ISSN 0022-3727

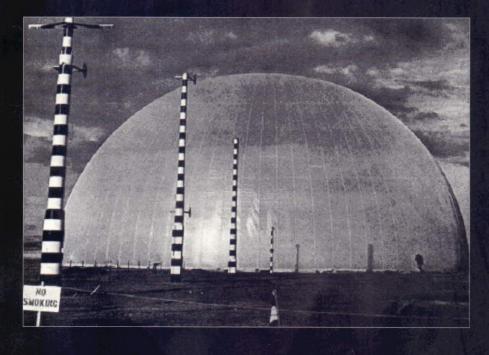
 I_0P

Journal of Physics D Applied Physics Physics

Volume 38 Number 23 7 December 2005

Topical review: Developments in magnetocaloric refrigeration *E Brück*

Online: www.iop.org/journals/jphysd



Institute of Physics PUBLISHING

Journal of Physics D: Applied Physics

	Volume 38	Number 23	7 December 2005
	TOPICAL REVIEW		
R381	Developments in magnetocaloric refrigeration E Brück		
	PAPERS		
	APPLIED MAGNETISM AND MAGNETIC MATERIALS		
4145	Kinetics of ferroelectric switching in unipolar (CH ₃ NH ₃) ₅ Bi ₂ Br ₁₁ crystal R Z Rogowski, K Matyjasek and R Jakubas		
	PHOTONICS AND SEMICONDUCTOR DEVICE PHYSICS		
4153	Study of blue organic light emitting diode by inserting a red dye ultra thin layer at the emitting layer X-Y Jiang, Z-L Zhang, W-Q Zhu and S-H $\rm Xu$		
4157	Defect model and electron paramagnetic resonance parameters of a Fe_{Zn}^+ – X complex defect in ZnS crystal W-C Zheng and X-X Wu		
	EXPERIMENTAL, COMPUTATIONAL AND THEORETICAL PARTICLE BEAM AND PLASMA SCIENCE		
4160	Removal of formaldehyde from gas streams via packed-bed dielectric barrier discharge plasmas H-X Ding, A-M Zhu, X-F Yang, C-H Li and Y Xu		
4168	Electrical coupling efficiency of inductive plasma accelerators A Martin and R Eskridge		
4180	Line-of-sight measurements of the 254 nm resonance line of mercury and comparison with non-local radiation transport in low pressure Hg–Ar discharges G M Petrov, J L Giuliani and R E Pechacek		
4184	Time and material dependence of the voltage noise generated by cathodic vacuum arcs J Rosén and A Anders		
4191			ed plasmas with solid tin as target , T Namihira and H Akiyama
	APPLIED SURFACE	ES AND INTERFACE	5
4196	Temperature of spatially modulated surface of solid film heated by repetitive laser pulses M Khenner and V K Henner		
4202	Kinetic Monte Carlo simulation of deposition of energetic copper atoms on a Cu(001) substrate Z-L Liu, L Yu, K-L Yao, X-B Jing, X-A Li and X-Z Sun		
4210	Charge trapping and conduction mechanisms in Ta ₂ O ₅ on nitrided silicon A Paskaleva, E Atanassova and M Georgieva		
4217	Wear and oxidation resistance of composite coatings fabricated on Ti-6Al-4V by laser alloying with nitrogen and silicon Y S Tian, C Z Chen, L X Chen and O H Huo		

4222 In situ analysis of lattice relaxation by reflection high-energy electron diffraction X H Wei, Y R Li, J Zhu, Y Zhang, Z Liang and W Huang

STRUCTURE AND PROPERTIES OF MATTER

4227 Investigation of 2D Mueller matrix structure of biological tissues for pre-clinical diagnostics of their pathological states O V Angelsky, Yu Ya Tomka, A G Ushenko, Ye G Ushenko and Yu A Ushenko

(Continued on inside back cover)