PUBLICATIONS OF J.A. FÜLÖP

Peer-reviewed publications

16. Generation of sub-mJ terahertz pulses by optical rectification
J.A. Fülöp, L. Pálfalvi, S. Klingebiel, G. Almási, F. Krausz, S. Karsch, J. Hebling
Opt. Lett., 37, 557 (2012)

15. Single attosecond pulse from terahertz-assisted high-order harmonic generation
E. Balogh, K. Kovacs, P. Dombi, J.A. Fülöp, Gy. Farkas, J. Hebling, V. Tosa, K. Varjú
Phys. Rev. A 84, 023806 (2011)

14. Towards generation of mJ-level ultrashort THz pulses by optical rectification
J.A. Fülöp, L. Pálfalvi, M.C. Hoffmann, J. Hebling
Opt. Express 19, 15090 (2011)

13. Intense ultrashort terahertz pulses: generation and applications
M.C. Hoffmann, J.A. Fülöp
J. Phys. D 44, 083001 (2011), topical review, invited

12. High energy THz pulse generation by tilted pulse front excitation and its nonlinear optical applications
J.A. Fülöp, L. Pálfalvi, G. Almási, J. Hebling
J. Infrared Milli. Terahz. Waves 32, 553 (2011)

11. Design of high-energy terahertz sources based on optical rectification
J.A. Fülöp, L. Pálfalvi, G. Almási, J. Hebling
Opt. Express 18, 12311 (2010)

10. Basic concepts and current status of the Petawatt Field Synthesizer – a new approach to ultrahigh field generation
Zs. Major, S.A. Trushin, I. Ahmad, M. Siebold, C. Wandt, S. Klingebiel, T.-J. Wang, J.A. Fülöp, A. Henig, S. Kruber, R. Weingartner, A. Popp, J. Osterhoff, R. Hörlein, J. Hein, V. Pervak, A. Apolonski, F. Krausz, S. Karsch
The Review of Laser Engineering 37, 431 (2009), invited paper

9. A general z-scan theory
L. Pálfalvi, B. Tóth, G. Almási, J.A. Fülöp, J. Hebling
Appl. Phys. B 97, 679 (2009)

8. Comparison of dispersive mirrors based on the time-domain and conventional approaches, for sub-5-fs pulses
V. Pervak, I. Ahmad, J.A. Fülöp, M.K. Trubetskoy, A.V. Tikhonravov
Opt. Express 17, 2207 (2009)
7. Novel setups for extremely high power single-cycle terahertz pulse generation by optical rectification
L. Pálfalvi, J.A. Fülöp, G. Almási, J. Hebling
*Appl. Phys. Lett.* **92**, 171107 (2008)

6. Short-pulse optical parametric chirped-pulse amplification for the generation of high-power few-cycle pulses
J.A. Fülöp, Zs. Major, A. Henig, S. Kruber, R. Weingartner, T. Clausnitzer, E.-B. Kley, A. Tunnermann, V. Pervak, A. Apolonski, J. Osterhoff, R. Hörlein, F. Krausz, S. Karsch
*New Journal of Physics* **9**, 438 (2007), featured in Laser Focus World, February 2008 issue

5. Shaping of picosecond pulses for pumping optical parametric amplification
J.A. Fülöp, Zs. Major, B. Horváth, F. Tavella, A. Baltuška, F. Krausz
*Appl. Phys. B* **87**, 79 (2007)

4. Broadband dispersion-compensated two-pass second harmonic generation of femtosecond pulses
J.A. Fülöp, A.P. Kovács, Zs. Bor
*Opt. Commun.* **188**, 365 (2001)

3. Influence of phase modulation on the reshaping of ultrashort laser pulses in resonant three-level systems
R. Netz, T. Feurer, J.A. Fülöp
*Phys. Rev. A* **64**, 043808 (2001)

2. Dispersion-compensated two-pass arrangement for second harmonic generation of femtosecond pulses
J.A. Fülöp, A.P. Kovács, Zs. Bor
*Laser Physics* **10**, 437 (2000)

