

➤ PUBLICATIONS

• BOOKS

1. “Optofluidics, Sensors and Actuators in Microstructured Optical Fibres” Editors, S. Pissadakis and S. Selleri, Woodhead Publishing Ltd (2015)

• BOOK CHAPTERS

2. “Laser processing of optical fibres: new photosensitivity findings, refractive index engineering and surface structuring,” in Laser growth and processing of photonic devices, Editor N.A.Vainos, Woodhead Publishing Ltd (2012)

3. “Fiber Optic–based Pressure Sensing Surface for Skin Health Management in Prosthetic and Rehabilitation Interventions” in Biomedical Engineering, Editor R.Hudak, InTech Press (2012)

• JOURNAL PUBLICATIONS

1. N.A. Vainos, S. Mailis, S. Pissadakis, L. Boutsikaris, P.J.M. Parmiter, P. Dainty, and T.J. Hall, Excimer laser use for microetching computer-generated holographic structures, Appl. Opt. **35**, pp. 6304-6319 (1996)

2. S. Pissadakis, S. Mailis, L. Reekie, J.S. Wilkinson, R.W. Eason, N.A. Vainos, K. Moschovis, G. Kiriakidis, Permanent holographic recording in indium oxide thin films using 193nm excimer laser radiation, Appl. Phys. A **69**, pp.333-336 (1999)

3. S. Pissadakis, L. Reekie, M. Hempstead, M.N. Zervas, J.S. Wilkinson, Ablated gratings on borosilicate glass by 193nm excimer laser radiation, Appl. Phys. A **69**, pp. S739-S741 (1999)

4. S. Mailis, L. Reekie, S. Pissadakis, S.J. Barrington, R.W. Eason, N.A. Vainos, C. Grivas, Large photo-induced refractive index changes in pulsed laser deposited lead germanate glass waveguides with controllable refractive index sign change, Appl. Phys. A **69**, pp. S671-S674 (1999)

5. S. Pissadakis, L. Reekie, M. Hempstead, M.N. Zervas, J.S. Wilkinson, Relief gratings on Er/Yb-doped borosilicate glasses and waveguides by excimer laser ablation, Appl. Surf. Sc. **153**, pp. 200-210 (2000)

6. S. Pissadakis, L. Reekie, M.N. Zervas, J.S. Wilkinson, G. Kiriakidis, Gratings in indium oxide film overlayers on ion-exchanged waveguides by excimer laser micromachining, Appl. Phys. Lett. **78**, pp. 694-696 (2001)

7. S.Pissadakis, M.N.Zervas, D.A.Sager, J.S.Wilkinson, Superstrate index control of waveguide grating reflectivity, Opt. Lett. **27**, pp. 327-329 (2002)

8. S.Pissadakis, L.Reekie, M.N.Zervas, J.S.Wilkinson, Sub-micron period relief gratings in InO_x thin films and waveguides, patterned using 248nm excimer laser ablation, J. Appl. Phys. **95**, pp.1634-1641 (2004)

9. S.Pissadakis, A.Ikiades, C.Y.Tai, N.P.Sessions, J.S.Wilkinson, Sub-micron period grating structures in Ta₂O₅ thin oxide films patterned using UV laser post-exposure chemically assisted selective etching, Thin Solid Films **453-454C**, pp. 458-461 (2004)

10. S.Pissadakis, A.Ikiades, P.Hua, A.K.Sheridan, J.S.Wilkinson, Photosensitivity of ion-exchanged Er-doped phosphate glasses using 248nm excimer laser radiation, Opt. Express **12**, pp. 3131-3136 (2004)

11. S.Pissadakis, M.N.Zervas, L.Reekie, J.S.Wilkinson, High reflectivity Bragg gratings fabricated by 248nm excimer laser holographic ablation in thin Ta₂O₅ films overlaid on glass waveguides, Appl. Phys. A **79**, pp. 1093-1096 (2004)
12. S.Pissadakis, M.Konstantaki, Photosensitivity of Ge-doped silica fibres under 213nm, picosecond Nd:YAG irradiation, Opt. Express **13**, pp. 2605-2610 (2005)
13. S.Pissadakis, L.Reekie, An elliptical Talbot interferometer for fiber Bragg grating fabrication, Rev. Sci. Instr. **76**, pp. 066101-066103 (2005)
14. S.Pissadakis, A.Ikiades, P.Hua, A.K.Sheridan, J.S.Wilkinson, Strong refractive index changes induced in Ag⁺ ion-exchanged Er-doped phosphate glass using 248nm excimer laser radiation, Glass Technol. **46**, pp. 76-79 (2005)
15. R.Böhme, S.Pissadakis, M.Ehrhardt, D.Ruthe and K.Zimmer, Ultra-short laser processing of transparent material at the interface to liquid, J. Phys. D **39**, pp. 1398–1404 (2006)
16. G.Violakis, M.Konstantaki, S.Pissadakis, Accelerated Recording of Negative Index Gratings in Ge-doped Optical Fibres Using 248nm, 500fs Laser Radiation, IEEE Photonics Technol. Lett. **18**, pp. 1182- 1184 (2006)
17. M.Konstantaki, S.Pissadakis, S.Pispas, N.Madamopoulos, N.Vainos, An optical fibre long-period grating humidity sensor utilizing PEO/CoCl₂ outcladding overlayers, Applied Optics **45**, pp. 4567-4571 (2006)
18. R.Böhme, S.Pissadakis, S.Ruthe, K.Zimmer, Laser backside etching of fused silica with ultrashort pulses, Appl. Phys. A **85**, pp. 75-78 (2006)
19. K.Zimmer, R.Böhme, S.Pissadakis, L.Hartwig, G.Reisse and B.Rauschenbach, Backside etching of fused silica with Nd:YAG laser, Appl. Surf. Sc. **253**, pp. 2796-2800 (2006)
20. C.Pappas, S.Pissadakis, Periodic Nanostructuring of Er/Yb-codoped IOG1 Phosphate Glass by using ultraviolet laser-assisted Selective Chemical Etching, J. Appl. Phys. **100**, pp. 114308 (2006)
21. S.Pissadakis, R.Böhme, K.Zimmer, Sub-micron periodic structuring of sapphire crystal by LIBWE, Opt. Expr. **15**, pp. 1428-1433 (2007)
22. M.Stroisch, T.Woggon, U.Lemmer, G.Bastian, G.Violakis, S.Pissadakis, Organic semiconductor distributed feedback laser fabricated by direct laser interference ablation, Opt. Expr. **15**, pp. 3968-3973 (2007)
23. S.Pissadakis, C.Pappas, Planar periodic structures fabricated in Er/Yb-codoped phosphate glass using multi-beam ultraviolet laser holography, Opt. Expr. **15**, pp. 4296-4303 (2007)
24. C.Pappas, S.Pissadakis, UV-assisted selective chemical etching of submicron period relief gratings in Er/Yb-codoped IOG1 phosphate glass, J. Phys. Conf. Ser. **59**, pp. 310-313 (2007)
25. R.Böhme, S.Pissadakis, M.Ehrhardt, T.Rudolph, D.Ruthe, and K.Zimmer, Backside etching of fused silica with ultra-short laser pulses at the interface to absorbing liquid, J. Phys. Conf. Ser. **59**, pp. 173-176 (2007)
26. M.Livitziis, S.Pissadakis, Bragg grating recording in low-defect optical fibers using ultraviolet femtosecond radiation and a double-phase mask interferometer, Opt. Lett. **33**, pp. 1449-1451 (2008)
27. S.Pissadakis and I.Michelakaki, Photosensitivity of the Er/Yb-codoped Schott IOG1 phosphate glass using 248nm, femtosecond and picosecond laser radiation, Laser Chemistry Volume 2008, Article ID 868767, 7 pages, doi:10.1155/2008/868767
28. S.Pissadakis, C.Pappas, Nanostructuring of photonic crystals in phosphate glass substrates using ultraviolet laser beams, Int. J. Nanotechnol. **6**, pp. 99-111 (2009) (*invited*)

