

Preface	3
Content	5
Timetable of the Conference	13

Metal Oxides

M. Á. Alario-Franco: MICROSTRUCTURE IN SOLID STATE CHEMISTRY	17
V. A. Alyoshin et al.: P(Hg)-P(O ₂)-T PHASE DIAGRAM, MERCURY NONSTOICHIOMETRY AND SYNTHESIS OF HIGH TEMPERATURE SUPERCONDUCTOR Hg _{1-x} Ba ₂ CuO _{4-x+d}	18
M. Yu. Avdeev et al.: LAYERED NIOBATES WITH THREE-DIMENSIONAL LITHIUM ION CONDUCTION	19
A. V. Baranov et al.: LOCAL ENVIRONMENT AND VIBRATIONAL CHARACTERISTICS OF ¹¹⁹ Sn MÖSSBAUER PROBE ATOMS IN A ₂ Fe ₂ O ₅ FERRITES (A = Ca, Sr)	20
H. Batis et al.: PHYSICO-CHEMICAL AND ACIDO-BASIC PROPERTIES OF SUPPORTED LaCrO ₃ CATALYSTS	20
P. D. Battle: TRANSITION METAL OXIDES; STRUCTURES, PROPERTIES AND UNDERSTANDING	21
G. V. Bazuev et al.: SYNTHESIS, CRYSTAL STRUCTURE AND MAGNETIC PROPERTIES OF NEW PSEUDO ONE-DIMENSIONAL OXIDES OF A _{3n+3m} A' _n Mn _{3n+m} O _{9m+6n} FAMILY	22
J. E. Bennett, D. Jefferson: AN INVESTIGATION OF NOVEL RIBBON STRUCTURES IN STRONTIUM LANTHANUM TITANATES USING HRTEM AND ASSOCIATED TECHNIQUES	23
J. Buršik et al.: THE TEXTURED PbTiO ₃ - Al ₂ O ₃ COMPOSITE FILMS PREPARED BY THE SOL - GEL METHOD	23
J. Buršik et al.: THE INFLUENCE OF Bi - SUBSTITUTION ON CRYSTALLOGRAPHIC, MAGNETIC AND MAGNETO-OPTIC PROPERTIES OF YTTRIUM IRON GARNET PREPARED BY THE SOL - GEL METHOD	24
A. A. Burukhin et al.: SYNTHESIS OF NANOCRYSTALLINE FERRITES FROM HYDROTHERMAL AND SUPERCRITICAL SOLUTIONS	25
S. R. G. Carrazán et al.: SOLID STATE REACTIONS IN Sn-Mo-Ti-O AND Bi-Mo-Ti-O AND THEIR RELATIONSHIP TO THEIR BEHAVIOUR IN OXIDATION PROCESSES	26
F. Dubois et al.: THERMAL DECOMPOSITION OF La _{1.2} Er _{0.7} Sr _{1.1} Cu ₂ O _{5.95} : FORMATION OF T* AND T LIKE PHASES FROM AN OXYGEN DEFICIENT P2 / RS INTERGROWTH	27
J. Etourneau et al.: NEW DEVELOPMENTS IN SOLID STATE CHEMISTRY AND MATERIALS SCIENCE THROUGH SUPERCRITICAL FLUID PROCESSING	28
M. Gotić et al.: SYNTHESIS OF TUNGSTEN TRIOXIDE HYDRATES AND THEIR THERMAL BEHAVIOR	29
F. Hanic et al.: SUBSTITUTION AND DOPING OF YBa ₂ Cu ₃ O ₇ by Ag ⁿ⁺ , Sr ²⁺ , Sc ³⁺ AND RELATED PROPERTIES	30
A. A. Hanna et al.: THE ELECTRICAL PROPERTIES OF NICKEL, COBALT AND MIXED FERRITES	31
S. Hoste et al.: INFLUENCE OF HIGH LEVEL Ag DOPING ON THE SUPERCONDUCTING PROPERTIES OF YBa ₂ Cu ₃ O ₇ /Ag COMPOSITES	32
Z. Jiráček et al.: THE ANTIFERRO-FERROMAGNETIC PHASE COEXISTENCE IN THE Mn ³⁺ /Mn ⁴⁺ (1:1) PEROVSKITES	33
K. Knižek et al.: PREPARATION OF SUPERCONDUCTING MERCURY CUPRATES UNDER CONTROLLED OXYGEN AND MERCURY PARTIAL PRESSURES	34
R. Köhn and M. Fröba: IN SITU FORMATION OF METAL AND METAL OXIDE NANOSTRUCTURES WITHIN HIGHLY ORDERED MESOPOROUS MCM-48 SILICA PHASES	35
V. Kozhukharov et al.: MOESSBAUER SPECTROSCOPY STUDY OF La _{1-x} Sr(Ba) _x Co _{0.8} Fe _{0.2} O _{3-d} PEROVSKITES	36
G. Krabbes et al.: Zn FOR Cu SUBSTITUTION IN YBa ₂ Cu ₃ O _{7-d} AND ITS INFLUENCE ON SUPERCONDUCTING CRITICAL CURRENTS	37
N. Kumada et al.: PREPARATION AND ION-EXCHANGE REACTION OF KFe _x Ti _{1-2x} Nb _{1+x} O ₅ (0<x<0.5)	38
I. G. Kuzemskaya et al.: THERMOPOWER AND RESISTANCE OF THE CERAMIC SUPERCONDUCTOR HgBa ₂ Ca ₄ Cu ₅ O _{12+d} UNDER HIGH PRESSURE	39
I. Lazǎu et al.: STUDY OF INTERACTIONS IN THE CaO-Al ₂ O ₃ SYSTEM STARTING FROM ORGANIC PRECURSORS	40
I. Lazǎu et al.: CORRELATION BETWEEN THE COLOUR, THE STRUCTURE AND THE ELECTRONIC SPECTRA OF SOME COBALT COMPOUNDS	41
O. N. Leonidova et al.: IR-SPECTRA AND TRANSPORT PROPERTIES OF SOLID SOLUTIONS BASED ON BARIUM ORTHOVANADATE	42
M. Machida et al.: PHOTOCATALYTIC PROPERTY AND ELECTRONIC STRUCTURE OF LANTHANOIDE TANTALATES	43
M. E. Melo Jorge et al.: INFLUENCE OF THE CHROMIUM SUBSTITUTION ON THE ELECTRONIC PROPERTIES OF THE CaMnO _{3-d} PEROVSKITE	44
M. H. M. Mendonça and F. M. Costa: STRUCTURAL, ELECTRICAL AND MAGNETIC STUDIES OF THE MIXED POWDER SYSTEM CoMn _{2z} Ni _x O ₄	45

