

# ***CURRICULUM VITAE***

**Dr. Aliasghar Ajami**



## ***Personalia***

**Name** Aliasghar Ajami

**Date of birth** 21<sup>th</sup> March 1972

**Citizenship** Iranian

**Marital status** Married since 1998

**Proficiency in foreign languages** English (fluent), German (medium), Arabic

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**Scopus Profile** <https://www.scopus.com/authid/detail.uri?authorId=55403165500>

## ***Employment***

Assistant Professor at faculty of Physics, **Semnan University**

## ***Research and Education***

**Dec 2014-Sep 2016** PostDoc research in **Vienna University of Technology**

Determining the two-photon absorption spectrum using supercontinuum white light

**August 2012-Dec 2014** PostDoc research in **Vienna University of Technology**

Investigating the interaction of ultrashort laser pulses (sub ten femtosecond) with material surfaces using time of flight (TOF) Mass Spectroscopy.

**July 2012** Graduation, Dr. Tech. (Ph.D.) from **Vienna University of Technology**

- 2007-2012**      Dissertation at the Vienna University of Technology, Institute of Applied Physics: “Two-photon Modification of materials with ultra-short laser radiation: Z-scan measurements and 3D-modification of selected materials”
- Feb. 1999**      Graduation, M.Sc from **Sharif University** of Technology (Tehran, Iran)
- 1998-1999**      M.Sc Thesis performed at the Faculty of Physics, **Sharif University of Technology** (Tehran, Iran): “Optimization of copper vapor laser with respect to temperature”
- 1996-1998 Technology**      Course of Studies at the Faculty of Physics, **Sharif University of Technology** (Tehran, Iran)
- Feb. 1996**      Graduation, B.Sc from **University of Isfahan** (Isfahan, Iran)
- 1991-1996**      Course of Studies at the Faculty of Physics, University of Isfahan (Isfahan, Iran)
- 1987-1991**      High school in Sabzevar (Iran)

### **Career**

**Since Sep. 2018**      Research manager of “**Laser Parto Sazan**” company in Semnan University Science & Technology Park. <https://lasersazan.com/>

**Since Sep 2016**      Assistant Professor at Faculty of physics, Semnan University.

**2010-2016**      University Assistant at the Vienna University of Technology, Institute of Applied Physics

**1999-2007**      Working as a Physics teacher in high schools and also as a lecturer in colleges

### ***Experience***

Expert in determination of optical nonlinearity  
 Experienced with reflectron mass spectroscopy  
 Expert in employing and alignment of a femtolaser amplifier  
 Experienced with 3D micro-nano structuring via multi-photon absorption  
 Experienced with 3D structuring using SLA and SLM  
 Familiar with embedding metal nanoparticles within the glass or polymers  
 Expert with LabVIEW, Origin, Mathematica, Mathcad and MATLAB

### ***Honors***

- 2009** My proposal regarding Z-scan measurements was selected as an *innovative idea* in Vienna University of Technology and granted for three years
- 1996** Member of Physics Olympiad in Iran (1996)

### ***Scientific publications***

- Publications in peer-reviewed international journals **37**
- Conference papers **35**

### ***Scientific evaluation activities since 2012.***

#### **Reviewer for:**

- Applied Optics
- J. physical chemistry
- J. of optical society of America (JOSA)
- J. of the American Ceramic Society
- Optics Express
- Optics letters
- Optical Materials
- Optical Materials Express
- Optics Communications
- Micromechines
- J. Alloys and compounds
- Applied science
- Coating
- Mateerials
- Optics
- optical materials express
- Phys. Scripta Journal
- J. physical chemistry
- Optics and photonics conference

