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# Publish your research Open Access

Scientific Writing

May 10, 2016

Aina Svensson, Electronic Publishing Centre
Uppsala University Library

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# Content

- About DiVA
- What is Open Access
- Journals – different models
- Research funders
- How to publish Open Access
- Library support

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# Electronic Publishing Centre (EPC)

- About us
  - We give support to researchers and staff on publishing issues diva-helpdesk@ub.uu.se
  - We handle the entire publication process for doctoral theses and give advice in graphic design.
  - We work for increased open access publishing at Uppsala University.
  - We lead the development of the database DiVA.

We are located in Carolina Rediviva →

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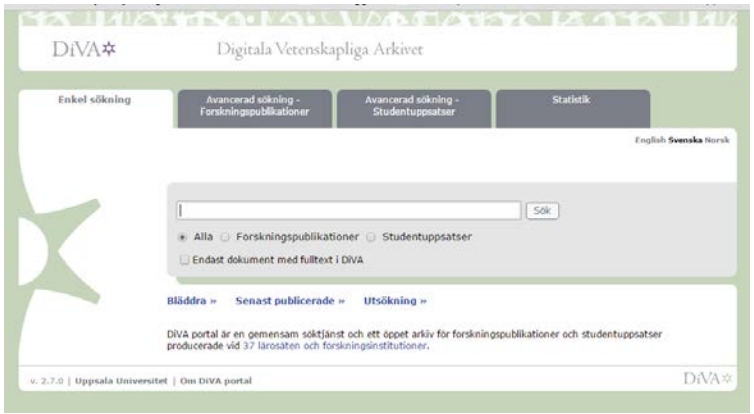
# What is DiVA?

- DiVA is an institutional repository for scholarly publications.
  - Contains all kind of publications produced by researchers, teachers and students.
  - Open to everyone to search, full texts in DiVA are free to read and download.



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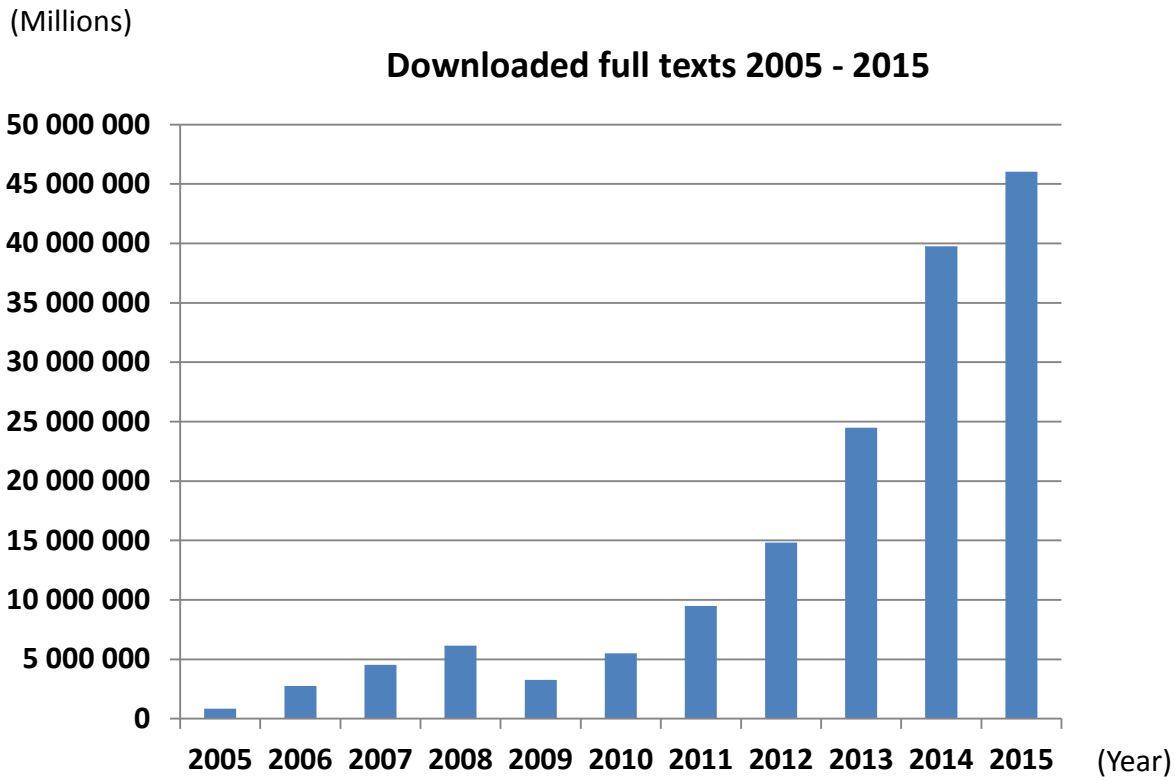
# DiVA web statistics

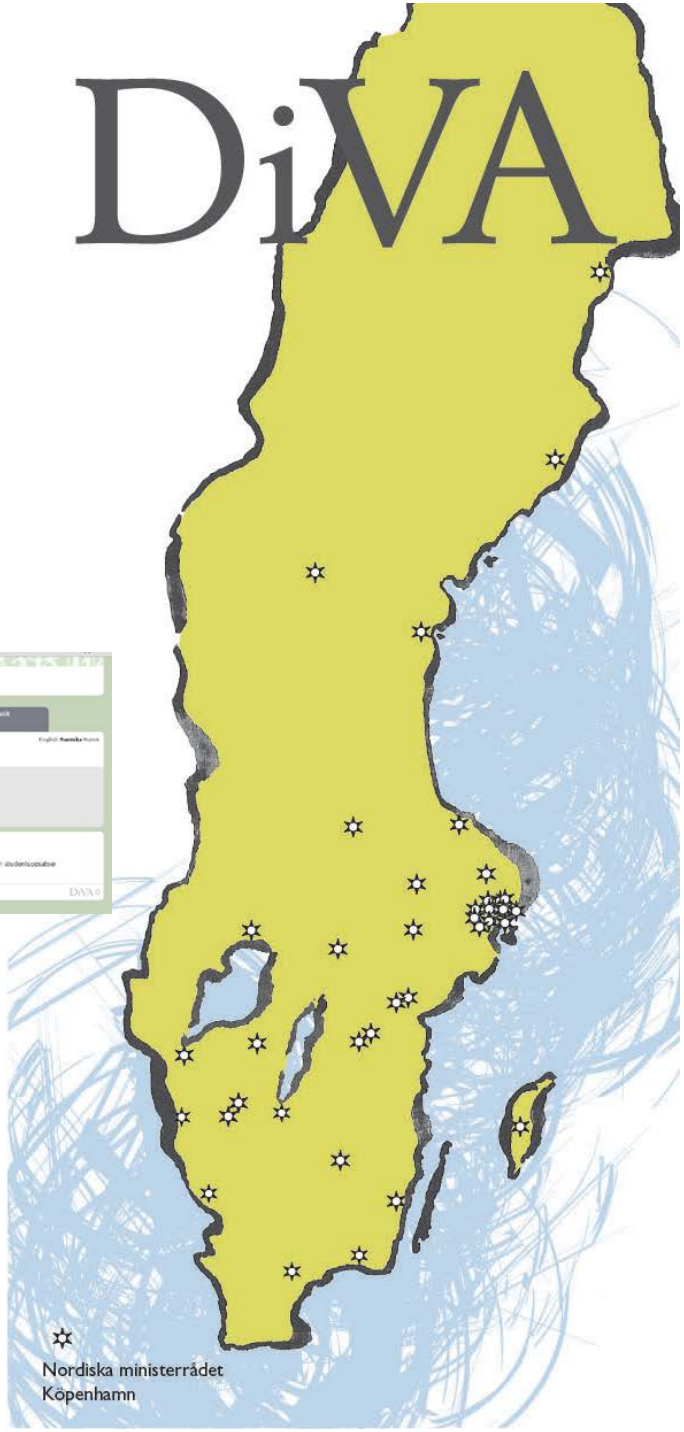



DiVA-portal contains 230 000 full texts (830 000 references)