1. Measurements of the virtual bremsstrahlung yields in the p+p system
J.G. Messchendorp, J.C.S. Bacelar, J.A. Fülöp, M.J. van Goethem, M.N. Harakeh, M. Hoefman, H. Huisman, N. Kalantar-Nayestanaki, H. Löhner, R.W. Ostendorf, S. Schadmand, R. Turrisi, M. Volkerts, H.W. Wilschut, A. van der Woude, R. Holzmann, R. Simon, A. Kugler, K. Tcherkashenko, V. Wagner
*Nuclear Physics A* **631**, 618c (1998)

**Book chapters**

1. Applications of tilted-pulse-front excitation
J.A. Fülöp, J. Hebling
In: *Recent Optical and Photonic Technologies*, K. Y. Kim (Ed.), pp. 207-230, ISBN 978-953-7619-71-8, INTECH, Croatia, (2010), open access at http://www.intechopen.com/articles/show/title/applications-of-tilted-pulse-front-excitation

**Publications featuring our work**
2. **THz pulse technology brings new hope to cancer sufferers**  
   *Science, Technology and Innovation Projects* **25**, 50-51 (June 2011)  
   open access at http://viewer.zmags.com/publication/17a3c8ec#/17a3c8ec/1

1. **Pulse amplification: Few-cycle pulses get seriously powerful**  
   D. J. Palmer  
   *Laser Focus World* **44**, 30-31 (February 2008)

## Conference contributions

### Conference proceedings

5. **Intense terahertz sources based on tilted pulse-front excitation and their potential applications in imaging, nonlinear THz spectroscopy and attosecond pulse generation**  
   J. Hebling, J.A. Fülöp, L. Pálfalvi, G. Almási  
   2010 IEEE Photonics Society Winter Topicals Meeting Series, WTM 2010, art. no. 5421969, pp. 48-49. (2010)

4. **Design of high-energy THz sources based on optical rectification**  
   J.A. Fülöp, L. Pálfalvi, G. Almási, J. Hebling  
   Proceedings - TERA-MIR 2009, NATO Advanced Research Workshop Terahertz and Mid Infrared Radiation: Basic Research and Practical Applications, art. no. 5379649, pp. 21-22. (2009)

3. **Tilted-pulse-front pumping for phase matching and synchronization**  
   J.A. Fülöp, L. Pálfalvi, G. Almási, J. Hebling  
   *Proc. SPIE* **7501**, 75010D (2009)

2. **Theoretical and experimental development of the z-scan method and its application for the characterization of LiNbO₃**  
   L. Pálfalvi, K. Lengyel, Á. Péter, J.A. Fülöp, T. Reiter, J. Hebling  
   *Proc. SPIE* **7501**, 75010F (2009)

1. **Two-pass second harmonic generation of ultrashort pulses**  
   J.A. Fülöp, A.P. Kovács, Zs. Bor  
   *Proc. SPIE* **3573**, 59 (1998)

## International conferences

45. **Towards generation of mJ-level ultrashort THz pulses by optical rectification**  
   J.A. Fülöp, L. Pálfalvi, Z. Ollmann, G. Almási, S. Klingebiel, F. Krausz, S. Karsch, J. Hebling  
   *Light at Extreme Intensities (LEI 2011)*, 14-18 November 2011, Szeged, Hungary, talk L1.5
44. Optical manipulation of ions and relativistic electron beams using THz pulses  
J. Hebling, M. Mechler, L. Pálfalvi, Cs. Tőke, J.A. Fülöp, G. Almási  
*Light at Extreme Intensities (LEI 2011)*, 14-18 November 2011, Szeged, Hungary, poster P34

43. Design of a multi-100-TW near-single-cycle infrared OPCPA system  
Gy. Tóth, L. Pálfalvi, J. Hebling, J.A. Fülöp  
*Light at Extreme Intensities (LEI 2011)*, 14-18 November 2011, Szeged, Hungary, poster P11