29. S.Pissadakis, M.Livitziis, G.D.Tsibidis, J.Kobelke and K.Schuster, "Type IIA Grating Inscription in a Highly Non-Linear Microstructured Optical Fiber," IEEE Photonics Technol. Lett. **21**, pp. 227-229 (2009)
30. I.Michelakaki, S.Pissadakis, Atypical behaviour of the surface hardness and the elastic modulus of a phosphate glass matrix under 193nm laser irradiation, Appl. Phys. A **95**, pp. 453-456 (2009)
31. S. Pissadakis, M. Livitziis, G.D. Tsibidis, Investigations on the Bragg Grating Recording in Standard and All-silica Microstructured Optical Fibers Using Picosecond 248nm, Laser Radiation, Journal of the European Optical Society – Rapid Publications – JEOS **4**, pp. 09049 (2009)
32. A. Candiani, M. Konstantaki, W. Margulis, S. Pissadakis, A spectrally tunable microstructured optical fibre Bragg grating utilizing an infiltrated ferrofluid, Opt. Express **18**, pp. 24654-24660 (2010)
33. M. Konstantaki, A. Candiani, S. Pissadakis, Optical fibre long period grating spectral actuators utilizing ferrofluids as outcladding overlayers, JEOS **6**, pp. 11007 (2011)
34. M. Sozzi, A. Rahman, S. Pissadakis, Negative refractive index gratings recorded in a phosphate glass optical fibre using 248nm, 500fs laser radiation, Opt. Mat. Express **1**, pp. 121-127 (2011)
35. M. Konstantaki, S. Pissadakis, Optically tunable long period fiber gratings utilizing a photochromic out-cladding overlayer, Opt. Fiber Technol. **17**, pp. 168-170 (2011)
36. P. Childs, A. Candiani, S. Pissadakis, Optical fiber cladding ring magnetic field sensor, IEEE Photonics Technol. Lett. **23**, pp. 929 - 931 (2011)
37. A. Candiani, W. Margulis, C. Sterner, M. Konstantaki, and S. Pissadakis, Phase defected Bragg gratings realized in microstructured optical fibres utilizing infiltrated ferrofluids, Opt. Lett. **36**, pp. 2548-2550 (2011)
38. M. Malinauskas, A. Gaidukeviciute, V. Purlysa, A. Zukauskasa, I. Sakellari, E. Kambouraki, A. Candiani, S. Pissadakis, R.Gadonas, A.Piskarskas, C. Fotakis, M. Vamvakaki, and M. Farsari, Direct laser writing of microoptical structures using a Ge-containing hybrid material, Metamaterials **5**, pp. 135-140 (2011)
39. A. Candiani, M. Sozzi, A. Cucinotta, S. Selleri, R. Veneziano, R. Corradini, R. Marchelli, P. Childs, and S. Pissadakis, Optical fiber ring cavity sensor for label-free DNA detection, IEEE Journal of Selected Topics in Quantum Electronics **18**, pp. 1176-1183 (2012)
40. M. Konstantaki, A. Klini, D. Anglos, S. Pissadakis, An ethanol vapour detection probe based on a ZnO nanorod overlaid optical fibre long-period grating, Optics Express **20**, pp. 8472-8484 (2012)
41. I. Konidakis, G. Zito, and S. Pissadakis, Photosensitive, all-glass AgPO₃/silica photonic bandgap fiber, Opt. Lett. **37**, pp. 2499-2501 (2012)
42. M. Malinauskas, A. Žukauskasa, V. Purlysa, A. Gaidukevičiūtė, Z. Balevičius, A. Piskarskas, C. Fotakis, S. Pissadakis, D. Gray, R. Gadonas, M. Vamvakaki, M. Farsari, 3D microoptical elements formed in a photostructurable germanium silicate by direct laser writing, Optics and Lasers in Engineering **50**, pp. 1785-1788 (2012)
43. A. Candiani, W. Margulis, C. Sterner, M. Konstantaki, and S. Pissadakis, Optofluidic magnetometer developed in a microstructured optical fibre Opt. Lett. **37**, pp. 4467-4469 (2012)
44. M. Konstantaki, P. Childs, M. Sozzi, S. Pissadakis, Relief Bragg reflectors inscribed in solid core photonic crystal fibres, Laser & Photonic Reviews **7**, pp. 439-443 (2013)
45. K. Kosma, G. Zito, K. Schuster and S. Pissadakis, Whispering gallery mode microsphere resonator integrated inside a microstructured optical fiber, Opt. Lett. **38**, pp. 1301-1303 (2013) (**Top-10 download for April 2013**)

