

TABLE OF CONTENTS

目 录

Research on the Mechanism and Control Method of Hollow Conical Light in Biaxial Crystal
(双轴晶体产生空心圆锥形光的研究)

X. Y. ZHENG, G. C. SONG.....177

Magnetic Properties of Low Temperature Nanoring
(低温纳米环磁特性研究)

X. Y. ZHANG, Y. J. WANG, Q. Y. HUANG, J. Y. LIU, W. X. WANG, Q. Y. YE.....186

Synthesis and Magnetocaloric Properties of Gas-Atomized $(\text{Mn}, \text{Fe})_2(\text{P}, \text{Si}, \text{B})$ Spherical Powders for 3D Printing Applications
(3D 打印用 $(\text{Mn}, \text{Fe})_2(\text{P}, \text{Si}, \text{B})$ 球形粉的制备及磁热性能研究)

Y. L. ZHANG, X. Y. WANG, C. Y. CHEN, W. Y. WANG, S. Y. HU, G. Z. XU, X. F. MIAO, F. XU.....191

Application of Flexible $\text{Pb}(\text{Zr}_{0.53}\text{Ti}_{0.47})\text{O}_3$ Thin Film in Passive Structure Health Monitoring
(柔性 $\text{Pb}(\text{Zr}_{0.53}\text{Ti}_{0.47})\text{O}_3$ 薄膜在被动结构健康监测方面的应用)

X. N. SHI, D. N. SHI, H. YANG.....198

Statistical Explanation of the Negative Thermodynamic Temperature and the Thermodynamics at Negative Temperature
(负热力学温度的统计解释和负温度热力学)

K. D. BAO.....205

Comparison of Structure of Femtosecond and Nanosecond Laser-Structured Silicon
(飞秒与纳秒激光在硅表面诱导微纳米结构的对比研究)

S. LIN, Y. LIU, H. Y. TAO.....216

Design and Numerical Investigation of Full Film Cooling for Transonic Turbine
(某跨声速涡轮全气膜冷却设计与数值研究)

Z. G. LIU.....222