42. Optical manipulation of relativistic electron beams using THz pulses  
J. Hebling, J.A. Fülöp, M.I. Mechler, L. Pálfalvi, Cs. Tőke  
33rd International Free Electron Laser Conference (FEL 2011), 22-26 August 2011, Shanghai, China, poster MOPB12

41. Towards generation of mJ-level ultrashort THz pulses by optical rectification  
J.A. Fülöp, Z. Ollmann, L. Pálfalvi, G. Almási, J. Hebling  
*Nonlinear Optics (NLO 2011)*, 17-22 July 2011, Kauai, Hawaii, USA, talk NMC7

40. Towards generation of mJ-level ultrashort THz pulses by optical rectification  
J.A. Fülöp, L. Pálfalvi, G. Almási, J. Hebling  
*International Workshop on Optical Terahertz Science and Technology 2011 (OTST 2011)*, 12-17 March 2011, Santa Barbara, California, USA, poster MF4

39. Attosecond pulse generation in noble gases in the presence of extreme high intensity THz pulses  
E. Balogh, J.A. Fülöp, J. Hebling, P. Dombi, Gy. Farkas, K. Varjú  
*International Workshop on Optical Terahertz Science and Technology 2011 (OTST 2011)*, 12-17 March 2011, Santa Barbara, California, USA, poster TuE32

38. Optimization of the electric field strength of THz sources based on optical rectification  
J.A. Fülöp, L. Pálfalvi, G. Almási, J. Hebling  
*European Optical Society Annual Meeting 2010 (EOSAM 2010)*, 26-29 October 2010, Paris, France, talk 3553

37. High-energy amplification scheme for near-single-cycle pulses at 2 μm based on angular dispersion  
J.A. Fülöp, Gy. Tóth, L. Pálfalvi, J. Hebling  
*European Optical Society Annual Meeting 2010 (EOSAM 2010)*, 26-29 October 2010, Paris, France, talk 3650

36. High energy THz pulse generation by tilted pulse front excitation and its applications  
J. Hebling, J.A. Fülöp, L. Pálfalvi, G. Almási  
*OSA’s 94th Annual Meeting – Frontiers in Optics 2010 (FiO 2010)*, 24-28 October 2010, Rochester, New York, USA, invited talk FThZ1
35. High energy THz pulse generation by tilted pulse front excitation and its applications
J.A. Fülöp, L. Pálfalvi, G. Almási, J. Hebling
*International Conference on the Technique of Microwave and THz Waves and its Application in Biomedical and Radar Technologies and in Remote Sensing (IRPhE’2010)*, 23-25 September 2010, Ashtarak-Aghveran, Armenia, invited talk TH-6

34. Attosecond pulse generation in noble gases in the presence of extreme high intensity THz pulses
E. Balogh, J.A. Fülöp, J. Hebling, P. Dombi, G. Farkas, K. Varjú
*31st European Conference on Laser Interaction with Matter (XXXI ECLIM)*, 6-10 September 2010, Budapest, Hungary, talk Fr-11

33. Extreme Light Infrastructure: The laser sources and major challenges
J.-P. Chambaret, O. Chekhlov, G. Cheriaux, J. Collier, R. Dabu, P. Dombi, A.M. Dunne, K. Ertel, P. Georges, J.A. Fülöp, J. Hebling, J. Hein, C. Hernandez-Gomez, C. Hooker, S. Karsch, G. Korn, F. Krausz, C. Le Blanc, R. Lopez-Martens, Zs. Major, F. Mathieu, T. Metzger, G. Mourou, P. Nickles, K. Osay, B. Rus, W. Sandner, G. Szabó, D. Ursescu, K. Varjú
*31st European Conference on Laser Interaction with Matter (XXXI ECLIM)*, 6-10 September 2010, Budapest, Hungary, talk Mo-9

32. Intense Terahertz Sources Based on Tilted Pulse-Front Excitation and their Potential Applications in Imaging, Nonlinear THz Spectroscopy and Attosecond Pulse Generation
J. Hebling, J.A. Fülöp, L. Pálfalvi, G. Almási
*2010 IEEE Photonics Society Winter Topicals Conference*, 11-13 January 2010, Majorca, Spain, Invited talk

