



Research Papers

First-principles calculations for point defects in MAX phases Ti_2AlN

Yaowen Zhang, Shutong Yang, Canglong Wang

1650101

Understanding the effect of vacancy defects on spin transport in CrO_2 -graphene- CrO_2 magnetic tunnel junction

Sudhanshu Choudhary, Divya Kaushik

1650102

Nonautonomous solitons in terms of the double Wronskian determinant for a variable-coefficient Gross-Pitaevskii equation in the Bose-Einstein condensate

Chuan-Qi Su, Yi-Tian Gao, Qi-Min Wang, Jin-Wei Yang, Da-Wei Zuo

1650103

Interfacial potential approach for Ag/Si(111) interface

Yong-Qiang Liu, Hong-Quan Song, Jiang Shen

1650104

Ground states of a mixture of pseudospin-1/2 Bose gases with interspecies spin exchange

Rukuan Wu, Yu Shi

1650131

Site preferences and effects of X (X = Mn, Fe, Co, Cu) on the properties of NiAl: A first-principles study

Hongshan Li, Yong Cao, Shenggang Zhou, Peixian Zhu, Jingchuan Zhu

1650133

Foraging efficiency of a predator flock for randomly moving prey: A simulation study

Sang-Hee Lee, Ohsung Kwon

1650135

Enhancing micro-electromechanical and tuning optical properties in Nd-doped BIT thin film

Yunjie Zhang, Changle Chen, Jing Wang, Bingcheng Luo, Mengmeng Duan, Kexin Jin

1650145

The study of ultrasonic irradiation effects on solid state powders of HTc superconductor $YBa_2Cu_3O_{7-x}$

Mahboubeh Kargar, Bahram Khoshnevisan

1650148

How to control the coherent oscillations in Landau–Zener–Stueckelberg dynamics of three-level system

Xiao-Ke Qin

1650149

Photoconductivity in nanostructured sulfur-doped V₂O₅ thin films

M. Mousavi, Sh. Tabatabai Yazdi

1650151

Surface plasmon polaritons one-way mode converter based on parity-time symmetry broken system

Xiang-an Yan, Hanchen Liu, Changjun Zhu

1650154

Nonlinear dynamic analysis of periodic ferroresonance based on a novel hysteresis approach

Mi Zou, Wen-Xia Sima, Ming Yang, Qing Yang, Licheng Li, Jianbiao Li

1650164

A new explicit solution to the lattice sine-Gordon equation

Xiaoxue Xu, Cewen Cao

1650166

A novel diversiform stochastic resonance of a domain wall and its performance at different states

Haibin Zhang, Kesai Ouyang, Qingbo He, Fanrang Kong

1650167