Jakob Rosenkrantz de Lasson - DTU Orbit (31/12/2017)

de Lasson, Jakob Rosenkrantz

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Department of Photonics Engineering - Postdoc, Former

Publications:

Benchmarking five computational methods for analyzing large photonic crystal membrane cavities
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Comparison of Five Computational Methods for Computing Q Factors in Photonic Crystal Membrane Cavities
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Comparison of Five Numerical Methods for Computing Quality Factors and Resonance Wavelengths in Photonic Crystal Membrane Cavities
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Modeling open nanophotonic systems using the Fourier modal method: Generalization to 3D Cartesian coordinates
Häyrynen, T., Østerkryger, A. D., de Lasson, J. R. & Gregersen, N. 2017 In : Journal of the Optical Society of America A. 34, 9, p. 1632-1641
Publication: Research - peer-review › Journal article – Annual report year: 2017

A modal approach to light emission and propagation in coupled cavity waveguide systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Comparison of four computational methods for computing Q factors and resonance wavelengths in photonic crystal membrane cavities
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Open-geometry Fourier modal method: modeling nanophotonic structures in infinite domains
Häyrynen, T., de Lasson, J. R. & Gregersen, N. 2016 In : Journal of the Optical Society of America A. 33, 7, p. 1298-1306
Publication: Research - peer-review › Journal article – Annual report year: 2016

Site-controlled quantum dots coupled to photonic crystal waveguides
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Spectral symmetry of Fano resonances in a waveguide coupled to a microcavity
Publication: Research - peer-review › Journal article – Annual report year: 2016
Design and simulations of highly efficient single-photon sources
Publication: Research - peer-review › Paper – Annual report year: 2015

Design of Slow and Fast Light Photonic Crystal Waveguides for Single-photon Emission Using a Bloch Mode Expansion Technique
de Lasson, J. R., Rigal, B., Kapon, E., Mørk, J. & Gregersen, N. 2015
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Impact of slow-light enhancement on optical propagation in active semiconductor photonic crystal waveguides
Publication: Research - peer-review › Journal article – Annual report year: 2015

Investigations on the parity of Fano resonances in photonic crystals
Østerkryger, A. D., de Lasson, J. R., Yu, Y., Mørk, J. & Gregersen, N. 2015
Publication: Research - peer-review › Poster – Annual report year: 2015

Modeling and simulations of light emission and propagation in open nanophotonic systems
Publication: Research › Ph.D. thesis – Annual report year: 2016

Semi-analytical quasi-normal mode theory for the local density of states in coupled photonic crystal cavity-waveguide structures
Publication: Research - peer-review › Letter – Annual report year: 2015

A Bloch modal approach for engineering waveguide and cavity modes in two-dimensional photonic crystals
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

A Bloch mode expansion approach for analyzing quasi-normal modes in open nanophotonic structures
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Calculation, normalization and perturbation of quasinormal modes in coupled cavity-waveguide systems
Publication: Research - peer-review › Journal article – Annual report year: 2014

Roundtrip matrix method for calculating the leaky resonant modes of open nanophotonic structures
Publication: Research - peer-review › Journal article – Annual report year: 2014

Scaling of the Surface Plasmon Resonance in Gold and Silver Dimers Probed by EELS
Publication: Research - peer-review › Journal article – Annual report year: 2014

Calibrating Au and Ag plasmonic rulers with EELS
Publication: Research - peer-review › Poster – Annual report year: 2013
May 2014
Activity: Talks and presentations › Conference presentations

Nanofotonik og fotoniiske krystaler – Tryllekunster med lys
de Lasson, J. R. (Invited speaker)
Apr 2014
Activity: Talks and presentations › Conference presentations

SPIE Photonics Europe Conference 2014
de Lasson, J. R. (Speaker)
Apr 2014
Activity: Talks and presentations › Conference presentations

Les Houches Summer School
de Lasson, J. R. (Participant)
Aug 2013 → …
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

International Physics Olympiad
de Lasson, J. R. (External examiner)
Jul 2013
Activity: Examinations and supervision › External examination

5th International Workshop on Theoretical and Computational Nano-Photonics
de Lasson, J. R. (Speaker)
Oct 2012
Activity: Talks and presentations › Conference presentations