31. High energy THz pulse generation by tilted pulse front excitation and its nonlinear optical applications
J. Hebling, J.A. Fülöp, L. Pálfalvi, G. Almási
*International Workshop on Terahertz Technology 2009 (TeraTech ’09)*, 30 November - 3 December 2009, Osaka, Japan, Invited talk 1I-B1

30. Design of High-Energy THz Sources Based on Optical Rectification
J.A. Fülöp, L. Pálfalvi, G. Almási, J. Hebling
*NATO Advanced Research Workshop on Terahertz and Mid Infrared Radiation: Basic Research and Applications (TERA-MIR 2009)*, 3-6 November 2009, Turunç-Marmaris, Turkey, Talk

29. Attosecond Pulse Shortening by Extremely-High-Intensity THz Pulses
J.A. Fülöp, K. Varjú, P. Dombi, G. Farkas, J. Hebling
*Light at Extreme Intensities (LEI 2009)*, 16-21 October 2009, Brasov, Romania, Talk
28. The petawatt field synthesizer: recent progress and current status
Zs. Major, S.A. Trushin, M. Siebold, I. Ahmad, C. Wandt, S. Klingebiel, C. Skrobl, J.A. Fülöp, R. Weingartner, A. Popp, J. Osterhoff, R. Hörlein, J. Hein, V. Pervak, A. Apolonski, F. Krausz, S. Karsch
*Light at Extreme Intensities (LEI 2009)*, 16-21 October 2009, Brasov, Romania, Invited talk

27. Applications of tilted-pulse-front excitation
J.A. Fülöp, L. Pálfalvi, G. Almási, J. Hebling
*Conference on Ultrafast and Nonlinear Optics (UFNO’2009)*, 14-18 September 2009, Burgas, Bulgaria, Talk NLPaA-R7

26. Nonlinear optical characterization of LiNbO3 by the Z-scan method
L. Pálfalvi, K. Lengyel, Á. Péter, J.A. Fülöp, T. Reiter, J. Hebling
*Conference on Ultrafast and Nonlinear Optics (UFNO’2009)*, 14-18 September 2009, Burgas, Bulgaria, Poster NLPaA-P1

25. Design of high-energy THz sources based on optical rectification
J.A. Fülöp, L. Pálfalvi, G. Almási, J. Hebling
*19th International Congress on Photonics in Europe, European Conference on Lasers and Electro-Optics - European Quantum Electronics Conference (CLEO/Europe - EQEC 2009)*, 14-19 June 2009, Munich, Germany, presentation JSIV3.4 THU, JSIV3 Joint Session: THz QCLs and other Sources

24. A general z-scan theory
L. Pálfalvi, B. Tóth, G. Almási, J.A. Fülöp, J. Hebling
*19th International Congress on Photonics in Europe, European Conference on Lasers and Electro-Optics - European Quantum Electronics Conference (CLEO/Europe - EQEC 2009)*, 14-19 June 2009, Munich, Germany, poster CE.P.32 MON

23. High energy THz pulse generation by tilted pulse front excitation and their nonlinear optical and spectroscopic application
J. Hebling, J.A. Fülöp, L. Pálfalvi, Gy. Tóth, G. Almási, K.-L. Yeh, M.C. Hoffmann, H.Y. Hwang, K.A. Nelson
*International Workshop on Optical Terahertz Science and Technology 2009 (OTST 2009)*, 7-11 March 2009, Santa Barbara, California, USA, invited talk SuD1

