VNU JOURNAL OF SCIENCE

Mathematics – Physics Vol. 36, No. 3, 2020

CONTENTS

Review Articles

1.	Trinh Nhu Quynh, Tran Manh Cuong, Maximal Inequalities for Fractional Brownian Motion with Variable Drift	1
Original Articles		
2.	Le Anh Tuan, \mathcal{H}_{∞} Finite-time Boundedness for Discrete-time Delay Neural Networks via Reciprocally Convex Approach	10
3.	Nguyen Hong Son, Ninh Thi Thu, A Comparison Theorem for Stability of Linear Stochastic Implicit Difference Equations of Index-1	24
4.	Vo Van Thuan, Dao Dinh Duc, Quantum Statistics in Cylindrical Time-evolution of Electrons and Physical Reality	32
5.	Cao Thi Vi Ba, Nguyen Thi Lam Quynh, Nguyen Quang Bau, The Ettingshausen Effect in Doped Semiconductor Superlattice under the Influence of Confined Optical Phonon	39
6.	Nguyen Xuan Ca, Nguyen Thi Hien, Phonon Characterization, Structural and Optical Properties of Type-II CdSe/CdTe core/shell and Type-II/type-I CdSe/CdTe/ZnS core/shell/shell Quantum Dots	47
7.	Vu Thu Hien, Nguyen Thi Minh Phuong, Microstructure and Electrical Properties of Low-temperature Solution-processed Sol-gel KNN Thin Films	58
8.	Nguyen The Binh, Nguyen Quang Dong, Fabrication of SERS Substrates Using Au Nanoparticles Prepared by Laser Ablation in Distilled Water and Detection of Tetracycline at Low Concentrations	66
9.	Tran Van Quang, Electronic Thermal Conductivity and Thermoelectric Performance of n-type PbBi ₄ Te ₇	74
10.	Ba Phi Nguyen, Huu Dinh Dang, Wave Propagation and Localization in a Complex Random Potential with Power-law Correlations: A Numerical Study	81
11.	Vo Van On, Pham Trong Lam, Dinh Van An, Absorption of Isopropanol on Surface of Defect Silicene	92
12.	Vuong Van Hiep, Do Thi Kim Anh, Ngac An Bang, Sai Cong Doanh, Nguyen Duy Thien, Huynh Dang Chinh, Pham Duc Hanh, The Effect of Residual La on Crystal Structure and Magnetic Properties of $La_{1+\delta}Fe_{11.05}Si_{1.95}$ Compounds	100
13.	Luan Thanh Pham, A Comparative Study on Two Different Methods for Calculating Gravity Effect of an Uneven Layer: Application to Computation of Bouguer Gravity Anomaly in the East Vietnam Sea and Adjacent Areas	106