**DiVA publishing system:**

- Used by 40 universities and other organisations
- Common layout but different colours and logos – local search interface
- A common search tool: DiVA-portal
- Joint financing by members



How DiVA is used

Dissemination

Open Access

freely available publications

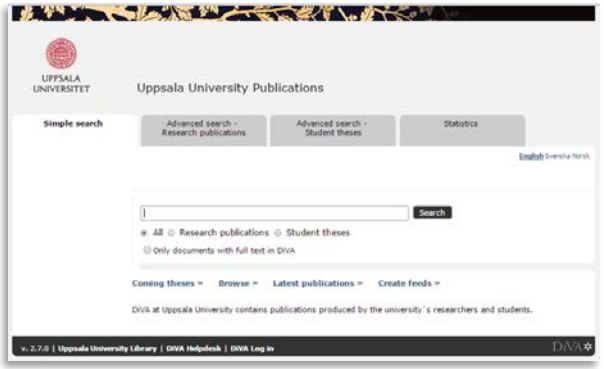
Profile-/web pages at UU
e.g. ”Medarbetarportalen”

Evaluation, statistics,
annual reviews

SwePub
LIBRIS

E-posting

doctoral theses




essays.se,
dissertations.se

Link to webshop

Digital archiving

DRIVER/
OpenAIRE

Data set

Google

Google Scholar etc.

Long-term preservation, persistent links

http://urn.kb.se/resolve?urn=urn:nbn:se:uu:diva-7490

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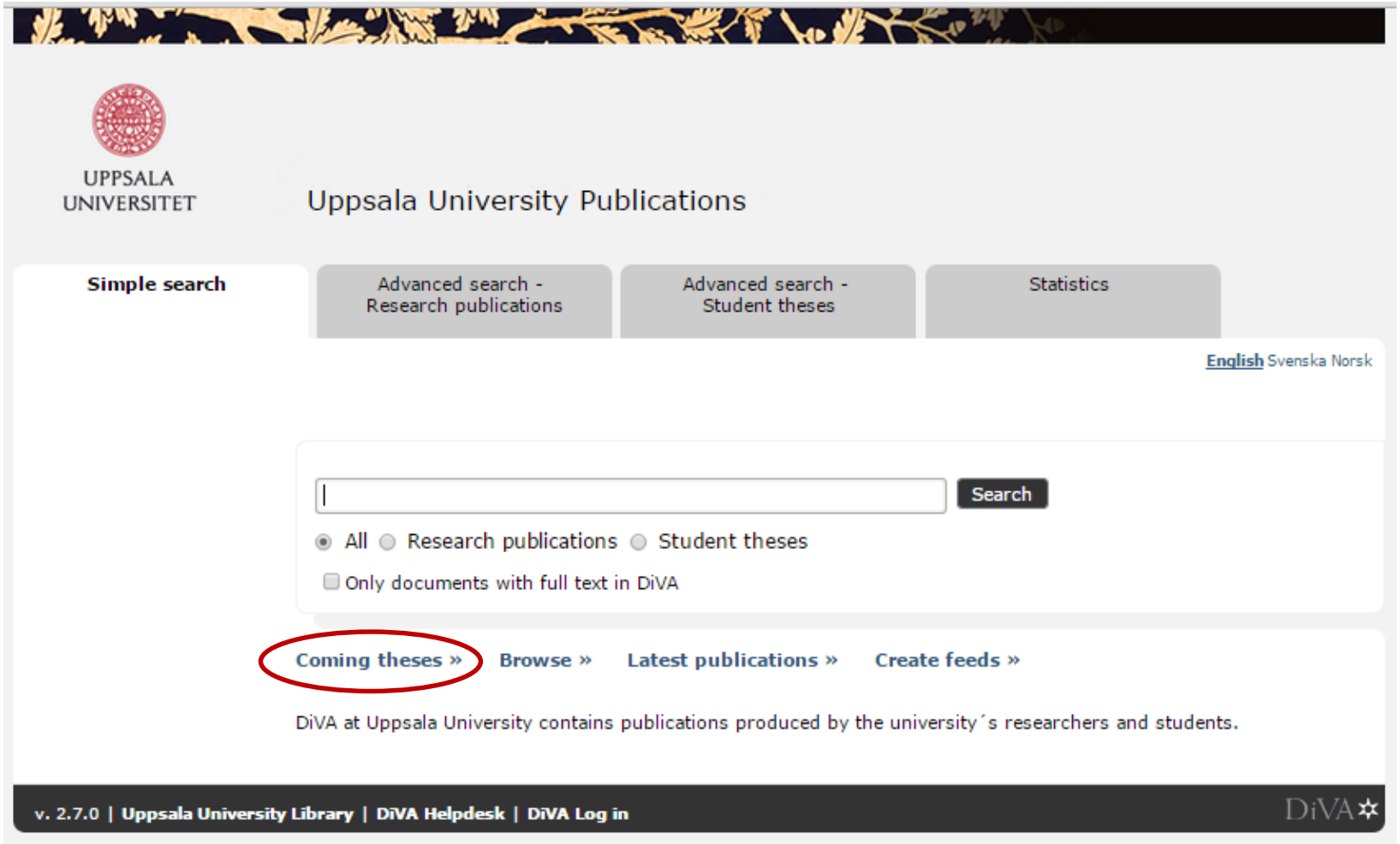
# Search interface – DiVA at Uppsala University



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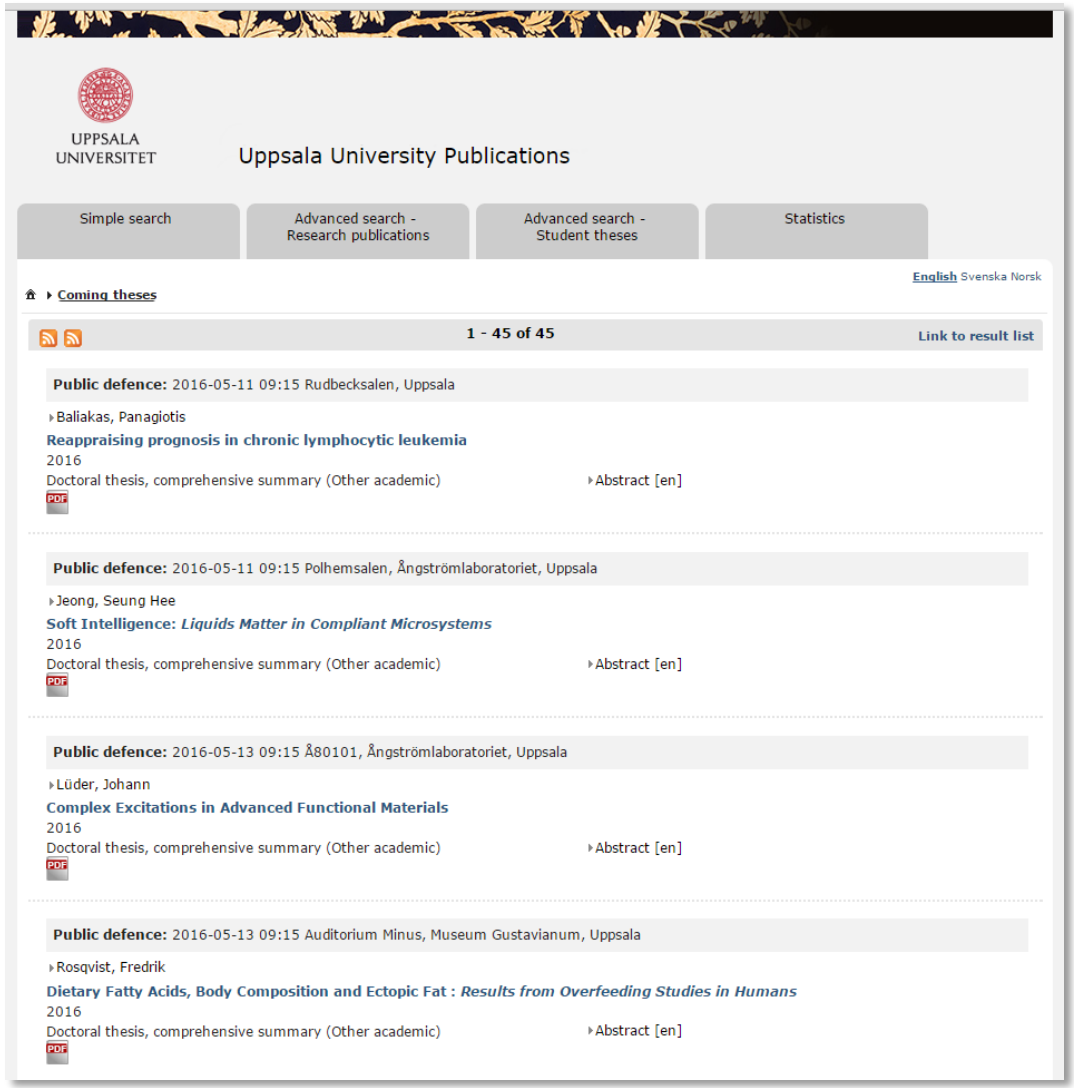
# Coming PhD theses for public defence