V. Musat Bujoreanu et al.: CATIONS DISTRIBUTION AND MAGNETIC PROPERTIES OF MANGANESE FERRITE POWDER PREPARED BY COPRECIPITATION FROM MnO_2 AND $FeSO_4 \cdot 7H_2O$	46
I. Nowik: VALENCE INSTABILITIES AND PHASE TRANSITIONS IN RARE EARTH AND IRON GROUP COMPOUNDS	47
G. Plesch et al.: MICROSTRUCTURE AND SUPERCONDUCTING PROPERTIES OF MELT TEXTURED $Y - Ba - Cu - (Ag) - O$ COMPOSITES WITH VARIOUS Ag CONTENT	48
E. Pollert: TRANSITION METAL OXIDES, FROM FERRITES TO MANGANITES SYNTHESIS AND STRUCTURAL PROPERTIES	49
M. Popa and M. Kakhana: THE EFFECT OF Ca SUBSTITUTION FOR Pr IN THE SYNTHESIS OF $PrBa_2Cu_3O_7$ BY AMORPHOUS CITRATE TECHNIQUE	49
M. Popa and M. Kakhana: FORMATION OF PRASEODYMIUM OXIDE FROM THE THERMAL DECOMPOSITION OF PRASEODYMIUM COMPLEXES	50
J. Prazuch et al.: TEM INVESTIGATION OF HIGH- T_c SUPERCONDUCTING $Ti-1223$ THICK FILMS OBTAINED BY SCREEN-PRINTING METHOD	50
P. V. Prikhodchenko et al.: ON THE STRUCTURE OF POTASSIUM HEXAHYDROPEROXOSTANNATE	51
J. S. Pshirkov et al.: SYNTHESIS AND STRUCTURE OF NEW Bi -BASED MIXED OXIDES.	52
B. Raveau et al.: CMR MANGANITES: STRUCTURAL TRANSITIONS AND CHARGE ORDERING IN RELATION WITH MAGNETO-TRANSPORT PROPERTIES	53
M. Ristić et al.: FERRITIZATION OF Y^{3+} AND Nd^{3+} IONS IN THE SOLID STATE	53
E. Rodríguez-Castellón et al.: COBALT OXIDE SUPPORTED ON ALUMINA PILARED α -ZIRCONIUM PHOSPHATE: SYNTHESIS, CHARACTERISATION AND CATALYTIC APPLICATIONS	54
K. Ruck et al.: PREPARATION, STRUCTURE, AND MAGNETIC PROPERTIES OF LOW-DIMENSIONAL CUPRATES AND COPPER OXIDE CHLORIDES	55
T. Sato et al.: SYNTHESIS AND PHOTOCATALYTIC PROPERTIES OF TRANSITION METAL ION DOPED HYDROGEN TITANATES	56
P. Schmidt et al.: NEW PHASES IN THE QUATERNARY SYSTEM $Bi/Sr/O/Cl$ - THERMODYNAMICS OF SOLID STATE AND VAPOUR PHASE	57
U. Steiner et al.: PREPARATION AND CRYSTAL STRUCTURE OF $Cu_{1-x}Zn_xMoO_4$ AND $Cu_{3-x}Zn_xMo_2O_9$ SOLID SOLUTIONS	58
A. Strejc et al.: PHASE EQUILIBRIA IN $La-Sr-Mn-O$ SYSTEM	59
M. A. Subramanian: STRUCTURAL ORIGIN OF MAGNETISM IN 3D COPPER OXIDES: $MCuO_3$ PEROVSKITES	60
P. Tabero et al.: THE STRUCTURE OF $AlVO_4$	60
A. Veresov et al.: $Bi_{2-x}Pb_xSr_2CaCu_2O_7$ SOLID SOLUTIONS : PHASE TRANSFORMATIONS AND PINNING IN MATERIALS BASED ON $Bi-2212$ PHASE.	61
A. L. Vinokurov et al.: CHEMICAL INTERACTION AND PHASE EQUILIBRIA IN THE SYSTEMS $YBa_2Cu_3O_x-XO_2$ AND $YBa_2Cu_3O_x-BaXO_3$ ($X = Zr, Hf, Ce, Th$)	62
E. Wolska et al.: THE VIBRATIONAL SPECTRA OF LITHIUM FERRITES. A COMPUTER SIMULATION AND INFRARED SPECTROSCOPIC STUDIES	62
S. Yabe et al.: SYNTHESIS AND UV-SHIELDING PROPERTIES OF ALKALINE EARTH METAL OXIDE DOPED CERIA VIA SOFT SOLUTION CHEMICAL PROCESSES	63
I. Zvereva et al.: STRUCTURAL, MAGNETIC AND OPTICAL PROPERTIES OF $Sr_3Ti_2O_7$ DOPED BY CHROMIUM	64

Glass

E. Bednářová and L. Svoboda: FACTORS AFFECTING AVERAGE CHAIN LENGTH OF SODIUM POTASSIUM PHOSPHATE - GLASSES	67
R. Burkhalter et al.: NEAR SURFACE CHEMISTRY OF $LiYF_4$: WET ETCHING AND SEGREGATION PHENOMENA AT HIGH TEMPERATURE	68
Y. Dimitriev et al.: GLASS-CRYSTALLINE MATERIALS IN THE SYSTEM $P_2O_5-CaO-ZnO-Ti$	69
Y. Dimitriev et al.: NONISOTHERMAL KINETICS OF CRYSTALLISATION OF $V_2O_5-MoO_3-Bi_2O_3$ GLASSES	69
Y. Dimitriev et al.: LIQUID PHASE SEPARATION IN THE SYSTEMS $TeO_2-B_2O_3-MnO_m$ ($MnO_m = Al_2O_3, Ga_2O_3, Sc_2O_3, La_2O_3$ and Bi_2O_3)	70
Y. Dimitriev et al.: GLASSES IN THE $B_2O_3-V_2O_5$ SYSTEM OBTAINED BY FAST QUENCHING	70
P. Exnar: VISCOSITY CHANGES OF GLASSES WITH FLUORIDES CONTENT IN THE COURSE OF CRYSTALLIZATION BY A PENETRATION VISCOMETER	71
M. Frumar et al.: PHOTOINDUCED CHANGES OF STRUCTURE AND PROPERTIES OF AMORPHOUS CHALCOGENIDES	72
M. Frumar et al.: OPTICAL PROPERTIES OF RARE-EARTH DOPED CHALCOGENIDE GLASSES	73
O. Gedeon et al.: THE ART AND SCIENCE OF OXIDE GLASSES AT THE TURN OF THE 3 RD MILLENNIUM	74