46. A. Candiani, A. Bertucci, S. Giannetti, M. Konstantaki, W. Margulis, A. Manicardi, S. Pissadakis, A. Cucinotta, R. Corradini, and S. Selleri, Label-free DNA biosensor based on a Peptide Nucleic Acid-functionalized microstructured optical fiber Bragg grating, *J. Biomed. Opt.* **18**, 057004 (2013)
47. A. Candiani, M. Bravo, S. Pissadakis, M. Lopez-Amo, and S. Selleri, Magnetic field sensor based on backscattered intensity using ferrofluid, *IEEE Photonics Technol. Lett.* **25**, pp. 1481 – 1484 (2013)
48. G. Zito, S. Pissadakis, Holographic polymer-dispersed liquid crystal Bragg grating integrated inside a solid core photonic crystal fiber, *Opt. Lett.* **38**, pp. 3253-3256 (2013)
49. I. Konidakis, M. Androulidaki, G. Zito, S. Pissadakis, Growth of ZnO nanolayers inside the capillaries of photonic crystal fibres, *Thin Solid Films* **555**, pp. 76-80 (2014)
50. A. Candiani, A. Argyros, R. Lwin, S.G. Leon-Saval, S. Selleri, S. Pissadakis, A loss-based, magnetic field sensor implemented in a ferrofluid infiltrated microstructured polymer optical fiber, *Appl. Phys. Lett.* **104**, pp. 111106 (2014)
51. I. Konidakis, G. Zito, S. Pissadakis, Silver plasmon resonance effects in AgPO₃/silica photonic bandgap fiber, *Opt. Lett.* **39**, pp. 3374-3377 (2014)
52. R. Blue, A. Duduś, M. Konstantaki, S. Pissadakis, and D. Uttamchandani, Investigation of the optical transmission characteristics of an LPG using a liquid droplet overlay, *Micro & Nano Letters* **9**, pp. 399 – 402 (2014)
53. I. Konidakis, S. Pissadakis, Optical Spectra Tuning of All-Glass Photonic Bandgap Fiber Infiltrated with Silver Fast-Ion-Conducting Glassy Materials, *Materials MDPI* **7**, pp. 5735-5745 (2014)
54. K. Kosma, I. Konidakis and S. Pissadakis, Photorefractive tuning of whispering gallery modes of a spherical resonator integrated inside a microstructured optical fibre, *European Physical Journal-ST* **223**, pp. 2035–2040 (2014)
55. A. Bertucci, A. Candiani, S. Giannetti, A. Manicardi, A.M. Cucinotta, G. Spoto, M. Konstantaki, S. Pissadakis, S. Selleri, R. Corradini, Detection of Unamplified Genomic DNA by a PNA-based Microstructured Optical Fiber (MOF) Bragg-Grating Optofluidic system, *Biosensors and Bioelectronics* **63**, pp. 248-254 (2015)
56. A. Klini, S. Pissadakis, R.N. Das, E.P Giannelis, S.H. Anastasiadis and D. Anglos, ZnO-PDMS nanohybrids: A novel optical sensing platform for ethanol vapour detection at room temperature, *J. Phys. Chem. C* **119**, pp. 623–631 (2015)
57. V. Melissinaki, M. Farsari, S. Pissadakis, Fabry-Perot vapour microsensor onto fibre endface fabricated by multiphoton polymerization technique, *IEEE Journal of Selected Topics in Quantum Electronics* **21**, pp. 5600110 (2015)
58. I. Konidakis, M. Konstantaki, G.D. Tsididis, S. Pissadakis, A light driven optofluidic switch developed in a ZnO-overlaid microstructured optical fiber, *Opt. Express* **23**, pp. 31496-31509 (2015)- **Listed in the Virtual Journal for Biomedical Optics**
59. K. Milenko, I. Konidakis, S. Pissadakis, Silver iodide phosphate glass microsphere resonator integrated on an optical fiber, *Optics Lett.* **41**, pp. 2185-2188 (2016)
60. V. Melissinaki, I. Konidakis, M. Farsari, S. Pissadakis, Fiber endface Fabry-Perot microsensor with distinct response to vapors of different chlorinated organic solvents, *IEEE Sensors Journal* **16**, pp. 7094–7100 (2016)
61. E. Tagoudi, K. Milenko, S. Pissadakis, Inter-core Coupling Effects in Multi-core Optical Fiber Tapers using Magnetic Fluid Out-claddings, *J. Lightwave Technol.* **34**, pp. 5561-5565 (2016)- **Cover-page article**

62. V. Melissinaki, M. Farsari, S. Pissadakis A fiber optic Fabry-Perot cavity sensor for the probing of oily samples, *MDPI Fibers* **5**, pp. 1 (2017)
63. A. Candiani, M. Konstantaki, A. Pamvouxoglou, S. Pissadakis, A smart pad for shear stress sensing in rehabilitation applications, *IEEE Journal of Selected Topics in Quantum Electronics* **21**, pp. 5600307 (2017)
64. M. Barozzi, A. Manicardi, A. Vannucci, A. Candiani, M. Sozzi, M. Konstantaki, S. Pissadakis, R. Corradini, S. Selleri, and A. Cucinotta, Optical Fiber Sensors for Label-free DNA Detection, *J. Lightwave Technol.* **35**, pp. 3461-3472 (2017)
65. R. Gassino, Y. Liu, M. Konstantaki, A. Vallan, S. Pissadakis and G. Perrone, A Fiber Optic Probe for Tumor Laser Ablation with Integrated Temperature Measurement Capability, *J. Lightwave Technol.* **35**, pp. 3447-3454 (2017)
66. K. Milenko, S. Pissadakis, G. Gkantzounis, A. Aluculesci, G. Fytas, Probing stress induced optical birefringence of glassy polymers by whispering gallery modes light localization, *ACS Omega* **2**, pp. 9127-9135 (2017)
67. K. Kosma, K. Schuster, J. Kobelke, S. Pissadakis, An “in-fiber” Whispering-Gallery-Mode bi-sphere resonator, sensitive to nanometric displacements, *Appl. Phys. B* **124**, pp. 1-8 (2018)
68. G. Violakis, N. Korakas, S. Pissadakis, A differential loss magnetic field sensor using a ferrofluid encapsulated D-shaped optical fiber, *Opt. Lett.* **43**, pp. 142-145 (2018)
69. D. Pugliese, M. Konstantaki, E. Ceci-Ginistrelli, N. Boetti, D. Milanese, S. Pissadakis, A Bioresorbable Phosphate Glass Optical Fiber Bragg Gratings sensor, *Optics Letters* **43**, pp. 671-674 (2018)
70. G. Violakis, S. Pissadakis, A double guidance mechanism, nitroaniline based microstructured optical fiber, *Scientific Reports* **8**, pp. 15586 (2018)
71. M.G. Konstantinou, K. Milenko, W. Margulis, S. Pissadakis, Microspherical WGM resonators inside tapered microstructured optical fibers, *MDPI Micromachines* **9**, 521; doi:10.3390/mi9100521 (2018)
72. N. Korakas, G. Violakis, S. Pissadakis, Azimuthal alignment method for optimizing Bragg grating inscription in photonic crystal fibers, *IEEE Photonics Technol. Lett.* **31**, pp. 857 – 860 (2019)
73. S. Pissadakis, Lab-in-a-Fiber: a review, *Microelectronic Engineering* (*invited*-submitted)

- **CONFERENCE PUBLICATIONS**

1. N.A.Vainos, S.Mailis, S.Pissadakis, P.Dainty and T.J.Hall, Excimer laser micromachining: Materials Reference Library & Microetching of Holographic Optical Interconnect Structures, Proc. 4th Inter. Conf. On Holographic Systems, Comp. and Applications, Neuchatel, Switzerland, Sept. 1993
2. N.A.Vainos, S.Mailis, S.Pissadakis, N.Madamopoulos, L.Boutsikaris, G.Patrinou and A.Petrakis, Excimer laser microetching: Microoptics & Computer generated holography, 2nd EPS School on Lasers and Applications, Crete, Greece, May 1994
3. L.Boutsikaris, S.Mailis, N.Madamopoulos, S.Pissadakis, A.Petrakis, N.A.Vainos, P.Dainty, P.J.Parmeter and T.J.Hall, Computer generated holographic diffractive structures by direct excimer laser microetching, Proc. Photonics West conference on Optoelectronic, Microphotonic & Laser Technologies, San Jose, California, USA, pp.448-455, Feb. 1995
4. S.Pissadakis, S.Mailis, L.Reekie, R.W.Eason, N.A.Vainos, K.Moschovis, G.Kiriakidis, Photorefractivity of indium oxide (InO_x) using 193nm excimer laser radiation, Proc. CLEO/Europe '98 Glasgow,

