

CONTENTS

Original Articles

1. **Nguyen Van Thanh**, Nonlinear Static Stability of Stiffened Nanocomposite Plates Subjected Various Types of Loads 1
2. **Hoang Dinh Long, Nguyen Ngoc Hieu, Chau Thi Thao Trang, Le Thi Thu Phuong**, Effect of Electron – Phonon Interaction on the Magneto-optical Absorption in Monolayer Phosphorene 25
3. **Pham Dinh Khang, Luong Le Hai, Nguyen Thi Tham Hong, Vu Van Tuan**, Study on Gas Adsorption Properties (N_2 , H_2 , O_2 , NO , NO_2 , CO , CO_2 , SO_2 , H_2S , H_2O and NH_3) on the O-vacancy-containing Sc_2CO_2 Monolayer 32
4. **Vu Dinh Khoe, Pham Minh Vuong, Nguyen Van Thanh, Tran Quoc Quan, Nguyen Dinh Duc**, Nonlinear Vibration of Nanocomposite Multilayer Perovskite Solar Cell in Thermal Environment 44
5. **Dao Viet Thang, Nguyen Manh Hung, Nguyen Phuong Thao, Nguyen Cao Khang, Le Thi Mai Oanh, Ngo Thi Cam Linh, Bui Dinh Tu**, Effect of Eu Doping on Structural, Optical and Magnetic Properties of $BiFeO_3$ Materials 58
6. **Dang Thanh Hai, Vu Van Hung, Pham Ngoc Thu, Lo Ngoc Dung, Le Thi Thanh Huong, Hoang Thi Minh Anh, Le Thu Lam**, Structural and electrical properties of Samarium-doped Ceria electrolyte 65
7. **Nguyen Dang Co, Tran Duc Huy, Bui Thi Thu Thuy, Nguyen Thi Luong, Dong Quoc Viet, Le Viet Cuong, Dang Duc Dung, Ngo Duc Quan, Tran Mau Danh, Pham Duc Thang, Bui Dinh Tu**, Characterization and Microwave Absorption Properties of Lead-Free $Bi_{0.5}(Na_{0.80}K_{0.20})_{0.5}TiO_3$ Synthesized by Sol-Gel Method 76
8. **Nguyen Huu Nha, Phan Van Nham**, Ferromagnetic-antiferromagnetic Competition in Diluted Magnetic Semiconductors 88
9. **Chu Thoi Nam, Le Tran Quang Linh, Donny Hartanto, Tran Hoai Nam, Nguyen Kien Cuong, Thanh Mai Vu**, Sensitivity and Uncertainty Analysis on Reactivity for HEU and LEU Fuel Assemblies of Dalat Nuclear Research Reactor using Monte Carlo Code and ENDF/B-VII.0 and ENDF/B-VII.1 Nuclear Libraries 97
10. **Nguyen Thi Thanh Lan, Chu Manh Hoang**, Fabrication and Characteristics of Silica Nanoparticle Monolayer Assembled by Spin Coating 111