

Dr. Christos Riziotis

PUBLICATIONS LIST

A. ACADEMIC THESES

Honors Thesis

"Digital Multi-Channel Spectral Analysis and Pattern Recognition of Solar Radio-Signals", September 1993, Dissertation for the Degree of Physics at National and Kapodistrian University of Athens

Masters' Theses

"Study and Comparison of Radio-Coverage Models for Mobile Communication Systems" September 1994, Masters' Thesis (First Year), University of Athens

"Modelling of Single and Double Heterostructure Distributed Feedback (DFB) Lasers" September 1995, Masters' Thesis (Second Year), University of Athens

Doctoral Thesis

"Advanced Bragg Grating Based Integrated Optical Devices for Wavelength Division Multiplexing (WDM) Communication Systems", Ph.D. Thesis, Department of Electronics and Computer Science, Optoelectronics Research Centre, Faculty of Engineering, University of Southampton, 2001. (OCLC: 59474595)

<http://eprints.soton.ac.uk/15489/>

B. PEER REVIEWED JOURNAL PUBLICATIONS

1. "Growth and characterization of pulsed laser deposited lead-germanate glass optical waveguides", S. Mailis, C. Riziotis, J. Wang, B. Taylor, A. Anderson, S. Barrington, H.N. Rutt, R.W. Eason, N. Vainos, C. Grivas, *Optical Materials*, 12, 27 (1999).
[DOI:10.1016/S0925-3467\(98\)00065-2](https://doi.org/10.1016/S0925-3467(98)00065-2)
2. "Design considerations of optical add-drop filters based on grating assisted mode conversion in null couplers", C. Riziotis, M.N. Zervas, *IEEE/OSA Journal of Lightwave Technology*, 19, 92 (2001).
[DOI:10.1109/50.914490](https://doi.org/10.1109/50.914490)
3. "Performance comparison of Bragg-grating based optical add-drop multiplexers in WDM transmission systems", C. Riziotis, M.N. Zervas, *Journal IEE Proceedings, Circuits, Devices and Systems*, 149, 179 (2002).
[DOI:10.1049/ip-cds:20020302](https://doi.org/10.1049/ip-cds:20020302)
4. "Novel photosensitive glasses", H. Ebendorff-Heidepriem, C. Riziotis, E. Taylor, *International Journal of Glass Science and Technology (Glastechnische Berichte)*, 75 C2, 54 (2002).