## List of publications

### *Journal Papers:*

- [1] K. Gallas, D. Wohlmuth, Z. Li, A. Ajami, A. Ovsianikov, R. Liska, *et al.*, "Dye-labeled aromatic azides for multi-photon grafting," *Monatshefte für Chemie-Chemical Monthly*, pp. 1-8, 2022.
- [2] S. Bashir, M. S. Rafique, A. A. Ajami, C. S. Nathala, W. Husinsky, and K. Whitmore, "Femtosecond laser ablation of Zn in air and ethanol: Effect of fluence on the surface morphology, ablated area, ablation rate and hardness," *Applied Physics A*, vol. 127, pp. 1-22, 2021.
- [3] J. Švanda, Y. Kalachyova, A. **Ajami**, W. Husinsky, P. Macháč, J. Siegel, *et al.*, "Nonlinear optical properties and markedly higher two photon absorption of ordered c-shaped plasmon-active metal nanostructures," *Optical Materials*, vol. 112, 2021.
- [4] S. Najafi, A. S. Arabanian, R. Massudi, A. **Ajami**, and W. Husinsky, "Induced birefringence in glass: depletion and enhancement by orthogonal-polarized femtosecond pulses," *Applied Physics A: Materials Science and Processing*, vol. 126, 2020.
- [5] S. Bashir, M. Shahid Rafique, C. S. Nathala, A. A. **Ajami**, W. Husinsky, and K. Whitmore, "Pulse duration and environmental effects on the surface nanostructuring and mechanical properties of zinc during femtosecond laser irradiation," *Journal of the Optical Society of America B: Optical Physics*, vol. 37, pp. 2878-2891, 2020.
- [6] M. Akram, S. Bashir, S. A. Jalil, M. ElKabbash, F. Aumayr, A. **Ajami**, *et al.*, "Femtosecond laser induced periodic surface structures for the enhancement of field emission properties of tungsten," *Optical Materials Express*, vol. 9, pp. 3183-3192, 2019/07/01 2019.
- [7] R. Ahmad, M. Shahid Rafique, A. Ahmed, A. **Ajami**, P. Nekvindova, B. Svecova, *et al.*, "Femtosecond laser induced two-photon absorption in Au-ion embedded glasses," *Laser and Particle Beams*, vol. 37, pp. 61-66, 2019.
- [8] R. Ahmad, M. S. Rafique, A. **Ajami**, S. Bashir, W. Husinsky, and S. Iqbal, "Influence of laser and material parameters on two photon absorption in Rhodamine B and Rhodamine 6G solutions in MeOH," *Optik*, vol. 183, pp. 835-841, 2019/04/01/ 2019.
- [9] M. Tromayer, P. Gruber, A. Rosspeintner, A. **Ajami**, W. Husinsky, F. Plasser, *et al.*, "Wavelength-optimized Two-Photon Polymerization Using Initiators Based on Multipolar Aminostyryl-1,3,5-triazines," *Scientific Reports*, vol. 8, p. 17273, 2018/11/22 2018.

