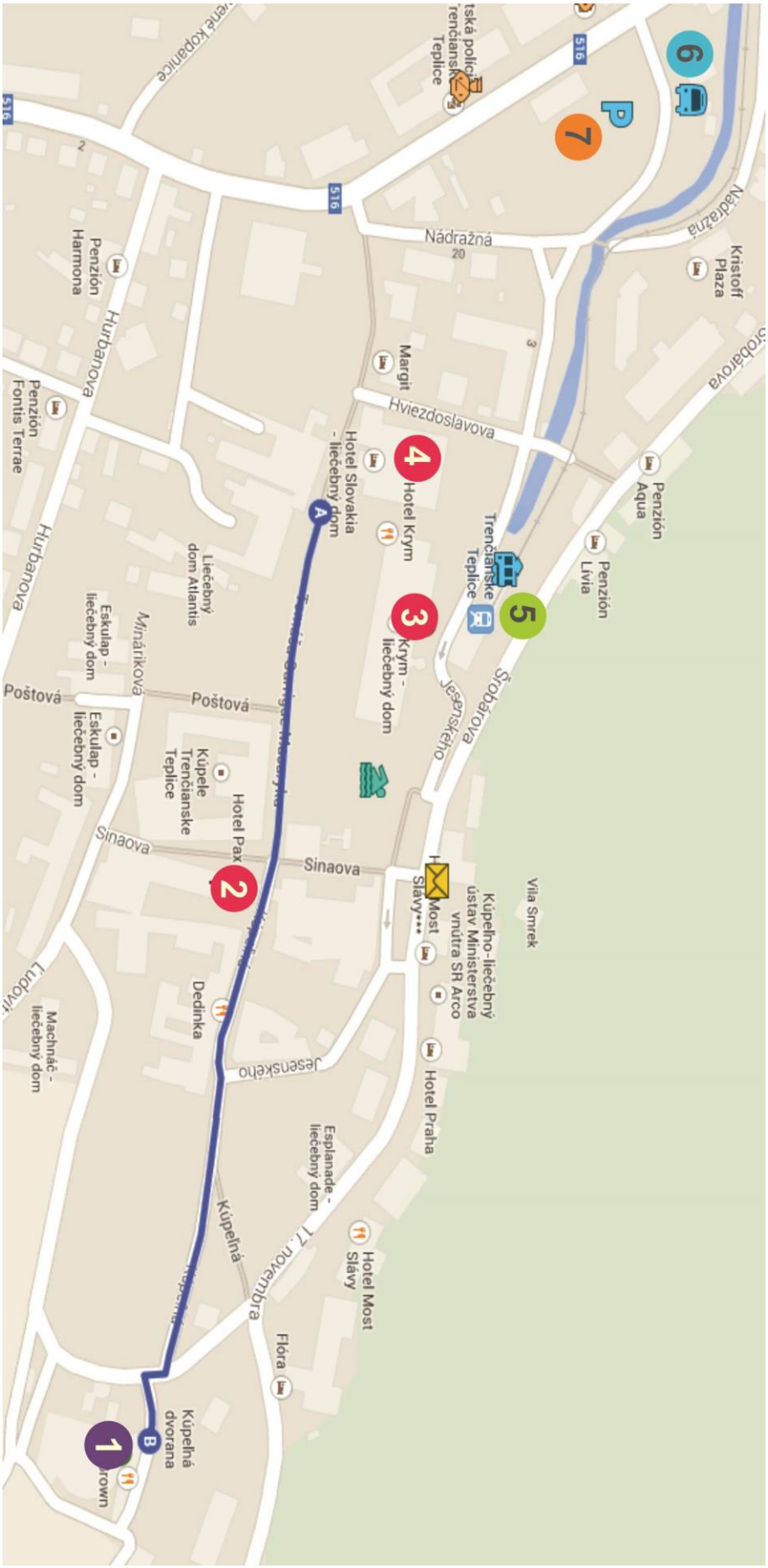
Social events

Welcome party – Sunday 18:00 to 20:00 h
Wine and beer tasting – during poster sessions on Monday and Tuesday (20:00 – 22:00 h)
Conference Dinner will be in the restaurant KURSALON. The tickets will be sold at the registration desk until Wednesday noon.

Trips and Spa

The trips will be in the afternoon on Wednesday. Representative of the company "Kúpele Trenčianske Teplice, Inc., will be available during registration time on Sunday to consult offered TRIPS and SPA packages.

Orientation map – Trenčianske Teplice



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