O. Gedeon and M. Liška: MODELLING OF THE INITIAL STAGES OF ALKALI ION TRANSPORT IN GLASS IRRADIATED BY ELECTRONS	75
O. Gedeon and M. Liška: POTENTIAL ENERGY HYPERSURFACE OF MOVING POTASSIUM IONS IN BINARY K_2O-SiO_2 GLASS	76
B. Hlaváček et al.: THE MUTUAL INTERDEPENDENCE OF PARTITIONS FUNCTIONS IN T_g VICINITY	77
J. Kloužek and A. Franěk: MODELING OF PARTICLE SETTLING IN HIGH-VISCOSITY LIQUID	77
L. Koudelka et al.: STRUCTURE AND PROPERTIES OF MULTICOMPONENT BOROPHOSPHATE GLASSES	78
L. Lakov et al.: PHASE EQUILIBRIUM IN THE $SeO_2-Bi_2O_3$ SYSTEM	79
N. I. Leonyuk: CRYSTALLIZATION VS. POLYMERIZATION: BORATES, BOROSILICATES AND SILICATES	79
R. Marchand and A. Le Sauze: OXYNITRIDE GLASSES: NITROGEN/OXYGEN SUBSTITUTION WITHIN PO_4 TetraHEDRA	80
V. Matějec et al.: PROPERTIES OF GLASS CORES OF OPTICAL FIBERS PREPARED VIA COATING OF THIN LAYERS INTO GLASS SUBSTRATE TUBES	81
P. Nebolová et al.: DIFFUSION OF Er^{3+} INTO OPTICAL GLASS SUBSTRATES	82
T. Nishida: PREPARATION AND CHARACTERIZATION OF HEAVY METAL WASTE GLASS	83
T. Nishida and S. Nobuki: EFFECT OF IRON CONTENT ON THE LOCAL STRUCTURE AND CRYSTALLIZATION MECHANISM OF NEW GLASSES	84
I. Okada et al.: MD SIMULATION OF CRYSTAL GROWTH FROM MELTS — $NaCl$ AND $CaCl_2$	85
M. Poulain: GLASS FORMATION AND SOLID STATE STRUCTURE	86
Y. Setina: OXYFLUORIDE PHOSPHATE AND BOROPHOSPHATE GLASSES: CHARACTERIZATION BY IR AND RAMAN SPECTROSCOPY	87
V. N. Strelakovsky et al.: RAMAN SPECTRA OF GLASSES FORMING AT SYSTEMS PCl_5-BeCl_2 AND PCl_5-BiCl_3	88
J. Špírková et al.: PROPERTIES OF HYDROGEN CONTAINING OPTICAL LAYERS IN LITHIUM NIOBATE	89
J. Špírková et al.: IMPORTANCE OF VARIOUS CRYSTALLOGRAPHIC ORIENTATIONS OF THE SUBSTRATE CUTS ON INCORPORATION OF FOREIGN PARTICLES INTO THE STRUCTURE OF C_{60} OPTICAL CRYSTALS	90
E. M. Vogel: GLASS AND CERAMIC MATERIALS IN COMMUNICATION NETWORKS.	91
T. Wágner et al.: THE TAILORING OF THE COMPOSITION OF $Ag-As-Se$ AMORPHOUS FILMS USING PHOTO-INDUCED SOLID STATE REACTION BETWEEN Ag AND $As_{30}Se_{70}$ FILMS	91

Reactivity of Solids

L. Bača et al.: RAMAN STUDY OF $Fe(NO_3)_3$ INFLUENCE ON $\alpha-Al_2O_3$ CRYSTALLIZATION FROM BOEHMITE GELS	95
W. Bensch et al.: INVESTIGATIONS ON THE MECHANISM OF THE TOPOTACTIC REDOX REACTION OF $TiCr_5Se_8$ LEADING TO THE FORMATION OF Cr IN THE UNUSUAL OXIDATION STATE IV	96
J. M. Criado et al.: THE CONSTANT RATE THERMAL ANALYSIS: A NON-CONVENTIONAL METHOD FOR TAYLORING THE TEXTURE AND THE STRUCTURE OF MATERIALS SYNTHESIZED FROM CONVENTIONAL PRECURSORS	97
D. H. Gregory et al.: THE LAYERED BINARY SUBNITRIDE, Ca_2N ; SYNTHETIC ROUTES, STRUCTURE AND SIMPLE INTERCALATION CHEMISTRY	98
K. Hayashi et al.: OXYGEN ABSORPTION MATERIALS: PROPERTIES OF MIXED-LAYER DELAFOSSITE, $CuScO_2$	99
M. Inagaki: DETERMINING FACTORS FOR ALKALI METAL INTERCALATION INTO CARBON MATERIALS IN ORGANIC SOLUTIONS	100
E. V. Koporuliina et al.: DECOMPOSITION REACTIONS AT THE SURFACE OF $Al_3(BO_3)_4$ CRYSTALS.	101
P. Lagrange and C. Hérold: GRAPHITE AND FULLERITE C_{60} AS OXIDIZING CARBON HOST STRUCTURES FOR INTERCALATION REACTIONS	102
M. Machida et al.: SOLID-GAS INTERACTION OF NITROGEN OXIDES ADSORBED ON MnO_x-CeO_2	103
J. Maier: KINETICS OF GAS-SOLID INTERACTIONS	104
A. V. Mokhov: FEATURES OF SOLID STATE CHLORITE – CHLORITE-VERMICULITE TRANSITION	105
V. Muşat Bujoreanu et al.: WATER TYPES IDENTIFICATION IN COPRECIPIATED OXIDE POWDERS	106
T. Ohtani et al.: PHASE TRANSITIONS IN QUASI-ONE-DIMENSIONAL CHALCOGENIDES OF $BaNb_{1-x}S_3$ AND $BaTa_{1-x}Se_3$	107
A. Orliukas et al.: SYNTHESIS, STRUCTURE AND PECULIARITIES OF THE IONIC TRANSPORT OF $Li_3Sc_{2(1-x)}Y_{0.05}Fe_{2x}(PO_4)_3$ (WHERE $x=0.1-0.6$)	108
M. V. Patrakeev et al.: THE OXYGEN THERMODYNAMICS AND ION TRANSPORT IN $La_{0.4}Sr_{0.6}CoO_{3-d}$	109
G. Scholz et al.: ALUMINIUM FLUORIDE AS LONG-TERM STORAGE OF ATOMIC HYDROGEN AT AMBIENT TEMPERATURE	110
M. Sinder and J. Pellag: PROPERTIES OF REVERSIBLE $A + B \leftrightarrow C$ (static) REACTION - DIFFUSION PROCESS WITH INITIALLY SEPARATED REACTANTS	111
G. Štefanić and S. Musić: THERMAL BEHAVIOR OF THE AMORPHOUS PRECURSORS OF THE $HfO_2-Fe_2O_3$ SYSTEM	111
P. Tabero et al.: THE MECHANISM AND KINETICS OF SYNTHESIS OF $Zr_{12.5}VMoO_8$ PHASE	112