22. Nonlinear spectral broadening of Cr:forsterite femtosecond pulses in Xenon at high pressures
I. Bugar, D. Lorenc, J.A. Fülöp, E. Goulielmakis, F. Uherek, A.M. Zheltikov, A. Apolonskiy, F. Krausz
*8th European Conference on Nonlinear Optical Spectroscopy (ECONOS 2009)*, 25-27 May 2009, Frascati, Rome, Italy, presentation
21. OPA Development on the Petawatt Field Synthesizer  
Zs. Major, T.-J. Wang, I. Ahmad, S. Trushin, J.A. Fülöp, A. Henig, S. Kruber, R. Weingartner, M. Siebold, J. Hein, C. Wandt, S. Klingebiel, A. Popp, J. Osterhoff, R. Hörlein, V. Pervak, A. Apolonskiy, F. Krausz, S. Karsch  
*Advanced Solid-State Photonics (ASSP)*, 1 February 2009, Denver, Colorado, USA, poster MB5

20. Design of an extremely-high-intensity source for nonlinear THz optics and spectroscopy  
J.A. Fülöp, L. Pálfalvi, G. Almási, J. Hebling  
*COST MP0702 (Towards Functional Sub-Wavelength Photonic Structures) MC & WG Meeting*, 26-28 October 2008, Bratislava, Slovak Republic, presentation

19. Design of an extremely-high-intensity source for nonlinear THz optics and spectroscopy  
J.A. Fülöp, L. Pálfalvi, G. Almási, J. Hebling  
*European Optical Society (EOS) Annual Meeting 2008*, Paris, France, 29 September - 02 October 2008, poster TOM 2 012

18. Novel setups for extremely high power single-cycle THz pulse generation by optical rectification  
L. Pálfalvi, J.A. Fülöp, G. Almási, J. Hebling  
*9th European Conference on Applications of Polar Dielectrics (ECAPD’9)*, Roma, Italy, 26-29 August 2008, presentation

17. Spectral transformations of amplified Cr:forsterite femtosecond pulses in gases at high pressures  
I. Bugár, D. Lorenc, A.A. Podshivalov, J.A. Fülöp, E. Goulielmakis, F. Uherek, D. Chorvat, A.M. Zheltikov, A. Apolonski, F. Krausz  
*7th European Conference on Nonlinear Optical Spectroscopy (ECONOS 2008)*, Igls near Innsbruck, Austria, 25-27 May 2008, poster

16. Generation of high-power few-cycle pulses using short-pulse optical parametric chirped-pulse amplification  
Zs. Major, J.A. Fülöp, I. Ahmad, T.-J. Wang, A. Henig, S. Kruber, R. Weingartner, M. Siebold, J. Hein, C. Wandt, S. Klingebiel, T. Clausnitzer, A. Popp, J. Osterhoff, R. Hörlein, F. Krausz, S. Karsch  
*1st International Conference on Ultra-Intense Laser Interaction Sciences (ULIS 2007)*, Bordeaux, France, 1-5 October 2007, poster

15. Short-Pulse Optical Parametric Chirped-Pulse Amplification for the Generation of High-Power Few-Cycle Pulses  
J.A. Fülöp, Zs. Major, A. Henig, S. Kruber, J. Osterhoff, R. Hörlein, F. Krausz, S. Karsch  
*18th International Congress on Photonics in Europe, European Conference on Lasers and Electro-Optics (CLEO/Europe 2007)*, Munich, Germany, 17-22 June 2007, presentation CP1-2-THU

14. Short-pulse optical parametric chirped-pulse amplification (OPCPA) for the generation of high-power few-cycle pulses
A. Henig, J.A. Fülöp, Zs. Major, S. Kruber, J. Osterhoff, R. Hörlein, F. Krausz, S. Karsch  
*Frühjahrstagung des Arbeitskreises Atome, Moleküle, Quantenoptik und Plasmen (AMOP) der DPG (Deutsche Physikalische Gesellschaft)*, Düsseldorf, Germany, 19-23 March 2007, presentation Q 19.6

13. **Shaping of Picosecond Pulses for Pumping Optical Parametric Amplification**  
J.A. Fülöp, Zs. Major, B. Horváth, F. Krausz  
*International Conference on the Interaction of Atoms, Molecules and Plasmas with Intense Ultrashort Laser Pulses (IAMPI2006)*, Szeged, Hungary, 1-5 October 2006, presentation