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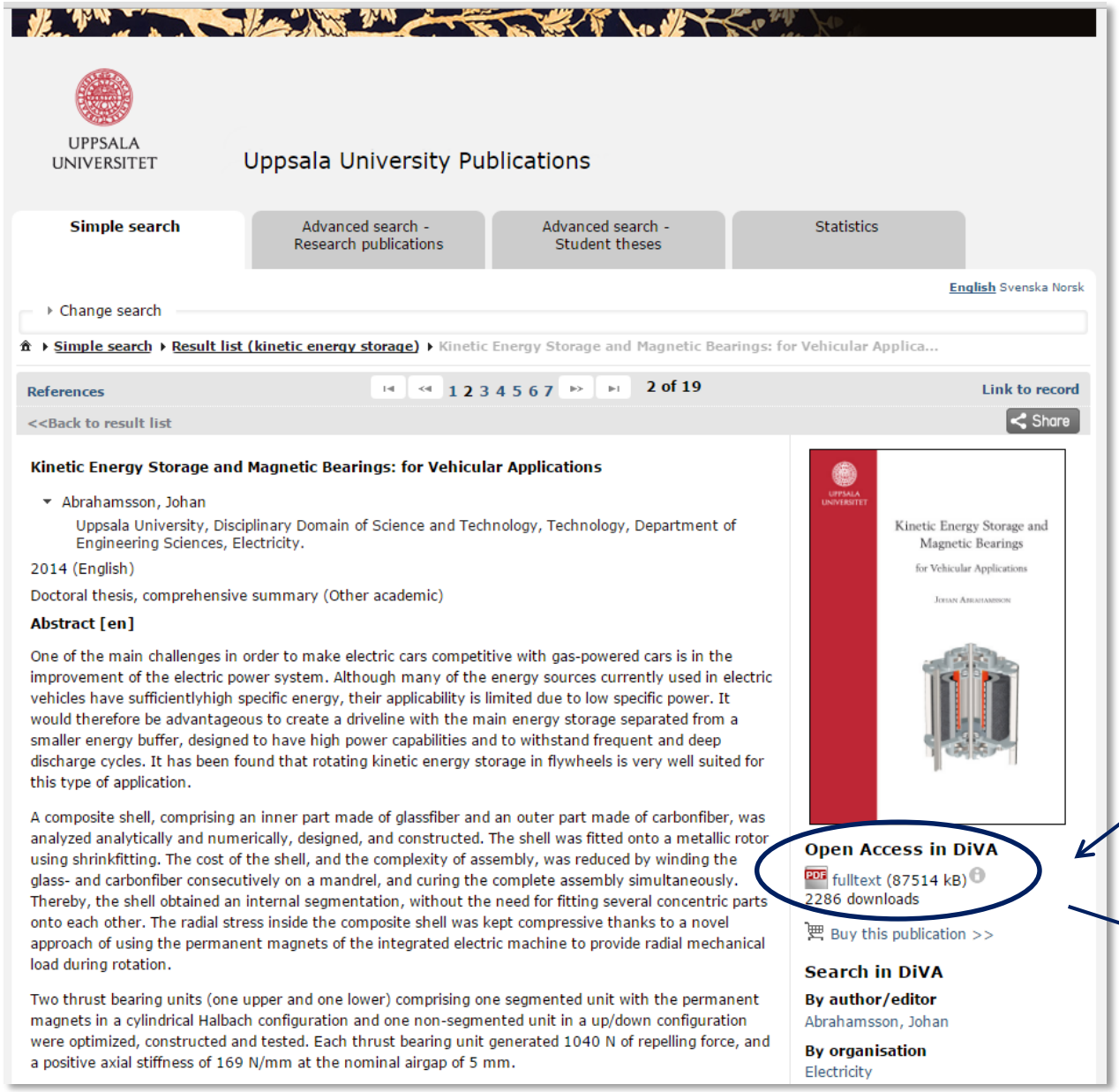
# Open Access or not?

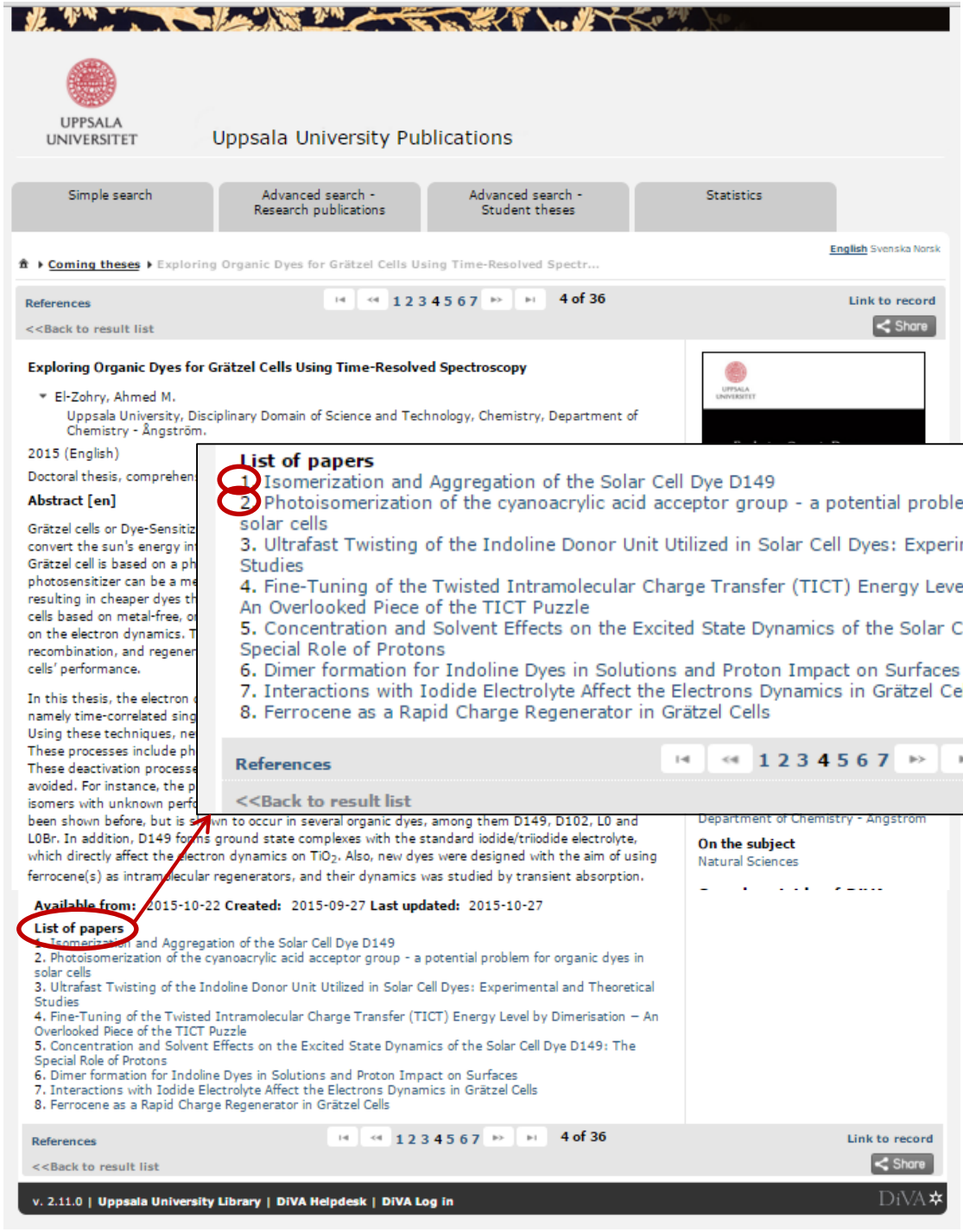
- The PhD thesis as an example
  - The comprehensive summary of the PhD thesis is freely available to read and download from DiVA – Open Access
  - But what about the included articles, already published (or accepted) in a journal…??

