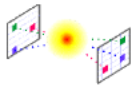


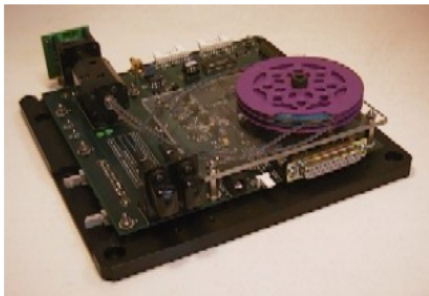


University of Cambridge > Department of Engineering > Research > Electrical Engineering > Photonics >



Photonics & Sensors Group Publications

- Introduction
- News
- Research Areas
- People
- Publications
- Useful Forms
- Contact & Map



ROSES switch

The following lists are not exhaustive.

2014

- B. Robertson, H. Yang, M.M. Redmond Collings, J.R. Moore, J. Liu, A.M. Jezioro, Chapman, M. Pivnenko, S. Lee, A. Wonfor White, W.A. Crossland, and D.P. White, **"Demonstration of Multi-Casting in a 1-μm LCOS Wavelength Selective Switch"**, *Journal of Lightwave Technology*, 32(3). pp. 402-410 (2014)
- S. Nedic, Y.T. Chun, W.K. Hong, D.P. Chu, and D.P. White, **"High performance non-volatile ferroelectric copolymer memory based on ZnO nanowire transistor fabricated on transparent substrate"**, *Applied Physics Letters*, 104(3). pp. 033101-4 (2014)

2013

- H. Yang, B. Robertson, D. Yu, Z. Zhang, and D.P. Chu, **"Origin of Transient Crosstalk and Reduction in Phase-only LCOS Wavelength Selective Switches"**, *Journal of Lightwave Technology*, 31(23). pp. 3822-3829 (2013)

- Clapp, and J. P. Hannington, **"Novel silo based smectic A liquid crystal material formulation, structures and optical device applications"**, (Invited paper) Organic Photonics and Electronics - Liquid Crystal XVII (2013)
- Q. Smithwick, J-S Chen, and D Chu, **"A Compact Integral Holographic Display"**, SID Symposium Digest of Technical Papers, 44: 310–313. (2013)
 - J-S Chen, Q Smithwick, and D Chu, **"Implementation of shading effect reconstruction of smooth layer-based holographic images"**, Proceedings of SPIE International Society for Optical Engineering, 86480R, ISSN 0277-786X (2013)
 - BC Bayer, C Castellarin-Cudia, R Blume, Steiner, C Ducati, D Chu, A Goldoni, A Kuehn, Gericke, R Schlögl, C Cepek, J Robertson, and Hofmann, **"Tantalum-oxide catalysed chemical vapour deposition of single- and multi-walled carbon nanotubes"**, RSC Advances, 3. pp. 4091–4092 (2013)
 - H. Yang, B. Robertson, D.P. Chu, **"A non-intrusive in situ method of optical fiber switch profiling in LCOS-based optical fiber switches"**, Optics and Lasers in Engineering, 51(7). pp. 915–920 (2013)
 - H. Yang, B. Robertson, and D. Chu, **"Transverse Crosstalk in LCOS Based WSS and a Method to Suppress the Crosstalk Levels"**, Optical Communication Conference, OW1C.3 (2013)
 - J-S Chen, Q.Y J Smithwick, and D. Chu, **"Implementation of shading effect reconstruction of smooth layer-based holographic images"**, Proc. SPIE International Society for Optical Engineering, 86480R (2013)

- H. Xu ; A. B. Davey ; W. A. Crossland and DP Chu, "**UV durable colour pigment doped liquid crystal composites for outdoor transmissive reflective bi-stable displays**", Proc. SPIE 8647, Liquid Crystals XVI, 847506 (2012)
- Young Tea Chun and DP Chu, "**Zinc Oxide Nanowire Transistor Nonvolatile Memory with Ferroelectric Polymer Interlayer**", 12th International Conference on Nanotechnology (IEEE-NANO 2012), pp.1,4, 20-23 (2012)
- Z Zhang, H Yang, B Robertson, M Redmond, P Pivnenko, N Collings, WA Crossland, and DP Chu, "**Diffraction based phase compensation method for phase-only liquid crystal on silicon device in operation**", Appl Opt, 51. pp. 3837-3842 (2012)
- F Torrisi, T Hasan, W Wu, Z Sun, A Lombardo, M Kulmala, GW Hsieh, S Jung, F Bonaccorso, G Paul, DP Chu, AC Ferrari, "**Inkjet-printed graphene electronics**", ACS Nano, 6. pp. 2999-3006 (2012)
- WN Chen, DP Chu, and SP Li, "**Air stable complementary polymer circuits fabricated at ambient condition by inkjet printing**", Organic Electronics: physics, materials, applications pp. 98-103. ISSN 1566-1199 (2012)
- B. Robertson, H. Yang, M. M. Redmond, N. Collings, J. Liu, A. M. Jerzierska-Chapman, J. Moore, Z. Zhang, W. A. Crossland, A. Wong, H. White, S. H. Lee, and D. Chu, "**The Use of Wavefront Encoding to Reduce Crosstalk in a Multicasting Fiber Telecom Switch**", Optics and Fiber Communication Conference, OM2J.6 (2012)
- B Robertson, Z Zhang, H Yang, MM Redmond, N Collings, J Liu, R Lin, AM Jeziorska-Chapman, J Moore, WA Crossland, and DP Chu, "**Application of the fractional Fourier transform to the design of LCOS based optical interconnects and switches**", Applied Optics, 51. pp. 2212-2217 (2012)

