

CONTENTS

Original Articles

1. **Tran Tien Dung, Pham The An, Tran Ba Duong, Nguyen Khac Man, Nguyen Thi Minh Hien, Tran Hai Duc**, Excess Conductivity Analyses in Bi-Pb-Sr-Ca-Cu-O Systems Sintered at Different Temperatures 1
2. **Nguyen Dinh Lam**, Influences of ZnO Nanorod Arrays on Photocatalytic Activity of n-ZnO Nanorods/p-Si Heterostructure 11
3. **Nguyen Van Toan, Pham Van Nhat, Ta Van Duong**, Fabricating Microsphere Lasers by Protein Dehydration: A Fast Fabrication Method and Excellent Lasing Properties 27
4. **Bui Thi Hoa, Nguyen The Nghia, Vi Ho Phong, Tran The Anh**, Evaluation of Thick Target PIXE Analysis in the SSDH-2 Pelletron Accelerator Facility at VNU University of Science 24
5. **Mai Thi Lan, Nguyen Thu Nhan, Nguyen Thi Thao, Pham Tri Dung, A** Simulation Study of the Amorphous Germania Structure up to 70 GPa 31
6. **Luong Hoai Nhan, Nguyen Huu Khoa, Lai Thi Ngoc Huyen, Huynh Hung Quang, Dinh Tan Muon, Nguyen Ngoc Phuong, Tran Cong Khanh, Phan Bach Thang, Dang Vinh Quang**, Enhanced Photocatalytic Activity Using Near Visible Light of ZnO Nanorods by Doping with Mn²⁺ Ions 38
7. **Hoang Ngoc Long, Vo Van Vien, Vu Hoa Binh**, Effective Couplings between Two Photons and Axion in the 3-3-1 Model 51
8. **Luong Van Tung, Nguyen Quang Bau, Tran Ngoc Bich, Pham Tuan Vinh, Huynh Vinh Phuc**, Linear and Nonlinear Magneto-optical Absorption Coefficients and Refractive Index Changes in WSe₂ Monolayer 59
9. **Tran Quang Huy, Pham Thi Thu Ha, Tran Binh Duong, Nguyen Quang Vinh, Nguyen Thi Hoang Yen, Tran Duc Tan**, 2D Shear Wave Imaging in Gaussian Noise and Reflection Media 68
10. **Le Huu Trinh, Nguyen Duc Cuong, Do Dang Trung, Nguyen Van Hieu**, Synthesis and Characterization of Hierarchical CeO₂ Spherical Nanoparticles for Photocatalytic Degradation of Methylene Blue 76
11. **Le Thi Ngoc Loan, Le Thi Thanh Hiep, Hoang Thi Hang, Le Xuan Hung**, Ag Decorated TiO₂ Nanofibers for Surface-enhanced Raman Scattering 86
12. **Duong Tuan Manh**, Normal Impact of A Rigid Cone-shaped against A Viscoelastic Plate on Viscoelastic Foundation 95
13. **Pham Hong Cong, Vu Dinh Trung, Do Duc Hai, Nguyen Dinh Khoa**, Free Vibration and Bending of Gradient Auxetic Plate Using Finite Element Method 102