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Publications

PUBLICATIONS

- **A scintillator attenuation spectrometer for intense gamma-rays** *REVIEW OF SCIENTIFIC INSTRUMENTS*
Liang, E., Zheng, K. Q., Yao, K., Lo, W., Hasson, H., Zhang, A., Burns, M., Wong, W. H., Zhang, Y., Dashko, A., Quevedo, H., Ditmire, T., Dyer, et al
2022; 93 (6)
- **Experiments and simulations of isochorically heated warm dense carbon foam at the Texas Petawatt Laser** *MATTER AND RADIATION AT EXTREMES*
Roycroft, R., Bradley, P. A., McCary, E., Bowers, B., Smith, H., Dyer, G. M., Albright, B. J., Blouin, S., Hakel, P., Quevedo, H. J., Vold, E. L., Yin, L., Hegelich, et al
2021; 6 (1)
- **Ronchi shearing interferometry for wavefronts with circular symmetry** *JOURNAL OF SYNCHROTRON RADIATION*
Nagler, B., Galtier, E. C., Brown, S. B., Heimann, P., Dyer, G., Lee, H.
2020; 27: 1461–69
- **Laser-plasmas in the relativistic-transparency regime: Science and applications**
Fernandez, J. C., Gautier, D., Huang, C., Palaniyappan, S., Albright, B. J., Bang, W., Dyer, G., Favalli, A., Hunter, J. F., Mendez, J., Roth, M., Swinhoe, M., Bradley, et al
AMER INST PHYSICS.2017: 056702
- **Diagnostics improvement in the ABC facility and preliminary tests on laser interaction with light-atom clusters and p+B-11 targets**
Consoli, F., De Angelis, R., Andreoli, P., Cristofari, G., Di Giorgio, G., Bonasera, A., Barbui, M., Mazzocco, M., Bang, W., Dyer, G., Quevedo, H., Hagel, K., Schmidt, et al
ELSEVIER SCIENCE BV.2013: 149-152
- **Hot electron production using the Texas Petawatt Laser irradiating thick gold targets** *HIGH ENERGY DENSITY PHYSICS*
Taylor, D., Liang, E., Clarke, T., Henderson, A., Chaguine, P., Wang, X., Dyer, G., Serratto, K., Riley, N., Donovan, M., Ditmire, T.
2013; 9 (2): 363-368
- **Study of the yield of D-D, D-He-3 fusion reactions produced by the interaction of intense ultrafast laser pulses with molecular clusters**
Barbui, M., Bang, W., Bonasera, A., Hagel, K., Schmidt, K., Natowitz, J., Giuliani, G., Barbarino, M., Dyer, G., Quevedo, H., Gaul, E., Borger, T., Bernstein, et al
IOP PUBLISHING LTD.2013
- **The Texas Petawatt Laser and Current Experiments**
Martinez, M., Bang, W., Dyer, G., Wang, X., Gaul, E., Borger, T., Ringuette, M., Spinks, M., Quevedo, H., Bernstein, A., Donovan, M., Ditmire, T., Zgadzaj, et al
AMER INST PHYSICS.2012: 874-878
- **Demonstration of a 1.1 petawatt laser based on a hybrid optical parametric chirped pulse amplification/mixed Nd:glass amplifier** *APPLIED OPTICS*
Gaul, E. W., Martinez, M., Blakeney, J., Jochmann, A., Ringuette, M., Hammond, D., Borger, T., Escamilla, R., Douglas, S., Henderson, W., Dyer, G., Erlandson, A., Cross, et al
2010; 49 (9): 1676-1681