

Oral and Invited Contributions to Conferences

1. T. Verschooten, H. Ottevaere, M. Vervaeke, J. Van Erps, H. Thienpont, “Proof-of-concept demonstration of a Total Internal Reflection based module for fluorescence and absorbance detection using a 3D-printed syringe pump”, SPIE Photonics Europe, Vol. 9130, 2014.
2. J. Van Erps, M. Vervaeke, H. Ottevaere, A. Hermanne, H. Thienpont, “Deep Proton Writing for the rapid prototyping of polymer micro-components for optical interconnects and optofluidics”, Proc. 18th Int. Conf. on Ion Beam Modifications of Materials (IBMM), Vol. 307, pp. 243-247, 2013
3. D. De Coster, P. Wuytens, H. Ottevaere, H. Thienpont, “Ray optics in combination with the Gaussian beam propagation method for optical trapping of free-shaped particles in microfluidic systems”, Proc. SPIE, Conf. on Optical Trapping and Optical Micromanipulation X, Vol. 8810, Art. No. 88102Q, 2013.
4. M. Ritsch-Marte: A tutorial on wavefront shaping with spatial light modulators for advanced microscopy.(Tutorial) Focus on Microscopy (FOM) 2013, 24-27 March, Maastricht, The Netherlands, 2013
5. G. Thalhammer: Speeding up liquid crystals SLMs using overdrive with phase change reduction. Focus on Microscopy (FOM) 2013, 24-27 March, Maastricht, The Netherlands, 2013
6. M. Ritsch-Marte: Exploiting the flexibility of synthetic holography with spatial light modulators for optical microscopy and micro-manipulation, Kolloquium am Max Planck Institut für die Physik des Lichts, 27.05.2013, Erlangen, Germany
7. G. Thalhammer: Holographic reconstruction of optical forces. (invited talk); SPIE Optics and Photonics 2013, 25-29 August, San Diego, USA
8. M. Khoury et al, in *Microelectronic Eng.* (2014), was presented an oral contribution by Christoph Vannahme (group of Anders Kristensen) at MEE meeting in London in September 2013.
9. M Esseling, C. Denz, I. Imbrock, A. Zaltron, C. Sada, “Opto-electronic tweezers based on reduced lithium niobate”, PR’13 International conference on photorefractive effects, materials and devices, Winchester 4-6 September 2013
10. F. Simoni. Electrical tuning of optoelastic interaction in nematic colloids - 15th International Topical Meeting on Optics of Liquid Crystals, Honolulu, USA, September 30-October 4, 2013
11. F. Simoni. Electric field tuning of optoelastic trapping in liquid crystals – 7th International Japanese-Italian Workshop on Liquid Crystals, Ravenna, Italy, July 7-10, 2014
12. Role of space charges in light-induced effects in dye-doped liquid crystals – *Optical Science and Technology, SPIE’s 59th Annual Meeting*, San Diego, USA, August 17-21, 2014

13. O. M. Maragò, M. G. Donato, E. Messina, C. D'Andrea, B. Fazio, A. Magazzù, M. A. Iati, A. Irrera, and P. G. Gucciardi. "Plasmon-Enhanced Optical Manipulation and SERS with Trapped Metal Nanoparticles", NanoPlasm 2014 Conference, Cetraro (Italy) – 16-20, June 2014.
14. O. M. Maragò, M. G. Donato, E. Messina, C. D'Andrea, B. Fazio, A. Magazzù, M. A. Iati, A. Irrera, and P. G. Gucciardi. "Optical Trapping and SERS with Plasmonic Nanoparticles" 11th International Conference on Nanosciences & Nanotechnologies (NN14), Thessaloniki, Greece, 8-11 July 2014.
15. O. M. Maragò, M. G. Donato, A. Magazzù, A. Irrera, C. D'Andrea, E. Messina, B. Fazio, M. A. Iati, P. H. Jones, and P. G. Gucciardi. "Optical trapping and manipulation of nanostructures", 10th International Conference on Laser-Light and Interactions with Particles (LIP14), Marseille, France, 25-29 August 2014.