- [10] M. Tromayer, A. Dobos, P. Gruber, A. **Ajami**, R. Dedic, A. Ovsianikov, et al., "A biocompatible diazosulfonate initiator for direct encapsulation of human stem cells: Via two-photon polymerization," *Polymer Chemistry*, vol. 9, pp. 3108-3117, 2018.
- [11] A. Daskalova, A. Trifonov, I. Bliznakova, C. Nathala, A. **Ajami**, W. Husinsky, et al., "Selective cell response on natural polymer bio-interfaces textured by femtosecond laser," *Applied Physics A: Materials Science and Processing*, vol. 124, 2018.
- [12] A. S. Arabanian, S. Najafi, A. **Ajami**, W. Husinsky, and R. Massudi, "Birefringence profile adjustment by spatial overlap of nanogratings induced by ultra-short laser pulses inside fused silica," *Applied Physics A: Materials Science and Processing*, vol. 124, 2018.
- [13] A. **Ajami**, W. Husinsky, A. Ovsianikov, and R. Liska, "Dispersive white light continuum single Z-scan for rapid determination of degenerate two-photon absorption spectra," *Applied Physics B: Lasers and Optics*, vol. 124, 2018.
- [14] S. Bashir, M. S. Rafique, C. S. Nathala, A. A. Ajami, and W. Husinsky, "Femtosecond laser fluence based nanostructuring of W and Mo in ethanol," *Physica B: Condensed Matter*, vol. 513, pp. 48-57, 2017.
- [15] N. Ali, S. Bashir, I. K. Umm, M. Shahid Rafique, N. Begum, W. Husinsky, et al., "Femtosecond laser induced nanostructuring of zirconium in liquid confined environment," *Chinese Physics B*, vol. 26, 2017.
- [16] A. **Ajami**, W. Husinsky, M. Tromayer, P. Gruber, R. Liska, and A. Ovsianikov, "Measurement of degenerate two-photon absorption spectra of a series of developed two-photon initiators using a dispersive white light continuum Z-scan," *Applied Physics Letters*, vol. 111, 2017.
- [17] C. S. R. Nathala, A. **Ajami**, W. Husinsky, B. Farooq, S. I. Kudryashov, A. Daskalova, et al., "Ultrashort laser pulse ablation of copper, silicon and gelatin: effect of the pulse duration on the ablation thresholds and the incubation coefficients," *Applied Physics A: Materials Science and Processing*, vol. 122, pp. 1-8, 2016.
- [18] S. Najafi, R. Massudi, A. **Ajami**, C. S. R. Nathala, W. Husinsky, and A. S. Arabanian, "Study on contribution of the asymmetric stress to the birefringence induced by an ultrashort single laser pulse inside fused silica glass," *Journal of Applied Physics*, vol. 120, 2016.
- [19] C. S. R. Nathala, A. **Ajami**, A. A. Ionin, S. I. Kudryashov, S. V. Makarov, T. Ganz, et al., "Experimental study of fs-laser induced sub-100-nm periodic surface structures on titanium," *Optics Express*, vol. 23, pp. 5915-5929, 2015/03/09 2015.
- [20] S. I. Kudryashov, S. V. Makarov, A. A. Ionin, C. S. R. Nathala, A. **Ajami**, T. Ganz, et al., "Dynamic polarization flip in nanoripples on photoexcited Ti surface near its surface plasmon resonance," *Optics Letters*, vol. 40, pp. 4967-4970, 2015.
- [21] S. Bashir, M. S. Rafique, C. S. R. Nathala, A. **Ajami**, and W. Husinsky, "SEM and Raman spectroscopy analyses of laser-induced periodic surface structures grown by ethanol-assisted femtosecond laser ablation of chromium," *Radiation Effects and Defects in Solids*, 2015.

- [22] A. **Ajami**, W. Husinsky, B. Svecova, S. Vytykacova, and P. Nekvindova, "Saturable absorption of silver nanoparticles in glass for femtosecond laser pulses at 400 nm," *Journal of Non-Crystalline Solids*, vol. 426, pp. 159-163, 2015.
- [23] A. **Ajami**, P. Gruber, M. Tromayer, W. Husinsky, J. Stampfl, R. Liska, et al., "Evidence of concentration dependence of the two-photon absorption cross section: Determining the "true" cross section value," *Optical Materials*, vol. 47, pp. 524-529, 2015/09/01/ 2015.
- [24] Z. Li, J. Torgersen, A. **Ajami**, S. Mühleder, X. Qin, W. Husinsky, et al., "Initiation efficiency and cytotoxicity of novel water-soluble two-photon photoinitiators for direct 3D microfabrication of hydrogels," *RSC Advances*, vol. 3, pp. 15939-15946, 2013.
- [25] Z. Li, J. Torgersen, A. **Ajami**, S. Muhleder, X. Qin, W. Husinsky, et al., "Initiation Efficiency and Cytotoxicity of Novel Water-soluble Two-photon Photoinitiators for Direct 3D Microfabrication of Hydrogels," *RSC Advances*, 2013.
- [26] Z. Li, E. Stankevičius, A. **Ajami**, G. Račiukaitis, W. Husinsky, A. Ovsianikov, et al., "3D alkyne-azide cycloaddition: Spatiotemporally controlled by combination of aryl azide photochemistry and two-photon grafting," *Chemical Communications*, vol. 49, pp. 7635-7637, 2013.
- [27] Z. Li, E. Stankevicius, A. **Ajami**, G. Raciukaitis, W. Husinsky, A. Ovsianikov, et al., "3D Alkyne-azide Cycloaddition: Spatiotemporally Controled by Combination of Aryl Azide Photochemistry and Two-photon Grafting," *Chemical Communications*, 2013.
- [28] Z. Li, N. Pucher, K. Cicha, J. Torgersen, S. C. Ligon, A. **Ajami**, et al., "A straightforward synthesis and structure-activity relationship of highly efficient initiators for two-photon polymerization," *Macromolecules*, vol. 46, pp. 352-361, 2013.
- [29] Z. Li, A. **Ajami**, E. Stankevičius, W. Husinsky, G. Račiukaitis, J. Stampfl, et al., "3D photografting with aromatic azides: A comparison between three-photon and two-photon case," *Optical Materials*, vol. 35, pp. 1846-1851, 2013/08/01/ 2013.
- [30] S. Bashir, M. Shahid Rafique, A. **Ajami**, W. Husinsky, and I. K. Umm, "The growth of nanoscale periodic and dot-like structures on the surface of stainless steel with femtosecond laser pulses in the dry and wet ambient environment," *Applied Physics A: Materials Science and Processing*, vol. 113, pp. 673-681, 2013.
- [31] S. Bashir, M. Shahid Rafique, A. **Ajami**, W. Husinsky, and K. Umm i, "The growth of nanoscale periodic and dot-like structures on the surface of stainless steel with femtosecond laser pulses in the dry and wet ambient environment," *Applied Physics A: Materials Science and Processing*, pp. 1-9, 2013.
- [32] A. Ovsianikov, Z. Li, A. **Ajami**, J. Torgersen, W. Husinsky, J. Stampfl, et al., "3D grafting via three-photon induced photolysis of aromatic azides," *Applied Physics A: Materials Science and Processing*, vol. 108, pp. 29-34, 2012.
- [33] W. Husinsky, A. **Ajami**, P. Nekvindova, B. Svecova, J. Pesicka, and M. Janecek, "Z-scan study of nonlinear absorption of gold nano-particles prepared by ion implantation

