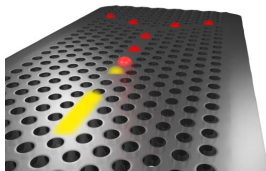
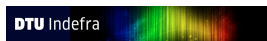


Et Digitalt og Udadvendt Ph.D. Studium

Jakob Rosenkrantz de Lasson

 @jakobrdl
www.jakobrdl.dk



Hotel Nyborg Strand, 4. november 2015



 **DTU Fotonik**
Institut for Fotonik



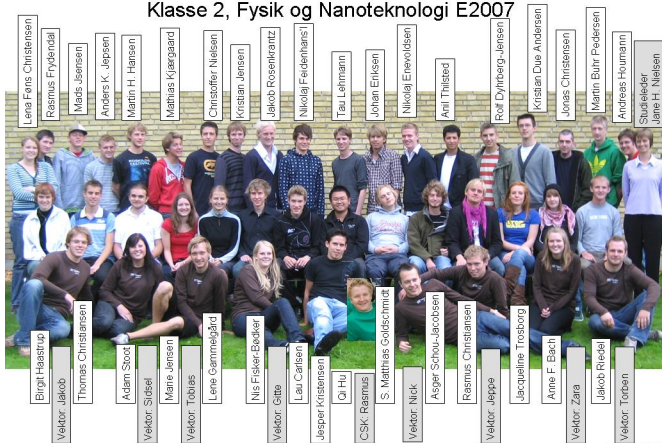
I. Min baggrund



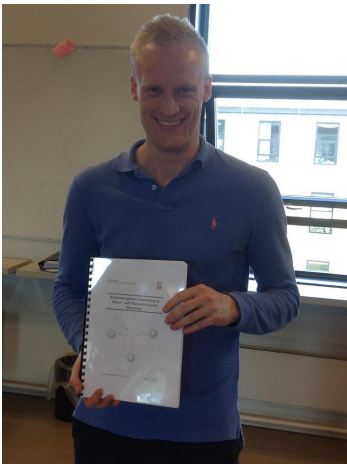


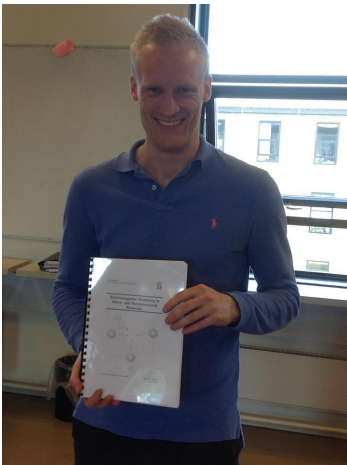


Klasse 2, Fysik og Nanoteknologi E2007

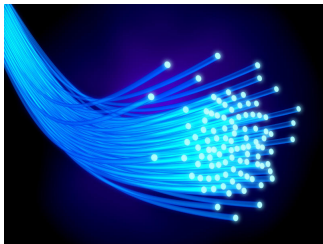


3. september 2007









II. Mit Digitale Workflow

My Digital Workflow

June 5, 2013

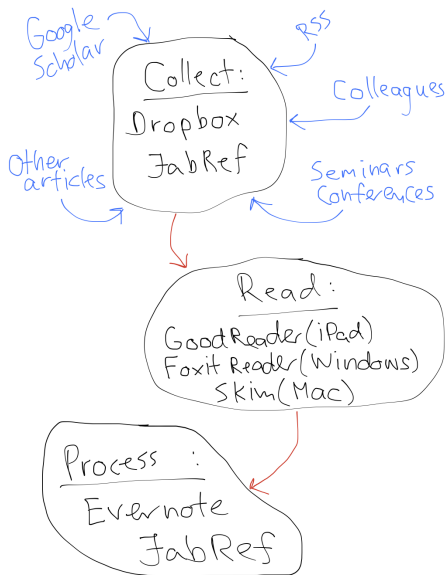
<http://www.jakobrdl.dk/blog/2013/06/my-digital-workflow>

My Digital Workflow

June 5, 2013

- iPad (tablet from Apple)
- Dropbox (cloud storage service)
- JabRef (reference manager for Windows/OS X/Linux)
- GoodReader (document reader app for iPad)
- PocketBib (reference manager app for iPad)
- Notability (note writing app for iPad)
- Simplenote (note typing app for iPad)

