



## **Research Papers**

### **Asymptotic average shadowing property, almost specification property and distributional chaos**

*Lidong Wang, Xiang Wang, Fengchun Lei, Heng Liu*

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### **First-principles study of structural, electronic, elastic and phonon properties of $AB_2O_4$ (A=Ge, Si; B=Mg, Zn, Cd) spinel oxides**

*Abdullah Candan, Gökay Uğur*

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### **WKB method for potentials unbounded from below**

*Aleksandar Demić, Vitomir Milanović, Jelena Radovanović, Milenko Musić*

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### **The gas-sensing and structure properties of Fe-doped $In_2O_3$ nanotubes by electrospinning technique**

*Jing Zhou, Hongzhi Shen, Guanlin Feng, Dapeng Xu*

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### **Classical thermodynamics from quasi-probabilities**

*F. Pennini, A. Plastino, M. C. Rocca*

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### **The first principle study of electronic and optical properties in rhombohedral $BiAlO_3$**

*Geoffrey Tse, Dapeng Yu*

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### **Direct band gap nature and optical response of $Be_xMg_yZn_{1-(x+y)}Se$**

*Naeemullah, G. Murtaza, R. Khenata, S. Bin Omran*

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### **Solitons, Bäcklund transformations, Lax pair and conservation laws for the nonautonomous mKdV–sinh-Gordon equation with time-dependent coefficients**

*Lei Liu, Bo Tian, Wen-Rong Sun, Yu-Feng Wang, Yun-Po Wang*

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### **Polarization and sizes variation immune optical absorbers**

*Li Zhang, Yongqi Fu, Weixing Yu*

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**Tunable and switchable resonance in optically-controlled nested metamaterials at terahertz frequencies**

*Yong-Li Che, Xiao-Long Cao, Jian-Quan Yao*

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**Theoretical study on mechanical properties of polyethylene–SWCNT complexes**

*Igor K. Petrushenko*

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**Magic numbers and persistent current oscillations in electron–hole quantum dots**

*Aleksandr A. Vasilchenko, Demid M. Tolkachev*

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