- in various types of silicate glasses," *Optics Communications*, vol. 285, pp. 2729-2733, 2012.
- [34] Z. Li, M. Siklos, N. Pucher, K. Cicha, A. **Ajami**, W. Husinsky, et al., "Synthesis and structure-activity relationship of several aromatic ketone-based two-photon initiators," *Journal of Polymer Science, Part A: Polymer Chemistry*, vol. 49, pp. 3688-3699, 2011.
- [35] M. S. Rafique, S. Bashir, A. **Ajami**, W. Husinsky, A. Hobro, and B. Lendl, "Atomic force microscopy, Raman spectroscopy and nonlinear absorption properties of femtosecond laser irradiated CR-39," *Applied Physics A: Materials Science and Processing*, vol. 101, pp. 551-554, 2010.
- [36] M. S. Rafique, S. Bashir, A. **Ajami**, and W. Husinsky, "Nonlinear absorption properties correlated with the surface and structural changes of ultra-short pulse laser irradiated CR-39," *Applied Physics A: Materials Science and Processing*, vol. 100, pp. 1183-1189, 2010.
- [37] A. **Ajami**, W. Husinsky, R. Liska, and N. Pucher, "Two-photon absorption cross section measurements of various two-photon initiators for ultrashort laser radiation applying the Z-scan technique," *Journal of the Optical Society of America B: Optical Physics*, vol. 27, pp. 2290-2297, 2010.

### ***Conference Papers:***

- 1- Aliasghar Ajami**, "Two-photon absorption and its applications" presented at *the 30<sup>th</sup> Iranian Conference on Optics and Photonics* as key Lecture in Damghan, Iran, Feb 2024
- 2- Aliasghar Ajami**, Nasrin Fallah, "Fully automatic Z-scan setup for determining the nonlinear optical" presented at *The first international conference and the fourth national conference of laboratory equipment and technologies*, Tehran, Iran 2023
- 3- Aliasghar Ajami**, Soodabeh Moniri, "The effect of laser power and scanning speed on the structural resolution of productions created with stereolithography 3D printers" presented at *The national conference on technological advances in applied physics* Kerman, Iran, 2023.
- 4- Aliasghar Ajami**, Aleksandr Ovsianikov, Robert Liska, Maximilian Tromayer, Jürgen Stampfl. "3D Micro-Nano-Structuring Based on Two-Photon Polymerization". in: *The 6th International and 17th National Conference on Manufacturing Engineering ICME2021*, 2-4 March 2021, Tehran, Iran.
- 5- Aliasghar Ajami**, Dispersive White Light Supercontinuum Single Z-scan". At: *International Scientific Conference on Lasers, Optics, Photonics and Sensors* June 12-14, 2021

