

J. MU, F.-Y. LI, Z.-M. SHENG, AND J. ZHANG	545	Effect of transverse magnetic fields on high-harmonic generation in intense laser–solid interaction
Z. CHEN, X. WANG, D. ZUO, AND J. WANG	552	Investigation of ion characteristics in CO ₂ laser irradiating preformed tin-droplet plasma
F. J. WU, L. Q. SHAN, W. M. ZHOU, T. DUAN, Y. L. JI, C. R. WU, J. L. JIAO, Z. M. ZHANG, AND Y. Q. GU	562	Improvement of proton beam quality by an optimized dragging field generated by the ultraintense laser interactions with a complex double-layer target
P. SCHMIDT, O. BOINE-FRANKENHEIM, AND P. MULSER	567	Optimum laser parameters for 1D radiation pressure acceleration—ERRATUM

LASER AND PARTICLE BEAMS

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

Volume 34

September 2016

Number 3

CONTENTS

HARJIT SINGH GHOTRA AND NITI KANT	385	TEM modes influenced electron acceleration by Hermite–Gaussian laser beam in plasma
L. BOZYK, D.H.H. HOFFMANN, H. KOLLMUS, AND P. SPILLER	394	Development of a cryocatcher prototype and measurement of cold desorption
A.YA. FAENOV, T.A. PIKUZ, S.A. MAGNITSKIY, N. NAGORSKIY, M. TANAKA, M. ISHINO, M. NISHIKINO, M. KANDO, R. KODAMA, Y. KATO, AND T. KAWACHI	402	X-ray coherent mirage: Generation of phase – matched coherent point source in plasma media by propagated X-ray laser seeded beam
D. DEL SORBO, J.-L. FEUGEAS, PH. NICOLAÏ, M. OLAZABAL-LOUMÉ, B. DUBROCA, AND V. TIKHONCHUK	412	Extension of a reduced entropic model of electron transport to magnetized nonlocal regimes of high-energy-density plasmas
H. KUMAR, M. AGGARWAL, RICHA, AND T.S. GILL	426	Combined effect of relativistic and ponderomotive nonlinearity on self-focusing of Gaussian laser beam in a cold quantum plasma
X.-L. WANG, Z.-Y. TAN, W. LUO, Z.-C. ZHU, X.-D. WANG, AND Y.-M. SONG	433	Photo-transmutation of long-lived radionuclide ^{135}Cs by laser–plasma driven electron source
S. MIRZANEHJAD, J. BABAEI, AND R. NASROLLAHOUPUR	440	Electron sheath dynamic in the laser–foil interaction
K. ZHUKOVSKY	447	Emission and tuning of harmonics in a planar two-frequency undulator with account for broadening
M. K. ISSANOVA, S. K. KODANOVA, T. S. RAMAZANOV, N. KH. BASTYKOVA, ZH. A. MOLDABEKOV, AND C.-V. MEISTER	457	Classical scattering and stopping power in dense plasmas: the effect of diffraction and dynamic screening
D. GOEL, P. CHAUHAN, A. VARSHNEY, AND V. SAJAL	467	Parametric excitation of surface plasma waves by stimulated Compton scattering of laser beam at metal-free space interface
D. GOEL, P. CHAUHAN, A. VARSHNEY, AND V. SAJAL	474	Surface plasma waves induced electron acceleration in a static magnetic field
H. K. AVETISSIAN	480	Electron diffraction on a traveling wave: “Inelastic Kapitza–Dirac effect”
M. PISHDAST, A. ESLAMI MAJD, AND M. KAVOSH TEHRANI	493	The influence of plasma shielding effect on laser-ablated copper samples: a focus on signal-to-background ratio and plasma expansion
Y. TIAN, X. JIN, W. YAN, X. GU, J. YU, J. LI, AND B. LI	506	Investigation of ionization speed in field ionization with laser–plasma interaction
Z.H. LIU, Y.L. WANG, H.L. WANG, H. YUAN, R. LIU, S.S. LI, Z. BAI, R.Q. FAN, W.M. HE, AND Z.W. LU	513	Tail modulation suppression in the process of high-energy stimulated Brillouin scattering pulse compression
R. MARTORELLI AND A. PUKHOV	519	Optimized stability of a modulated driver in a plasma wakefield accelerator
A. HEMATIZADEH, F. BAKHTIARI, S. M. JAZAYERI, AND B. GHAFARY	527	Strong terahertz radiation generation by beating of two laser beams in magnetized overdense plasma
A. CURCIO, M. ANANIA, F.G. BISESTO, A. FAENOV, M. FERRARIO, M. GALLETI, D. GIULIETTI, R. KODAMA, M. PETRARCA, T. PIKUZ, AND A. ZIGLER	533	Characterization of X-ray radiation from solid Sn target irradiated by femtosecond laser pulses in the presence of air plasma sparks
V. BRANDON, B. CANAUD, M. TEMPORAL, AND R. RAMIS	539	Thermodynamic properties of thermonuclear fuel in inertial confinement fusion

Cambridge Journals Online

For further information about this journal please
go to the journal website at:
journals.cambridge.org/lpb

CAMBRIDGE
UNIVERSITY PRESS