16. Lene B. Oddershede 'Spetses workshop on proteins and fibrillation', September 18, 2013.
17. Lene B. Oddershede 'HOT Nanoparticles' conference in Leiden, October 21, 2013.
18. Lene B. Oddershede 'Bio-medical day' at VRIE University, Amsterdam, November 22, 2013.
19. Lene B. Oddershede 'Biophysical Society Annual Meeting', San Francisco, February 18, 2014.
20. Lene B. Oddershede 'Lessons from phage and bacteria: Staying alive' Copenhagen, June 3, 2014.
21. D. Cody, E. Mihaylova, T. Babeva, S. Mintova, I. Naydenova, Effect of BEA Zeolite Nanoparticles on the Optical Properties of Diacetone Acrylamide-Based Photopolymer, 5th International Symposium "Advanced Micro- & Mesoporous Materials" 6 - 9 September, 2013, Golden Sands, Bulgaria
22. H. Akbari, I. Naydenova, S. Martin, Fabrication of holographic optical focussing element for use in solar concentrator, Photonics Ireland, Photonics Ireland, 4th-6th September 2013, Belfast, Northern Ireland.
23. T. Mikulchyk, S. Martin and I. Naydenova, High humidity induced irreversible changes in properties of transmission gratings recorded in acrylamide-based photopolymer layers, Photonics Ireland, Photonics Ireland, 4th-6th September 2013, Belfast, Northern Ireland.
24. Tatsiana Mikulchyk, Suzanne Martin and Izabela Naydenova, Investigation of the humidity sensitivity of acrylamide-based photopolymer containing N-phenylglycine as a photoinitiator, II International Conference on Applications of Optics and Photonics, Aveiro, Portugal, May 26-30th, 2014
25. H. Akbari, I. Naydenova, S. Martin, Design and fabrication of a holographic structure with an increased angular and wavelength range of operation for application in solar collectors, II International Conference on Applications of Optics and Photonics, Aveiro, Portugal, May 26-30th, 2014

26. D. Cody, E. Mihaylova, L. O'Neill, T. Babeva, H. Awala, R. Retoux, S. Mintova, I. Naydenova, Diacetone Acrylamide-based Holographic Nanocomposite for Sensing Applications, II International Conference on Applications of Optics and Photonics, Aveiro, Portugal, May 26-30th, 2014
27. SPIE Laser Resonators, Microresonators, and Beam Control XVI, 1-6 Feb. 2014, San Francisco Alper Kiraz, "Droplet resonator based optofluidic microlasers".
28. CLEO:2014 – Laser Science to Photonic Applications, 8-13 June 2014, San Jose Ersan Özenci, "Miniature droplet-based FRET lasers stabilized by superhydrophobic surfaces".
29. E. Brasselet, "Management of the photon orbital angular momentum at small scale", Special Symposium on "Enabling Photonics Technologies for Miniaturization", CLEO America 2014, San Jose, USA (8-13/06/2014).
30. E. Brasselet, "Localized Topological Structures in Liquid Crystals: Generation, Manipulation and Applications", 11th International Symposium on Electrokinetics phenomena, Ghent, Belgium (20-23/05/2014).
31. E. Brasselet, "Optical vortex generation at small scale" Structured Light in Structured Media From Classical to Quantum Optics – OSA Incubator, Washington, USA (29/09-01/10/2013).
32. M. El Ketara and E. Brasselet, "Topological reorientation of liquid crystals with optical vortices", SPIE Optics+Photonics 2013, Liquid Crystals XVII, San Diego, USA (25-29/08/2013).