- 6- **Aliasghar Ajami**, Jan Svanda, Wolfgang Husinsky. "Two-photon absorption measurement of Plasmon-active nanostructures using the open-aperture Z-scan technique". In: Iranian Nano-Photonic Conference, **2020** – October 23, 24, University of Sistan and Baluchestan, Zahedan, Iran.
- 7- **Aliasghar Ajami**, Aleksandr Ovsianikov. "Multi-photon Absorption Photopolymerization: Unique Technique to build Micro-structures with Nano Resolution". In: 8<sup>th</sup> International Conference on Nanostructures (ICNS8) 20-22 April **2020**, Sharif University of Technology, TEHRAN, IRAN.
- 8- **Aliasghar Ajami**, Chandra Nathala, and Wolfgang Husinsky. "White light supercontinuum generation using femtosecond pulses". In: The 27<sup>th</sup> Iranian Conference on Optics and Photonics (ICOP 2021), and the 13<sup>th</sup> Iranian Conference on Photonics Engineering and Technology (ICPET 2021). University of Sistan and Baluchestan, Zahedan, Iran, Jan. 26-29, **2021**
- 9- **Aliasghar Ajami**, Aleksandr Ovsianokov. "3D micro-nano structuring using femtosecond laser pulses". In: Second Micro/nano technology conference (MNtech2020). Ghazwin-Iran
- 10- **Aliasghar Ajami**, Wolfgang Husinsky. "Micro-nano 3D structuring based on two-photon photopolymerization." In: The 25th Iranian Conference on Optics and Photonics (ICOP 2019), and the 11th Iranian Conference on Photonics Engineering and Technology (ICPET 2019). Shiraz-Iran
- 11- **Aliasghar Ajami**, Wolfgang Husinsky. "Sub-8 fs Pulses: a Consequence of Compressing White Light Continuum Generated by Hollow Core Fiber." In: The 24th Iranian Conference on Optics and Photonics (ICOP 2018), and the 10th Iranian Conference on Photonics Engineering and Technology (ICPET 2018). Shahrekord-Iran
- 12- Daskalova, A., I. Bliznakova, A. Trifonov, A. Popatanasov, H. Declercq, C. Nathala, **A. Ajami**, W. Husinsky and I. Buchvarov. "Femtosecond Laser Micropatterning of Chitosan Thin Films for Surface Functionalization." In *Optics InfoBase Conference Papers*, Part F82-CLEO\_Europe 2017, 2017.
- 13- **Aliasghar Ajami**, Wolfgang Husinsky. "Evidence of Concentration dependence of the two-photon absorption cross section: Determining the "true" cross section value." In: The 21<sup>th</sup> Iranian Conference on Optics and Photonics (ICOP 2015), and the 7<sup>th</sup> Iranian Conference on Photonics Engineering and Technology (ICPET 2015). Tehran-Iran
- 14- M.T. Samuel Clark Ligon, Zhiqian Li, Jan Torgersen, **Aliasghar Ajami**, Arnulf Rosspeintner, New Developments in Initiators for Two- Photon Polymerization, in: Rad Tech UV/EB 2014, 2014.
- 15- C. Gorsche, M. Tromayer, Z. Li, J. Torgersen, **A. Ajami**, A. Rosspeintner, S. Naumov, T. Scherzer, A. Ovsianikov, R. Liska:



"Efficient synthesis of two-photon initiators via one step aldol condensation";  
Poster: Photopolymerization Fundamentals 2013, Jackson Hole; 22.09.2013 -  
25.09.2013; in: "Book of Abstracts", (2013).

