



ELSEVIER

Defects and Charge Compensation in CdSiO <sub>3</sub> : A DFT and Synchrotron Study H.F. Brito, M.C.F.C. Felinto, J. Hölsä, T. Laamanen, M. Lastusaari, P. Novák, L.A.O. Nunes, L.C.V. Rodrigues	1
Modeling of Emission Spectra for Molecular Rings - LH2 And LH4 Complexes M. Horák, P. Heřman, D. Zapletal	10
Azobenzene Containing Low-Molecular Weight Organic Glasses for Optical Recording J. Aleksejeva, J. Teteris, A. Tokmakovs	19
Understanding the Mechanism of Superionic Transport from Trends of Materials Properties M. Aniya	25
Tl <sup>+</sup> Ion Conducting Glasses in the Tl-Ge-S System M. Bokova, I. Alekseev, E. Bychkov	35
Photo-Induced Mass Transport in Thin Films of Amorphous As <sub>2</sub> S <sub>3</sub> U. Gertners, J. Teteris	45
The Glassy State as the Lawfully Disarranged State. Vibration Uncertainty and Chaos-Like Movements B. Hlaváček, Č. Drašar, A. Kalendová, P. Menc, J. Šesták, D. Veselý	52
Arrhenian and Non-Arrhenian Temperature Dependent Relaxation Time Development in the Solid-Liquid Transition Area of Amorphous Bodies B. Hlaváček, Č. Drašar, A. Kalendová, P. Menc, D. Veselý	60
Optical Properties of Thermally Evaporated (As <sub>2</sub> Se <sub>3</sub> ) <sub>100-x</sub> Ag <sub>x</sub> Thin Films V. Ilcheva, P. Petkov, V. Boev, T. Petkovab	67
Wavelength Dependence of Photostructural Transformations in As <sub>2</sub> S <sub>3</sub> Thin Films A. Kovalskiy, M. Vlcek, K. Palka, R. Golovchak, H. Jain	75
Structural Changes in Doped Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> Thin Films Studied by Raman Spectroscopy S. Kozyukhin, M. Veres, H.P. Nguyen, A. Ingram, V. Kudoyarova	82
Spectroscopic Detection of Medium Range Order in Hydrogenated Amorphous Silicon, a-Si(H): Applications in Photovoltaics, Thin Film Transistors and Si-based Microelectronics G. Lucovsky, G. Parsons, D. Zeller, K. Wu, B. Papas, J. Whitten, R. Lujan, R.A. Street	91
Non-Crystalline SiO <sub>2</sub> : Processing Induced Pre-Existing Defects Associated with Vacated O-atom Intrinsic Bonding Sites G. Lucovsky, J. Kim, K. Wu, D. Zeller, B. Papas, J.L. Whitten	99
Optical Behavior of (GeS <sub>1.5</sub> ) <sub>1-x</sub> (AgI) <sub>x</sub> Glasses B. Monchev, T. Petkova, P. Petkov, V. Ilcheva	108
Study of As <sub>50</sub> Se <sub>50</sub> Thin Film Dissolution Kinetics in Amine based Solutions K. Pálka, M. Vlček, A. Kovalskiy	114
Preparation and Characterization of Thin Conductive Polymer Films on the base of PEDOT:PSS by Ink-Jet Printing N. Perinka, C.H. Kim, M. Kaplanova, Y. Bonnassieux	120
Compositional Dependence of the Optical Properties of Vacuum Evaporated Thin GeSe <sub>2</sub> -GeTe-PbTe Films K. Petkov, J. Tasseva, V. Vassilev, L. Aljihmani	130
Photo- and Thermo-Induced Changes in Optical Constants and Structure of Thin Films from GeSe <sub>2</sub> -GeTe-ZnTe System K. Petkov, R. Todorov, V. Vassilev, L. Aljihmani	142
Optical Field-Induced Mass Transport in Soft Materials J. Teteris, M. Reinfelde, J. Aleksejeva, U. Gertners	151
Structure of SnF <sub>2</sub> -SnO-P <sub>2</sub> O <sub>5</sub> Glasses J. York-Winegar, T. Harper, C. Brennan, J. Oelgoetz, A. Kovalskiy	159
Complex Phosphates, Containing Elements with Oxidation Degrees +1 and +4 V.I. Pet'kov, E.A. Asabina	166
Tridymite Type Phosphates of Cesium and Divalent Metals: Synthesis and Characterization of Powder and Ceramic Samples V.I. Pet'kov, I.V. Korchemkin, E.A. Asabina, V.N. Chuvil'deev, M.S. Boldin	177
Anticorrosion Properties of Pigments based on Ferrite Coated Zinc Particles P. Benda, A. Kalendová	185
Possibility of VO <sub>x</sub> /SiO <sub>2</sub> Complexes Speciation: Comparative Multi-wavelength Raman and DR UV-vis Study R. Bulánek, P. Čičmanec, M. Setnička	195
Atmospheric-Pressure Microwave Torch Discharge Generated γ-Fe <sub>2</sub> O <sub>3</sub> Nanopowder B. David, O. Schneeweiss, N. Pizúrová, Šantavá, V. Kudrle, P. Synek, O. Jašek	206
Mixed Metal Oxides with the Structure of Perovskite for Anticorrosion Organic Coatings M. Kantorová, D. Veselý	213
Elaboration of Luminescent Materials on the Basis of Phosphates of NaZr <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> -type for Research of Living Systems A.E. Kanunov, E.N. Gorshkova, A.I. Orlova, A.N. Shushunov, E.R. Mikheeva, S.N. Pleskova	224

The Catalytic Behaviour of nanoAg@montmorillonite Composite Materials	
M. Karlíková, L. Kvítek, R. Pucek, A. Panáček, J. Filip, J. Pechoušek, N.F. Adegboyega .....	231
Non-toxic Anticorrosive Pigments Intended for Applications in High-solids and Waterborne Paints	
H. Kukackova, A. Vraštilová, A. Kalendova .....	238
Properties of Organic Coatings with Nonisometric Ferrite Particles	
M. Ulbrich, A. Kalendová .....	247
Oxidized Cellulose with Different Carboxyl Content: Structure and Properties before and after Beating	
H. Vendula, M. Miloslav .....	256
Composite Fillers and their Influence on Emissivity	
M. Mauer, P. Kalenda, M. Honner, P. Vacíková .....	262