

ISSN 0022-3727

IoP

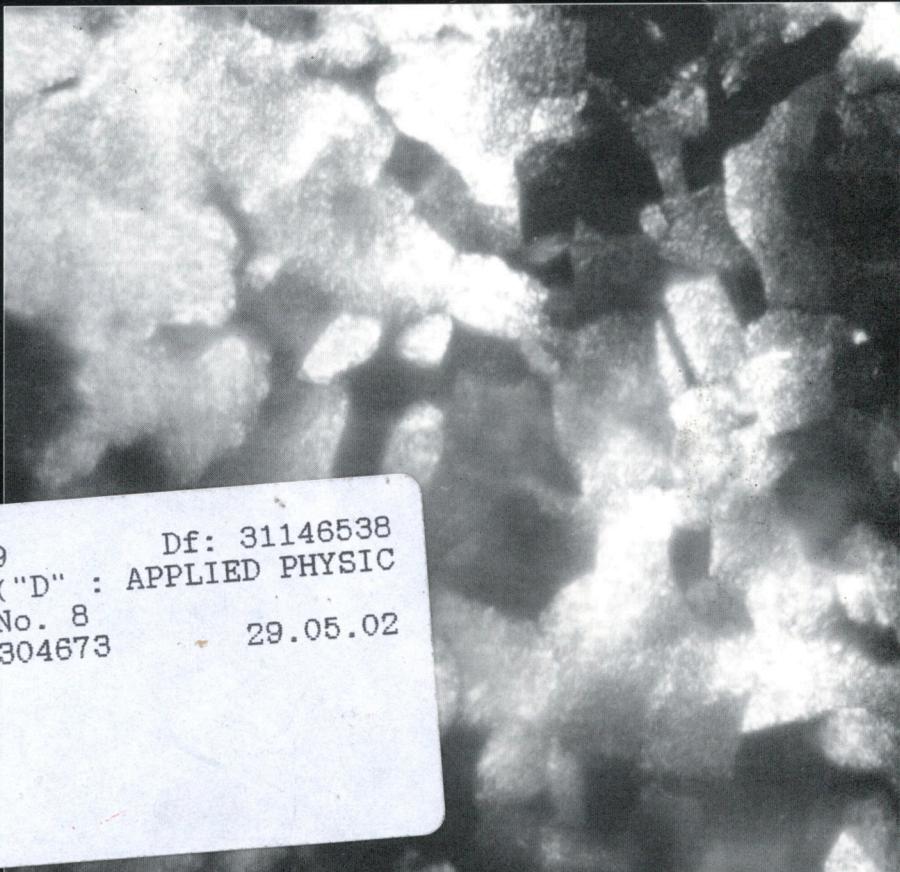
Journal of Physics D Applied Physics

Volume 35 Number 8 21 April 2002

Review article: Phase stabilization of ultrashort optical pulses

S T Cundiff

Online: www.iop.org/journals/jphysd



Ref: BT PF 160102/09 Df: 31146538
JOURNAL OF PHYSICS ("D" : APPLIED PHYSIC
21.04.02 Vol. 35 No. 8 22304673 29.05.02
0022-3727
EDITIONS CHIHAB
ZI. LOT B5
B.P.744 REGHAIA
GG ALGER
ALGERIE

Institute of **Physics** PUBLISHING

Journal of Physics D: Applied Physics

Volume 35 Number 8 21 April 2002

RAPID COMMUNICATIONS

- L25 AFM investigation of cement paste in humid air at different relative humidities
T Yang, B Keller and E Magyari
- L29 Combined isothermal and non-isothermal current measurements applied to space charge studies in low-density polyethylene
M Carmo Lança, E R Neagu and J N Marat-Mendes

TOPICAL REVIEW

- R43 **M** Phase stabilization of ultrashort optical pulses
S T Cundiff

PAPERS

APPLIED MAGNETISM, MAGNETIC MATERIALS AND SUPERCONDUCTIVITY

- 729 Grain boundary Josephson studies in BiSrCaCuO microbridges
D Kaur and A K Gupta
- 732 Thermal behaviour and magnetic properties of B-rich NdFeB nanocomposite hard magnetic alloys with partial substitution of Dy for Nd
Li Shandong, B X Gu, Yang Sen, Bi Hong, Dai Yaodong, Tian Zongjun, Xie Guozhi, Du Youwei and Yuan Zuanru
- 738 Structure and magnetic property of Ni–Cu alloy nanowires electrodeposited into the pores of anodic alumina membranes
C Z Wang, G W Meng, Q Q Fang, X S Peng, Y W Wang, Q Fang and L D Zhang

PHOTONICS AND SEMICONDUCTOR DEVICE PHYSICS

- 742 The pure white light emission from three-layer electroluminescent device
Z Chen, K Ogino, S Miyata, Y Lu and T Watanabe

EXPERIMENTAL, COMPUTATIONAL AND THEORETICAL PARTICLE BEAM AND PLASMA SCIENCE

- 747 The T_e versus pL characteristic in electronegative gases with more than one species of negative ion
R N Franklin
- 751 Influence of interaction between charged particles and dielectric surface over a homogeneous barrier discharge in nitrogen
Yu B Golubovskii, V A Maiorov, J Behnke and J F Behnke

- 762 Ionization and electron emission processes active in negative corona current pulse in N_2 – SF_6 mixtures
A Zahoranová, J Kúdelčík, J Paillol and M Černák

- 770 Assessment of the boundary conditions for a thermal model of pulsed laser ablation
S Tosto

APPLIED SURFACES AND INTERFACES

- 779 Analytical electron microscopy of interface layers between Ti(6% Al, 4% V) and a CrN cathodic arc coating
M MacKenzie, A J Craven, W A P Nicholson and P Hatto
- 788 Influence of nitrogen ion implantation on tribological properties of nanocrystalline diamond films
Tao Xu, Shengrong Yang, Miao Chen, Jun Tian, Qunji Xue, Jingqi Li and Wantu Guo
- 794 Dielectric modelling of optical spectra of thin $In_2O_3 : Sn$ films
D Mergel and Z Qiao
- 802 The electroformed metal–insulator–metal structure: a comprehensive model
R E Thurstan and D P Oxley

(Continued on inside back cover)