Scotland, CWF50, Sept. 1998

5. S.Pissadakis, L.Reekie, M.Hempstead, M.N.Zervas, J.S.Wilkinson, Ablated gratings on borosilicate glass by 193nm excimer laser radiation, 5th International Conference on Laser Ablation (COLA) Goettingen, Germany, 211, July 1999
6. S.Mailis, L.Reekie, S.Pissadakis, S.J.Barrington, R.W.Eason, Large photoinduced refractive index changes in pulsed laser deposited lead germanate glass waveguides with controllable refractive index sign change, 5th International Conference on Laser Ablation (COLA) Goettingen, Germany, 182, July 1999
7. S.Pissadakis, L.Reekie, M.N.Zervas, J.S.Wilkinson, K.Moschovis, G.Kiriakidis, High-index overlay gratings on K⁺-exchanged waveguides in BK-7 glass using excimer laser ablation, CLEO 2000 San Francisco, CWK38, May 2000
8. S.Pissadakis, L.Reekie, M.N.Zervas, J.S.Wilkinson, K.Moschovis, G.Kiriakidis, Indium oxide overlay gratings realised on glass waveguides using excimer laser ablation, EXMATEC (Expert Evaluation & Control of Compound Semiconductor Materials & Technologies) 2000 Crete, Greece, 86, May 2000
9. S.Pissadakis, L.Reekie, J.S.Wilkinson, G.Kiriakidis, Sub-micron period grating structures in Ta₂O₅ and InO_x thin oxide films fabricated using 248nm interferometric excimer laser ablation, CLEO/Europe 2000, Nice, France, CWF50, Sept 2000
10. S.Pissadakis, D.A.Sager, M.N.Zervas, J.S.Wilkinson, Superstrate index control of waveguide grating reflectivity, CLEO/Pacific Rim 2001, Chiba, Japan, ME2-2, p.100-101, July 2001
11. S.Pissadakis, A.Ikiades, C.Y.Tai, N.Sessions, J.S.Wilkinson, Sub-micron period grating structures in Ta₂O₅ thin oxide films patterned using UV laser post-exposure chemically assisted selective etching, E-MRS, Strasbourg, France, H.IV-3, June 2003
12. S.Pissadakis, L.Reekie, M.N.Zervas, J.S.Wilkinson, High reflectivity Bragg gratings fabricated by 248nm excimer laser holographic ablation in thin Ta₂O₅ films overlaid on glass waveguides, 7th International Conference on Laser Ablation (COLA), Heraklion, Greece, Th-09, October 2003
13. S.Pissadakis, A.Ikiades, P.Hua, A.K.Sheridan, J.S.Wilkinson, Strong refractive index changes induced in Ag⁺ ion-exchanged Er-doped phosphate glass using 248nm excimer laser radiation, 7th ESG Conference on Glass Science and Technology, Athens, Greece, O-PH5, April 2004
14. S.Pissadakis, M.N.Zervas, L.Reekie, J.S.Wilkinson, Bragg grating micromachining in optical waveguides using pulsed UV laser radiation, LPM2004, Nara, Japan, 17-5 #181, May 2004
15. M.Konstantaki, G.Papaioannou, S.Pissadakis, S.Pispas, N.Madamopoulos, N.A.Vainos, Optical fibre long-period grating humidity sensor utilizing PEO/CoCl₂ outcladding overlayers, SPIE "Optics and Optoelectronics", Poland, vol. 5952, pp. 126-132, August 2005
16. R.Böhme, M.Ehrhardt, T.Rudolph, D.Ruthe, K.Zimmer, S.Pissadakis, Backside etching of fused silica with ultra-short laser pulses at the interface to absorbing liquid, 8th International Conference on Laser Ablation (COLA), Banff, Canada, TuPO17, September 2005
17. C.Pappas, S.Pissadakis, UV-assisted selective chemical etching of submicron period relief gratings in Er/Yb-codoped IOG-1 phosphate glass, 8th International Conference on Laser Ablation (COLA), Banff, Canada, MoPO79, September 2005
18. S.Pissadakis, M.Konstantaki, Type IIA Gratings Recorded in B-Ge Codoped Optical Fibre Using 213nm Nd:YAG radiation, 31st European Conference on Optical Communication (ECOC), Glasgow, UK We4.P.31, September 2005
19. C.Pappas, S.Pissadakis. Periodic Nanostructuring of Er/Yb-codoped IOG1 Phosphate Glass using UV-assisted Selective Chemical Etching, 3rd International Symposium on Nanomanufacturing (ISNM),

Limassol, Cyprus, TMP4, November 2005

20. C.Pappas, S.Pissadakis, 2-D Grating Reflectors Fabricated in Er/Yb-codoped Phosphate Glass using Multi-beam UV-laser Holography and Selective Chemical Etching, Workshop “Advances in Nanophotonics”, PHOREMOST project meeting, Heraklion, Greece, #18, October 2005
21. S.Pissadakis, C. Pappas, Two-Dimensional Bragg Reflectors Fabricated in IOG-1 Phosphate Glass using Multi-beam UV-laser Interference, Photonics Europe, Strasbourg, France, 6182-21, April 2006
22. G.Violakis, M.Konstantaki, S.Pissadakis, Inscription of Thermally Durable Type IIA Gratings in B-Ge doped Optical Fibres Using 248nm, 500fs Radiation, CLEO-USA, CTuY6, May 2006
23. D.Ruthe, K.Zimmer, T.Höche, J.Gerlach, B.Rauschenbach, D.Anglos, S.Pissadakis, Non-ablating, low-fluence irradiation of multi-layer-stacks with ultrashort laser pulses, E-MRS, Nice, France H P2-18, May 2006
24. S.Pissadakis, C. Pappas, Laser Induced Volume Damage Effects in IOG-1 Phosphate Glass and Selective Chemical Etching Processes: a new route to efficient glass nanostructuring, Otto Schott Workshop, Jena, Germany, 2006
25. I.Michelakaki, M.Livitzis, S.Pissadakis, Photosensitivity of Er/Yb-codoped Schott IOG1 phosphate glass using 248nm, 500fs laser radiation, CLEO-Europe 2007, CJ-22-TUE
26. G.Violakis, M.Konstantaki, S.Pissadakis, Comparative results on the recording of Type IIA gratings in B-Ge optical fibres using femtosecond and picosecond 248nm laser radiation, CLEO-Europe 2007, CE-12-TUE
27. G.Violakis, S.Georgiou, M.Konstantaki and S.Pissadakis, A Comparative Study on the Type IIA Photosensitivity of a B/Ge Optical Fiber Using Ultraviolet, Femtosecond Radiation BGPP, JWA59, September 2007
28. S.Pissadakis, M.Livitzis, G.Tsibidis, J.Kobelke and K.Schuster, Inscription of Type IIA Bragg Reflectors in a Highly Non-Linear Microstructured Optical Fiber Using Deep Ultraviolet Laser Radiation, SPIE Optics and Optoelectronics Europe 2009, 7357-19
29. A.Candiani, M.Konstantaki, S.Pissadakis, Magnetic Tuning of Optical Fibre Long Period Gratings, CLEO-Europe 2009, CH4.2
30. A.Z.Subramanian, S.Pissadakis, C.J.Oton, J.S.Wilkinson, Sub-micron Period Relief Grating Structures on Erbium Doped Ta₂O₅ waveguides Inscribed Using 213nm, 150ps Laser Radiation, CLEO-Europe 2009, CE4.6
31. S.Pissadakis, G.D.Tsibidis and M.Livitzis, Photosensitivity and Grating Recording in All-silica Standard and Microstructured Optical Fibres using 248nm, fs and ps Laser Radiation, CLEO-Europe 2009 CM7.4
32. K.Zimmer, R.Böhme, M.Ehrhardt, B.Rauschenbach, S.Pissadakis, Backside wet etching of submicron gratings in crystalline materials with UV laser pulses, 10th International Conference on Laser Ablation (COLA), Singapore, November 2009
33. K.Schuster, J.Kobelke, Y.Wang, A.Schwuchow, J.Kirchhof, H.Bartelt, S.Pissadakis, Highly Photosensitive PCFs with Extremely Germanium Doped Core, ICO-Photonics Delphi, Greece, AIP Conference Proceedings, Volume 1288, pp. 47-51, 2010
34. M.Konstantaki, S.Pissadakis, Optical fibre long period gratings with photochromic outcladding overlayers, ICO-Photonics Delphi, Greece, AIP Conference Proceedings, Volume 1288, pp. 55-58, 2010
35. A.Candiani, M.Konstantaki, S.Pissadakis, W.Margulis, Spectral tuning of a microstructured optical fibre Bragg grating by employing an infiltrated ferrofluidic actuator, Photonics Europe 2010, 7714-24