# The comprehensive summary – open access in DiVA




Google

Free to read




List of papers
1. Isomerization and Aggregation of the Solar Cell Dye D149
2. Photoisomerization of the cyanoacrylic acid acceptor group - a potential problem for organic dyes in solar cells
3. Ultrafast Twisting of the Indoline Donor Unit Utilized in Solar Cell Dyes: Experimental and Theoretical Studies
4. Fine-Tuning of the Twisted Intramolecular Charge Transfer (TICT) Energy Level by Dimerisation – An Overlooked Piece of the TICT Puzzle
5. Concentration and Solvent Effects on the Excited State Dynamics of the Solar Cell Dye D149: The Special Role of Protons
6. Dimer formation for Indoline Dyes in Solutions and Proton Impact on Surfaces
7. Interactions with Iodide Electrolyte Affect the Electrons Dynamics in Grätzel Cells
8. Ferrocene as a Rapid Charge Regenerator in Grätzel Cells
References
1 2 3 4 5 6 7
4 of 36
Link to record
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What about the included articles – Open Access or not?

# Article 1: Accessible only for subscribers

THE JOURNAL OF PHYSICAL CHEMISTRY C

J. Phys. Chem. A B C Letters Pre-1997





## Isomerization and Aggregation of the Solar Cell Dye D149

Ahmed El-Zohry, Andreas Orthaber, and Burkhard Zietz*
Department of Chemistry - Ångström Laboratories, Box 523, SE-751 20 Uppsala, Sweden

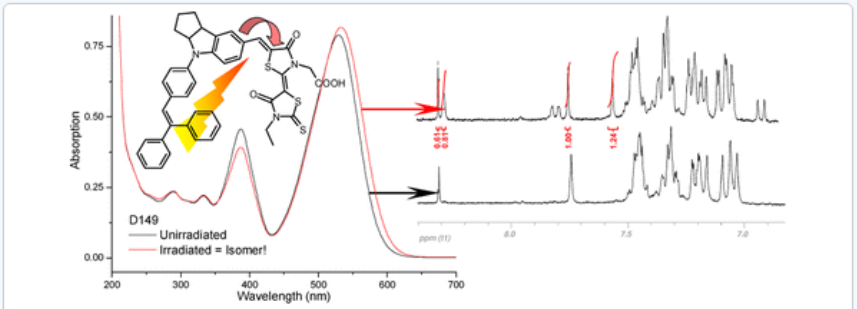
*J. Phys. Chem. C*, **2012**, *116* (50), pp 26144–26153
**DOI:** 10.1021/jp306636w
Publication Date (Web): November 26, 2012



*E-mail: burkhard.zietz@kemi.uu.se.

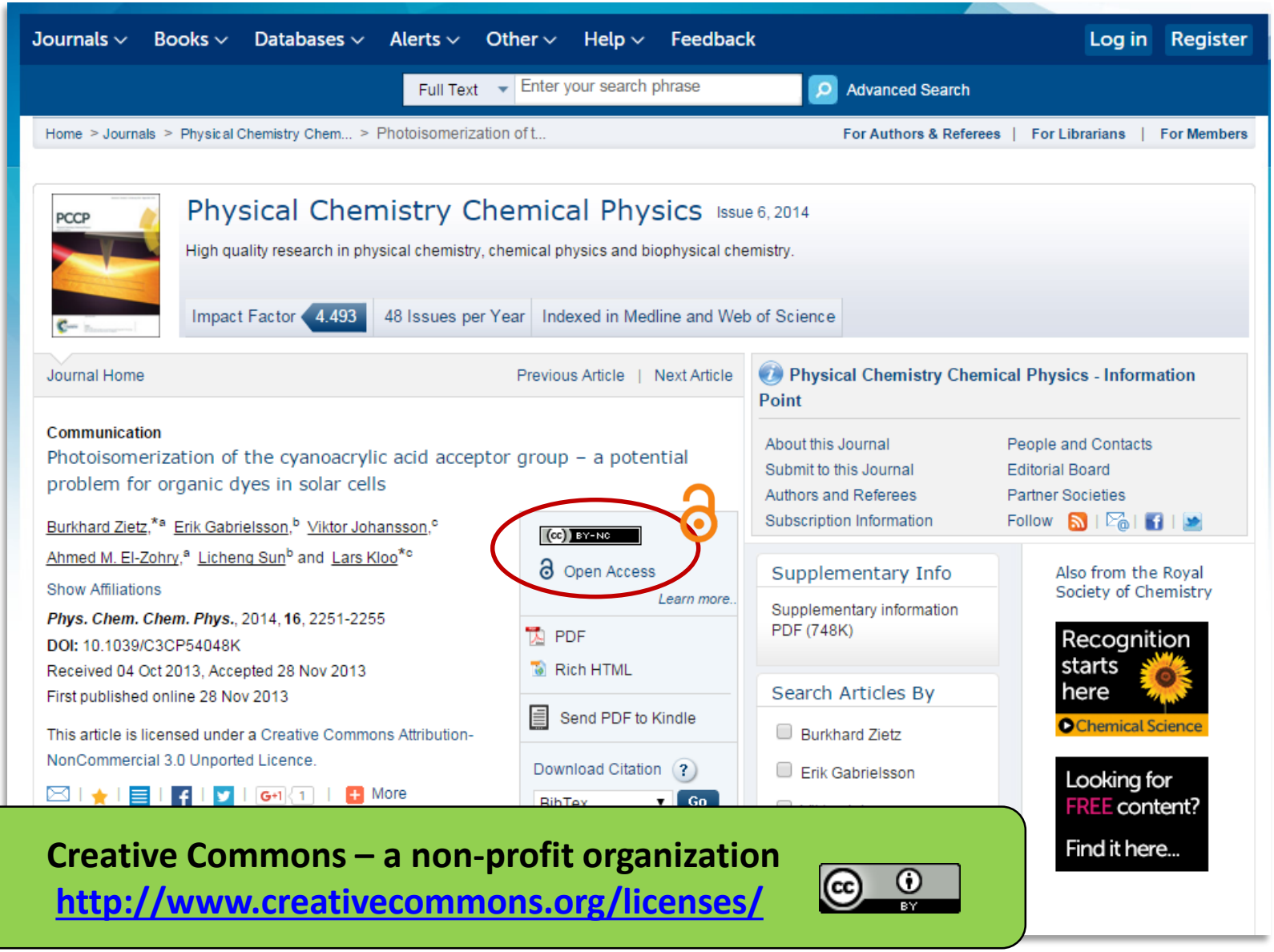
ACS AuthorChoice

### Abstract




D149, a metal-free indoline dye, is one of the most promising sensitizers for dye-sensitized solar cells (DSSCs) and has shown very high solar energy conversion efficiencies of 9%.