V. A. Tatarenko: PHASE STABILITY OF METAL HYDRIDES CONTAINING HYDROGEN-INDUCED SUPER-ABUNDANT VACANCIES UNDER HIGH HYDROGEN PRESSURE	113
I. S. Vinnogradova et al.: THE STUDY OF ALKALINE HYDROGEN SELENITES DEHYDRATION BY PROTON MAGNETIC RESONANCE METHOD	114
I. A. Zvereva et al.: KINETICS OF FORMATION AND MECHANISM OF DEMIXION OF LAYER STRUCTURES IN RUDDLES DEN-POPPER PHASES	115

Electrochemistry of Solids

Yu. Basova: Preparation and ELECTROCHEMICAL PROPERTIES OF CATALYST BASED ON MACROBICYCLIC TRIS-DIOXIMATE METAL COMPLEXES	119
J. Bludská et al.: COPPER INTERCALATION INTO $p\text{-Bi}_2\text{Te}_3$ CRYSTALS	120
M. Lurdes F. Ciriaco et al.: PREPARATION AND CHARACTERISATION OF $\text{KTa}_{0.9}\text{Fe}_{0.1}\text{O}_{3-d}$ PEROVSKITE ELECTRODES	121
M. I. Da Silva Pereira: ELECTROCHEMISTRY AS A TOOL TO STUDY OXIDE MATERIALS	121
M. Gálová et al.: ELECTROCHEMICAL PROCESSES DURING PLATING FE POWDER PARTICLES BY Ni AND Ni-Cu COATING IN THE FLUIDIZED BED	122
G. Gorokh et al.: CREATION AND RESEARCH OF ALUMINUM ANODIC OXIDE FREE LAYERS WITH OPEN PORES	123
T. Grygar et al.: ELECTROCHEMICAL REACTIVITY OF THE SERIES $\text{LiMn}_2\text{O}_4\text{-Li}_{0.5}\text{Fe}_{2.5}\text{O}_4$	124
T. Grygar et al.: ELECTROCHEMICAL DISSOLUTION OF MIXED OXIDES OF Mn AND Fe	125
L. Guerlou-Demourgues et al.: PREPARATION, CHARACTERISATION AND THERMAL BEHAVIOUR OF OXOMETALLATE (Mo , W) PILLARED LAYERED HYDROXIDES WITH (Ni, Co) BASED SLABS	126
L. Guerlou-Demourgues et al.: INFLUENCE OF PARTIAL SUBSTITUTION OF ZINC FOR NICKEL ON THE STRUCTURE OF NICKEL HYDROXIDE	127
R. Jirásek et al.: LITHIUM INSERTION INTO ALUMINIUM MODIFIED TiO_2 MESOSCOPIC ELECTRODES	128
R. Jirásek et al.: LITHIUM INSERTION INTO NANOSTRUCTURED TiO_2 (ANATASE) ELECTRODES TEMPLATED BY STEARIC ACID	129
B. Klápště et al.: ELECTROCATALYSTS BASED ON MANGANESE OXIDES DEPOSITED CHEMICALLY ON CARBON BLACK	130
E. Kriván and Cs. Visy: NEW PHENOMENA OBSERVED DURING THE ELECTROCHEMICAL REDUCTION OF CONDUCTING POLYPYRROLE FILMS	131
A. Lerf et al.: ELECTROCHEMICAL INTERCALATION OF ALKYLAMMONIUM IONS INTO THE ISOSTRUCTURAL LAYERED DICHALCOGENIDES 2H-NbS_2 AND 2H-TaS_2	132
Jyh Shing Lin and Lien Feng Lee: COMPUTER MODELING STUDY OF THE INTERACTIONS AMONG POLYMER, MOLECULE AND ION	133
A. Moyalev and V. Surganov: NANOSTRUCTURED TRANSITION METAL ANODIC OXIDES: MORPHOLOGY, CHEMICAL COMPOSITION AND FORMATION MECHANISM	134
A. Nemudry and R. Schöllhorn: ELECTROCHEMICAL OXIDATION OF PEROVSKITE RELATED OXIDES AT AMBIENT TEMPERATURE	135
T. Ohzuku: SOLID STATE ELECTROCHEMISTRY OF LITHIUM INSERTION MATERIALS FOR ADVANCED BATTERIES	136
G. Ouvrard: LITHIUM STORAGE MECHANISM IN OXIDES AS LITHIUM BATTERY ELECTRODES	137
I. Paseka: CHARACTERISATION OF RUTHENIUM CATALYSTS AND DETERMINATION OF THEIR SURFACES BY ELECTROCHEMICAL OXIDATION AND REDUCTION	138
M. V. Patrakeev et al.: ELECTRICAL CONDUCTIVITY AND SEEBECK COEFFICIENT IN $\text{Sr}_4\text{Fe}_6\text{O}_{13+x}$	139
Su-Il Pyun and Jeong Nam-Han: AN INVESTIGATION OF THE STRESSES DEVELOPED DURING HYDRGEN TRANSPORT THROUGH PALLADIUM FOIL ELECTRODE	140
Su-Il Pyun et al.: TRANSPORT OF ALKALINE CATION AND NEUTRAL SPECIES THROUGH $\text{Ni}(\text{OH})_2/\text{NiOOH}$ FILM ELECTRODE DURING CYCLIC VOLTAMMETRIC MEASUREMENT	141
Su-Il Pyun et al.: MORPHOLOGICAL STUDIES ON THE MECHANISM OF PIT GROWTH OF PURE ALUMINIUM IN SULPHATE AND NITRATE ION-CONTAINING 0.1 M NaCl SOLUTION	142
J. Reiter et al.: IONIC CONDUCTIVITY OF PMMA BASED GEL ELECTROLYTES CONTAINING SODIUM OR LITHIUM SALTS	143
S. Sauter et al.: LOCAL DEPOSITION AND CHARACTERISATION OF $\text{K}_2\text{Co}[\text{Fe}(\text{CN})_6]$ AND $\text{K}_2\text{Ni}[\text{Fe}(\text{CN})_6]$ BY SCANNING ELECTROCHEMICAL MICROSCOPY	144
F. Scholz et al.: THE INTERACTION OF PRUSSIAN BLUE AND DISSOLVED HEXACYANOFERRATE IONS WITH GOETHITE ($\alpha\text{-FeOOH}$) STUDIED TO ASSESS THE CHEMICAL STABILITY AND PHYSICAL MOBILITY OF PRUSSIAN BLUE IN SOILS	144
F. Scholz: SOLID STATE ELECTROCHEMISTRY - FAR MORE THAN ONLY SOLID ELECTROLYTES	145
P. Strobel et al.: CHARACTERIZATION OF CATION-DEFICIENT SPINELS IN THE Li-Mn-O SYSTEM	146