<http://www.jakobrdl.dk/blog/2013/06/my-digital-workflow>



<http://www.jakobrdl.dk/blog/2015/02/taming-the-information-overflow-part-2>

Context and Structure in Your Work: Tagging References, Documents and Notes

January 18, 2014

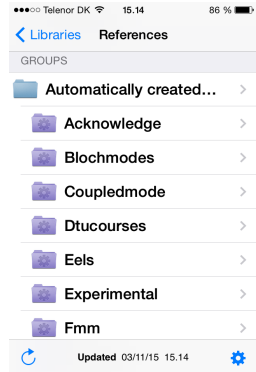
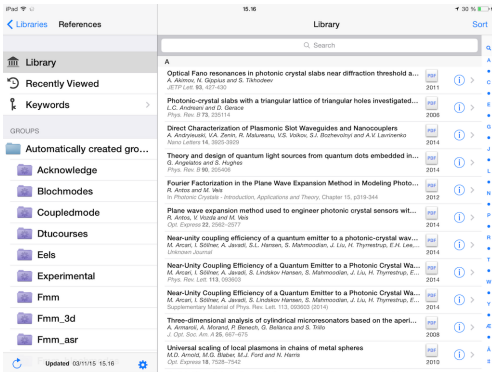
The screenshot shows the JabiRef application window. The main window displays a list of references with columns: #, Entry, Author, Title, Year, Journal, Owner, Timestamp, and Bibtexkey. The list includes entries 1 through 19, with entry 6 highlighted. A search results popup is visible, showing a table with columns: Author, Title, Year, and Journal. The search results include entries for Angelatos and Hughes, Arcari et al., Ba Hoang et al., and Birowosuto et al. The search results also show the full citation for the selected entry: Arcari et al. (2014), Near-Unity Coupling Efficiency of a Quantum Emitter to a Photonic Crystal Waveguide, Phys. Rev. Lett., American Physical Society, 2014, 113, 083603.

Search results

Author	Title	Year	Journal
Angelatos and Hughes	Theory and design of quantum light sources from quantum...	2014	Phys. Rev. B
Arcari et al.	Near-unity coupling efficiency of a quantum emitter to a...	2014	
Arcari et al.	Near-Unity Coupling Efficiency of a Quantum Emitter to a...	2014	Phys. Rev. L...
Ba Hoang et al.	Enhanced spontaneous emission from quantum dots in sh...	2012	Appl. Phys. ...
Birowosuto et al.	Movable high-Q nanoresonators realized by semiconductor...	2014	Nat. Mater.

Article (Arcari2014)
Arcari, M.; Söller, I.; Javadi, A.; Lindskov Hansen, S.; Mahmoodian, S.; Liu, J.; Thyrestруп, H.; Lee, E. H.; Song, J. D.; Stobbe, S. & Lodahl, P.
Near-Unity Coupling Efficiency of a Quantum Emitter to a Photonic Crystal Waveguide
Phys. Rev. Lett., American Physical Society, 2014, 113, 083603

<http://www.jakobrdl.dk/blog/2014/01/context-and-structure-in-your-work-tagging-references-documents-and-notes>



<http://www.jakobrdl.dk/blog/2014/01/context-and-structure-in-your-work-tagging-references-documents-and-notes>

Snart fyraften - har du husket at journalisere dit arbejde og dine tanker?

Af Jakob Rosenkrantz de Lasson 3. dec 2014 kl. 17:23

<http://ing.dk/blog/snart-fyraften-har-du-husket-journalisere-dit-arbejde-og-dine-tanker-172699>

<http://www.jakobrdl.dk/blog/2013/10/the-art-of-writing-a-ph-d-work-log>

Snart fyraften - har du husket at journalisere dit arbejde og dine tanker?

Af Jakob Rosenkrantz de Lasson 3. dec 2014 kl. 17:23

The screenshot shows a web application interface for a work log. On the left is a sidebar with navigation links: 'Genvæje', 'Indkøb', 'Noter 3927', 'Notesbøger', 'IDiverse 12', 'Inbox 10', 'Udby 14', 'Blogging', 'DigitalArchive', 'PhD', 'Papirkun 698', 'Mærker', and 'Opgrader'. The main area is titled 'Thesis' and contains a table with columns 'Opløst' and 'Titel'. The table lists various tasks related to a thesis, such as 'Kapitel: Introduction og Conclusion', 'Kapitel: Leaky nanophotonic structures: Quasi-norm...', 'Kapitel: Photonics engineering in nanostructures', 'Kapitel: Plasmonic dimer antenna', 'Generelle spørgsmål og overvejelser', 'Kapitel: Optical amplification in slow light photonic cr...', 'My Papers', 'Kapitel: Single-photon emission in photonic crystal w...', 'Kapitel: Photonics engineering in nanostructures', 'Kapitel: Boundary conditions', 'Kapiteloversigt', 'Kapitel: Fourier modal method and Bloch mode', and 'Ph.D. Thesis Overview (v2)'. Below the table, there is a section titled 'Videre arbejde' with four numbered items: 1. 'Indledende beskrivelse af QNMer (afsnit 5.1)', 2. 'Skrive Purcell faktor afsnit', 3. 'Afklar ang. LDOs-beregning', and 4. 'Beregninger af QNMer med volumenintegralligning'. At the bottom, there is a preview of a PDF file named 'ModeVolume_EandH.pdf' with a size of 42.6 KB.