# Article 2: Accessible for all (open access)

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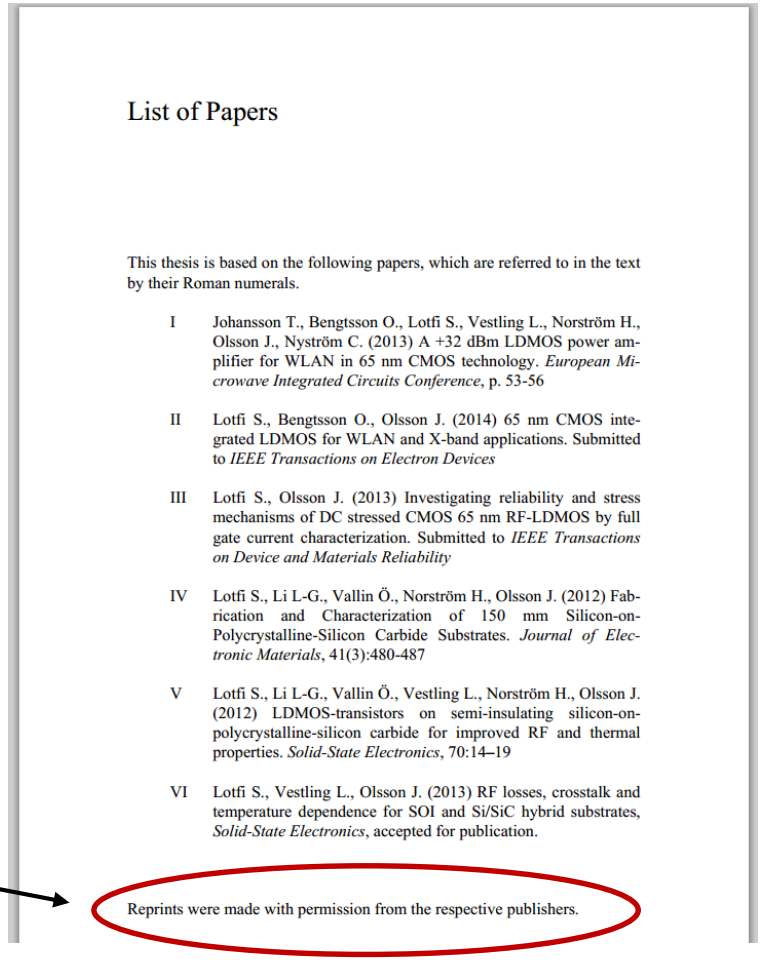
# Are you allowed to included papers in the printed book?

In most cases you need to ask for permission to include reprints in your printed thesis - or check for information on the journal's website!


Reprints were made with permission from the respective publishers.



List of Papers

This thesis is based on the following papers, which are referred to in the text by their Roman numerals.

I Johansson T., Bengtsson O., Lotfi S., Vestling L., Norström H., Olsson J., Nyström C. (2013) A +32 dBm LDMOS power amplifier for WLAN in 65 nm CMOS technology. *European Microwave Integrated Circuits Conference*, p. 53-56

II Lotfi S., Bengtsson O., Olsson J. (2014) 65 nm CMOS integrated LDMOS for WLAN and X-band applications. Submitted to *IEEE Transactions on Electron Devices*

III Lotfi S., Olsson J. (2013) Investigating reliability and stress mechanisms of DC stressed CMOS 65 nm RF-LDMOS by full gate current characterization. Submitted to *IEEE Transactions on Device and Materials Reliability*

IV Lotfi S., Li L-G., Vallin Ö., Norström H., Olsson J. (2012) Fabrication and Characterization of 150 mm Silicon-on-Polycrystalline-Silicon Carbide Substrates. *Journal of Electronic Materials*, 41(3):480-487

V Lotfi S., Li L-G., Vallin Ö., Vestling L., Norström H., Olsson J. (2012) LDMOS-transistors on semi-insulating silicon-on-polycrystalline-silicon carbide for improved RF and thermal properties. *Solid-State Electronics*, 70:14–19

VI Lotfi S., Vestling L., Olsson J. (2013) RF losses, crosstalk and temperature dependence for SOI and Si/SiC hybrid substrates, *Solid-State Electronics*, accepted for publication.

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# Scientific journals

- Different models
  - Subscription-based journals
  - Hybrid journals
  - Open access journals

In common: peer-review!

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# Subscription-based journals

- Articles available only to readers with subscriptions
  - eg. at University campus
- Copyright is transferred to the publisher/journal
- Usually no general publishing fees
  - exception for colour images etc

➔ University libraries pay annually (with money from faculties) for *access* to articles

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# Hybrid journals

- Many subscription-based publishers have an option for authors to have their particular article made OA
  - For an additional fee (ca $ 3000 per article)

➔ Libraries pay for subscriptions AND researchers pay for wider dissemination

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# Open access journals

- Articles are freely available for everyone
  - Authors retain copyright – free to reuse article
  - No subscription costs
  - Cover their expenses through article-processing fees (APCs), sometimes sponsorship
    - Publishing fees ca $200 - $3000

➔ Business model: pay once per article for *publishing* no extra cost for access

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# Who pays for the OA-publishing costs?

*Since the OA-model is quite new, there is not one single model*

- Research funders, the research project
- University/University Library
  - Membership in OA publishing houses
    - BioMed Central at UU
  - Universities with central OA funds
    - not yet at UU (in Sweden only Lund and Chalmers have OA funds)

- For OA options in subscription based journals
  - Sometimes discounts are offered, due to the fact that the library subscribes to one or more of the publisher's products (e.g. RSC, ACS)

Check out - discounts on the article-processing fee at UU:
https://mp.uu.se/c/perm/link?p=1367619

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# To summarize - what is open access?

- Free availability of scientific publications on the Internet
  - Free for everyone to read, download, share – taking full account of the authors' copyright

**Meaning …**

- More people can get access to scientific publications
- Research findings can be used to a larger extent
- And cited more!

**To make best use of today's technology!**

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# Important to consider

**Who are the readers – do they have access to your research findings?**

- Other researchers
  - in the same discipline
  - in related disciplines
  - in places with restricted access
- Academics/practitioners outside the University
  - authorities, industry, health care centers etc.
- The public

Publicly funded research should be freely available to everybody

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# Research funders with OA mandates (examples)

- Wellcome Trust, 2005-
- National Institute of Health (NIH), 2008-
- European Research Council (ERC), 2008-
- Swedish Research Council (VR), 2010-
- Formas, 2010-
- Riksbankens Jubileumsfond (RJ), 2010-
- Knut och Alice Wallenberg Foundation, 2010-
- FORTE, Swedish Research Council for Health, Working Life and Welfare, 2012-
- Swedish Environmental Protection Agency, 2014-
- Horizon 2020, EU, 2014
  - Complete list at: **http://www.sherpa.ac.uk/juliet/**

➔ Publications (journal/conference articles) must be made freely available!

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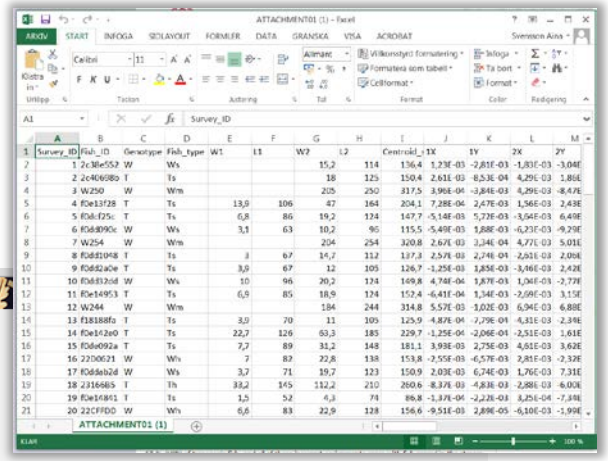
# Research data – open science

- Many funders also have requirements for research data.
  - A ”data management plan” - a document outlining how the research data collected or generated, will be handled during and after a research project. And if possible make it open.

- Open data is data that is free to access, reuse, repurpose, and redistribute (exception for sensitive data).
  - To increase research quality, transparency and scientific progress.

- Data archives
  - Subject-specific archives/databases.
  - DiVA - Data sets can be archived and published in DiVA.

# Aricle in DiVA with data set



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Uppsala University Publications

Simple search | Advanced search - Research publications | Advanced search - Student theses | Statistics

English Svenska Norsk

Change search

Simple search ▸ Result list (fredrik sundström accuracy) ▸ Accuracy of nonmolecular identification of growth-hormone-transgeni...