A. Šurca Vuk et al.: SPECTROELECTROCHEMICAL AND STRUCTURAL CHARACTERISATION OF AN OPTICALLY PASSIVE Li_xCeVO_4 COUNTER ELECTRODE FOR ELECTROCHROMIC DEVICES	147
A. Šurca Vuk et al.: STRUCTURAL AND SPECTROSCOPIC STUDIES OF $\text{Fe}_2\text{V}_4\text{O}_{13}$, FeVO_4 AND $\text{Fe}_{0.1}\text{V}_2\text{O}_5$ THIN FILMS OBTAINED VIA THE SOL-GEL SYNTHESIS	148
J. Velická et al.: THIN LAYER ELECTRODES FOR ELECTROCHROMIC DEVICES	149
A. Vitiš: STUDY OF THE AC ELECTRICAL PROPERTIES OF ZrO_2 -7.5 MOL% Y_2O_3 CERAMICS AT ROOM TEMPERATURE AND AT 457-594 K	150
J. Vondrák et al.: MANGANESE OXIDE AND CARBON CONTAINING ELECTRODE FOR LITHIUM INTERCALATION	151

Materials

S. P. Baranov et al.: COMPUTER SIMULATIONS OF METAL NANOCLUSTERS FORMATION VIA CVD	155
C. Barriga et al.: EFFECT OF CHROMIUM LOCATION ON THE REACTION PATHWAYS AND PRODUCTS FORMED UPON THERMAL DECOMPOSITION OF Zn-Al-Cr-HYDROTALCITES	156
X. Bourdon et al.: ELECTRIC DIPOLE ORDERING ASSOCIATED WITH d^{10} AND d^0 CATIONS: THE CASES OF $\text{CuInP}_2\text{Se}_6$ AND CuScP_2S_6	157
M. Brezeanu et al.: COORDINATION COMPLEX COMPOUNDS – AS PRECURSORS FOR MIXED OXIDES	158
O. Carp et al.: A NEW ROUTE OF OBTAINING NANOSIZED CoFe_2O_4	159
M. Drábik: MDF MATERIALS; A SORT OF CHALLENGING CERAMICS OF NEW MILLENNIUM	160
M. Drábik et al.: BLENDS OF SAFB CLINKERS AND PORTLAND CEMENT FOR MACRO-DEFECT-FREE MATERIAL: TEST OF MOISTURE RESISTANCE AND THERMAL STABILITY	161
V. S. Gurin et al.: SOL-GEL SILICA GLASSES WITH NANOPARTICLES OF COPPER SELENIDE: SYNTHESIS, OPTICS AND STRUCTURE	162
H. Haneda et al.: TESTING OF ZINC OXIDE PHOTOCATALYTIC BEHAVIOR	163
Z. Holková et al.: IN-SITU OPTICAL TRANSMITTANCE MEASUREMENTS TO OPTIMIZE PROCESSING OF THE HIGH-TECHNOLOGY OXIDE CERAMICS	163
A. Jiménez-López et al.: COPPER SUPPORTED ON ALUMINA PILARED A-ZIRCONIUM PHOSPHATE FOR DENOX APPLICATIONS	164
Z. Kónya et al.: TIN-VANADIUM MIXED OXIDE CATALYSTS: STRUCTURAL CHARACTERIZATION AND REACTIVITY IN AMMOXIDATION REACTIONS	165
V. Kozhukharov et al.: SYNTHESIS AND CHARACTERIZATION OF HIGH DISPERSED TiO_2	166
I. Lado Touriño et al.: O INTERSTITIAL ENERGETICS IN TI FROM AB INITIO CALCULATIONS	166
V. Lipatnikov, A. Gusev: HIGH-TEMPERATURE ORDER-DISORDER PHASE TRANSFORMATION IN VANADIUM AND TITANIUM CARBIDE ON THE HEAT CAPACITY	167
P. Lošťák et al.: PREPARATION AND PHYSICAL PROPERTIES OF Fe-DOPED Bi_2Te_3 AND Fe-DOPED Sb_2Te_3 SINGLE CRYSTALS	168
A. V. Lukashin et al.: SYNTHESIS OF PbS/LDH NANOCOMPOSITES USING LAYERED DOUBLE HYDROXIDES AS NANOREACTORS	169
N. Z. Lyakhov et al.: STRUCTURE CHANGES OF NEW POROUS COMPOUNDS WITH COMPLEX OCTAHEDRAL CLUSTER ANIONS AND Co CATIONS AFTER ANNEALING IN VACUUM	170
V. Maisonneuve et al.: THERMAL BEHAVIOUR OF THE HYBRID SERIES: $[\text{D}]_x\text{MF}_5$	171
N. I. Maliavski et al.: STRUCTURE AND STRENGTH CHARACTERISTICS OF HYBRID ZINC-CONTAINING LATEX-SILICATE XEROGELS	172
D. Méhn et al: COMPARISON OF THE POSSIBLE CHARACTERIZATION METHODS AND CATALYTIC TEST REACTIONS FOR ISOMORPHOUSLY SUBSTITUTED MCM-41 TYPE MOLECULAR SIEVE CATALYSTS	173
I. Mindru et al.: NEW SYNTHETIC ROUTE IN OBTAINING COPPER CHROMITE	174
T. Mitsuhashi and M. Kamei: PROGRESS IN THE WETTABILITY CONTROL OF INORGANIC OXIDE SURFACES	175
M. Miyake et al.: PREPARATION AND CHARACTERIZATION OF Pb^{2+} -EXCHANGED SULFIDE CANCRINITE	176
S. Moehmel et al.: ALKALINE-EARTH ALUMINATES FOR APPLICATIONS IN CATALYSIS	177
M. C. Monteiro Dias and N. Shohji: STATISTICAL THERMODYNAMIC CHARACTERIZATION OF AUSTENITIC $\text{Fe}_{1-x}\text{Nb}_x\text{N}_x$ SYSTEM	178
O. Muth and M. Fröba: SYNTHESIS AND CHARACTERIZATION OF MESOSTRUCTURED CHROMIUM OXIDE / MONO-DODECYLPHOSPHATE COMPOSITE MATERIALS	179
D. Nižňanský et al.: PREPARATION OF YIG NANOCOMPOSITES BY SOL-GEL METHOD. INFLUENCE OF MODIFIERS	180
H. Ogawa: A MOLECULAR DYNAMICS STUDY OF PLASTIC DEFORMATION OF CERAMIC POLYCRYSTALS AT HIGH TEMPERATURE	181