5. "Development of channel waveguide lasers in Nd³⁺-doped chalcogenide (Ga:La:S) glass through photoinduced material modification", A.K. Mairaj, C. Riziotis, A.M. Chardon, P.G.R. Smith, D.P. Sepherd, D.W. Hewak, Applied Physics Letters, 81, 3708, (2002).
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6. "UV Written waveguides using crosslinkable PMMA-based copolymers", J. Koo, P.G.R. Smith, R.B. Williams, C. Riziotis, M.C. Grossel, Optical Materials, 23, 583 (2003).
[DOI:10.1016/S0925-3467\(03\)00025-9](https://doi.org/10.1016/S0925-3467(03)00025-9)
7. "Continuous wave ultra violet radiation induced frustration of etching in lithium niobate single crystals", S. Mailis, C. Riziotis, P.G.R. Smith, J.G. Scott, R.W. Eason, Applied Surface Science, 206, 46 (2003).
[DOI:10.1016/S0169-4332\(02\)01117-0](https://doi.org/10.1016/S0169-4332(02)01117-0)
8. "Direct ultraviolet writing of channel waveguides in congruent lithium niobate single crystals", S. Mailis, C. Riziotis, I.T. Wellington, P.G.R. Smith, C.B.E. Gawith, R.W. Eason, OSA Optics Letters, 28, 1433(2003).
[DOI:10.1364/OL.28.001433](https://doi.org/10.1364/OL.28.001433)
9. "Novel full-cycle-coupler-based optical add/drop multiplexer and performance characteristics at 40Gbit/s WDM networks", C. Riziotis, M.N. Zervas, IEEE/OSA Journal of Lightwave Technology, 21, 1828 (2003).
[DOI:10.1109/50.914490](https://doi.org/10.1109/50.914490)
10. "Design and demonstration of direct UV-written small angle X-Couplers in silica-on-silicon for broadband operation", F.R.Mahamd Adikan, C.B.E. Gawith, P.G.R. Smith, I.J.G. Sparrow, G.D. Emmerson, C. Riziotis, H. Ahmad, Appl. Opt. 45, 6113 (2006).
[DOI:10.1364/AO.45.006113](https://doi.org/10.1364/AO.45.006113)
11. "Computational intelligence in photonics technology and optical networks: A survey and future perspectives", C. Riziotis and A. Vasilakos, Information Sciences 177, 5292 (2007).
[DOI:10.1016/j.ins.2007.06.012](https://doi.org/10.1016/j.ins.2007.06.012)
12. "Fiber and integrated waveguide-based optical sensors" (Editorial Paper), V. Pruneri, C. Riziotis, P.G.R. Smith, and A. Vasilakos, Journal of Sensors, Article ID 171748 (2009).
[DOI:10.1155/2009/171748](https://doi.org/10.1155/2009/171748)
13. "Planar Bragg grating sensors—fabrication and applications: A review", I.J.G. Sparrow, P.G.R. Smith, G. D. Emmerson, S. P. Watts, and C. Riziotis, Journal of Sensors, Article ID 607647 (2009).
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14. "Technology trends and theory of nanoscale devices for quantum applications", A.C. Cefalas, C. Riziotis, A. Vasilakos and A. Vourdas, J. Comput. Theor. Nanosci. 7, 1631 (2010).
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15. *"Magnetic field trapping in coherent antisymmetric states of liquid water molecular rotors"*, A.C. Cefalas, E. Sarantopoulou, Z. Kollia, C. Riziotis, G. Dražic, S. Kobe, J. Stražičar, and A. Meden, *J. Comput. Theor. Nanosci.* 7, 1800 (2010).
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16. *"Structural health monitoring of solid rocket motors' propellant using polymer optical fibers"*, C. Riziotis, L. Eineder, L. Bancallari, G. Tussiwand, *Key Engineering Materials*, 543, 360-363, (2013).
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17. *"Ultra low cost rapid prototyping of diffraction grating remote point sensors"*, N. Aspiotis, M. Vasileiadis, A. El Sahat, L. Athanasekos, G. Mousdis, N.A. Vainos, and C. Riziotis, *Key Engineering Materials*, 543, 377-380, (2013).
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19. *"Fiber optic architectures for strain monitoring of solid rocket motors' propellant"*, C. Riziotis, L. Eineder, L. Bancallari, G. Tussiwand, *Sensor Letters*, 11(8), 1403-1407 (2013).
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20. *"Diffraction ammonia sensors based on sol-gel nanocomposites materials"*, N. Aspiotis, A. El Sachat, L. Athanasekos, M. Vasileiadis, G. Mousdis, N. Vainos, and C. Riziotis. *Sensor Letters*, 11, 1415 (2013).
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[DOI:10.1002/polb.23388](https://doi.org/10.1002/polb.23388)
22. *"Flat fibre and femtosecond laser technology as a novel photonic integration platform for optofluidic based biosensing devices and lab-on-chip applications: current results and future perspectives"*, K. Kalli C. Riziotis, A. Posporis, C. Markos, C. Koutsides, S. Ambran, A.S. Webb, C. Holmes, J.C. Gates, J.K. Sahu, P.G.R. Smith, *Sensors and Actuators B. Chemical*, 209, 1030-1040 (2015).
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23. *"Assessment of block and random copolymer overlayers on polymer optical fibers towards protein detection through electrostatic interaction"*, A. El Sachat, A. Meristoudi, S. Pispas, and C. Riziotis, *Journal of Polymer Science Part B: Polymer Physics* 53, 327-334 (2015).
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25. "Implementation of a real-time reference and calibration grid platform for improved screening - mapping in Pap test slides" E. Tsiambas and C. Riziotis, *Pathology International* (Wiley), vol 67, no1, pp.24-31, (2017).
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[DOI: 10.1002/mame.201600453](https://doi.org/10.1002/mame.201600453)
27. "Characterization of industrial coolant fluids and continuous ageing monitoring by wireless node-enabled fiber optic sensors", A. El Sachat, A. Meristoudi, C. Markos, A. Papadopoulos, S. Katsikas, and C. Riziotis, *Sensors MDPI* 17(3), 568 (2017).
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[DOI: 10.1088/2040-8986/aa6356](https://doi.org/10.1088/2040-8986/aa6356)
29. "Novel techniques for morphometrical and geometrical analysis in abnormal cervical smears", E. Tsiambas, C. Riziotis, I. Mavrikos, E. Armatas, and E. Patsouris, *J. Bal. Un. Oncology -JBUON* (vol. 22, no. 4, 2017).
30. "Design considerations for quasi-phase-matching in doubly resonant Lithium Niobate hexagonal micro-resonators", C. Riziotis, T.J. Sono, S. Mailis, and R.W. Eason, *Journal of Optics* (submitted).
31. "Engineering waveguide dispersion using subwavelength layers on photonic nanowires", G. Kakarantzas, C. Riziotis, G. Antonopoulos, C.G. Poulton, *Journal of Lightwave Technology* (submitted).
32. "Design of efficient amphiphilic block copolymers and implementation of optical fiber sensors for reversible protein detection", A. Petropoulou, T.J. Gibson, E. Themistou, S. Pispas, and C. Riziotis, *Sensors and Actuators B: Chemical* (submitted).