33. A. Filipkowski , D. Pysz , B. Siwicki, A. Waddie, M. Taghizadeh , R. Stępień , and R. Buczyński, Optical properties of nanostructured all-glass micro-axicons, Proc of. 15th Conference on Optical Fibers and Their Applications, Białystok – Lipowy Most 29.01-1.02.2014, Poland
34. H. Chraïbi "Simulation of the interactions of a laser beam with interfacial fluid systems", Euromech Colloquium 555, Bordeaux (28-30 August 2013)
35. J. Burgin, S. Si, M.-H. Delville, J. P. Delville, "Hybrid dielectric-metal raspberries as a demonstrator of the enhancing role of nanoscale features on the optofluidic manipulation of micro-objects", "Novel Optical Materials and Applications" NOMA 2013/COST Meeting "Advances in Optofluidics", Cetraro, Italy (10-15 June 2013)
36. U. Delabre, "Deformations of phospholipids vesicles in an optical stretcher", "Novel Optical Materials and Applications" NOMA 2013/COST Meeting "Advances in Optofluidics", Cetraro, Italy (10-15 June 2013)
37. O. Brzobohaty, V. Karasek, M. Siler, L. Chvatal, T. Cizmar (St. Andrews) and P. Zemanek Experimental demonstration of optical transport, sorting and selfarrangement using a "tractor beam" San Diego 25-29.8.2013, Optical trapping and optical micromanipulation X
38. V. Karasek and P. Zemanek Optical sorting due to optical binding San Diego 25-29.8.2013, Optical trapping and optical micromanipulation X

39. Alper Kiraz (Koc University), Alexandr Jonas (Koc University), Oto Brzobohaty (ISI Brno), Jan Jezek (ISI Brno), Zdenek Pilat (ISI Brno), Pavel Zemanek (ISI Brno), Mehdi Aas, (Koc University) Tunable optofluidic microlasers based on optically stretched emulsion droplets San Diego 25-29.8.2013, Optical trapping and optical micromanipulation X
40. O. Samek, P. Zemanek, S. Bernatova, J. Jezek, M. Sery, P. Jakl, M. Siler, (ISI Brno), F. Ruzicka (Faculty of Medicine and St. Anne's Faculty Hospital, Czech Republic), Monitoring the influence of antibiotic exposure using Raman spectroscopy, San Francisco 1.2.-6.2.2014, Photonics West 2014
41. Z. Pilat, J. Jezek, J. Kanka, P. Zemánek, Raman tweezers in microfluidic systems for analysis and sorting of living cells, San Francisco 1.2.-6.2.2014, Photonics West 2014
42. Silvie Bernatova, Ota Samek, Zdenek Pilat, Mojmir Sery, Jan Jezek, Petr Jakl, Martin Siler, Vladislav Krzyzanek, Pavel Zemanek (ISI Brno), Veronika Hola, Milada Dvorackova, and Filip Ruzicka (Faculty of Medicine and St. Anne's Faculty Hospital, Czech Republic) Raman tweezers on bacteria: Following the mechanisms of bacteriostatic versus bactericidal action Brussels, 14.-17.4.2014, Photonics Europe 2014
43. P. Zemanek, O. Brzobohaty, M. Siler, V. Karasek, L. Chvatal Behaviour of optically bound particles in laser beams Yokohama, 22.-24.4.2014, Optical manipulation conference'14
44. Ota Samek, Silvie Bernatova, Jan Kanka, Jan Jezek, Zdenek Pilat, Pavel Zemanek (ISI Brno) J. Kaiser, K. Novotny, L. Sladkova (CEITEC Brno) P. Porizka (Brno University of Technology) Algal Biomass Analysis for the Application in the Field of Biofuels, Food Industry and Bioremediation Hamburg, 25.6.2014, Algae 2014 Event,.
45. Pal Ormos, "Modelling biological motion with light driven microstructures" From solid state to biophysics, June 7-14, Dubrovnik, Croatia,
46. P. Ormos et. al Chromoproteins offer new possibilities in optoelectronics International Conference on Biological Physics June 18-23 , 2014 Beijing
47. A Mathesz, L Fábíán, S Valkai, D. Alexandre, P V.S. Marques, P Ormos, E K. Wolffand A Dér "High-speed integrated optical logic based on the protein Bacteriorhodopsin" Straub days, May 29-30, 2013, Szeged, Hungary
48. "Stimuli-responsive materials as sensors and actuators in microfluidic devices", Larisa Florea, Aishling Dunne, Dermot Diamond, Ireland-China ISCP Consortium Symposium on Nanoscience, Dublin, Ireland, 12-14 May 2014. (invited talk)
49. Á. Barroso, C. Alpmann, and C. Denz, "Exploring biophysics of cell dynamics with holographic optical tweezers", SPIE Optics and Photonics OTOM 2013, 25.-29.08.2013
50. M. Esseling, A. Zaltron, J.Imbrock, : Opto-electronic tweezers based on reduced lithium niobate, Photorefractives Conference, Winchester, 4- 6 September 2013
51. Wolfgang Horn, S.Kroesen, and C.Denz, Fabrication of distributed feedback dye lasers by direct femtosecond laser writing, DPG Spring Meeting 2014

52. K. Dieckmann, Á. Barroso, C. Alpmann, and C. Denz, "Optical arrangement of zeolite L nanocontainers for guiding light" , 17. Conference of female Physicists, 31.10.-03.11.2013, Heidelberg (Germany)
53. G. Cipparrone "Cholesteric microparticles: chiral optomechanics and microphotonics" Workshop of Liquid Crystals for Photonics, Erice, Italia 03-06/ 09-2014 (invited).