- 16-** B. Holzer, M. Tromayer, D. Lumpi, **A. Ajami**, E. Horkel, W. Husinsky, A. Ovsianikov, R. Liska, J. Fröhlich: "*Cap-Linker-Cap Systems as Initiators for Two-Photon Induced-Polymerization*"; Poster: LPM 2014, Vilnius; 17.06.2014 - 20.06.2014; in: "*LPM 2014 Program & Technical Digest*", (2014), S. 260.
- 17-** Z. Li, K. Cicha, **A. Ajami**, A. Rosspeintner, S. Naumov, T. Scherzer, J. Stampfl, R. Liska: "*A facial preparation and structure property relationship of novel photoinitiators for two-photon photopolymerization*"; Vortrag: 4<sup>th</sup> Bratislava Young Polymer Scientists workshop, Bratislava; 01.10.2012 - 05.10.2012; in: "*4<sup>th</sup> Bratislava Young Polymer Scientists workshop*", (2012), ISBN: 978-80-970923-2-0; S. 83.
- 18-** **A. Ajami**: "*Photo-polymerization and photo-grafting via multi-photon absorption process using ultrashort laser pulses*". In: 3rd International Conference on the Physics of Optical Materials and Devices (ICOM 2012), Belgrade/Serbia; 04.09.2012.
- 19-** Z. Li, K. Cicha, **A. Ajami**, A. Rosspeintner, S. Naumov, T. Scherzer, J. Stampfl, R. Liska: "*A Straightforward Synthesis and Structure-Property Relationship of Highly Efficient Two-photon Photoinitiators for 3D microfabrication*"; Poster: European Symposium of Photopolymer Science - ESPS 2012, Torino; 04.09.2012 - 07.09.2012; in: "*European Symposium of Photopolymer Science - Book of Abstracts*", (2012), S. 24.
- 20-** Z. Li, X.H. Qin, A. Ovsianikov, J. Torgersen, **A. Ajami**, W. Husinsky, S. Mühleder, W. Holnthoner, J. Stampfl, R. Liska: "*Novel water soluble two-photon initiators for 3D scaffold microfabrication*"; Vortrag: 5<sup>th</sup> Biomaterials Symposium, Vienna; 19.11.2012 - 21.11.2012; in: "*5<sup>th</sup> Vienna Biomaterials Symposium 19.11.-21.11.2012*", J. Stampfl (Hrg.); (2012), S. 95.
- 21-** Z. Li, X.H. Qin, A. Ovsianikov, J. Torgersen, **A. Ajami**, W. Husinsky, S. Mühleder, W. Holnthoner, J. Stampfl, R. Liska: "*Water Soluble Initiators for Two-photon Polymerization*"; Poster: The 3<sup>rd</sup> TERMIS World Congress 2012, Vienna; 05.09.2012 - 08.09.2012; in: "*Journal of Tissue Engineering and Regenerative Medicine 2012*", John Wiley & Sons, Ltd., 6/Supplement s1 (2012), ISSN: 1932-7005; S. 369.
- 22-** Z. Li, X.H. Qin, A. Ovsianikov, J. Torgersen, **A. Ajami**, J. Stampfl, R. Liska: "*3D site-specific functionalization of matrices via multi-photon grafting and subsequent click reaction*"; Poster: European Symposium of Photopolymer Science - ESPS 2012, Torino; 04.09.2012 - 07.09.2012; in: "*European Symposium of Photopolymer Science - Book*