C. PEER REVIEWED CONFERENCE PROCEEDINGS PAPERS

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2. "Optimization of OADMs based on grating assisted mode conversion in null couplers", C. Riziotis, M.N. Zervas, Paper TuD1.6 in Proceedings of 25th European Conference on Optical Communication, ECOC 1999, Nice, France, 1999.
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4. "Rapid heat treatment for photosensitivity locking in deuterium-loaded planar optical waveguides", C. Riziotis, A. Fu, S. Watts, R. Williams, P.G.R. Smith, Proceedings of OSA International Conference in Bragg Gratings, Photosensitivity and Poling in Glass Waveguides, BGPP 2001, July 2-6 2001, Stresa, Italy. Paper BThC31 (2001) ISBN: 1-55752-680-X.
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5. "Performance characteristics of interferometric Bragg grating based OADMs in WDM transmission systems", C. Riziotis, P.G.R. Smith, M.N. Zervas, Proceedings of OSA International Conference in Bragg Gratings, Photosensitivity and Poling in Glass Waveguides, BGPP 2001, July 2-6, 2001, Stresa, Italy. Paper BThC2 (2001), ISBN: 1-55752-680-X.
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15. "Demonstration and accurate beam propagation method modelling of direct UV written shallow angle X-couplers", F.R. Mahamd Adikan, C.B.E. Gawith, P.G.R. Smith, I.J.G. Sparrow, G.D. Emmerson, and C. Riziotis, Proceedings of the CLEO & QELS 2006, Conference on Lasers and Electro-Optics & Quantum Electronics and Laser Science Conference, 21-26 May 2006, Long Beach Convention Center, Long Beach, California, USA, Article ID 4627941 (2006).
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19. "Engineering waveguide dispersion using thin films on silica nanofibre tapers", G. Kakarantzas, C.G. Poulton and C. Riziotis, PECS VIII, Photonic & Electromagnetic Crystal Structures Meeting, Dockside, Cockle Bay Wharf, Sydney, Australia; April 5-9, (2009).

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23. "Low cost, autonomous and wireless enabled liquid level sensor based on a multi-segmented polymer optical fiber", D. Dimas, S. Katsikas, A.C. Boucouvalas, and C. Riziotis, *Proceedings of the SENSOR+TEST Conferences 2011, OPTO 2011*, 7-9 June 2011, Nurnberg Exhibition Centre, Germany, ISBN 978-3-9810993-9-3, pp. 145-150 (2011).
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26. "Fibre optic sensors for solid rocket motors health monitoring", L. Bancallari, M. Sepe, L. Eineder, G. Tussiwand, G. Kakarantzas, C. Riziotis, N. Beverini, and E. Maccioni, *Proceedings of 5th International Symposium on Optronics in Defence and Security, OPTRO2012*, 8-10 February 2012, Paris, France. Paper OPTRO-2012-085 (2012).
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31. "Proteins detection by polymer optical fibers sensitised with overlayers of block or random copolymers", A. El Sachat, C. Markos, A. Meristoudi, S. Pispas, and C. Riziotis, Proceedings of SPIE Photonics West 2014. SPIE OPTO, 1-6 February 2014, The Moscone Center, San Francisco California, USA. Proc. SPIE 8983, Organic Photonic Materials and Devices XVI, 89830I-89830I-7 (2014).
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D. REVIEWED ABSTRACTS & PRESENTATIONS IN INTERNATIONAL CONFERENCES