12. **Short-Pulse Optical Parametric Chirped-Pulse Amplification for the Generation of High-Power Few-Cycle Pulses**  
Zs. Major, J.A. Fülöp, J. Osterhoff, R. Hörlein, F. Krausz, S. Karsch  
*International Conference on the Interaction of Atoms, Molecules and Plasmas with Intense Ultrashort Laser Pulses (IAMPI2006)*, Szeged, Hungary, 1-5 October 2006, presentation

11. **Laser Based Quasi-Monochromatic Electron Acceleration**  
L. Veisz, K. Schmid, S. Benavides, U. Schramm, S. Becker, J.A. Fülöp, Zs. Major, J. Osterhoff, S. Karsch, D. Habs, F. Krausz  
*International Conference on the Interaction of Atoms, Molecules and Plasmas with Intense Ultrashort Laser Pulses (IAMPI2006)*, Szeged, Hungary, 1-5 October 2006, poster

10. **Petawatt Field Synthesizer**  
S. Karsch, J. Hein, M. Siebold, J.A. Fülöp, Zs. Major, J. Osterhoff, R. Sauerbrey, F. Krausz  
*Frühjahrstagung der Fachverbände Kurzzeitphysik Plasmaphysik der DPG (Deutsche Physikalische Gesellschaft)*, Augsburg, Germany, 27-30 March 2006, presentation K 5.4

9. **Phase-Diffusion and State-Reconstruction of the One-Atom-Maser Field**  
Th. Becker, J.A. Fülöp, P. Lugovsky, G. Marchi, E. Solano, L. Urbonas, H. Walther  
*33rd Winter Colloquium on the Physics of Quantum Electronics*, Snowbird, Utah, USA, 5-9 January 2003, presentation

8. **Fock-Zustände und Phasendiffusion im Ein-Atom-Maser**  
Th. Becker, J.A. Fülöp, G. Marchi, E. Umlauf, L. Urbonas, H. Walther  
*67. Physikertagung und Frühjahrstagung des Arbeitskreises Atome, Moleküle, Quantenoptik und Plasmen (AMOP) der DPG (Deutsche Physikalische Gesellschaft)*, Hannover, Germany, 24-28 March 2003, presentation Q 9.7

7. **Phase-Diffusion and State-Reconstruction of the One-Atom-Maser Field**  
Th. Becker, J.A. Fülöp, P. Lugovsky, G. Marchi, E. Solano, L. Urbonas, W. Schleich, H. Walther  
*XVIII International Conference on Atomic Physics (ICAP)*, Cambridge, Massachusetts, USA, 28 July-2 August 2002, poster J.28

6. **Phase-Diffusion and State-Reconstruction of the One-Atom-Maser Field**  
Th. Becker, J.A. Fülöp, P. Lugovsky, G. Marchi, E. Solano, L. Urbonas, W. Schleich, H. Walther
Deutsch-Russisches Lasersymposium, Pommersfelden, Germany, 9-16 October 2002, poster

5. Phase-Diffusion and State-Reconstruction of the One-Atom-Maser Field
Th. Becker, J.A. Fülöp, P. Lugovsky, G. Marchi, E. Solano, L. Urbonas, W. Schleich, H. Walther
2nd Annual Meeting of the Quantum Entangled States of Trapped Particles (QUEST) Research Training Network (Midterm Review), Gif sur Yvette, France, 8-10 July 2002, presentation

4. Phase-Diffusion and State-Reconstruction of the One-Atom-Maser Field
Th. Becker, S. Brattke, J.A. Fülöp, G. Marchi, J.H. Posthumus, B.T.H. Varcoe, H. Walther
1st Annual Meeting of the Quantum Entangled States of Trapped Particles (QUEST) Research Training Network, Gif sur Yvette, France, 9-19 July 2001, poster

3. Improved Two-Pass Second Harmonic Generation of Femtosecond Pulses
J.A. Fülöp, A.P. Kovács, Zs. Bor
8th International Laser Physics Workshop, Budapest, Hungary, 2-6 July 1999, presentation