36. A.Candiani, M.Konstantaki, W.Margulis, S.Pissadakis, Spectral tuning of a microstructured fibre Bragg grating utilizing an infiltrated ferrofluidic defect, BGPP 2010, CTuC2
37. M.Konstantaki, A.Klini, D.Anglos, S.Pissadakis, A detection probe for organic vapors based on optical fibre long-period gratings and ZnO nanorod out-claddings, TCM 2010, 464
38. M.Sozzi, A. Cucinotta, S. Selleri, R.Corradini, M. Konstantaki, S.Pissadakis, Label-free detection of DNA biomolecules with a long period grating-based fiber optic sensor, Photonics West 2011, 7894-20
39. A.Candiani, W.Margulis, C.Sterner, M.Konstantaki, S.Pissadakis, Magnetofluidic microstructured optical fibre Bragg gratings, EOSOF 2011, 4401
40. S. Pissadakis, D. Anglos, A. Klini, M. Konstantaki, Long period optical fibre grating outcladding overlaid sensors: a versatile photonic platform for health and bio applications, IEEE Biophotonics 2011 Parma, We2.5
41. A.Candiani, W.Margulis, C.Sterner, M.Konstantaki, S.Pissadakis, A vectorial magnetometer utilising a microstructured optical fibre Bragg grating infiltrated by a ferrofluid, CLEO-Europe 2011, CH6.3
42. M.Sozzi, A. Rahman, S.Pissadakis, Demonstration of negative refractive index photosensitivity mechanism in a phosphate glass optical fibre using 248nm, 500fs laser radiation, CLEO-Europe 2011, CM3.1
43. M.Sozzi, A.Cucinotta, R.Corradini, R.Marchelli, M.Konstantaki, S.Pissadakis, S. Selleri, Label-free DNA detection with PNA modified long period fiber grating-based sensor, CLEO-Europe 2011, JSIV1.2
44. A.Klini, M.Konstantaki, D.Anglos, S.Pissadakis, An optical fiber long-period grating sensor for organic vapors utilizing a ZnO nanorod out-cladding, CLEO-Europe 2011, CK9.5
45. M.Malinauskas, A.Zukauskas, V.Purlys, E.Kambouraki, A.Gaidukeviciute, I.Sakellari, S.Pissadakis, R.Gadonas, M.Vamvakaki, and M.Farsari, Direct laser writing of microoptical structures using a germanium-containing hybrid photopolymer, CLEO-Europe 2011, CE8.3
46. A.Candiani, M.Konstantaki, S.Pissadakis, C.Sterner, W.Margulis, Microstructured optical fibre Bragg grating modulator employing an infiltrated ferrofluid, IEEE Biophotonics 2011 Parma, Th6.2
47. G.T.Kanellos, D.Tsiokos, N.Pleros, P.Childs, S.Pissadakis, G.Papaioannou, Enhanced durability FBG-based sensor pads for biomedical applications as human-machine interface surfaces, IEEE Biophotonics 2011 Parma, We2.3
48. A.Candiani, P.Childs, S.Pissadakis, M.Sozzi, E.Coscelli, F.Poli, A.Cucinotta, S.Selleri, R.Veneziano, R.Corradini, R.Marchelli, Double tilted fiber Bragg grating for label-free DNA detection, IEEE Biophotonics 2011 Parma, We2.4
49. M.Konstantaki, A.Klini, D.Anglos, S.Pissadakis, An ethanol vapor detection probe based on a ZnO nanorod overlaid optical fibre long-period grating, OFS-2011, Ottawa, 7753-267
50. A.Candiani, P.Childs, S.Pissadakis, M.Sozzi, E.Coscelli, F.Poli, A.Cucinotta, S.Selleri, R.Veneziano, R.Corradini, R.Marchelli, Label-free DNA sensor based on a Double Tilted Bragg Gratings, 4th International Workshop on Multi Analyte Biosensing Devices 2011, Athens, O10
51. A.Candiani, P.Childs, S.Pissadakis, M.Sozzi, E.Coscelli, F.Poli, A.Cucinotta, S.Selleri, R.Veneziano, R.Corradini, R.Marchelli, Label-free DNA biosensor based on double tilted fiber Bragg grating, Photonics West 2012, 8218-23
52. M.Malinauskas, A.Žukauskas, K.Tikuišis, V.Purlys, E.Kabouraki, S.Pissadakis, M.Farsari, R.Gadonas, Laser fabrication of micro-optical components of hybrid polymers, SPIE, Photonics West 2012, 8257-29