- P Hiralal, F Bonaccorso, T Hasan, L Gao, A Gancedo, A Dyadyusha, S Haque, P Andre, Hofmann, J Moultrie, D Chu, AJ Flewitt, Ferrari, MJ Kelly, J Robertson, GAJ Amaratunga and WI Milne, **"Flexible electronics: The ubiquitous platform"**, Proceedings of the IEEE, 100. pp. 1486-1517. ISSN 0018-9219 (2012)
- S Li, W Chen, D Chu and S Roy, **"One step aligned multilayer patterning process for fabrication of organic complementary circuitry in combination with inkjet printing"**, Organic Electronics: physics, materials, applications, pp. 737-743. ISSN 1566-1199 (2012)
 - B Robertson, Z Zhang, H Yang, MM Redmond, N Collings, J Liu, R Lin, AM Jeziorska-Chapman, JR Moore, WA Crossland and DP Chu, **"Reduction of crosstalk in a colourless multicasting LED based wavelength selective switch by application of wavefront encoding"**, Proceedings of SPIE – The International Society for Optical Engineering, 8284. ISSN 0277-7866 (2012)
 - B Robertson, Z Zhang, MM Redmond, N Collings, J Liu, R Lin, AM Jeziorska-Chapman, JR Moore, WA Crossland, WA and DP Chu, **"Use of wavefront encoding in optical interconnects and fiber switches for cross talk mitigation"**, Applied Optics, 51. pp. 659-668. ISSN 0003-6935 (2012)
 - J-S Chen, N Collings and DP Chu, **"A method to introduce accommodation cues into 3D interactive imaging system using Fresnel hologram"**, Proceedings of SPIE – The International Society for Optical Engineering, 8288. ISSN 0277-7866 (2012)
 - H-H Chou, F Zhang, TD Wilkinson, N Collings, WA Crossland, **"Implementation of a 6 x 6 x 6 Space Optical Fiber Ribbon Switch for Star Area Networks"**, JOURNAL OF LIGHTWAVE TECHNOLOGY, 30. pp. 1719-1725. ISSN 0733-7032 (2012)

2011

- H. Xu, J.R. Moore, W.A. Crossland, T.V. Crossland, J.P. Hannington and F. Nishida. "**A new class of bookshelf bi-stable siloxane based ferroelectric LC materials with excellent repairability in an LCoS configuration**" J Display Technol, of the SID 19/11, pp1-10 (2011).
- Zichen Zhang, Anna M. Jeziorska-Chapman, N. Collings, Mike Pivnenko, John Moore, W.A. Crossland, Daping P. Chu, and Bill Milne. "**Quality Assembly of Phase-Only Liquid Crystals on Silicon (LCOS) Devices**" (Invited paper) J Display Technol, page 120, Volume 7, Issue 1, March 2011.
- F Schoppler, C Mann, TC Hain, FM Neubaum, M Privitera, F Bonaccorso, DP Chu, AC Ferrari and M Hertel, "Molar Extinction Coefficient of Single-Walled Carbon Nanotubes" , J PHYS CHEM C, 115, 14682-14686. ISSN 1932-7447 (2011)
- H Zhang, N Collings, J Chen, WA Crossland, DP Chu and JH Xie, "**Full parallax three-dimensional display with occlusion effect using computer-generated hologram**" , OPT ENG, 50, 0091-3286 (2011)
- K Wasapinyokul, WI Milne and DP Chu, "**Origin of the threshold voltage shift of organic thin film transistors under light illumination**" APPL PHYS, 109. ISSN 0021-8979 (2011)
- N Collings, T Davey, J Christmas, DP Chu and W.A. Crossland, "**The Applications and Technology of Phase-Only Liquid Crystal on Silicon Devices**" , J DISP TECHNOL, 7. pp. 112-117. ISSN 1551-319X (2011)
- H Zhu and DP Chu, "A study of capacitance-voltage characteristics of lead zirconate titanate ferroelectric thin films and their usage to investigate polarization and coercive field" . J

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.