

Article ID	
A new perspective of ground band energy formulae .....	J B Gupta
Raising and lowering operators for quantum billiards.....	Ayush Kumar Mandwal and Sudhir R Jain
Electrical characteristics for capacitively coupled radio frequency discharges of helium and neon .....	Murat Tanişli, Neslihan Şahin and Süleyman Demir
Graphene-based tunable terahertz filter with rectangular ring resonator containing double narrow gaps .....	Wei Su and Bingyan Chen
Model-free adaptive sliding mode controller design for generalized projective synchronization of the fractional-order chaotic system via radial basis function neural networks.....	L M Wang
Sensitivity of reactor multiplication factor to positions of cross-section resonances .....	V Gopalakrishnan and K R Vijayaraghavan
Spatiotemporal soliton clusters in the (3+1)-dimensional nonlinear Schrödinger equation with spatially modulated nonlinearity .....	Hong-Yu Wu and Li-Hong Jiang
A scheme for designing extreme multistable discrete dynamical systems .....	Priyanka Chakraborty
Gamma dosimetric parameters in some skeletal muscle relaxants .....	H C Manjunatha
Matter density distributions and elastic form factors of some two-neutron halo nuclei.....	Ahmed N Abdullah
New exact models for anisotropic matter with electric field .....	Jefta M Sunzu and Petro Danford
An efficient algorithm for computation of solitary wave solutions to nonlinear differential equations .....	Kamran Ayub, M Yaqub Khan, Qazi Mahmood-Ul-Hassan and Jamshad Ahmad
A novel fractional sliding mode control configuration for synchronizing disturbed fractional-order chaotic systems .....	Karima Rabah, Samir Ladaci and Mohamed Lashab
Impact of optical gain broadening on characteristics of response function in the presence and absence of tunnelling injection for quantum dot semiconductor lasers .....	Yasin Yekta Kia and Esfandiar Rajaei

(Continued on inside back cover)

Indexed in CURRENT CONTENTS ISSN 0304-4289

Edited and published by Amitabh Joshi  
 for the Indian Academy of Sciences, Bengaluru 560 080  
 Printed at Tholasi Prints India Pvt. Ltd., Bengaluru

Registered with Registrar of Newspapers in India, Vide Regn No. 24935/73  
 Regn. No. KRNA/BGE/337/2015–2017, published on 10/09/2017  
 Licensed to Post without prepayment No. 49  
 Posted at Bengaluru PSO, Mysore Road, Bengaluru 560026 16/09/2017,  
 permitted to post on 22/9/2017.