53. A.Candiani, G.Zito, A.Argyros, R.Lwin, S.L.Saval, S.Selleri, S.Pissadakis, A grating-less in fibre magnetometer realised in a polymer-MOF infiltrated using ferrofluid, SPIE, Photonics Europe 2012, 8426-13
54. I.Konidakis, G.Zito, S.Pissadakis, Photonic bandgap guiding into a composite AgPO₃-glass/silica microstructured optical fibre, SPIE, Photonics Europe 2012, 8426-06
55. A.Candiani, M.Konstantaki, W.Margulis, S.Pissadakis: A shear-displacement sensor based on a ferrofluidic defected microstructured optical fibre Bragg grating, BGPP-OSA 2012, BTu2E.2.
56. M.Konstantaki, M.Sozzi, P.Childs, S.Pissadakis, Relief Bragg gratings inscribed inside microstructured optical fibres, BGPP-OSA 2012, BM3D.2
57. G.Zito, S.Pissadakis, Integrated Holographic Polymer-Dispersed Liquid Crystal Bragg Reflector into Photonic Crystal Fibre, BGPP-OSA 2012, BM3D.4
58. A.Candiani, G.Zito, A.Argyros, R.Lwin, S.L.Saval, S.Selleri, S.Pissadakis, A magnetic field sensor based on a ferrofluid infiltrated PMMA-microstructured optical fibre, SOF-OSA 2012, SW1E.3
59. I.Konidakis, G.Zito, S.Pissadakis, Photosensitive All-Glass AgPO₃/Silica Photonic Band-Gap Fibre, SOF-OSA 2012, SM3E.6
60. I.Konidakis, M.Androulidaki, G.Zito, S.Pissadakis, Growth of ZnO nanolayers inside the capillaries of photonic crystal fibres, TCM 2012, 396
61. A.Candiani, S.Giannetti, M.Sozzi, E.Coscelli, F.Poli, A.Cucinotta, A.Bertucci, R.Corradini, M.Konstantaki, W.Margulis, S.Pissadakis, S.Selleri, Microstructured optical fiber Bragg grating sensor for DNA detection, SPIE, Photonics West 2013, 8576-13
62. V.Melissinaki, M.Vamvakaki, M.Farsari, S.Pissadakis, Fabry-Perot Vapor Microsensor onto Fiber Endface Fabricated by Multiphoton Polymerization Technique, CLEO-Europe 2013, CH-3.2
63. K.Kosma, G.Zito, K.Schuster and S.Pissadakis, Microsphere resonator integrated inside a microstructured optical fiber, CLEO-Europe 2013, CK-4.4
64. A.Candiani, S.Giannetti, M.Sozzi, E.Coscelli, F.Poli, A.Cucinotta, A.Bertucci, R.Corradini, M.Konstantaki, W.Margulis, S.Pissadakis, S.Selleri, PNA-modified photonic crystal fibers for DNA detection, CLEO-Europe 2013, CL-P.1
65. R.Blue, A.Duduś, M.Konstantaki, S.Pissadakis, and D.Uttamchandani, Characterization of a double tilted fiber Bragg grating using an electrowetting platform, Optical MEMS and Nanophotonics Conference 2014, Glasgow 173-174
66. I.Konidakis, S.Pissadakis, Enhancement of Plasmonic Properties of an All-Glass AgPO₃/Silica Photonic Bandgap Fibre Using Thermal Poling, BGPP-OSA Symposium on Surface Functionalization of Optical Fiber and Waveguide Based Bio- and Chemical-Sensors 2014, JTU2C.4
67. I.Konidakis, M.Konstantaki, K.Kosma, S.Pissadakis, All-optical Optofluidic Switching in a ZnO-overlaid Microstructured Optical Fiber, OSA Advanced Photonics 2014, JTU6A, *Post Deadline Paper*
68. I.Konidakis, M.Konstantaki, K.Kosma, S.Pissadakis, An Optical Optofluidic Switch developed in a ZnO-overlaid Microstructured Optical Fiber, 5th International Symposia on Transparent Conductive Oxides/Materials, 2014, O-1293.
69. K.Kosma, K.Schuster, J.Kobelke, G.Nikolopoulos and S.Pissadakis, In-fibre whispering gallery mode microresonator: a two-sphere coupled system, OWTNM 2015, 47
70. A.Klini, S.Pissadakis, R.N.Das, E.P Giannelis, S.H.Anastasiadis and D.Anglos, Optical gas

sensing at room temperature based on photoluminescent ZnO-PDMS nanohybrids, E-MRS 2015

71. E.Tagoudi, H.Ottevaere, D.Pysz, R.Buczynski, S.Pissadakis, Ferrofluid infiltrated multicapillary microstructured optical fibers for endoscopic applications, CLEO-Europe 2015, CH-P.26
72. I.Konidakis, M.Konstantaki, S.Pissadakis, A light-controlled optofluidic switch using ZnO as actuating material, EOSOF 2015, 48
73. Y.Liu, R.Gassino, H.Yu, A.Braglia, A.Vallan, D.Tosi, M.Konstantaki, S.Pissadakis, G.Perrone, Innovative Fibre Probe for Laser Ablation of Tumour Cells, CLEO-Europe 2015, CL-P.14
74. M.G.Konstantinou, K.Kosma, W.Margulis, S.Pissadakis, A microspherical resonator embedded inside a microstructured optical fiber taper, WSOF-OSA 2105, Hong-Kong, WT4A.23
75. K.Milenko, S.Pissadakis, A.Aluculesei, G.Fytas, Strain tuneable whispering gallery mode resonators in the estimation of the elasto-optic parameters of soft materials, Photonics Europe, 2016, 9899-51
76. E.Tagoudi, K.Milenko, S.Pissadakis, Power coupling in multicore optical fibre tapers utilizing out-cladding ferrofluids, Photonics Europe, 2016, 9886-10
77. M. Konstantaki, S. Pissadakis, D. Pugliese, E. Ceci-Ginistrelli, N. Boetti, D. Milanese, Bragg Gratings in a Bioresorbable Phosphate Glass Optical Fiber, BGPP-OSA 2016, BT2B.3.
78. K. Milenko, S. Pissadakis, A. Aluculesei, G. Fytas, Material structure studies in strain tuneable whispering gallery mode polymeric resonators, BGPP-OSA 2016, AW3C.1.
79. S. Pissadakis, A. Candiani, W. Margulis, S. Selleri, E. Tagoudi, M. Konstantaki, Magnetofluidic Sensing and Actuating Optical Fiber Devices, IC-MAST 2016, 4.1.1
80. V.Melissinaki, I. Konidakis, M.Farsari, S.Pissadakis, Fiber endface Fabry-Perot microsensors for gaseous and liquid species fabricated by multiphoton polymerization technique WE-Heraeus-Seminar "Merging Micro- and Nano-Optics: 3D Printing for Advanced and Functional Optics", Bad Honnef 2017
81. E. Tagoudi, N. Korakas, K. Schuster, J. Bierlich, M. A. Schmidt, S. Pissadakis, Tuning the transmission properties of a silica glass, anti-resonant optical fiber utilizing 193 nm laser radiation, CLEO-Europe 2017, CJ-P.21 MON
82. N. Korakas, G. Violakis, S. Pissadakis, A simple magnetic field sensor based on D-shaped optical fiber immersed in ferrofluid, WSOF 2017, 29
83. R. Gassino, A. Vallan, G. Perrone, M. Konstantaki, S. Pissadakis, Characterization of fiber optic distributed temperature sensors for tissue laser ablation, IEEE International Instrumentation and Measurement Technology Conference (I2MTC), DOI: 10.1109/I2MTC.2017.7969862
84. G. Violakis, S. Pissadakis, A Nitroaniline-based, All-solid Photonic Bandgap Fiber, OSA Advanced Photonics, BGPP-SOF 2018, JTh4a.5
85. M. Konstantaki, S. Pissadakis, D. Pugliese, E. Ceci-Ginistrelli, N. Boetti, D. Milanese, I. Konidakis, D. Janner, Toward Bioresorbable Photosensitive Fibers for Theranostics, Advanced Photonics, BGPP 2018, Btu4A.4
86. N. Korakas, G. Violakis, S. Pissadakis, An Optical Method for the Determination of Azimuthal Orientation of Tri-angular Lattice Silica Glass Microstructured Optical Fiber, CLEO-Europe 2019, CE-P.5
87. G. Violakis, S. Pissadakis, Second Harmonic Generation in thermally Poled Nitroaniline All-Solid Microstructured Optical Fibers, CLEO-Europe 2019, CE-4.4
88. G. Violakis, A. Bogris, B. Loppinet, S. Pissadakis, Elastic Interconnection of Optical Fibers Using

