

Jméno, příjmení, titul žadatele: Ondřej Novák, Ing.

Seznam publikovaných prací:

1. **O. Novák**, H. Turčičová, M. Divoký, M. Smrž, J. Huynh, P. Straka, *Femtosecond pulse parametric amplification at narrowband high power gas laser pumping*, Optics Letters, 37 (2012), 2100 – 2102
2. **O. Novák**, H. Turčičová, M. Smrž, J. Huynh, M. Pfeifer, P. Straka, *Broadband femtosecond OPCPA system driven by the single-shot narrow-band iodine photodissociation laser SOFIA*, Applied Physics B: Lasers and Optics, 108, (2012), 501-508, DOI 10.1007/s00340-012-5107-5
3. **O. Novák**, P. Straka, M. Divoký, H. Turčičová, *Design of an OPCPA petawatt upgrade of a kilojoule iodine laser PALS*, přijato k publikaci v Laser and Particle Beams
4. **O. Novák**, H. Turčičová, M. Divoký, M. Smrž, J. Huynh, P. Straka, *Broadband OPCPA pumped by ultra-narrowband gaseous iodine laser*, LASE - SPIE Photonics West, 21 - 26 January 2012, San Francisco, USA, doi: 10.1117/12.908565
5. **O. Novák**, H. Turčičová, M. Divoký, M. Smrž, J. Huynh, P. Straka, *Ultra-Narrow-Band Gaseous Iodine Laser Pumping All-Stage OPCPA*, Abstracts 8th International Conference on Ultrafast Optics UFO VIII, September 26-30, 2011, Monterey, USA, pp.156-157
6. M. Kamas, D. Novotná, E. Tesařová, I. Matulková, H. Turčičová, J. Huynh, **O. Novák**, V. Shestivska, M. Polášek, J. Cihelka, S. Civiš, L. Juha, *Chemické projevy plazmatu vytvořeného na povrchu molekulárních ledů pulzním výkonovým laserem*, The 62nd Congress of Czech and Slovak Chemical Societies Associations, Pardubice, 28-30 June 2010, Chem. Listy, Vol. 104, pp.488-489
7. **O. Novák**, M. Divoký, P. Böhm, M. Smrž, H. Turčičová, P. Straka, *Proposal of Ultra-High-Power Beams at the Kilojoule Iodine Laser PALS*, Proceedings of 19th Annual CTU Student Scientific Conference Workshop 2010, Eds. K. Lejčková, 22-26 February, 2010, Praha, pp. 44-45, ISBN 978-80-01-04513-8.
8. **O. Novák**, M. Divoký, P. Bohm, M. Smrž, R. Sedlář, P. Straka, H. Turčičová, *Proposal of ultra-high-power beams at the kilojoule iodine laser PALS*, International Conference on Ultrahigh Intensity Lasers (ICUIL 2008), 27-31 October 2008, Tongli, China
9. J. Dostál, M. Divoký, M. Smrž, **O. Novák**, J. Huynh, L. Král, H. Turčičová, B. Králiková, P. Straka, *SOFIA iodine laser system as a driver for OPCPA*, International Conference on Ultrahigh Intensity Lasers (ICUIL 2008), 27-31 October 2008, Tongli, China
10. H. Turčičová, P. Straka, J. Dostál, M. Divoký, M. Smrž, **O. Novák**, P. Böhm, *Iodine laser system SOFIA used as a pump for OPCPA*, International Conference on Ultrahigh Intensity Lasers. Development, Science and Emerging Applications. Cassis (FR), 2006
11. H. Turčičová, J. Skála, M. Pfeifer, P. Straka, J. Dostál, G. Kocourková, J. Knyttl, M. Divoký, M. Smrž, **O. Novák**, P. Böhm, A. Dombrovský, *Application of the hybrid laser SOFIA for OPCPA pumping*, CLEO/EUROPE - EQEC, 12-17 June, 2005, München (DE)
12. H. Turčičová, J. Dostál, G. Kocourková, J. Knyttl, J. Skála, M. Pfeifer, M. Divoký, M. Smrž, **O. Novák**, P. Böhm, A. Dombrovský, W. Belardi, P. Straka, *Solid-state-gas-laser SOFIA as a pump for the optical parametric chirped pulse amplification*, XV International Symposium on Gas Flow and Chemical Lasers & High Power Lasers Conference (GCL-HPL 2004), 30 Aug - 03 Sep 2004, Prague, Proc. of SPIE 5777, pp. 762-765, ISBN 0-8194-5760-4, ISSN 0277-786X
13. H. Turčičová, J. Dostál, G. Kuhnová, J. Knyttl, J. Skála, M. Pfeifer, M. Divoký, M. Smrž, **O. Novák**, P. Böhm, P. Straka, *Hybrid laser chain SOFIA as a test laboratory for the petawatt-grade of Prague Asterix Laser System (PALS)*, Proceedings of the International Workshop on Optical Parametric Processes and Periodical Structures, 26-29 September 2004, Vilnius University, Lithuania, pp. 43-44, ISBN 9986-19-675-2.