D. Orlik et al.: ON THE STRUCTURE OF OXIDES OBTAINED FROM COLLOIDAL SOLUTIONS	182
M. Palou and J. Majling: HYDRATION BEHAVIOUR OF SOLID SOLUTIONS $C_4A_3F_xS$	183
I. Paseka et al.: PREPARATION OF POWDER α'' - $Fe_{16}N_2$. INFLUENCE OF IRON SIZE PARTICLES AND ADDITION OF Ni, Co AND Mn ON THE CONTENT OF α'' - $Fe_{16}N_2$ IN FINAL NITRIDE MIXTURES	184
L. Patron et al.: $LnMnO_3$ AND $Ln_{1-x}Sr_xMnO_3$ OBTAINED BY THE DECOMPOSITION OF POLYNUCLEAR COORDINATION COMPOUNDS	185
A. P. Powell et al.: ORGANIC-INORGANIC HYBRIDS BY EXFOLIATION OF LAYERED MATERIALS	186
E. Rezlescu et al.: THE ROLE OF PbO AND CuO ON THE SINTERING BEHAVIOUR OF MAGNESIUM-BASED FERRITES	186
R. Riedel: MOLECULAR CHEMICAL CONCEPTS FOR THE SYNTHESIS OF NOVEL CERAMICS	187
N. Sata et al.: ENHANCED IONIC CONDUCTION OF MBE GROWN CaF_2 - BaF_2 -HETEROSTRUCTURES	188
T. Sato: HOW TO DECREASE THE CRYSTALLIZATION TEMPERATURE DURING PREPREPARATION OF BORON NITRIDE TO SAVE ENERGY	189
C. Scriban et al.: A NEW SYNTHESIS METHOD FOR IRON-BASED MIXED SULPHIDES	190
A. Siska et al.: CATALYTIC PRODUCTION OF CARBON NANOTUBES OVER Co-, Fe- and Co, Fe-ALUMINA CATALYSTS	191
J. Sobol-Antosiak and W. Ptak: THE ENERGY AND THE SHAPE OF CRYSTAL NUCLEI OF THE GAS PHASE	191
J. Šubr et al.: DEVELOPMENT AND CHARACTERISATION OF PLANAR SORBENTS BASED ON CHEMICALLY TREATED BASALT FIBRES AND CHARCOAL FIBRES	192
K. A. Tarasov et al.: METAL NANOPARTICLES OBTAINED BY MICROEMULSIONS METHOD FOR CATALYSIS, NANOPHARMACOLOGY AND NANO-ELECTRONICS	193
K. A. Tarasov et al.: FORMATION OF NANO-SIZED PARTICLES OF COPPER, COBALT, AND NICKEL FROM COMPLEXES IN THE MATRIX OF LAYERED DOUBLE HYDROXIDE	194
R. A. Tilley and D. A. Jefferson: SYNTHESIS AND STRUCTURAL INVESTIGATIONS OF NANOPARTICLES NICKEL AND CHROMIUM AND THEIR SULPHIDES	195
M. Trojan et al.: NEW PIGMENTS OF PYROCHLORE TYPE	195
M. Trojan et al.: THE BINARY CYCLO-TETRAPHOSPHATES OF DIVALENT METALS	196
M. K. Van Bael et al.: SYNTHESIS OF ZnO NANOPOWDER VIA A CITRATE-ACETATE SOL-GEL METHOD	197
T. Watanabe and M. Yoshimura: ON SITE SYNTHESIS OF PATTERNED DOUBLE OXIDE FILM IN SOLUTION USING LASER IRRADIATION	197
M. Wakamura et al.: SURFACE STRUCTURE AND PHOTOCATALYSIS OF CALCIUM HYDROXYAPATITE MODIFIED WITH TITANIUM IONS	198
J. Walter et al.: PRISTINE AND INTERCALATED TANTALUM CARBOSULFIDE: A STRUCTURAL STUDY BY AFM/STM AND XPS	199
L. V. Yashina et al.: STM AND XPS STUDY OF a-GeTe AS-GROWN SURFACE	200
M. Zemanová et al.: ALUMINIUM OXIDE DEPOSITED ON CARBON STEEL FOR IMPROVEMENT OF CORROSION PROPERTIES	201
M. Zemanová et al.: POLYSILAZANE DERIVED MICRO/NANO Si_3N_4/SiC COMPOSITES	202
L. V. Zueva et al.: INFLUENCE OF ATOMIC ORDERING ON MECHANICAL AND ELECTRICAL PROPERTIES OF TITANIUM CARBIDE TiC_y	203

