Demonstration of a self-pulsing photonic crystal Fano laser
Publication: Research - peer-review › Journal article – Annual report year: 2017

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Publication: Research - peer-review › Journal article – Annual report year: 2016

Photonic crystal Fano structures and their application to ultrafast switching and lasers
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

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Slow and fast light effects in semiconductor optical amplifiers for applications in microwave photonics
Publication: Research › Ph.D. thesis – Annual report year: 2010

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Wideband 360 degrees microwave photonic phase shifter based on slow light in semiconductor optical amplifiers
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The role of input chirp on phase shifters based on slow and fast light effects in semiconductor optical amplifiers
Xue, W., Chen, Y., Öhman, F. & Mørk, J. 2009 In : Optics Express. 17, 3, p. 1404-1413
Publication: Research - peer-review › Journal article – Annual report year: 2009

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Xue, W., Sales, S., Mark, J. & Capmany, J. 2009 In : IEEE Photonics Technology Letters. 21, 3, p. 167-169
Publication: Research - peer-review › Journal article – Annual report year: 2009

Analysis of an effective optical filtering technique to enhance microwave phase shifts based on slow and fast light effects
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Broadband microwave photonic phase shifter based on polarisation rotation
Publication: Research - peer-review › Journal article – Annual report year: 2008

Carrier dynamics and slow light in semiconductor nanostructures
USA: Optical Society of America OSA, p. CTuJ1
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Chirp Dependence of Filter Assisted Slow and Fast Light Effects in Semiconductor Optical Amplifiers
Xue, W., Chen, Y., Öhman, F., Sales, S. & Mark, J. 2008 Slow and Fast Light (SL). Boston, Massachusetts, USA: Optical
Society of America, p. JMB12
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

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Publication: Research - peer-review › Journal article – Annual report year: 2008

Experimental demonstration of strongly enhanced light slow-down in semiconductor optical amplifiers by optical filtering
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Microwave phase shifter based on mach-zehnder intensity modulator and polarization rotation in an SOA
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Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Semi-analytical model of filtering effects in microwave phase shifters based on semiconductor optical amplifiers
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Slow and fast light effects in semiconductor waveguides for applications in microwave photonics
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Theory of Optical-Filtering Enhanced Slow and Fast Light Effects in Semiconductor Optical Waveguides
Publication: Research - peer-review › Journal article – Annual report year: 2008

Projects:

Dynamics and noise of Photonic-crystal based nano and micro lasers
Xue, W.
01/01/2013 → ...
Project

Governing the speed of light
Mørk, J., Gregersen, N., Yvind, K., Kristensen, P. T., Hansen, P. L., Semenova, E., Xue, W., Pu, M. & Larsson, D.
01/09/2008 → 31/12/2011
Project

Slow and Fast Light for Applications in Microwave Photonics
Xue, W., Mørk, J., Sales, S., Öhman, F., Oxenløwe, L. K., Morthier, G. J. I. & Nielsen, M. L.
01/07/2007 → 29/09/2010
Project: PhD

Activities:

International Nano-Optoelectronics Workshop (iNOW)
Xue, W. (Participant)
10 Aug 2009 → 14 Aug 2009
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.