

ISSN 0022-3727

IOP

Journal of Physics D

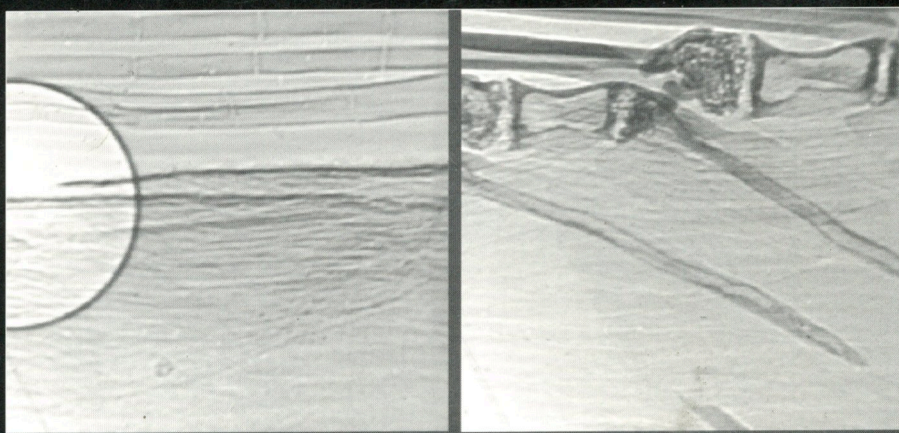
Applied Physics

Volume 35 Number 13 7 July 2002

Review article: Coherence-enhanced synchrotron radiology: simple theory and practical applications

Y Hwu et al

Online: www.iop.org/journals/jphysd



Ref: BT PF 160102/09 Df: 31146538
JOURNAL OF PHYSICS (D) APPLIED PHYSICS
07.07.02 Vol. 35 No. 13
0022-3727 22504673 15.07.02
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 13

7 July 2002

RAPID COMMUNICATIONS

- L57** Effect of carbon ion pre-implantation on the stress level of diamond films formed on alumina substrates
Zhijun Fang, Yiben Xia, Linjun Wang, Zhiming Wang, Weili Zhang and Yimin Fan
- L61** Novel high performance small-scale thermoelectric power generation employing regenerative combustion systems
F J Weinberg, D M Rowe and G Min

TOPICAL REVIEW

- R105** Coherence-enhanced synchrotron radiology: simple theory and practical applications
Y Hwu, Wen-Li Tsai, A Groso, G Margaritondo and Jung Ho Je

PAPERS

APPLIED MAGNETISM, MAGNETIC MATERIALS AND SUPERCONDUCTIVITY

- 1459** Influence of paramagnetic chromium ions in crystalline YAG at microwave frequencies
J G Hartnett, A N Luiten, J Krupka, M E Tobar and P Bilski
- 1467** Magnetically self-insulated transformers
B M Novac, I R Smith and J Brown

PHOTONICS AND SEMICONDUCTOR DEVICE PHYSICS

- 1473** Performance and photostability of xanthene and pyrromethene laser dyes in sol-gel phases
M Ahmad, T A King, D-K Ko, B H Cha and J Lee
- 1477** Modelling half-cycle pulse generation in ZnGeP₂ crystal
V V Apollonov, Yu A Shakir and A I Gribenyukov
- 1481** Morphology and Raman scattering spectrum of GaN nanowires embedded in nanochannels of template
Jun Zhang and Lide Zhang

EXPERIMENTAL, COMPUTATIONAL AND THEORETICAL PARTICLE BEAM AND PLASMA SCIENCE

- 1486** Maximum plasma power for a cylindrical bore torch
A R Dayal and R T Deam
- 1491** NO_x remediation in oxygen-rich exhaust gas using atmospheric pressure non-thermal plasma generated by a pulsed nanosecond dielectric barrier discharge
A Khacef, J M Cormier and J M Pouvesle

APPLIED SURFACES AND INTERFACES

- 1499** Effects of Nb and Sr doping on crystal structure of epitaxial BaTiO₃ thin films on MgO substrates
Y Kim, C-H Chen, Atsus Saiki, N Wakiya, K Shinozaki and N Mizutani
- 1504** Synthesis and characterization of CuGaTe₂ films prepared by three source co-evaporation technique
P Guha, S Roy, S Chaudhuri and A K Pal
- 1512** Evolution of CdS nanoparticles self-assembled within two-dimensional Langmuir-Blodgett layers
A Nabok, Iwantono, A Ray, I Larkin and T Richardson
- 1516** Thickness uniformity of gas-phase coatings in narrow channels: I. Long channels
E M Tolstopyatov
- 1526** X-ray microanalysis of multi-elements coatings using Auger formalism: application to biomaterials
H Benhayoune

STRUCTURE AND PROPERTIES OF MATTER

- 1532** Photoacoustic monitoring of inhomogeneous curing processes in polystyrene emulsions
M Vargas-Luna, G Gutiérrez-Juárez, J M Rodríguez-Vizcaíno, J B Varela-Nájera, J M Rodríguez-Palencia, J Bernal-Alvarado, M Sosa and J J Alvarado-Gil