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36. "Study on ArF excimer laser micromachining on polymer optical fibers for photonic sensor applications", L. Athanasekos*, M. Vasileiadis, A. El Sachat, C. Riziotis, N.A. Vainos, 10th International Conference on Nanosciences & Nanotechnologies (NN13), Thessaloniki, Greece; 9-12 July 2013, (Poster).
37. "Development of calibration grid in conventional cover slip by femtosecond laser pulses: Study of advanced microscopical diagnosis in cytological Test PAP", E. Tsiambas*, C. Riziotis, K. Kalli, Proceedings in Innovation in Cytopathology, 10th Panhellenic Conference of Hellenic Society of Clinical Cytology, Athens, Greece; 4-6 October, 2013 (Oral)
38. "Wireless condition monitoring integrating smart computing and optical sensor technologies", C. Emmanouilidis*, C. Riziotis, 8th World Congress on Engineering Asset Management WCEAM, Hong Kong, China; 30 Oct- 1 Nov, 2013 (Oral).
39. "Femtosecond laser inscription and micromachining in novel flexible glass flat-fibre chips", K. Kalli*, C. Markos, A. Posporis, C. Koutsides, C. Riziotis, A.S. Webb, J.K. Sahu, C. Holmes, J.C. Gates, P.G.R. Smith, 4th Asia Pacific Optical Sensors Conference 2013 (APOS 2013), Wuban, China; 15-18 Oct, 2013 (Oral).
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44. "Study of irradiation time and laser flux for the synthesis of photocrosslinked PEG based hydrogels", V. Aroni*, G. Mountrichas, S. Pispas, A. Petropoulou, C. Riziotis, D. Hatzivramidis, 3rd European Symposium of Photopolymer Science, Vienna, Austria; 9-12 September 2014 (Poster).
45. "Autonomous and Wireless Enabled Fiber Optic Sensors", C. Riziotis*, Industrial Technologies 2014 Conference and Exhibition, Smart Growth through Research and Innovation, Athens International Conference Centre Megaron, Athens, Greece; 9-11 April 2014 (Poster and Exhibition).
46. "Flat Fiber as a novel photonic integration platform for optofluidic based biosensing devices and lab on chip applications: Future perspectives", C. Riziotis*, K. Kalli, C. Markos, A. Posporis, C. Koutsides, A.S. Webb, J.K. Sahu, C. Holmes, J.C. Gates, P.G.R. Smith, EUROPT(R)ODE XII Conference, Athens, Greece, April 13-16, 2014 (Poster)
47. "Autonomous and Wireless-Enabled Multiagent Chemical and Biological Sensors Based on Polymer Optical Fibers", C. Riziotis*, L. Athanasekos, A. El Sachat, A. Meristoudi, S. Pispas, 23rd International Conference on Plastic Optical Fibers, Hiyoshi, Yokohama, Japan; October 8-10, 2014 (Poster).
48. "Strain Monitoring of Elastomeric Composites by Embedded Plastic Optical Fibers", C. Riziotis*, L. Eineder, L. Bancallari, G. Tussiwand, 23rd International Conference on Plastic Optical Fibers, Hiyoshi, Yokohama, Japan; October 8-10, 2014 (Poster).
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50. "Assessment of fiber optic sensors for ageing monitoring of industrial liquid coolants", C. Riziotis*, A. El Sachat, C. Markos, A. Meristoudi, A. Papadopoulos, SPIE Photonics West 2015, SPIE OPTO, Optical Components and Materials XII Conference, San Francisco, California, USA; 7-12 February 2015 (Poster).
51. "Laser based microstructuring of polymer optical fibers for sensors optimization", L. Athanasekos, M. Vasileiadis, A. El Sachat, N.A. Vainos, and C. Riziotis*, SPIE Photonics West 2015 Conference, SPIE LASE, Laser-based Micro- and Nanoprocessing IX Conference, San Francisco, California, USA; 7-12 February 2015 (Oral).
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53. "Study and optimization of tapered plasmonic waveguides for light nanofocusing", A. Petropoulou, M. N. Zervas, and C. Riziotis*, 11th International Conference of Computational Methods in Sciences and Engineering, "Nonlinear Optics and Lasing in Complex Media", Athens, Greece; 20-23 March 2015 (**Invited Oral Presentation**).
54. "Engineering and assessment of diblock copolymers for the development of fiber optic sensors for proteins fast detection", C. Riziotis*, Proteins in the World of Synthetic Polymers Workshop, Athens, Greece; 19-20 March 2015 (Oral).
55. "Hybrid silica nanowires with a highly nonlinear glass thin coating", G. Antonopoulos*, P. Velanas, C. Riziotis, G. Kakarantzas, in Spatiotemporal Complexity in Nonlinear Optics, Lake Como School of Advanced Studies, 31 August – 4 September 2015. (Oral)
56. "Evaluation of fluorescent nanocomposite grids and membranes based on polymeric electrospun nanofibres towards ammonia sensing", A. Petropoulou*, K. Christodoulou, T. Krasia Christoforou, and C. Riziotis, 5th International Conference on Materials and Applications for Sensors and Transducers, IC-MAST, Mykonos, Greece, 27-30 September, 2015. (Oral)
57. "Engineering of composite metallic microfibers towards development of plasmonic devices for sensing applications", A. Petropoulou*, G. Antonopoulos, G. Kakarantzas., D.W. Hewak, M.N. Zervas, and C. Riziotis, 5th International Conference on Materials and Applications for Sensors and Transducers, IC-MAST, Mykonos, Greece, 27-30 September, 2015. (Oral))
58. "Amphiphilic block copolymer based photonic platform towards efficient protein detection", A. Petropoulou, T.J. Gibson, E. Themistou, S. Pispas, C. Riziotis*, SPIE COS Photonics Asia, Beijing, China, 12-14 October 2016. (Oral)
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E. OTHER INTERNATIONAL CONFERENCE TALKS