References 1 of 1 Link to record

<<Back to result list Share

**Accuracy of nonmolecular identification of growth-hormone-transgenic coho salmon after simulated escape**


- Sundström, Fredrik
  Uppsala University, Disciplinary Domain of Science and Technology, Biology, Department of Ecology and Genetics, Animal ecology.
  ORCID iD: 0000-0002-3157-7289
- Lõhmus, Mare
  Karolinska Institute Stockholm, Sweden.
- Devlin, Robert
  DFO Centre for Aquaculture and Environmental Research, West Vancouver, Canada.



2015 (English)

*In:* Ecological Applications, ISSN 1051-0761, E-ISSN 1939-5582, Vol. 25, no 6, 1618-1629 p.

Article in journal (Refereed) Published


**Abstract [en]**


Concerns with transgenic animals include the potential ecological risks associated with rele
the natural environment, and a critical requirement for assessment of ecological effects is
distinguish transgenic animals from wild type. Here, we explore geometric morphometrics
human expertise to distinguish growth-hormone-transgenic coho salmon (*Oncorhynchus*
specimens from wild type. First, we simulated an escape of 3-month-old hatchery-reared


**Open Access in DiVA**

Rawdata (28 kB)
65 downloads

Codes for rawdata (1 kB)
43 downloads

Photos for survey (1774 kB)
33 downloads

fulltext (431 kB)
48 downloads

**Other links**

Publisher's full text

Accuracy of nonmolecular identification of growth-hormone-transgenic coho salmon after simulated escape

SUPPLEMENTAL MATERIAL

**Data Availability**

Data associated with this paper are available from Uppsala University: http://urn.kb.se/resolve?urn=urn:nbn:se:uu:diva-242002

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# Publish open access

- How to comply with OA requirements?
  - Largely depend on the policy of the publisher of the journal you are intending to publish in.
  - Different options …

# Consider before submitting

Is there a suitable open access journal?

**Gold OA option**

**Hybrid OA option**

Is it possible to publish in a non-OA journal and to self-archive in e.g. DiVA?

**Green OA option**

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# OA publishers (examples)

- BioMed Central, Chemistry Central, Springer Open
  - 400+ journals, mainly in medicine and biology, chemistry
- PLOS – Public Library of Science
  - 7 journals; PLOS ONE (”mega-journal”)
- Hindawi Publishing Corporation
  - about 500 journals in science, technology and medicine
- Frontiers
  - 28 journals; medicine, biology, chemistry - also engineering
- Copernicus
  - 28 journals; geoscience, civil engineering and Math/Data/Informatics

Find more OA journals in DOAJ – Directory of Open Access Journals http://doaj.org/

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# Grey zone OA publishers

**Check before submitting a paper to an unknown journal:**

- Is there adequate information about ownership? Which country?
- Clear information about the peer-review process
- Who is on the editorial board? Including full name and home university
- Are the terms in their “License to publish” reasonable?
- Is there adequate contact information?

Members of OASPA (Open Access Scholarly Publishers Association): http://oaspa.org/membership/members/

List of grey zone or predatory OA publishers: http://scholarlyoa.com/publishers/

Think-check-submit: http://thinkchecksubmit.org/

# The options - consider before submitting

Is there a suitable open access journal?

**Gold OA option**

**Hybrid OA option**

Is it possible to publish in a non-OA journal and to self-archive in e.g. DiVA?

**Green OA option**

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# What about the publishers?

- Many publishers allow self-archiving under certain conditions:
  - Usually **the accepted author version** must be used
    - not the publisher's version/PDF
  - Usually there is an embargo period or other restrictions

# What is an ”accepted author version”?

## Same content, different layout

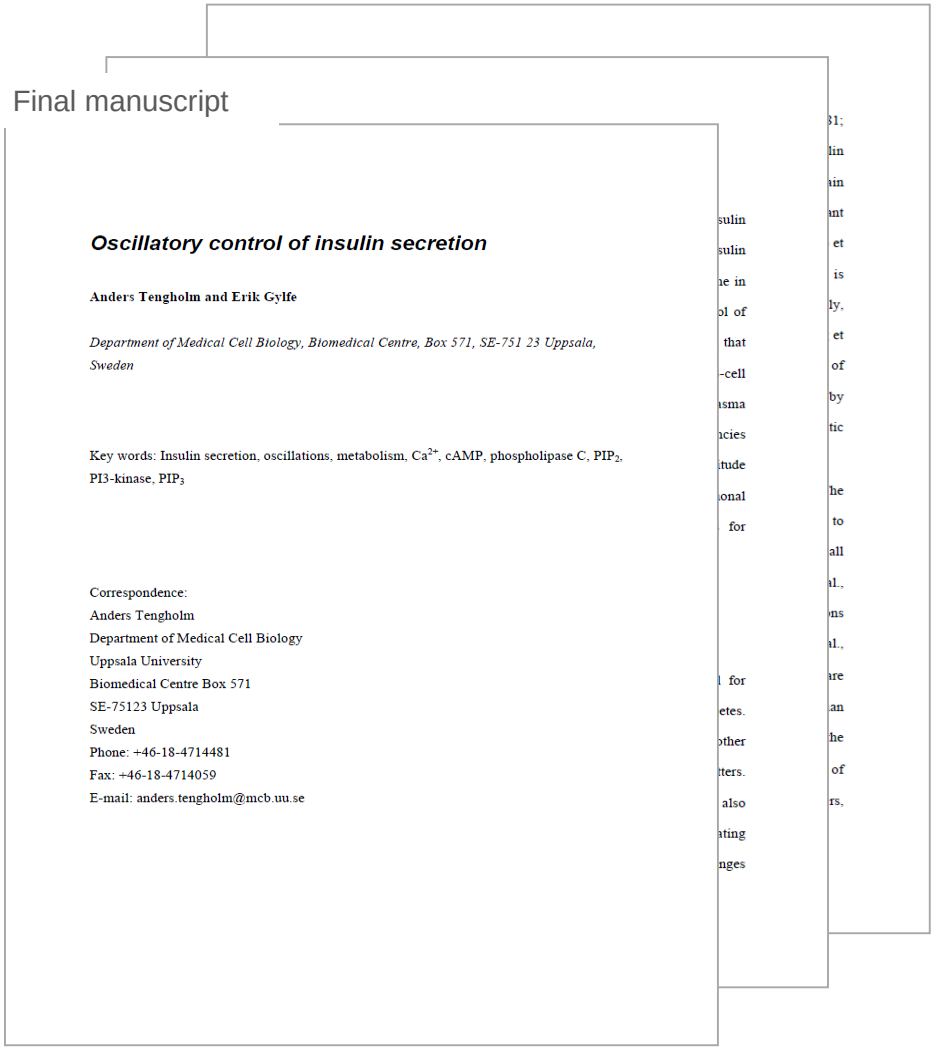
1. The author’s final manuscript of the article, accepted for publication (author’s post-print in SHERPA/RoMEO)

