GRIGORIS ANTONOPOULOS

LIST OF PUBLICATIONS – JANUARY 2019

A. MASTER'S DISSERTATION

"An investigation of the microstructure and magnetic properties of cobalt powders using TEM, EDX, EELS and VSM". School of Physics, University of Bristol, U.K.

B. DOCTORATE THESIS

"Super-enhanced stimulated Raman scattering and particle guidance in hollow-core photonic crystal fibre". Physics Department, University of Bath, U.K.

C. PAPERS IN REFEREED JOURNALS

1. A. Petropoulou, G. Antonopoulos, P. Bastock, G. Kakarantzas, C. Craig, D.W. Hewak, M.N. Zervas, and C. Riziotis. "All-Fiber Plasmonic Platform Based on Hybrid Composite Metal/Glass Microwires," *The Journal of Physical Chemistry C* 122(45) 26169-26176 (2018).

2. C. Markos, G. Antonopoulos, and G. Kakarantzas. "Broadband guidance in a hollow-core photonic crystal fiber with polymer-filled cladding." *IEEE Photonics Technology Letters* **25**(20) 2003 - 2006 (2013).

3. G. Antonopoulos, F. Benabid, T. A. Birks, D. M. Bird, J. C. Knight, and P. St. J. Russell. "Experimental demonstration of the frequency shift of bandgaps in photonic crystal fibers due to refractive index scaling." *Optics Express* **14**(7) 3000-3006 (2006).

4. F. Benabid, G. Antonopoulos, J. C. Knight, and P. St. J. Russell. "Stokes amplification regimes in quasi-CW pumped hydrogen-filled hollow-core PCF" *Physical Review Letters* **95**(21) 213903 (2005).

5. F. Benabid, J. C. Knight, G. Antonopoulos, and P. St. J. Russell. "Stimulated Raman scattering in hydrogen-filled hollow-core photonic crystal fiber" *Science* **298**(5592) 399-402 (2002).

D. CONFERENCE PUBLICATIONS

1. A. Petropoulou, G. Antonopoulos, P. Bastock, C. Craig, G. Kakarantzas, D.W. Hewak, M.N. Zervas and C. Riziotis, "Robust plasmonic tips fabricated by the tapering of composite hybrid silicate microfibers with metallic core", SPIE/COS Photonics Asia 2016. Proc. SPIE 10028, Plasmonics II, 100280N-100280N-8, (2016) (invited).

2. A. Petropoulou, G. Antonopoulos, G. Kakarantzas., D.W. Hewak, M.N. Zervas and C. Riziotis, "Engineering of composite metallic microfibers towards development of plasmonic devices for sensing applications", IOP Conf. Ser.: Mater. Sci. Eng. 108, 012027 (2016).

3. G. Antonopoulos, P. Velanas, A. Psomaki-Karra, C. Riziotis, and G. Kakarantzas. "Hybrid silica nanowires with a highly nonlinear glass thin coating," IEEE Proceedings of Spatiotemporal Complexity in Nonlinear Optics (SCNO), 2015, Lake Como School of Advanced Studies, 31 August–4 September 2015, Como, Italy. Proc. IEEE SCNO 2015, 1-3 (2015).

4. C. J. Moorhouse, D. Karnakis, C. Kapnopoulos, A. Laskarakis, S. Logothetidis, G. Antonopoulos, C. Koidis, "Laser patterning for reel-to-reel production of organic photovoltaic (OPV) devices." Paper 9350-25. SPIE Photonics West 2015, San Francisco (2015).

5. C. Koidis, G. Antonopoulos, D. Georgiou, C. Kapnopoulos, E. Mekeridis, A. Laskarakis, S. Logothetidis, "Process technology and in-line metrology for flexible organic photovoltaics." European Materials Research Society (E-MRS) 2014 Spring Meeting, Lille, France (2014).

