

HIGH POWER LASER

SCIENCE AND
ENGINEERING

Volume 4
Number 2
June 30, 2016

Ultrafast dynamical process of Ge irradiated by the femtosecond laser pulses

*Fangjian Zhang, Shuchang Li,
Anmin Chen, Yuanfei Jiang,
Suyu Li, and Mingxing Jin*

e12

How the optical timing system, the longitudinal diagnostics and the associated feedback systems provide femtosecond stable operation at the FERMI free electron laser

*Mario Ferianis, Enrico Allaria,
Eugenio Ferrari, Giulio Gaio,
Giuseppe Penco, Fabio Rossi,
and Marco Veronese*

e13

Laser diode stacks: pulsed light power for nuclear fusion

*Martin Wölz, Agnieszka Pietrzak,
Alex Kindsvater, Jens Meusel,
Klaus Stolberg, Ralf Hülsewede,
Jürgen Sebastian,
and Valentin Loyo-Maldonado*

e14

Cryogenic nanosecond and picosecond high average and peak power (HAPP) pump lasers for ultrafast applications

*David C. Brown, Sten Tornegård,
and Joseph Kolis*

e15

Design of deformable mirrors for high power lasers

*Stefano Bonora, Jan Pilar,
Antonio Lucianetti, and Tomas Mocek*

e16

Generation of spectrally stable 6.5-fs visible pulses via filamentation in krypton

*Keisuke Kaneshima, Kengo Takeuchi,
Nobuhisa Ishii, and Jiro Itatani*

e17

Plasma-mirror frequency-resolved optical gating for simultaneous retrieval of a chirped vacuum-ultraviolet waveform and time-dependent reflectivity

*Ryuji Itakura, Takayuki Kumada,
Motoyoshi Nakano, and Hiroshi Akagi* e18

Fast magnetic energy dissipation in relativistic plasma induced by high order laser modes

*Y. J. Gu, Q. Yu,
O. Klimo, T. Zh. Esirkepov,
S. V. Bulanov, S. Weber,
and G. Korn* e19

Correlation-induced self-focusing and self-shaping effect of a partially coherent beam

Yahong Chen and Yangjian Cai e20