<http://ing.dk/blog/snart-fyraften-har-du-husket-journalisere-dit-arbejde-og-dine-tanker-172699>

<http://www.jakobrdl.dk/blog/2013/10/the-art-of-writing-a-ph-d-work-log>

III. 1000 Måder at Formidle

Communicate Your Research Frequently and at All Levels

June 21, 2015

<http://www.jakobrdl.dk/blog/2015/06/communicate-your-research-frequently-and-at-all-levels>

Communicate Your Research Frequently and at All Levels

June 21, 2015

- Why communicating research is beneficial
- How to communicate: Research presentations
- How to communicate: Visit other research institutions
- How to communicate: Write a blog
- How to communicate: Lecture in courses
- How to communicate: Present to high schools
- How to communicate: Popular scientific presentations

<http://www.jakobrdl.dk/blog/2015/06/communicate-your-research-frequently-and-at-all-levels>

Communicate Your Research Frequently and at All Levels

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- How to communicate: Popular scientific presentations



Anders Bjarklev,
rektor, DTU
DTU-rektor@post.dtu.dk

Bjarklev skriver / President's letter

Træd frem på scenen

FORBILLEDER Flere forskere skal optræde som rollemodeller for de unge, der skal vælge uddannelse.

<http://www.jakobrdl.dk/blog/2015/06/communicate-your-research-frequently-and-at-all-levels>



Jakob Rosenkrantz de Lassen fortæller om fotonik på EG

FYSIK / LEGEPLADSEN

Er lys partikler eller bølger?

Forskningens døgn med fotonik på EG

Af Nadia Mohammadzadeh 2.x

Har du nogensinde undret dig over hvordan lyspartikler breder sig? Er lys en partikel eller en bølge? Eller måske har du i hele taget blot undret dig over, hvordan det egentlig er muligt at sende en e-mail fra den ene ende af verden til den anden?



≡ Pulse

[Publish a post](#)

The Optical Mode Volume: Where Does it Come From?

Jakob Rosenkrantz de...

How To Experience Flow and Get Crazy Productive

Dr. Travis Bradberry

More Turbulence In The "Open Skies" As Delta Cancels Route, Blaming "Unfair Competition"

George Hobica

20 Stupid Claims About Big Data

Bernard Marr

Streaming Costing You More Than You Think?

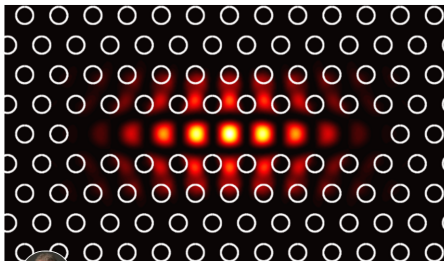
Anurag Harsh

How to drive corporate discussions; Dilemma of Leaders

Varun Mohanpuria

Great Leaders Need Great Mentors

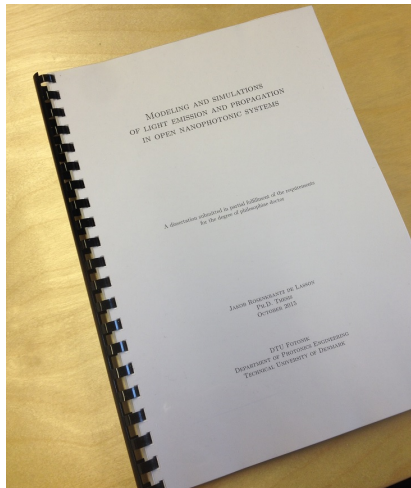
Andreas von der Heydt

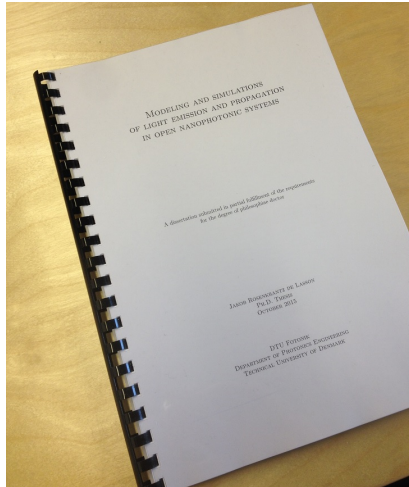
**Jakob Rosenkrantz de Lasson**Engineer | Ph.D. student in nanophotonics | Blogger at [ing.dk](#) | Passion for science and research [...][Edit post](#)[View stats](#)

The Optical Mode Volume: Where Does it Come From?

Aug 6, 2015 | 165 views | 7 Likes | 0 Comments | [in](#) [f](#) [t](#)

In his seminal 1946 paper, Nobel laureate [Edwin M. Purcell](#) proposed that the [spontaneous emission](#) (SE) rate of an atom is not an intrinsic property, but is modified, as compared to the SE rate in a bulk medium, when placed inside a resonant cavity. This SE enhancement (or suppression) factor is now known as the [Purcell factor](#).





...Tak for opmærksomheden ☺