Contents

Atomic, Molecular & Chemical Physics

Jiao-Nan Yuan, Hai-Chao Ren, Yong-Kai Wei, Wei-Sen Xu, Guang-Fu Ji and Dong-Qing Wei
The Reaction and Microscopic Electron Properties from Dynamic Evolutions of Condensed-Phase RDX Under Shock Loading — 285

Taiming Luo, Jianwei Wei, Xiaozhan Yang, Daoyuan Wang and Wenlin Feng
Trace Hydrogen Sulphide Gas Sensor Based on Cu/rGO Membrane-Coated Photonic Crystal Fibre Michelson Interferometer — 293

Dynamical Systems & Nonlinear Phenomena

Sanjay Kumar Pandey and Jagdish Prasad Maurya
A General Viscous Model for Some Aspects of Tropical Cyclonic Winds — 301

A. Zabihi, R. Ansari, K. Hosseini, F. Samadani and J. Torabi
Nonlinear Pull-in Instability of Rectangular Nanoplates Based on the Positive and Negative Second-Order Strain Gradient Theories with Various Edge Supports — 317

Hydrodynamics

Igor Pažanin and Marko Radulović
On the Heat Flow Through a Porous Tube Filled with Incompressible Viscous Fluid — 333

S. Dholey
Effect of Magnetic Field on the Unsteady Boundary Layer Flows Induced by an Impulsive Motion of a Plane Surface — 343

Solid State Physics & Materials Science

K. Vini and K. M. Nissamudeen
Facile Combustion Synthesis of (Y,Pr)2O3 Red Phosphor: Study of Luminescence Dependence on Dopant Concentration and Enhancement by the Effect of Co-dopant — 357

Sudhanshu Tripathi, Rekha Agarwal and Devraj Singh
Size-Dependent Ultrasonic and Thermophysical Properties of Indium Phosphide Nanowires — 373