2. Two-Pass Second Harmonic Generation of Ultrashort Laser Pulses
J.A. Fülöp, A.P. Kovács, Zs. Bor
5th Congress on Modern Optics, Budapest, Hungary, 15 September 1998, presentation

1. Preliminary Results of the Proton-Proton Bremsstrahlung Experiments with AGOR
H. Huisman, J.C.S. Bacelar, J.A. Fülöp, M.J. van Goethem, M.N. Harakeh, M. Hoefman, R. Holzmann, N. Kalantar-Nayestanaki, A. Kugler, H. Löhner, J.G. Messchendorp, R.W. Ostendorf, S. Schadmand, O. Scholten, R. Simon, K. Tcherkashenko, R. Turrisi, M. Volkerts, H.W. Wilschut and V. Wagner (SALAD and TAPS collaboration)
XVth International Conference on Few-Body Problems in Physics, Groningen, The Netherlands, 22-26 July 1997, poster

Domestic conferences

7. Nagy energiájú THz-es impulzusok előállítása és alkalmazása
Fülöp J.A.
Science, please! Innovatív Kutatói Team projekt zárókonferencia, 23 August 2011, Pécs, Hungary, talk

6. Szögdiszperzió alapuló fázisillesztés a nagyintenzitású lézertechnikában
Fülöp J.A., Tóth Gy., Trinn T., Hebling J.
Fizikus Vándorgyűlés 2010., 24-27 August 2010, Pécs, Hungary, poster 7

5. Extrém nagy térerősségű THz-es források tervezése
Fülöp J.A., Pálfalvi L., Almási G., Hebling J.
Fizikus Vándorgyűlés 2010., 24-27 August 2010, Pécs, Hungary, poster 6
4. Optical Parametric Amplifiers
J.A. Fülöp
*III. Hungarian ELI Symposium*, 18 November 2009, Budapest, Hungary, presentation

3. University of Pécs in ELI
J.A. Fülöp
*II. ELI-PP Szimpózium*, 20 February 2009, Budapest, Hungary, presentation

2. THz-es gerjesztési elrendezések optimalizálása, THz-es nemlineáris optika és spektroszkópia
Pálfalvi L., Fülöp J.A., Almási G., Hebling J.
*VI. Szimpózium a Hazai Kvantumelektronikai Kutatások Eredményeiről*, 17 October 2008, Budapest, Hungary, poster P-41

1. Rövid lézerimpulzusok kétutas frekvenciakétszerezése
Fülöp J.A.
*XXIV. Országos Tudományos Diákköri Konferencia (OTDK)*, Debrecen, 1999, II. helyezés az Optika, spektroszkópia tagozatban, előadás (in Hungarian)

**Other publications**

6. THz sources
ELI-PP
In: *Science and technology with ultra-intense lasers (White book)*, G. A. Mourou, G. Korn, W. Sandner, J. L. Collier (Eds.), pp. 85-88 and 375-378, THOSS Media, Berlin, (2011)

5. Nichtlineare Optik. Stimulierte Raman-Streuung
J.A. Fülöp
*Script to Advanced Laboratory Exercises for Students*, Ludwig-Maximilians-Universität München, 2005 (in German)

4. Lézerimpulzusok fázismodulációja kétutas frekvenciakétszerezésnél, valamint rezonáns közegben való terjedésnél
Fülöp J.A.
*Ph.D. thesis*, Szegedi Tudományegyetem, 2003 (in Hungarian)

3. Influence of phase modulation on the reshaping of ultrashort laser pulses in resonant three-level systems
R. Netz, T. Feurer, J.A. Fülöp
*Annual Report 2001*, Institut für Optik und Quantenelektronik, Friedrich-Schiller-Universität Jena

2. Rövid impulzusok kétutas frekvenciakétszerezése
Fülöp J.A.
*Diploma thesis*, Szegedi Tudományegyetem, 1998 (in Hungarian)
1. Proton-induced Bremsstrahlung simulations with the intra-nuclear cascade model
J.A. Fülöp
KVI Internal Report (203i), Kernfysisch Versneller Instituut (KVI), Groningen, The Netherlands, 1997