

## CONTENTS

<b>Preface .....</b>	<b>A4</b>
<b>Magnetic Properties of LiNbO<sub>3</sub> Single Crystals Weakly Doped by Yb and/or Codoped by Pr .....</b>	<b>1</b>
T. Bodziony, S. M. Kaczmarek and R. Kruk	
<b>Propagation Technique for Ultrashort Pulses .....</b>	<b>8</b>
Cao Long Van	
<b>Mathematical Modeling Diffusion of Decaying Particles in Regular Structures .....</b>	<b>21</b>
Y. Chaplya and O. Chernukha	
<b>UV-Initiated Crosslinking of Acrylic Pressure-Sensitive Adhesives Using Ultraviolet Excimer-Laser .....</b>	<b>32</b>
Z. Czech and A. Butwin	
<b>The Dynamics of 5CB Mesogene Molecules between Graphite Walls - an MD Study .....</b>	<b>37</b>
A. Dawid and W. Gwizdała	
<b>Confinement Size Effect in Dipolar Relaxation of Glycerol Molecules Cluster Encapsulated Inside Carbon Nanotubes - Computer Simulation Study .....</b>	<b>42</b>
Z. Dendzik, K. Górny, M. Kośmider and S. Żurek	
<b>Synthesis and Transport Properties of Porous Superconducting Ceramics of YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub> .....</b>	<b>52</b>
P. Fiertek, B. Andrzejewski and W. Sadowski	
<b>EPR and IR Investigations of Some Chromium (III) Phosphate (V) Compounds .....</b>	<b>57</b>
H. Fuks, S.M. Kaczmarek and M. Bosacka	
<b>Influence of Carbon Nanotube on Cholesterol Lodgment: Molecular Dynamics Simulation .....</b>	<b>64</b>
Z. Gburski and P. Raczyński	
<b>FMR Study of <math>\gamma</math>-Fe<sub>2</sub>O<sub>3</sub> Agglomerated Nanoparticles in Glue .....</b>	<b>70</b>
N. Guskos, G. Zolnierkiewicz, J. Typek, M. Orłowski, A. Guskos, Z. Czech and A. Mickiewicz	
<b>Photoacoustic Response of Sea Urchin Tissue .....</b>	<b>76</b>
N. Guskos, G. P. Papadopoulos, J. Majszczyk, J. Typek, J. Rybicki, A. Guskos, I. Kruk, K. Aidinis and G. Zolnierkiewicz	
<b>Ferroelectric Properties of Relaxor Type SBN Single Crystals Pure and Doped with Cr, Ni, and Ce .....</b>	<b>80</b>
S.M. Kaczmarek, M. Orłowski, T. Skibiński, A. Jasik and L.I. Ivleva	
<b>Reactivity in Solid State between CdWO<sub>4</sub> and RE<sub>2</sub>WO<sub>6</sub> (RE=Y, Nd, Sm, Eu, Gd, Dy, Ho, Er, and Lu) .....</b>	<b>88</b>
E. Tomaszewicz and S.M. Kaczmarek	
<b>Relative Intensities of f-f Transitions of Erbium(III) Ion Studied by Photoacoustic Spectroscopy .....</b>	<b>97</b>
N. Guskos, J. Majszczyk, J. Typek, G. Zolnierkiewicz, E. Tomaszewicz and K. Aidinis	
<b>Structure Changes in In<sub>20.49</sub>Ga<sub>66.96</sub>Sn<sub>12.55</sub> Eutectic Melt upon Alloying with Ni .....</b>	<b>102</b>
S. Mudry and I. Shtablavyi	
<b>Electrical and Thermal Properties of Nanowires in Quantum Regime .....</b>	<b>107</b>
W. Nawrocki	
<b>Ferromagnetic Resonance and Compressive Strength Study of Cement Mortars Containing Carbon Encapsulated Nickel and Iron Nanoparticles .....</b>	<b>113</b>
N. Guskos, G. Zolnierkiewicz, J. Typek, J. Blyszko, W. Kiernozycki and U. Narkiewicz	