



## **Brief Review**

### **Gauging quantum groups: Yang–Baxter joining Yang–Mills**

*Yong-Shi Wu*

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## **Research Papers**

### **Modeling and performance analysis of the fractional order quadratic Boost converter in discontinuous conduction mode-discontinuous conduction mode**

*Cheng Tan, Zhi-Shan Liang*

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### **Investigation on a field description of the chirped laser pulse**

*H. Y. Chen, S. J. Huang, Q. Song, P. X. Wang*

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### **Effects of processing parameters on the extrusion by continuous variable cross-section direct extrusion with 7A09 aluminium alloy**

*Feng Li, Hongbin Wu, Minghan Qin*

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### **Effect of electric field on Fe<sub>2</sub>O<sub>3</sub> nanowire growth during thermal oxidation**

*Chunwang Zhao, Yannan Xue, Yongjun Jin*

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### **Polarization squeezing in degenerate parametric amplification of coherent light**

*Namrata Shukla, Ranjana Prakash*

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### **Effect of cerium substitution on structural and impedance properties of 0.8Ba0.2(Bi<sub>0.5</sub>K<sub>0.5</sub>)TiO<sub>3</sub> lead free ceramic system**

*M. N. V. Ramesh, K. V. Ramesh*

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### **Theoretical calculation of cathodoluminescence: Influence of surface and bulk parameters on the depletion region of p-type CdTe**

*D. Kenieche, K. Guergouri*

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### **Tripod and Lambda configurations in simulation of gauge potentials for ultracold atoms**

*Ming-Yong Ye, Xiu-Min Lin*

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**Shape evolution of a spherical particle growing in supersaturated solution affected by straining flows**

*Jingjing Gao, Mingwen Chen, Zidong Wang*

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**Study of the angular distribution of W-L X-ray intensity ratios in photoionization**

*Xing Wang, Zhongfeng Xu, Limin Zhang*

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**Complete Greenberger–Horne–Zeilinger state analyzer using hyper-entanglement**

*Jia-Ming Wang, Meng-Zheng Zhu, Liu Ye*

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**Interconnection of defect entropies and enthalpies in BaF<sub>2</sub> revisited**

*Efthimios S. Skordas*

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**High-speed electro-optic switch using buried electrode structure in polymer Mach–Zehnder waveguide**

*Jingwen Sun, Jian Sun, Yunji Yi, Lucheng Qv, Shiqi Sun, Fei Wang, Xibin*

*Wang, Daming Zhang*

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**Surface structure for efficiently coupling into photonic crystal slab waveguides with a triangular lattice of air holes**

*Zhen Huang, Tianbao Yu, Tongbiao Wang, Nianhua Liu*

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**The numerical investigation of magnetic properties of single domain MnP:GaP nanoparticles**

*Adeleh Mokhles Gerami, Mehdi Vaez-Zadeh*

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**Structural, morphological, and optoelectrical characterization of Bi<sub>2</sub>S<sub>3</sub> thin films grown by co-evaporation**

*F. Mesa, C. A. Arredondo, W. Vallejo*

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**A class of nonlinear heat-type equations and their multi-wave solutions by a generalized bilinear technique**

*Jun-Rong Liu*

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**Network-based H<sub>∞</sub> synchronization control of time-delay neural networks with communication constraints**

*Hui Dong, Rongyao Ling, Dan Zhang*

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**Encapsulated grating for three-port beam splitter in reflection**

*Wenhao Shu, Bo Wang, Hongtao Li, Liang Lei, Li Chen, Jinyun Zhou*

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