

CONTENTS

Atoms and Molecules

- G. GAIGALAS, P. RYNKUN, and L. KITOVIENĖ.** Second order Rayleigh–Schrödinger perturbation theory for the GRASP2018 package: Core–core correlations..... 139

Mathematical and Computational Physics

- J. VAIČAIYTĖ, L. VALKUNAS, and A. GELZINIS.** Application of the frozen-modes approximation to classical harmonic oscillator systems..... 162

Condensed Matter Physics and Technology

- A. GAPONOV.** Effect of CaCO_3 , SrCO_3 and BaCO_3 additions on the microstructure and electrical characteristics of SnO_2 -based varistor ceramics..... 177

Environmental Physics

- D. PASHNEVA, A. MINDERYTĖ, L. DAVULIENĖ, V. DUODITIS, and S. BYČENKIENĖ.** Variations of black carbon, particulate matter and nitrogen oxides mass concentrations in urban environment with respect to winter heating period and meteorological conditions 189

Interdisciplinary Physics

- K. STRAVINSKAS, A. SHAHIDI, O. KAPUSTYNSKYI, T. MATIJOŠIUS, N. VISHNIAKOV, and G. MORDAS.** Characterization of SLA-printed ceramic composites for dental restorations..... 203