Structure of Solid Phases

P. Böttcher et al.: THE CRYSTAL STRUCTURES OF Ln_6SE_{15} COMPOUNDS ($Ln = Gd, Tb, Dy, Ho, Er$)	207
X. Bourdon et al.: SCALING UP, STRUCTURE, DYNAMIC AND FILMS OF A NEW ROTAXANE	208
P. Čapková et al.: STRUCTURE ANALYSIS OF INTERCALATES - MODELLING AND EXPERIMENT	209
G. Dabrowska et al.: IR STUDY OF $Ag_8S_3O_4$ AND $Ag_8S_4O_4$ COMPOUNDS	210
J. Darriet: STRUCTURAL MODELS RESULTING FROM THE STACKINGS OF MIXED LAYERS RELATED TO THE PEROVSKITE	211
J. Darriet et al.: THE NEW SERIES OF MODULATED COMPOSITE PHASES $A_{1-x}(A'_xB_{1-x})O_3$ ($A = Ba$; $A', B = d$ -ELEMENTS). AN EXAMPLE OF COMPOSITIONALLY FLEXIBLE PHASES	212
M. Evain: METAL COORDINATION AND STABILITY IN THE HEXAGONAL PEROVSKITE-LIKE $A_{1+x}BX_3$ OXIDES AND SULFIDES	213
A. Yu. Grippa et al.: NEW COMPLEX NIOBIUM AND TANTALUM SULFIDES	214
J. Choisnet and I. A. Zvereva: CONTRIBUTION OF THE A METALS TO BIDIMENSIONALITY IN THE T, T' and T* STRUCTURES OF INTERGROWTH TYPE A_2BO_4 OXIDES	215
B. Koudelka and P. Čapková: PROGRAM SUPRAMOL AND STRATEGY FOR STRUCTURE ANALYSIS OF INTERCALATES, USING COMBINATION OF MOLECULAR SIMULATIONS AND POWDER DIFFRACTION	216

P. Léone et al.: CRYSTAL STRUCTURE OF A NEW NATURAL STRONTIUM, IRON AND ALUMINIUM HYDROXYPHOSPHATE (LULZACITE): $Sr_2Fe(Fe_{0.63}Mg_{0.7})_2Al_4(PO_4)_4(OH)_{10}$	217
A. Loewenschuss: HOLY WATER (OR POROUS ICES)	217
Daniel Louër: THE IMPACT OF MODERN POWDER CRYSTALLOGRAPHY IN SOLID STATE CHEMISTRY	218
P. Mikhail et al.: ON THE SYNTHESIS AND SOLID SOLUTION OF $SrSO_4$ WITH MSO_4 (M = Ba, Sr)	219
Ch. Näther et al.: SYNTHESIS, MODIFICATION AND CONNECTION OF MOLECULAR METAL CHALCOGENIDE M_2Q_{11} BUILDING BLOCKS (M = Nb, Ta, Q = S, Se)	220
G. E. Nikiforova and G. D. Nipan: COMPLEX OXYGEN PHASES IN THE Cu-Re-O SYSTEM	221
Y. Noel et al.: PERIODIC HARTREE-FOCK STUDY OF NITROGEN BASED DEFECTS IN DIAMOND	222
J. M. Perez-Mato and L. Elcoro: INTERGROWTH LAYER COMPOUNDS AS MODULATED STRUCTURES: A SUPERSPACE DESCRIPTION	223
E. B. Rusanov et al.: SUPRAMOLECULAR ISOMERISM OF TETRAMETHYL-4,4-BIPYRAZOLYL, A FLEXIBLE SYSTEM FOR ENGINEERING OF THE INHERENTLY ACENTRIC ARRAY	224
A. J. Rusanova et al.: IODOCUPRATES(II) COMPLEXES OF NOVEL STRUCTURE OBTAINED WITH COPPER POWDER AS A STARTING MATERIAL	225
A. V. Shevelkov et al.: NOVEL HETEROCLUSTERS Ag_3In^{5+} AND Ag_3Sn^{5+} IN POLYPHOSPHIDES	226
E. Silina et al.: CRYSTAL AND MOLECULAR STRUCTURE OF COPPER 2-METHYL- 5-ETHYLTHIO-8-HYDROXYQUINOLINATE	227
O. A. Smirnova et al.: CRYSTAL CHEMISTRY AND CATION TRANSPORT PROPERTIES OF MIXED SODIUM OR POTASSIUM ANTIMONATES	228
O. E. Timofeeva et al.: ON THE STATE OF Ge IN THE CRYSTALS OF PbTe AND SnTe FROM THE X-RAY Ge $K\alpha_{1,2}$ EMISSION SPECTRA	229
A. P. Tyutyunnik et al.: SYNTHESIS AND CRYSTAL STRUCTURE OF THE ANHYDROUS TIN AND LEAD HEXACYANOFERRATES (ii)	230
A. A. Valeeva et al.: THE DISORDERED-ORDER PHASE TRANSFORMATION $TiO_y - Ti_5O_5$	231
I. S. Vinogradova: STRUCTURAL AND PHYSICAL ISOMORPHISM OF THE ALKALI HYDROGEN SELENITES	232
J. Walter and S. Hara: LOW-DIMENSIONAL PALLADIUM NANO-PARTICLES, SOME CRYSTALLOGRAPHIC COMMENTS	233
U. Wiki and R. Nesper: STRUCTURAL STUDIES IN THE Ru-Zn SYSTEM	234
Xinkan Yao et al.: STRUCTURE AND PROPERTIES OF MONONUCLEAR COPPER(II) AND BINUCLEAR COPPER(II)-nIckel(II) COMPLEXES OF MACROCYCLIC OXAMIDES	235
H. Yamane et al.: PREPARATION AND CRYSTAL STRUCTURE OF $Na_2Ca_3Ta_2O_9$	236
G. V. Zubkov et al.: NEUTRON POWDER DIFFRACTION REFINEMENT OF THE K_3NbO_6 CRYSTAL STRUCTURE	237
I. Zviedre et al.: STRUCTURE REGULARITIES OF HYDRATES OF AMMONIUM-STRONTIUM (1:1) TARTRATOBORATE, SODIUM AND AMMONIUM-CADMIUM (1:2) BIS(TARTRATO)BORATES	238