- of *Abstracts*", (2012), S. 25.
- 23-** Z. Li, X.H. Qin, A. Ovsianikov, J. Torgersen, S. Mühleder, W. Holnthoner, **A. Ajami**, W. Husinsky, J. Stampfl, R. Liska: "*Water Soluble Initiators for Two-photon Polymerization*"; Poster: European Symposium of Photopolymer Science - ESPS 2012, Torino; 04.09.2012 - 07.09.2012; in: "*European Symposium of Photopolymer Science - Book of Abstracts*", (2012), S. 26.
- 24-** M. Tromayer, P. Gruber, **A. Ajami**, A. Rosspeintner, S. Naumov, A. Ovsianikov, J. Stampfl, R. Liska: "*Synthesis And Characterization Of Aminostyryl-1,3,5-Triazines As Initiators For Two-Photon Induced Polymerization*"; Poster: ESPS 2014, Vienna; 09.09.2014 - 12.09.2014; in: "*3rd European Symposium of Photopolymer Science*", (2014), ISBN: 978-3-9502992-9-8; S. 220.
- 25-** M. Tromayer, Z. Li, J. Torgersen, **A. Ajami**, A. Rosspeintner, S. Naumov, R. Liska: "*Preparation and characterization of novel type I/ type II photoinitiators for two-photon submicro-stereolithography*"; Poster: Austrian - Slovenian Polymer Meeting - ASPM 2013, Bled; 03.05.2013 - 05.05.2013; in: "*The Proceedings of the Austrian - Slovenian Polymer Meeting - ASPM 2013*", M. Zigon, T. Rajsp (Hrg.); (2013), 978-961-269-992-5; 307 S.
- 26-** M. Tromayer, Z. Li, J. Torgersen, **A. Ajami**, A. Rosspeintner, S. Naumov, T. Scherzer, A. Ovsianikov, R. Liska: "*Novel Highly Efficient Initiators For Two-Photon Induced Photopolimerization*"; Vortrag: RadTech Europe 2013, Basel; 15.10.2013 - 17.10.2013; in: "*Abstract Book*", (2013), S. 40.
- 27-** M. Tromayer, L. Zhiquan, E. Stankevicius, P. Gruber, **A. Ajami**, W. Husinsky, G. Račiukaitis: "*High-resolution 3D patterning via multi-photon grafting with aromatic azides*"; Poster: LPM 2014, Vilnius; 17.06.2014 - 20.06.2014; in: "*LPM 2014 Program & Technical Digest*", (2014), S. 262.
- 28-** **A. Ajami**, "*Saturation of Absorption for Silver Nanoparticles in Glass irradiated with Femtosecond Laser pulses at 400 nm*"; The 21<sup>th</sup> Iranian Conference on Optics and Photonics (ICOP 2015), and the 8<sup>th</sup> Iranian Conference on Photonics Engineering and Technology (ICPET 2015). Tehran/Iran
- 29-** **A. Ajami**, Z. Li, A. Ovsianikov, J. Torgersen, J. Stampfl, W. Husinsky: "*Effect of Concentration of Chromophores on Two-photon Absorption Cross Section*"; Poster: 50 years of nonlinear optics, NLO 50 International Symposium, Barcelona/Spain; 08.10.2012 - 10.10.2012.
- 30-** W. Husinsky, C. Nathala, **A. Ajami**, A. Assion: "*Influence of the pulse duration on the ablation threshold and the incubation coefficient of copper and silicon upon irradiation by femtosecond laser pulses*"; Poster: International Conference on Laser Ablation (COLA 2015), Cairns/Australia;

01.09.2015.

- 31-** S. Ligon, M. Tromayer, Z. Li, J. Torgersen, **A. Ajami**, A. Rosspeintner, S. Naumov, T. Scherzer, J. Stampfl, R. Liska: "*New Developments in Initiators for Two-Photon Polymerization*"; Vortrag: RadTech USA 2014, Chicago (Rosemont); 12.05.2014 - 14.05.2014.
- 32-** N. Pucher, **A. Ajami**, K. Cicha, W. Husinsky, J. Stampfl, R. Liska, Optimization of feature resolution, processing window & structuring time for the two-photon polymerization (2PP) process by the use of novel initiators", In: The 11th International Symposium on Laser Precision Microfabrication, 2010.
- 33-** A.R. Niklas Pucher, **Aliasghar Ajami**, Wolfgang Husinsky, Georg Gescheidt, Jürgen Stampfl and Robert Liska, Photochemistry and Photophysics of Two-Photon Initiators", in: RadTech Europe Conference Proceedings 2009.
- 34-** W. Husinsky, S. Bashir, M.S. Rafique, **A. Ajami**, Laser analytical probing of ultra-short-laser-matter interaction: Ejected particles and surface topography, in: AIP conference American Institute of Physics, Nagoyo, 2009, pp. 79-89.
- 35-** **A. Ajami**, M.S. Rafique, N. Pucher, S. Bashir, W. Husinsky, R. Liska, R. Inführ, H. Lichtenegger, J. Stampfl, S. Lüftenegger, Z-scan measurements of two-photon absorption for ultrashort laser radiation, in: SPIE, 2008, pp. 70271H-70271.