2. Includes revisions after peer review

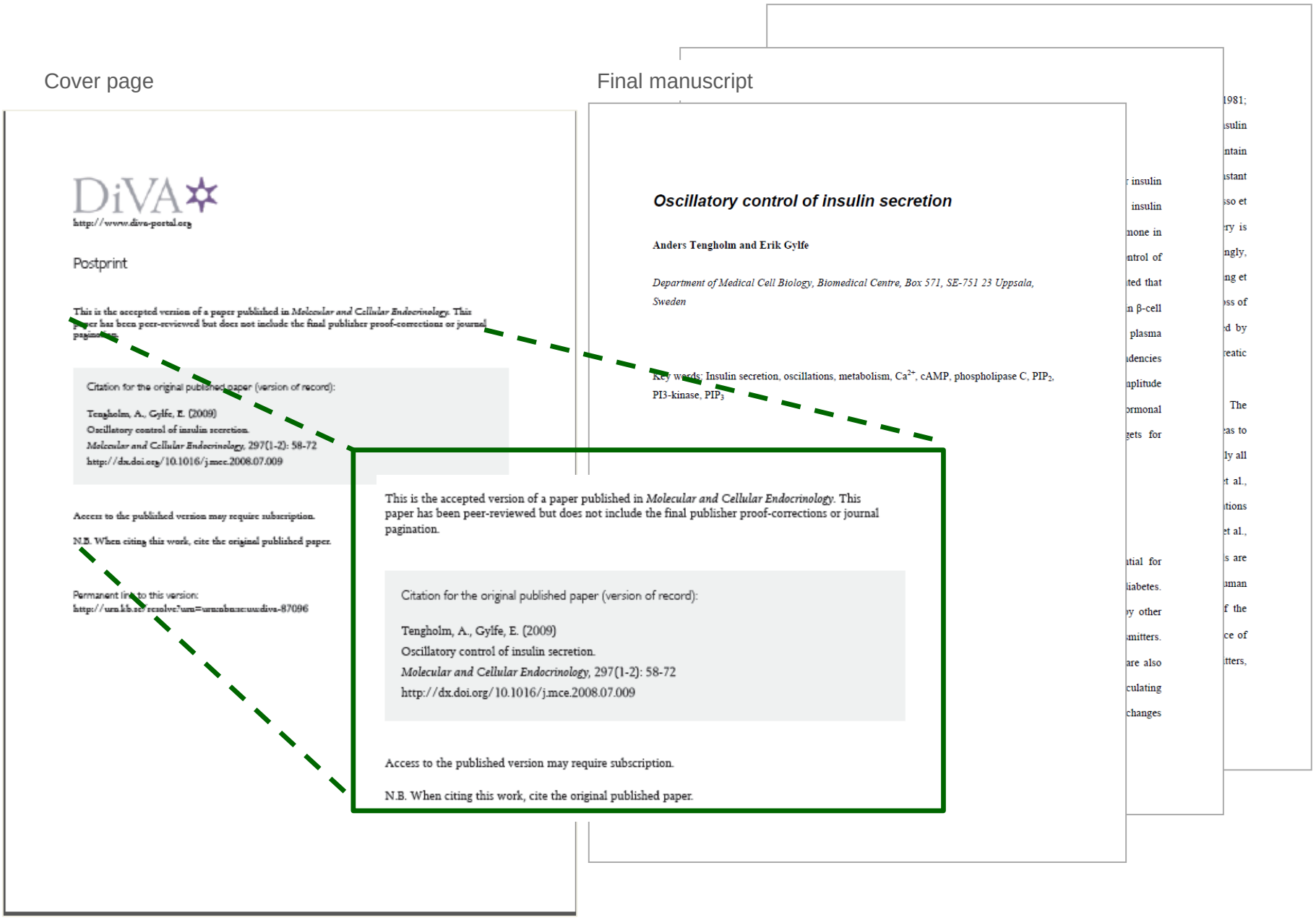
## What differs?

- The author version lacks the publisher’s layout and pagination

**Make sure you save this version – to comply with the Research Council’s requirments!**



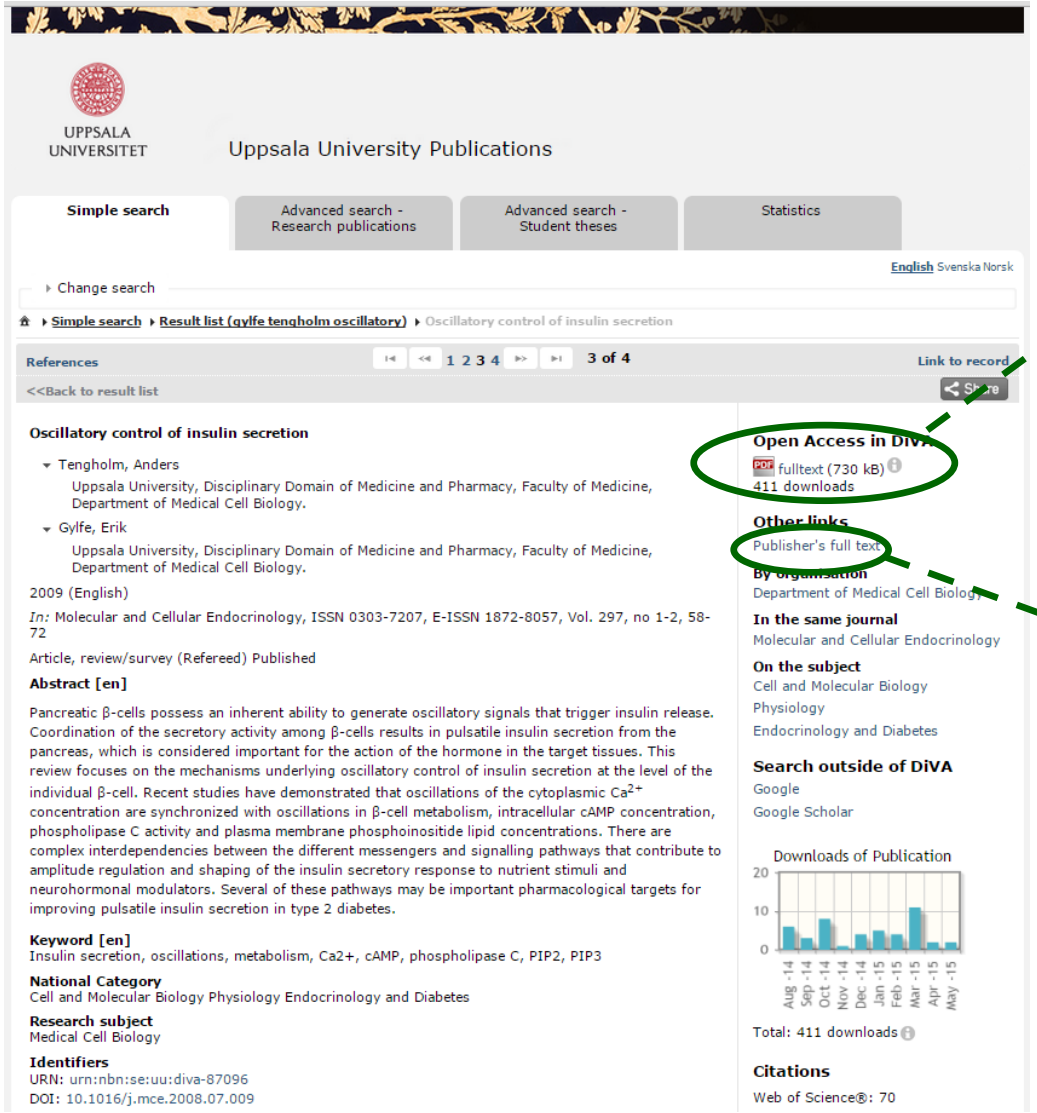
# Cover page with full reference and link to the reference

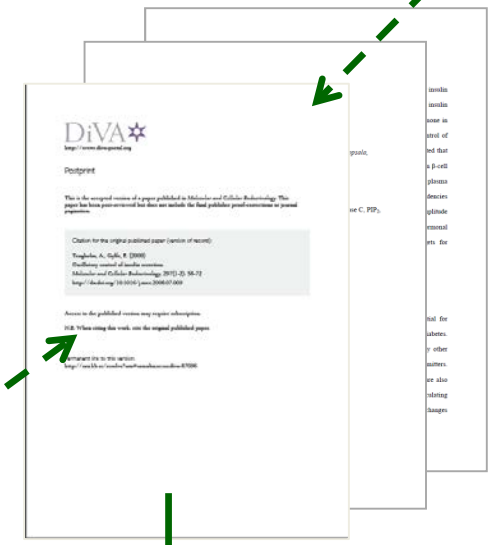


# Self-archived article in DiVA

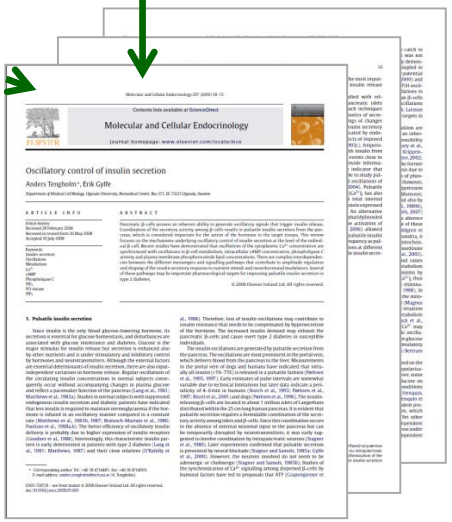
Google and other search tools

Reference i DiVA




accepted author version – accessible for all




article on journal website – only accessible for subscribers

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# Check the journal's policy