• **INVITED CONTRIBUTIONS IN CONFERENCES/WORKSHOPS**

1. S.Pissadakis, UV interferometric ablation and structural modification for the fabrication of sub-micron scale periodic structures in “hard” optical materials, ESPC2004, Wroclaw, Poland, July 2004
2. S.Pissadakis, M.Konstantaki, Grating inscription in optical fibres using 213nm, picosecond radiation: a new route in silicate glass photosensitivity, ICTON2005, Barcelona, Spain, July 2005
3. S.Pissadakis, Guided Wave Optical Sensors for Security Applications: Principles, State-of-the-Art and Prospects, Workshop on: "Security Applications of LIBS and Other Optical Technologies", 3rd Euro-Mediterranean Symposium on Laser-Induced Breakdown Spectroscopy, EMSLIBS 2005, Aachen, Germany
4. S.Pissadakis, Deep UV radiation induced photodissociative processes in transparent optical materials: index engineering and structural modification effects, 4th LAMP, Kyoto, Japan, May 2006
5. S.Pissadakis, M.Konstantaki, G.Violakis, Recording of Type IIA Gratings in B-Ge codoped Optical Fibres Using 248nm Femtosecond and Picosecond Laser Radiation, ICTON2006, Nottingham, UK, June 2006
6. G.Violakis, S.Pissadakis, Recording of Bragg gratings in all-silica microstructured fibres using deep ultraviolet laser radiation, ESPC2007, Rome, Italy, July 2007
7. S.Pissadakis, Target acquisition and recognition in the modern battlefield using laser radiation, 1st Conference Herakleitos, Athens, June 2007
8. S.Pissadakis, M.Livitziis, G.Violakis and M.Konstantaki, Inscription of Bragg reflectors in all-silica microstructured optical fibres using 248nm, picosecond and femtosecond laser radiation, SPIE Photonics Europe, Strasbourg, France, April 2008
9. S.Pissadakis, Bragg gratings in standard and microstructured all-silica fibres inscribed using ultra-fast ultraviolet radiation, ESPC2008, Athens, Greece, June 2008
10. S.Pissadakis, A.Candiani, M.Konstantaki, Magneto-optical long-period gratings, ICTON2009, Portugal 2009
11. S. Pissadakis, A.Candiani, M. Konstantaki, M. Livitziis, G. Tsibidis, J. Kobelke and K. Schuster, Bragg reflectors inscribed in micro structured optical fibres: inscription considerations and device development, MEDINANO 2, Athens 2009
12. S.Pissadakis, N.A.Vainos, M.Konstantaki, Thin Film Overlaid Long Period Fibre Grating Sensors: Examples and Prospects for Advanced Health Monitoring Applications, ITAB-2009, Cyprus 2009
13. S.Pissadakis, Bragg grating actuators in microstructured optical fibres utilising ferrofluids, COST 299 Closing Workshop, Romania 2010
14. A.Candiani, M.Konstantaki, W.Margulis, S.Pissadakis, Spectral tuning of microstructured optical fibre Bragg gratings utilizing ferrofluids, SWP 2010, Munich
15. A.Candiani, W.Margulis, C.Sterner, M.Konstantaki, S.Pissadakis, Sensing and actuating photonic devices in magnetofluidic, microstructured optical fibre Bragg gratings, SPIE Optics and Optoelectronics Europe, Prague, 8073B-113, April 2011
16. A.Candiani, M.Konstantaki, W.Margulis, S.Pissadakis, A smart-skin shear sensor based on

ferrofluid infiltrated Bragg grating in a microstructured optical fibre, SPIE Photonics Europe, Brussels, Belgium, April 2012, 8426-07

17. A.Candiani, S.Giannetti, A.Cucinotta, A.Bertucci, R.Corradini, M.Konstantaki, W.Margulis, S.Pissadakis, S.Selleri, DNA biosensors implemented on PNA-functionalized microstructured optical fibers Bragg gratings, SPIE Optics and Optoelectronics Europe, Prague, 8775-1, April 2013

18. S.Pissadakis, *et al*, Ultrafast laser structuring of optical fibres, Progress in Ultrafast Laser Modifications of Materials, Cargese, April 2013

19. I.Konidakis and S.Pissadakis, Electric field induced polarization effects in AgPO₃/silica photonic bandgap fiber, ICTON Cartagena, June 2013

20. A. Candiani, S. Giannetti, A. Cucinotta, A. Bertucci, A. Manicardi, M. Konstantaki, W. Margulis, S.Pissadakis, R. Corradini, S. Selleri, "Biophotonics photonic crystal fibers platform for nanoparticle-enhanced DNA," Biophotonics 2013, National Taiwan University, Taipei, Taiwan, July 17-19, 2013

21. S.Pissadakis, Plasmonic and Resonating Optical Operations inside MOFs and PCFs, Spatio-Temporal Complexity in Optical Fibers, Como, Italy, September 2013

22. K.Kosma, G.Zito, K.Schuster and S.Pissadakis, Microsphere resonators integrated inside microstructured optical fibers: studies and optimization, MEDINANO 6, Toulouse, France, October 2013

23. I.Konidakis, M.Konstantaki, and S.Pissadakis, Materials Growth and Processing in the capillaries of Photonic Crystal Fibres: towards the Lab-in-a-Fibre Protocol, OPTO, Photonics West, San Francisco, February 2014

24. K.Kosma, G.Zito, K.Schuster and S.Pissadakis, Whispering-gallery modes excitation in microspheres integrated inside microstructured optical fibers, LASE, Photonics West, San Francisco, February 2014

25. K.Kosma, G.Zito, K.Schuster and S.Pissadakis, Integration and excitation of microsphere optical resonators inside microstructured optical fibers, SPIE Photonics Europe, Brussels, Belgium, April 2014, 9128-2

26. K.Kosma, K.Schuster, J.Kobelke and S.Pissadakis, In-fibre whispering gallery mode resonators: From isolated microspheres to coupled systems, ICTON-PAM, Graz, July 2014

27. S.Pissadakis, Optical Fibre Magnetofluidic Sensors, IMEKO TC-4 International Symposium, Benevento, Italy, September 2014

28. I.Konidakis, M.Konstantaki, S.Pissadakis, EU-SK workshop on Advanced Materials, E-MRS, Lille, France May 2015, WC2-9

29. K. Kosma, G.M. Nikolopoulos, M.G. Konstantinou, K. Schuster, J. Kobelke, and S. Pissadakis, In-fibre whispering gallery mode resonators: a promising platform for the realisation of opto-mechanical oscillators, Quantum Phononics, From Transport and Optomechanics to Quantum Biology, Heraklion, Greece, May 2015

30. S. Pissadakis, Towards the Fibre-Lab, New Frontiers in Fiber Optics Workshop, IPHT, Jena, Jan 2016

31. M.G. Konstantinou, K. Milenko, K. Kosma, W. Margulis, S. Pissadakis, Light coupling and routing using a microsphere attached on the endface of a microstructured optical fibre, Photonics Europe, April 2016, 9886-13

32. M. Konstantaki, S. Pissadakis, D. Pugliese, E. Ceci-Ginistrelli, N. G. Boetti, D. Milanese, Bragg grating UV inscription in a bioresorbable phosphate glass optical fiber, ICTON-Novel Glasses, Trento, Italy, July 2016