54. G. Cipparrone "Soft matter based chiral optomechanics: perspectives for optofluidics and microphotonics" General meeting Cost Action IC1208, Pagra, Repubblica Ceca 18-19/ 09-2014 (invited)
55. Mäki, A-J, Kreuzer, J., and Kallio, P. "Modelling Drug Delivery in Gravity-Driven Microfluidic System". Proceedings of the ASME 2014 4th Joint US-European Fluids Engineering Division Summer Meeting and 12th International Conference on Nanochannels, Microchannels, and Minichannels, FEDSM2014, Chicago, Illinois, USA, August 2014.
56. Ana Rita Ribeiro, Raquel Barbosa Queirós, Ariel Guerreiro, Carolle Ecoffet, Olivier Soppera, Pedro Jorge, "Fiber Optical Beam Shaping Using Polymeric Structures". 23rd International Conference on Optical Fibre Sensors, (June 2, 2014).
57. International Liquid Crystal Conference, Dublin, Ireland: "'Multiscale models of liquid crystals dispersions of nanoparticles".
58. OSA Nonlinear Optics Congress, Barcelona, Spain (session on "All-optical devices and applications): "Bistable optical propagation in nematic liquid crystals".
59. British Liquid Crystal Society Conference, Durham, UK: Multi-scale modelling of nanoparticle dispersions in nematic liquid crystals"
60. International Conference on Photorefractive Effects, Materials and Devices, Winchester, UK: "Surface-driven, light-activated modulation and coupling in integrated polymer-liquid crystal systems", "Hybrid, photorefractive liquid crystal cells using a bistriarylamine-based photorefractive polymer" "The effect of the size and functionalization of gold nanoparticles on the non- linearity of hybrid photorefractive cells"
61. SPIE Optics and Photonics Conference, San Diego, US: "Liquid crystals in hybrid configurations - electro-optic and spectroscopic studies"
62. Optics of Liquid Crystals Conference, US: "Frequency-voltage mapping of electrical and optical response of hybrid liquid crystals"
63. M. G. Donato, J. Hernandez, A. Mazzulla, C. Provenzano, R. Saija, M.A. Iatì, A. Magazzù, P. Pagliusi, R. Bartolino, P. G. Gucciardi, O. M. Maragò and G. Cipparrone. "Polarization dependent optical trapping of chiral microresonators" 10th International Conference on Laser-Light and Interactions with Particles (LIP14), Marseille, France, 25-29 August 2014.
64. T. Cizmar, Photonics in Disordered Environments and Fibre Based Imaging Computational Optical Sensing and Imaging (COSI) 22 - 26 June 2014, The Fairmont Orchid, Kohala Coast, Hawaii, USA

65. 13 Cost members were invited speakers at the conference “Trends in Optical Micromanipulation”, Obergurgl, Austria, January 2015.
66. Alper Kiraz “Dye Lasing and Laminar Flow-Induced Dissolution in Hydrodynamically Trapped Oil Microdroplets”. : OSA Optical Trapping Applications (OTA) Conference, 12-15 Apr. 2015, Vancouver (invited talk)
67. Alper Kiraz “Hydrogen gas sensing using palladium-coated microdisk microresonators”. SPIE Photonics West, 7-12 Feb. 2015, San Francisco
68. Berna Yalızay “Optofluidic waveguides written in hydrophobic silica aerogels with a femtosecond laser”. SPIE Photonics West, 7-12 Feb. 2015, San Francisco
69. L.Criante, F. Di Fonzo, F.Fumagalli, G.Lanzani, L.Passoni, F.Scotognella, F.Simoni - Periodic nanostructures for tunable thin optics - SPIE Optics+Photonics, San Diego, USA, August 28th - Sept. 1st2015 - *Invited lecture*
70. L. Lucchetti, F.Vita, E.Scharrer, O.Francescangeli, F.Simoni –Giant nonlinear optical response in the cybotacticnematic phase of bent-core mesogens - OLC '2015 ,Sopot, Poland, Sept.13th - 18th 2015
71. Lóránd Kelemen, Badri Lakshmanrao Aekbote, Gaszton Vizsnyiczai, Pál Ormos: Functionalization of two-photon polymerized microtools for biological applications, LAMP2015, The 7th International Congress on Laser Advanced Materials Processing, May 26 - 29, 2015 Kitakyushu, Fukuoka, Japan, *Invited lecture*.