Advanced Syntheses

F. Babonneau: SYNTHESIS AND CHARACTERIZATION OF SOL-GEL DERIVED ORGANIC/INORGANIC MATERIALS	241
D. Berger et al.: COMPLEX PRECURSORS FOR DOPED LANTHANUM CHROMITES SYNTHESIS	242
P. Glogar et al.: SOL/GEL PROCESSING OF CERAMIC COATINGS ON CARBON-CARBON COMPOSITES	243
M. Inagaki et al.: DIRECT PRECIPITATION OF SPINEL TYPE OXIDES FROM AQUEOUS SOLUTIONS AT 90°C	244
J. Janek and M. Vannekamp: PLASMA-ELECTROCHEMICAL GROWTH OF ION-CONDUCTING THIN FILMS	245
K. Kitajima et al.: SYNTHESIS OF ALUMINA-PILLARED FLUORINE MICAS USING POLY(VINYL ALCOHOL) AS A TEMPLATE AND THEIR POROUS CHARACTERISTICS	246
T. Kollár et al.: INTERCALATION OF VARIOUS OXIDE SPECIES IN-BETWEEN LAPONITE LAYERS	247
Å. Kukovec et al.: SYNTHESIS, CHARACTERIZATION AND CATALYTIC APPLICATIONS OF SOL-GEL DERIVED ACIDIC SILICA FOAMS	248
A. Lebugle et al.: SYNTHESIS OF CALCIUM PHOSPHATES AND CALCIUM CARBONATES SIMILAR TO BIOLOGICAL CALCIFICATIONS IN SELF-ORGANIZED MOLECULAR SYSTEMS	249
N. I. Maliavski et al.: A NEW APPROACH TO SOL-GEL SYNTHESIS OF ORTHOSILICATES	250
N. Oberender and M. Fröba: SYNTHESIS OF MESOPOROUS GERMANIUM SULFIDES VIA MICROWAVE DIELECTRIC HEATING	251
N. Rezlescu and P. D. Popa: FINE FERRITE POWDERS OBTAINED BY SELF-COMBUSTION METHOD	252
C. Savii et al.: SILICATE GELS AND SONOGELS: COMPARATIVE STUDIES	252
M. K. Van Bael et al.: SYNTHESIS OF A WATER SOLUBLE TANTALUM PRECURSOR FOR AQUEOUS SOL-GEL CHEMISTRY	253
G. Vanhoyland et al.: HOW TO OBTAIN "HOMOGENEOUS" OXALATE PRECURSORS FOR CERAMIC MATERIALS?	253

K. Van Werde et al.: PHASE FORMATION OF FERROELECTRIC PEROVSKITE $(1-x)\text{Pb}(\text{Zn}_{1-x}\text{Nb}_{2x})\text{O}_3 - x\text{BaTiO}_3$ BY USE OF AQUEOUS SOL-GEL CHEMISTRY	254
M. S. Whittingham: SOFT CHEMISTRY SYNTHESIS OF VANADIUM AND MANGANESE OXIDE HOSTS FOR INTERCALATION REACTIONS	255
T. Yamaguchi et al.: PREPARATION AND PROPERTIES OF FLUORINE MICA-IRON (III) OXIDE COMPOSITES HAVING MESOPORES	256
M. Yoshimura et al.: ON SITE SYNTHESIS OF FUNCTIONAL DOUBLE OXIDE FILMS BY ELECTROCHEMICAL / HYDROTHERMAL METHODS AS A SOFT SOLUTION PROCESSING	257

Extended abstracts

H. Batis et al.: PHYSICO-CHEMICAL AND ACIDO-BASIC PROPERTIES OF SUPPORTED LaCrO_3 CATALYSTS	261
Y. Dimitriev et al.: GLASSES IN THE B_2O_3 - V_2O_5 SYSTEM OBTAINED BY FAST QUENCHING	269
Y. DIMITRIEV ET AL.: NON-ISOTHERMAL KINETICS OF CRYSTALLIZATION OF V_2O_5 - MOO_3 - Bi_2O_3 GLASSES	271
Y. Dimitriev et al.: GLASS-CRYSTALLINE MATERIALS IN THE SYSTEM P_2O_5 - CaO - ZnO - Ti	273
M. Drábik et al.: MDF MATERIALS; A SORT OF CHALLENGING CERAMICS OF NEW MILLENNIUM	275
L. Frangu et al.: WATER TYPES IDENTIFICATION IN COPRECIPIATED OXIDE POWDERS	281
M. Gálová et al.: ELECTROCHEMICAL PROCESSES DURING PLATING Fe POWDER PARTICLES BY Ni AND Ni/Cu COATING IN THE FLUIDIZED BED	283
B. HLAVÁČEK ET AL.: THE MUTUAL INTERDEPENDENCE OF PARTITIONS FUNCTIONS IN T_g VICINITY	285
L. Lakov et al.: PHASE EQUILIBRIUM IN THE SeO_2 - Bi_2O_3 SYSTEM	291
I. Lazău et al.: STUDY OF INTERACTIONS IN THE CaO - Al_2O_3 SYSTEM, STARTING FROM ORGANIC PRECURSORS	293
T. MITSUHASHI AND M. KAMEI: PROGRESS IN THE WETTABILITY CONTROL OF INORGANIC OXIDE SURFACES	297
V. Musat Bujoreanu et al.: CATIONS DISTRIBUTION AND MAGNETIC PROPERTIES OF MANGANESE FERRITE POWDER PREPARED BY COPRECIPIATION FROM MnO_2 AND $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$	299
A. Orliukas et al.: SYNTHESIS, STRUCTURE AND PECULIARITIES OF THE IONIC TRANSPORT OF $\text{Li}_3\text{Sc}_{2(1-x)-0.05}\text{Y}_{0.05}\text{Fe}_{2x}(\text{PO}_4)_3$ (WHERE $x = 0.1 - 0.6$)	301
C. Păcurariu et al.: CORRELATION BETWEEN THE COLOR, THE STRUCTURE AND THE ELECTRONIC SPECTRA OF SOME COBALT COMPOUNDS	307
M. V. Patrakeev et al.: ELECTRICAL CHARACTERIZATION OF THE INTERGROWTH FERRITE $\text{Sr}_4\text{Fe}_6\text{O}_{13-d}$	311
M. V. Patrakeev et al.: THE OXYGEN THERMODYNAMICS AND ION TRANSPORT IN THE SOLID SOLUTION $\text{La}_{1-x}\text{Sr}_x\text{CoO}_{3-d}$ AT LARGE STRONTIUM CONTENT	317
T. Sato: HOW TO DECREASE THE CRYSTALLIZATION TEMPERATURE DURING PREPREPARATION OF BORON NITRIDE TO SAVE ENERGY	325
T. WÄGNER ET AL.: THE TAILORING OF THE COMPOSITION OF AG-AS-SE AMORPHOUS FILMS USING OPTICALLY-INDUCED SOLID STATE REACTION	327
V. Balek et al.: HAZARDOUS VOLATILES AND SOLID RESIDUES FORMED DURING THERMAL DEGRADATION OF TRANSITION METAL COMPLEX COMPOUNDS	333
S. Prugovecki: MATERIAL CHARACTERIZATION SOLUTIONS BY PHILIPS ANALYTICAL	334

Author index

337