6. C. Koidis, G. Antonopoulos, E. Mekeridis, I. Sismanidis, "In-line monitoring & quality control of r2r processes for production optimization of printed electronics." Large-area, Organic and Printed Electronics Convention (LOPEC 2014), Munich, Germany (2014).

7. C. Koidis, G. Antonopoulos, D. Georgiou, C. Kapnopoulos, E. Mekeridis, A. Laskarakis, S. Logothetidis, "Process technology and in-line quality control for flexible organic photovoltaics." 7th International Symposium on Flexible and Organic Electronics (ISFOE14), Thessaloniki, Greece (2014).

8. I. Laspas, C. Kapnopoulos, G. Antonopoulos, C. Koidis , A. Greičius, J. Klimantavičius, V. Stankevic, S. Varapnickas, A. Laskarakis, S. Logothetidis, "Laser scribing process technology for organic photovoltaic nanolayers." 7th International Symposium on Flexible and Organic Electronics (ISFOE14), Thessaloniki, Greece (2014).

9. C.A. Polyzoidis, C. Kapnopoulos, M. Seitanidou, E. Mekeridis, G. Antonopoulos, C. Koidis and S. Logothetidis, "Towards the improvement of inverted OPV performance through the enhancement of layer surface properties." 7th International Symposium on Flexible and Organic Electronics (ISFOE14), Thessaloniki, Greece (2014).

10. C. Balas, G. Antonopoulos, G. Epitropou, G. Tsairis, K. Argyriadou, A. Georgakilas and N. Hadjinicolaou. "Hyperspectral imaging system with embedded spectral segmentation and classification algorithms for the non-destructive analysis of artworks and manuscripts: An application in paintings by El Greco." Art 2008: 9th International Conference on NDT of Art, Jerusalem, Israel (2008).

11. G. Antonopoulos, F. Benabid, J. C. Knight, and P. St. J. Russell. "Efficient generation and tailoring of rotational SRS spectra generated in hydrogen-filled hollow-core photonic crystal fibre." In PECS-VI: 6th International Symposium on Photonic and Electromagnetic Crystal Structures, Aghia Pelaghia, Crete (2005).

12. F. Benabid, G. Antonopoulos, J. C. Knight, and P. St. J. Russell. "Stokes amplification regimes in rotational SRS in hydrogen Gas filled hollow-core PCF pumped with quasi-cw pulses." In Conference on Lasers and Electro-Optics (CLEO 2005), Paper CTuJ3. Baltimore (2005).

13. G. Antonopoulos, F. Benabid, T. A. Birks, D. M. Bird, G. Bouwmans, J. C. Knight, and P. St. J. Russell. "Experimental demonstration of refractive index scaling in photonic bandgap fibers." In Conference on Lasers and Electro-Optics (CLEO 2004), Paper CThHH1. San Francisco (2004).

14. G. Antonopoulos, F. Benabid, J. C. Knight, and P. St. J. Russell. "Quasi-CW purely rotational stimulated Raman scattering in H_2-filled hollow-core photonic crystal fibre." In POWAG 2004 Summer School, Bath (2004).

15. G. Antonopoulos, F. Benabid, T. A. Birks, D. M. Bird, J. C. Knight, and P. St. J. Russell. "Experimental demonstration of the bandgap shift in hollow-core photonic crystal fibres due to refractive index scaling" In Postgraduate Research Conference in Electronics, Photonics, Communications & Networks, and Computing Science (PREP2004). Paper OP7, University of Hertfordshire (2004).

16. F. Benabid, G. Antonopoulos, J. C. Knight, and P. St. J. Russell. "Applications of hollow-core photonic crystal fiber" In Conference on Lasers and Electro-Optics (CLEO 2003), Baltimore (2003).

17. F. Benabid, G. Antonopoulos, J. C. Knight, and P. St. J. Russell. "Particle levitation and guidance in hollow-core photonic crystal fibre" In Photon02, IOP Institute of Physics. Paper OP3a.6.4 (Structured Optical Materials). Cardiff, U.K. (2002).