72. Roberto Di Leonardo, Péter Galajda, Lóránd Kelemen, Anna Mathesz, László Oroszi, Tamás Vicsek, Gaszton Vizsnyiczai, Pál Ormos: Light driven photopolymerised microstructures to model biological motion, András Búzás, LAMP2015, The 7th International Congress on Laser Advanced Materials Processing, May 26 - 29, 2015 Kitakyushu, Fukuoka, Japan, *Invited Lecture*
73. 7 Cost members were invited speakers at the conference PIERS 2015 “Advanced Optofluidics: optical control and photonics with fluid matters ”, Czech Republic, July 6th - 9th 2015 (<http://piers.org/piersproceedings/piers2015Prague.php>).
- Chiral Optofluidics. G. Cipparrone
 - Localized Fluorescence Enhancement with Gold-coated Microtools, Pál Ormos
 - Lab on a chip integrated light source: the femto-laser direct writing design for a new fabrication route. Luigino Criante.
 - Light-induced Bulk Flows, Jean-Pierre Delville
 - Organic Dye DFB Laser Sensor Arrays for Image Refractometry, Anders Kristensen
 - Light at Work: Optical Delivery, Sorting and Self-assembly of Microobjects, Pavel Zemanek
 - Optofluidic Platforms for Miniaturized Biomedical Analysis Systems, Christian Karnutsch
74. D. E. Lucchetta, F.Simoni, L.Nucara, R.Castagna - Light moves macro-objects - PIERS 2015 Prague, Czech Republic, July 6th - 9th 2015
75. SPIE Photonics West 2016, February 2016, San Francisco California, 3D light robotics (*Invited Paper*), Jesper Gluckstad, Technical Univ. of Denmark, (Denmark)

76. SPIE Photonics West 2016, February 2016, San Francisco California, Cell sorting using efficient light shaping approaches, Jesper Gluckstad, Technical Univ. of Denmark, (Denmark).
77. SPIE Photonics West 2016, February 2016, San Francisco California Plasmon-assisted material transport using optically actuated microtools (*Invited Paper*), Mark Jayson M. Villangca, Darwin Palima, Andrew R. Banas, Jesper Gluckstad, DTU Fotonik (Denmark).
78. SPIE Photonics West 2016, February 2016, San Francisco California, Optical binding between nanowires (*Invited Paper*), Simon Hanna, Univ. of Bristol (United Kingdom); Stephen H. Simpson, Academy of Sciences of the Czech Republic (Czech Republic).
79. 6th International Multidisciplinary Conference on Optofluidics, July 24 - 27, 2016, Beijing, China. Advances in Optofluidic Microlasers Francesco Simoni, MC members, Italy
80. 5 Cost members were invited speakers at the conference PIERS 2016 “Advanced Optofluidics: optical control and photonics with fluid matters ”, Shangai , August 2016, (<http://www.piers.org/piers2016Shanghai/programfinal.php>).
- Integrated Optofluidics: Optical Control of Particles and Droplets in Fluidic Environments. Cornelia Denz.
 - Lasing in Optofluidic Ring Resonators with Aqueous Quantum Dots as Their Gain Medium and the Prospects of Such Lasers for Biochemical Sensing. Alper Kiraz
 - Three-dimensional on-chip Tunable Microlenses by Femtosecond Micro-machining. Luigino Criante.
 - Label-free Sensing in Optofluidics. Anders Kristensen.
 - Lasing from Liquid Crystal Droplets Generated in a Microfluidic Device. Daniele Lucchetta.