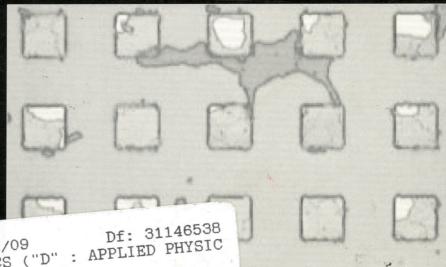
ISSN 0022-3727

IoP

## Journal of Physics D Applied Physics Physics

Volume 35 Number 5 7 March 2002

Online: www.iop.org/EJ/jphysd



Ref: BT PF 160102/09 Df: 31146536 JOURNAL OF PHYSICS ("D": APPLIED PHYSIC 07.03.02 Vol. 35 No. 5 0022-3727 22304673 29.05.02 EDITIONS CHIHAB

ZI. LOT B5 B.P.744 REGHAIA

GG ALGER ALGERIE

## **Journal of Physics D: Applied Physics**

	Volume 35	Number 5	7 March 2002	
	RAPID COMMUN	ICATIONS		
L7	Strained silicon for quantum computing R W Keyes			
L11	Fabrication of ordered arrays of silicon nanopillars at selected sites M Bale, A J Turner and R E Palmer			
	PAPERS			
	APPLIED MAGNETISM, MAGNETIC MATERIALS AND SUPERCONDUCTIVITY			
413	Magnetic response to cyclic fatigue of low carbon Fe-based samples Y Melikhov, C C H Lo, O Perevertov, J Kadlecová, D C Jiles and I Tomáš			
423	Observation of clusters in $Re_{60}Fe_{30}Al_{10}$ alloys and the associated magnetic properties Kong H Z, Ding J, Dong Z L, Wang L, White T and Li Y			
	PHOTONICS AND SEMICONDUCTOR DEVICE PHYSICS			
430	Ultrafast and large third-order optical nonlinearity of porous nanosized poly-crystal LiNbO <sub>3</sub> film Ququan Wang, Shufeng Wang, Wentao Huang, Qihuang Gong, Baifeng Yang and Jing Shi			
433	Optical and luminescent properties of undoped and rare-earth-doped Ga <sub>2</sub> O <sub>3</sub> thin films deposite pyrolysis  Jianhua Hao and M Cocivera			
	EXPERIMENTAL,	COMPUTATIONAL	AND THEORETICAL PARTICLE BE	EAM AND PLASMA SCIENC
439	Chemical kinetics with electrical and gas dynamics modelization for NO <sub>x</sub> removal in an air cord discharge O Eichwald, N A Guntoro, M Yousfi and M Benhenni			
451	Three-photon induced ultraviolet emissions from polymers Leiming Li, Wanghua Xiang and S I Stupp			
454	Optical computerized tomography of the E–H transition in inductively coupled plasmas in Ar and Ar–C mixtures Y Miyoshi, Z Lj Petrović and T Makabe			
462	Plasma recovery in plasma immersion ion implantation: dependence on pulse frequency and duty cycle B Briehl and H M Urbassek			
468	Chemically non-eq Y Tanaka and T Sak		g of N <sub>2</sub> thermal ICP at atmospheric p	ressure using reaction kinetic
	APPLIED SURFAC	CES AND INTERFA	ACES	
477		Effect of heavy ion irradiation on the electrical and optical properties of amorphous chalcogenide thin fi M Singh Kamboj, G Kaur, R Thangaraj and D K Avasthi		
480	Ultraviolet absorption measurements of $\mathrm{CF}_2$ in the parallel plate pyrolytic chemical vapour deposition process  B A Cruden, K K Gleason and H H Sawin			
487	New modelling method for forward junction $I-V$ analysis M El-Tahchi, N Toufik, F Pelanchon, M Ajaka, A Khoury and P Mialhe			
	STRUCTURE AND PROPERTIES OF MATTER			
492	Effect of post-growth annealing and magnetic field on the two-way shape memory effect of Ni <sub>52</sub> Mn <sub>24</sub> Ga <sub>24</sub> single crystals			

W H Wang, Z H Liu, Z W Shan, J L Chen, G H Wu and W S Zhan