33. S. Pissadakis, K. Milenko, A. Aluculesei, G. Fytas, Material structure studies in strain tuneable whispering gallery mode polymeric resonators, OSA-ACOFT, Sydney, Australia, September 2016

34. S. Pissadakis, New light localisation schemes and effects using WGM resonators and optical fibres, Advanced Architectures in Photonics 2016, Mykonos, Greece, Sept. 2016

35. S. Pissadakis, Light Localisation Schemes in Microstructured Optical Fibres, DPG Frühjahrstagung (Spring Meeting) of the Atomic, Molecular, Plasma Physics and Quantum Optics Section (SAMOP), Mainz, Germany, March 2017, Q 36.1

36. S. Pissadakis, Optofluidics in Microstructured Optical Fibers, PIERS 2017, St. Petersburg, Russia, May 2017, 1P1, SC3

37. S. Pissadakis, K. Kosma, J. Kobelke, K. Schuster, In-fiber, cross-coupled WGM cavities as high accuracy photonic verniers, 5th WSOF 2017, Limassol, Cyprus 106

38. G. Violakis, S. Pissadakis, All solid nitroaniline-silica photonic bandgap fiber, Photonics Europe 2018, 10681-4

39. S. Pissadakis, Whispering Gallery Mode resonators in microstructured optical fibers, Advanced Architectures in Photonics 2018, Cambridge, UK, Sept. 2018

40. S. Pissadakis, Whispering Gallery Mode Sensors Implemented in Microstructured Optical Fibers, PIERS 2019, Rome, Italy, June 2019

- **CONSULTATION REPORTS**

1. S. Pissadakis, *et al*, *Yearly Review for the sector of "Nanotechnology" for the years 2011-2014*, SEV Hellenic Federation of Enterprises

- **OTHER PUBLICATIONS**

2. S. Pissadakis, *Fabrication, Analysis and Device Development using Proton Exchange Waveguides in LiNbO₃ crystals*, Ptyhion Thesis, Heraklion 1994

3. S. Pissadakis, C.Balas, *Introduction to Optoelectronics*, Lecture Notes, Technical University of Crete, Chania 2002

4. S. Pissadakis, *Theory and Devices of Optical Waveguides*, Lecture Notes, University of Crete, Heraklion 2005

5. S. Pissadakis, *Optical Sensing Technologies for Society Mega-challenges*, Lecture Notes, University of Parma, Parma 2018

- **HIGHLIGHTS/PRESENTATIONS IN BROAD SCIENTIFIC PRESS**

1. **Photorefractive and ablated gratings in InO_x thin films using excimer laser radiation**, ADVANCED COATINGS & SURFACE TECHNOLOGY ALERT, John Wiley & Sons' newsletter division, Technical Insights Alert C990197, 1131099, September 3rd 1999

2. **Lasers etch sub-micron structures into sapphire**, <http://optics.org/article/27379>

3. **Materials Processing: Picosecond UV lasers pave the way to new applications** http://www.laserfocusworld.com/display_article/325457/12/none/none/Feat/Materials-Processing-

[Picosecond-UV-lasers-pave-the-way-to-new-application](#)

4. VerticalNews, Research News on Photonics/Nanotechnology, <http://www.verticalnews.com/newsletters/Nanotechnology-Business-Journal/2009-03-09/65488NBj.html>
5. VerticalNews, Research News on Photonics, <http://physics.verticalnews.com/articles/1740634.html>
6. VerticalNews, Research News on Photonics, <http://www.verticalnews.com/article.php?articleID=1681937>
7. Topical meeting boosts optics in Greece, ICO Newsletter <http://www.ico-optics.org/pdfs/ICONewsletterApr2010.pdf>
8. SPIE-Newsroom, Magnetofluidic sensors and actuators based on microstructured optical fiber gratings <http://spie.org/x51580.xml?ArticleID=x51580>
9. MRS Bulletin, Magnetofluidics used for tuning optical fibers <http://journals.cambridge.org/action/displayAbstract?fromPage=online&aid=8354196>
10. Frost & Sullivan, Technical insight alerts, Ferrofluids Enable Enhanced Fiber-Based Sensors, August 26th 2011
11. International Innovation, Lighting the way, Issues 2, pp. 37-39 (2011) www.researchmedia.eu
12. Optics and Photonics News, OSA, Optics in 2011 Highlights, Magnetofluidically Tunable Microstructured Optical Fiber Grating Devices, December 2011 <http://www.osa-opn.org/OpenContent/Features/Diffraction-1.aspx>
13. National Documentation Centre-Greece, Νέοι φωτονικοί αισθητήρες στην ανίχνευση μαγνητικών πεδίων από το ΙΤΕ, December 2011, http://www.ekt.gr/content/display?ses_mode=rnd&ses_lang=el&prnbr=84330
14. Περιοδικό Καινοτομία, τεύχος 12/2011-02/2012 <http://kainotomia.ekt.gr/issue/2012/86/files/assets/basic-html/page11.html>
15. SPIE-Newsroom, Shear sensing smart-pads based on ferrofluid infiltrated microstructured optical fibers, <http://spie.org/x88699.xml?highlight=x2406&ArticleID=x88699>
16. Optics and Photonics News, OSA, Optics in 2012 Highlights, Relief Photonic Crystal Fiber Bragg Grating Reflectors, December 2012 http://www.osa-opn.org/home/articles/volume_23/december_2012/
17. New optical fibre technology for thermally ultra-durable optical fibre sensors, Περιοδικό Καινοτομία, Ιανουάριος 2013 <http://www.et-online.gr/default.asp?pid=19&la=1&arc=12&art=285&nwID=22>
18. Λιγότερα έλκη από τεχνητά μέλη, Εφημερίδα Καθημερινή, 27 Μαΐου 2013, (Less Ulcers due to Prosthetics, Newspaper Kathimerini May 27 2013) http://trans.kathimerini.gr/4dcgi/w_articles_qsite2_1_24/05/2013_500595
19. Optics and Photonics News, OSA, Optics in 2013 Highlights, Integrating microsphere resonators inside microstructured optical fibers, December 2013 http://www.osa-opn.org/home/articles/volume_24/december_2013/features/photonic_structures/#.UtAWevuMBnI
20. OSA News Release, Researchers Create Fiber Optic Sensors that Dissolve in the Body, February 2018, <https://www.osa.org/en->

[us/about_osa/newsroom/news_releases/2018/researchers_create_fiber_optic_sensors_that_dissol/](#)

21. Optics.org, FORTH develops bioresorbable fiber Bragg gratings, February 2018, <http://optics.org/news/9/2/18>

22. Dissolvable optical fiber with fiber Bragg gratings aims at inside-the-body medical sensing, <https://www.laserfocusworld.com/articles/2018/02/dissolvable-optical-fiber-with-fiber-bragg-gratings-aims-at-inside-the-body-medical-sensing.html>

➤ **PATENTS**

1. N.A.Vainos, S.Mailis, S.Pissidakis, L.Boutsikaris and C.Fotakis, GR PATENT No. 1002163
2. N.A.Vainos, S.Mailis, S.Pissidakis, L.Boutsikaris and C.Fotakis, European Patent No. 966000044