

International Journal of Applied Physics and Mathematics (IJAPM)

CONTENTS

Volume 3, Number 1, January 2013

- Study of Liquid Lead Corrosion of Fast Nuclear Reactor and Its Mitigation by Using Molecular Dynamics Method.....1
Artoto Arkundato, Zaki Su'ud, Mikrajuddin Abdullah, and Widayani Sutrisno
- Contingent Claim Pricing Using the Cauchy Probability Distortion Operator under Simple Transformation.....8
Bright O. Osu and Godswill U. Achi
- The Quantum Hall Effect: Helicity, Graphite and Graphene.....14
Keshav N. Shrivastava
- Locally Adaptive Bilateral Clustering for Image Denoising and Sharpness Enhancement.....23
Barjinder Singh Saini, Ravi Raj, and Indu Saini
- Cloud Classification for Weather Information by Artificial Neural Network.....28
Sanju Kuril, Indu Saini, and B. S. Saini
- Research on Wavelet Energy Entropy and Its Application to Harmonic Detection in Power System.....31
Na Wu and Yong-Qin Wei
- Relative Transformation of Matter Motion Based on the Arbitrary Wave Velocity.....34
Shuming Wen
- Interference and Diffraction – A New Theory.....38
Bayyrapu Prasada Rao
- Photocurrent Enhancement of P-Cu₂O Thin Film Achieved by Thermal Annealing.....43
Yu-Kuei Hsu and Hung-Hsun Lin
- Different Efficiency Mechanisms Inside Normal Operation, Q-Switched and Amplified Nd: YAG Pulsed Laser.....46
Osama Helal, Liu Ziyu, Tan Yong, Ding Yunfeng, and Hongxing Cai
- Design Development of Lightweight Disc Brake for Regenerative Braking – Finite Element Analysis.....52
S. Sarip
- Function of the CaMK II on LTP of Exercise Learning.....59
Xiyan Xie, Dan Xu, Shun Li, Yanfen Chen, and Lijuan Hou
- Performance Analysis of Impurity Photovoltaic Effect in Solar Cells.....63
Md. Shahriar Parvez Khan and Esmat Farzana
- Molecular Dynamics Simulations of Influence of Surface Temperature on Fluorine Etching of Silicon.....66
Jianwei Wang, Yixu Song, Xiaodi Deng, Jinchun Li, and Tianling Ren

Effects of DC Discharge Type on Plasma Collisional Absorption of Electromagnetic-Wave.....	70
<i>Runhui Wu, Shengjun Zhang, Jiaqi Liu, Aimin Ren, Gang Meng, and Hongyan Liu</i>	
Characteristic Analysis of Flying Process of Dispensed Object with Deceleration Parachute.....	75
<i>Tao Ru-Yi, Wang Shuai, Wang Shan-Shan, and Sun Ji-Bing</i>	
Function of Substance P and Substance P Receptor in Exercise.....	78
<i>Dan Xu, Xiyang Xie, Shun Li, Jimin Zhang, and Lijuan Hou</i>	
P Effectiveness of Simulation and Computer Assisted Instruction (CAI) on the Performance of Students under Regimental Training on Selected Topics in Physics II.....	82
<i>Jose M. Barlis Jr. and Josefin D. Fajardo III</i>	