1. "Low cost integrated optical components", C. Riziotis*, RESEAU OPTIQUE MEDITERRANEEN, 2nd Trade Mission "Harnessing Light in Photonic Applications", Athens, Greece; 6-7 July 2006 (**Invited Talk**)
2. "Novel integrated photonic platforms towards lab-on-chip based point of care diagnostics", C. Riziotis*, in 4th International Congress on Biophotonics (ICOB 2015), and COST Action BM1401 "Raman for Clinics" Joint Meeting, Florence, Italy; 18-20 May 2015 (**Invited Talk**).
3. "Research for BSI in Europe", C. Riziotis*, in 6th European Conference on Bloodstream Infections, Mare Nostrum Hotel, Vravrona, Athens, Greece; 6-7 June 2015 (**Invited Panel Member**).
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F. BOOK CHAPTERS

1. "Wireless Condition Monitoring Integrating Smart Computing and Optical Sensor Technologies", C. Emmanouilidis and C. Riziotis. Engineering Asset Management - Systems, Professional Practices and Certification, P.W. Tse J. Mathew, K. Wong, R. Lam, C.N. Ko (Eds), Lecture Notes in Mechanical Engineering; Springer International Publishing, 2015, pp. 1389-1400. ISBN: 978-3-319-09507-3
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2. "Multianalytes Gas Sensors by Soft Lithography Induced Gratings with Sol-Gel and Copolymers Nanocomposites", A. El Sachat, N. Aspiotis, M. Vasileiadis, G. Mousdis, S. Pispas, N. Vainos, and C. Riziotis, Nanotechnology in the Security Systems, NATO Science for Peace and Security Series C: Environmental Security, Springer, Dordrecht, Germany; 2015, pp. 181-192. ISBN: 978-94-017-9005-5,
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G. OTHER PUBLICATIONS (Featured Articles in Scientific Magazines)

1. "Directly UV-written Optical Waveguides in Congruent Undoped Lithium Niobate", PHOTONICS SPECTRA, November 2003

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H. PATENTS & PATENT APPLICATIONS

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2. R.W. Eason, S. Mailis, and C. Riziotis, "[*Optically Induced Refractive Index Modification in Optical Materials*](#)", University of Southampton and STRATOPHASE Ltd, Patent No. WO2004/010181A1, PCT/GB03/03242, GB 0217047 (International filing date 23/06/2003).
3. C. Riziotis, and E. Tsiambas, "*Reference and Calibration Grid For Improved Real Time Detection Of Biological Entities in Microscopy Diagnostic Techniques*", Hellenic Industrial Property Organization, Patent No#:20150100315 (16/7/2015).
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