

Dr N P Johnson Journal Publication List

- 54 Emission characteristics of photonic crystal light-emitting diodes
Ali Z. Khokhar, Keith Parsons, Graham Hubbard, Ian M. Watson, Faiz Rahman, Douglas S. Macintyre, Chang Xiong, David Massoubre, Zheng Gong, Erdan Gu, **Nigel P. Johnson**, Richard M. De La Rue, Martin D. Dawson, Steve J. Abbott, Martin D. B. Charlton, and Martin Tillin Vol. 50, No. 19 / APPLIED OPTICS 3233 - 3239 (2011)
- 53 Resonance hybridization in nanoantenna arrays based on asymmetric split-ring resonators
Basudev Lahiri, Scott G. McMeekin, Richard M. De La Rue, and **Nigel P. Johnson** Applied Physics Letters **98**, 153116 (2011)
- 52 Preparation and Properties of Gold-infiltrated Polystyrene Photonic Crystals, A.Z. Khokhar, F.Rahman and, **N.P.Johnson**
Journal of Physics and Chemistry of Solids 72 (2011) 185–189,
doi:10.1016/j.jpccs.2010.12.010
- 51 Photonic crystal heterostructures from self-assembled opals
Ali Z. Khokhar, Faiz Rahman and **Nigel P. Johnson**, Applied Physics A: Materials Science & Processing (2010) DOI: 10.1007/s00339-010-6145-7
- 50 'Nanofabrication of gallium nitride photonic crystal light-emitting diodes',
Ali Z. Khokhar, Keith Parsons, Graham Hubbard, Faiz Rahman, Douglas S. Macintyre, Chang Xiong, David Massoubre, Zheng Gong, **Nigel P. Johnson**, Richard M. De La Rue, Ian M. Watson, Erdan Gu, Martin D. Dawson, Steve J. Abbott, Martin D. Charlton and Martin Tillin, *Microelectronic Engineering*, **87**, 2200 - 2207, (2010).
49. 'Impact of titanium adhesion layers on the response of arrays of metallic split-ring resonators (SRRs)', Basudev Lahiri, Rafal Dylewicz, Richard M. De La Rue and **Nigel P. Johnson**, *Optics Express*, **18**(11), pp. 11202-11208, 24th May (2010).
48. 'Design and Fabrication of High Quality-Factor 1-D Photonic Crystal/Photonic Wire Extended Microcavities', Ahmad Rifqi Md Zain, **Nigel P. Johnson**, Marc Sorel and Richard M. De La Rue, , *IEEE Photonics Technology Letters*, **22**(9), pp. 610 - 612, 1st May (2010).
47. Magnetic response of split ring resonators (SRRs) at visible frequencies
Basudev Lahiri, Scott G. McMeekin, Ali Z. Khokhar, Richard M. De La Rue and **Nigel P. Johnson**, *Optics Express* Vol 18 No3 (02-01-2010)
46. All-optical switching in silicon-on-insulator photonic wire nano-cavities
Michele Belotti, Matteo Galli, Dario Gerace, Lucio Claudio Andreani, Giorgio Guizzetti, Ahmad R. Md Zain, **Nigel P. Johnson**, Marc Sorel and Richard M. De La Rue, *Optics Express* Vol. 18, No. 2 1450-1461 (2010)

45. High Quality-Factor 1-D-Suspended Photonic Crystal/Photonic Wire Silicon Waveguide Micro-Cavities
Ahmad Rifqi Md Zain, **Nigel P. Johnson**, Marc Sorel, and Richard M. De La Rue
IEEE Photonics Technology Letters, Vol. 21, NO. 24, p1789-1791 (2009)
44. **Johnson NP**, De La Rue RM, De La Rue SA (2009) Metamaterials at Optical Frequencies: Fabrication and Measurements. In: Applications of Metamaterials. Pub CRC Press, Ed Capolino F. Chapter 30:30.1-30.12
43. Coupling strength control in photonic crystal/photonic wire multiple cavity devices
A.R.Md Zain, **N.P. Johnson**, M. Sorel and R.M.De La Rue, Electronics Letters Vol. 45 No. 5 p. 283-285 (2009)
42. Asymmetric split ring resonators for optical sensing of organic materials. Basudev Lahiri, Ali Z. Khokhar, Richard M. De La Rue, Scott G. McMeekin and **Nigel P. Johnson**. Optics Express. Vol. 17, Issue 2, pp. 1107-1115, (2009)
41. Ohmic contact formation to bulk and heterostructure gallium nitride family semiconductors
Faiz Rahman, Sun Xu, Ian M. Watson, Dinesh Kumar, Baid Mutha, Richard K. Oxland, **Nigel P. Johnson**, Abhishek Banerjee, Edward Wasige. Appl Phys A 94 p 633-639 (2009) DOI 10.1007/s00339-008-4848-9
40. Ultra high quality factor one dimensional photonic crystal/photonic wire micro-cavities in silicon-on-insulator (SOI)
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38. Stibnite Inverse Opal
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37. Observations of defect propagation in [100]-oriented opal type photonic crystals
Chongjun Jin (金崇君), Richard M. De La Rue and **Nigel P. Johnson**
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33. Photonic crystal and photonic wire nano-photonics based on silicon-on-insulator, Richard De La Rue, Harold Chong, Marco Gnan, **Nigel Johnson**, Iraklis Ntaklis, Pierre Pottier, Marc Sorel, Ahmad Md Zain, Hua Zhang, Edilson Camargo, Chongjun Jin, Mario Armenise and Caterina Ciminell *New J. Phys.* 8, (2006) 256.
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31. Characterisation at infra-red wavelengths of metamaterials formed by thin-film metallic split-ring resonator arrays on silicon, **N. P. Johnson**, A. Z. Khokhar, H. M. H. Chong, R. M. De La Rue and S. McMeekin *Electronics Letters* 42 p1117-1118 (2006)
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29. Generation of white light from optically pumped gallium nitride epilayers, Faiz Rahman and **Nigel P. Johnson** *Applied Physics Letters* 89, 021105-1 to 021105-3 (2006)
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