

Y. TENG, C.H. CHEN, H. SHAO, J. SUN, Z.M. SONG, R.Z. XIAO AND Z.Y. DU	321	Design and efficient operation of a coaxial RBWO
P.A. NI, R.M. MORE AND F.M. BIENIOSEK	333	Reliability of temperature determination from curve-fitting in multi-wavelength pyrometry
PRATEEK VARSHNEY, VIVEK SAJAL, K.P. SINGH, RAVINDRA KUMAR AND NAVNEET K. SHARMA	337	Strong terahertz radiation generation by beating of extra-ordinary mode lasers in a rippled density magnetized plasma
YA ZHANG, YUAN-HONG SONG AND YOU-NIAN WANG	345	Simulations of interactions of high-energy proton beam with high dense matter based on two-dimensional quantum hydrodynamic model
CHENG ZHANG, VICTOR F. TARASENKO, TAO SHAO, EVGENI KH. BAKSHT, ALEXANDER G. BURACHENKO, PING YAN AND IGOR' D. KOSTYRAY	353	Effect of cathode materials on the generation of runaway electron beams and X-rays in atmospheric pressure air

LASER AND PARTICLE BEAMS

Pulse Power, High Energy Densities, Hot Dense Matter, and Warm Dense Matter

Volume 31

June 2013

Number 2

CONTENTS

- DIETER H.H. HOFFMANN 185 Laser and particle beams prize for outstanding achievements of young scientists in high energy density physics
- ESMAEL ESLAMI AND KEYVAN BASEREH 187 Effects of plasma and ultrashort laser pulse on residual electron energy in optical-field-ionized oxygen plasma
- A. BARTNIK, R. FEDOSEJEVS, P. WACHULAK, H. FIEDOROWICZ, C. SERBANESCU, E.G. SAIZ, D. RILEY, S. TOLEIKIS AND D. NEELY 195 Photo-ionized neon plasmas induced by radiation pulses of a laser-plasma EUV source and a free electron laser FLASH
- L. HAO, Z.J. LIU, X.Y. HU AND C.Y. ZHENG 203 Competition between the stimulated Raman and Brillouin scattering under the strong damping condition
- ONDŘEJ NOVÁK, MARTIN DIVOKÝ, HANA TURČIČOVÁ AND PETR STRAKA 211 Design of a petawatt optical parametric chirped pulse amplification upgrade of the kilojoule iodine laser PALS
- P.W. WACHULAK, L. WEGRZYNSKI, A. BARTNIK, T. FOK, R. JAROCKI, J. KOSTECKI, M. SZCZUREK AND H. FIEDOROWICZ 219 Characterization of a dual-gas multi-jet gas puff target for high-order harmonic generation using extreme ultraviolet shadowgraphy
- HEINRICH HORA 229 Extraordinary strong jump of increasing laser fusion gains experienced at volume ignition for combination with NIF experiments
- Y. LIU, F.Y. LI, M. ZENG, M. CHEN AND Z.M. SHENG 233 Ultra-intense attosecond pulses emitted from laser wakefields in non-uniform plasmas
- YU ZHANG AND JINLIANG LIU 239 A new kind of solid-state Marx generator based on transformer type magnetic switches
- H. HORA, G.H. MILEY, M. GHORANNEVISS AND A. SALAR ELAHI 249 Application of picosecond terawatt laser pulses for fast ignition of fusion
- HEINRICH HORA 257 Peierls' dielectric response for clarification of interacting electron with laser beams
- CH. LEELA, SUMAN BAGCHI, V. RAKESH KUMAR, SURYA P. TEWARI AND P. PREM KIRAN 263 Dynamics of laser induced micro-shock waves and hot core plasma in quiescent air
- MOHAMMAD HOSSEIN MAHDIEH AND SAHAR HOSSEINZADEH 273 Numerical study of radiative opacity for carbon and aluminum plasmas produced by high power pulsed lasers
- MAYANK SHUKLA, SACHIN SAWANT, ASHISH AGRAWAL, YOGESH KASHYAP, TUSHAR ROY AND AMAR SINHA 289 Laser produced thin metallic planar mini-flyer generation using fiber optic plate
- W.L.J. HASI, X.Y. WANG, S.X. CHENG, Z.M. ZHONG, Z. QIAO, Z.X. ZHENG, D.Y. LIN, W.M. HE AND Z.W. LU 301 Research on the compression properties of FC-3283 and FC-770 for generating pulse of hundreds picoseconds
- D.N. GUPTA, K. AVINASH AND H. SUK 307 Transient self-focusing of an intense laser pulse in magnetized plasmas under non-paraxial approximation
- ALIREZA PAKNEZHAD 313 Brillouin backward scattering in the nonlinear interaction of a short-pulse laser with an underdense transversely magnetized plasma

Cambridge Journals Online

For further information about this journal please go to the journal website at:

journals.cambridge.org/lpb



CAMBRIDGE
UNIVERSITY PRESS