- SHERPA/RoMEO
  http://www.sherpa.ac.uk/romeo/

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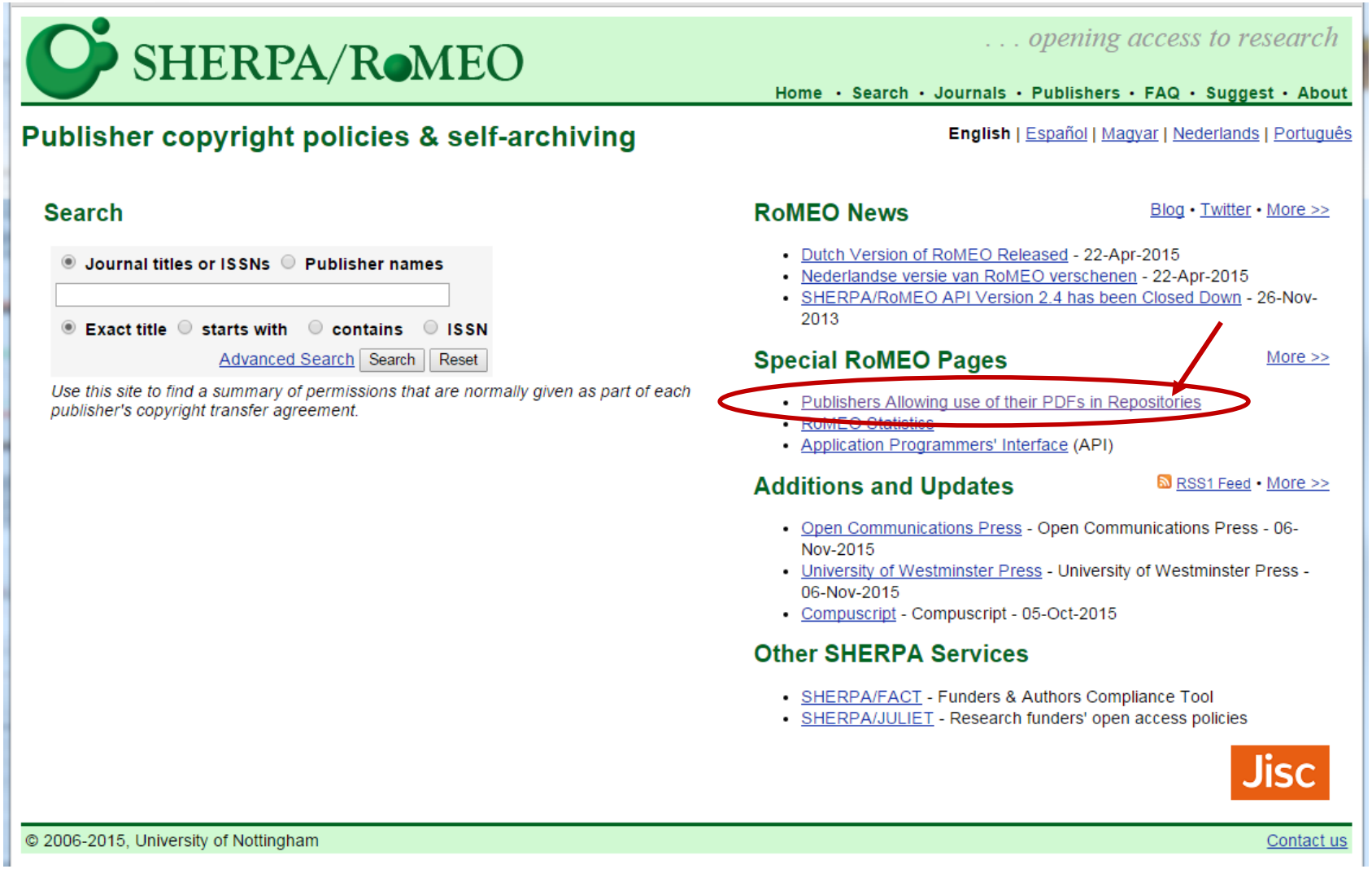
# Allowing publisher PDFs



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# Support from the library

**DiVA Helpdesk**

- We import references from Web of Science to DiVA
  - 100 references per week (with affiliation Uppsala University)
  - Add connection to the list of publications in MP
- Support and help with self-archiving (parallellpublicering)
  - Dubbel-check the journal’s policy
  - Add cover page to author versions
- Open Access journals
  - Questions about costs, memberships and the journal's reliablility
- We give seminars about OA and DiVA

# List of publications in MP from DiVA

MEDARBETARPORTALEN - UPPSALA UNIVERSITET

På svenska | Aina Svensson *(University Library; Libra...ctronic Publishing Centre)*

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Search

## JONAS ÅNGSTRÖM

Doctoral student at Department of Chemistry - Ångström Laboratory, *Inorganic Chemistry*

### PUBLICATIONS

RECENT PUBLICATIONS | ALL PUBLICATIONS (6)

Korablov, D., Ångstrom, J., Ley, M., Sahlberg, M., Besenbacher, F. et al. (2014).
**Activation effects during hydrogen release and uptake of MgH2.**
International journal of hydrogen energy, 39(18): 9888-9892 | DiVA

Frykstrand, S., Strietzel, C., Forsgren, J., Ångström, J., Potin, V. et al. (2014).
**Synthesis, electron microscopy and X-ray characterization of oxymagnesite, $MgO{\cdot}2MgCO_3$, formed from amorphous magnesium carbonate.**
, 16: 10837-10844 | DiVA

Kamali, S., Shahmiri, N., Garitaonandia, J., Ångström, J., Sahlberg, M. et al. (2013).
**Effect of mixing tool on magnetic properties of hematite nanoparticles prepared by sol-gel method.**
Thin Solid Films, 534: 260-264 | DiVA

Ångström, J., Johansson, R., Rude, L., Gundlach, C., Scheicher, R. et al. (2013).
**Hydrogen storage properties of the pseudo binary laves phase (Sc1-xZrx)(Co1-yNiy) (2) system.**
International journal of hydrogen energy, 38(23): 9772-9778 | DiVA

### CONTACT INFORMATION


***Department of Chemistry - Ångström Laboratory, Inorganic Chemistry***

**Email:** jonas.angstrom@kemi.uu.se

**Telephone:** 018-471 3723

**Fax:** 018-513548

**Visiting address:** Lägerhyddsvägen 1

**Postal address:** Box 538
751 21 Uppsala

vCard

**User id:** jonan616


### COURSES

(1KB269) Chemical Energy Storage, 5 hp
(1KB765) Hydrogen and Batteries in the Energy System, 10 hp
(1KB209) Solid State Chemistry, 5 hp

### ALSO AVAILABLE AT

ORCID

LinkedIn

# Jonas Ångström

Forskare vid Institutionen för kemi - Ångström, *Oorganisk kemi*



## PUBLIKATIONER

**SENASTE** | ALLA PUBLIKATIONER (13)

**Ångström, J.**
(2015). *Structural Basis for Hydrogen Interaction in Selected Metal Hydrides.* Diss.

[Mer information]

Ladda ner hela texten

**Ångström, J., Zlotea, C., Latroche, M., Sahlberg, M.**
(2015). *Hydrogen-sorption properties of $Nb_4M_{0.9}Si_{1.1}$ (M = Co,Ni) hydrides.*

International journal of hydrogen energy, 40(6): 2692-2697

[Mer information]

**Ångström, J., Sahlberg, M., Berger, R.**
(2015). *Real-time in-situ monitoring of the topotactic transformation of $TlCu_3Se_2$ into $TlCu_2Se_2$.*

Journal of Alloys and Compounds, 15: 321-325

[Mer information]

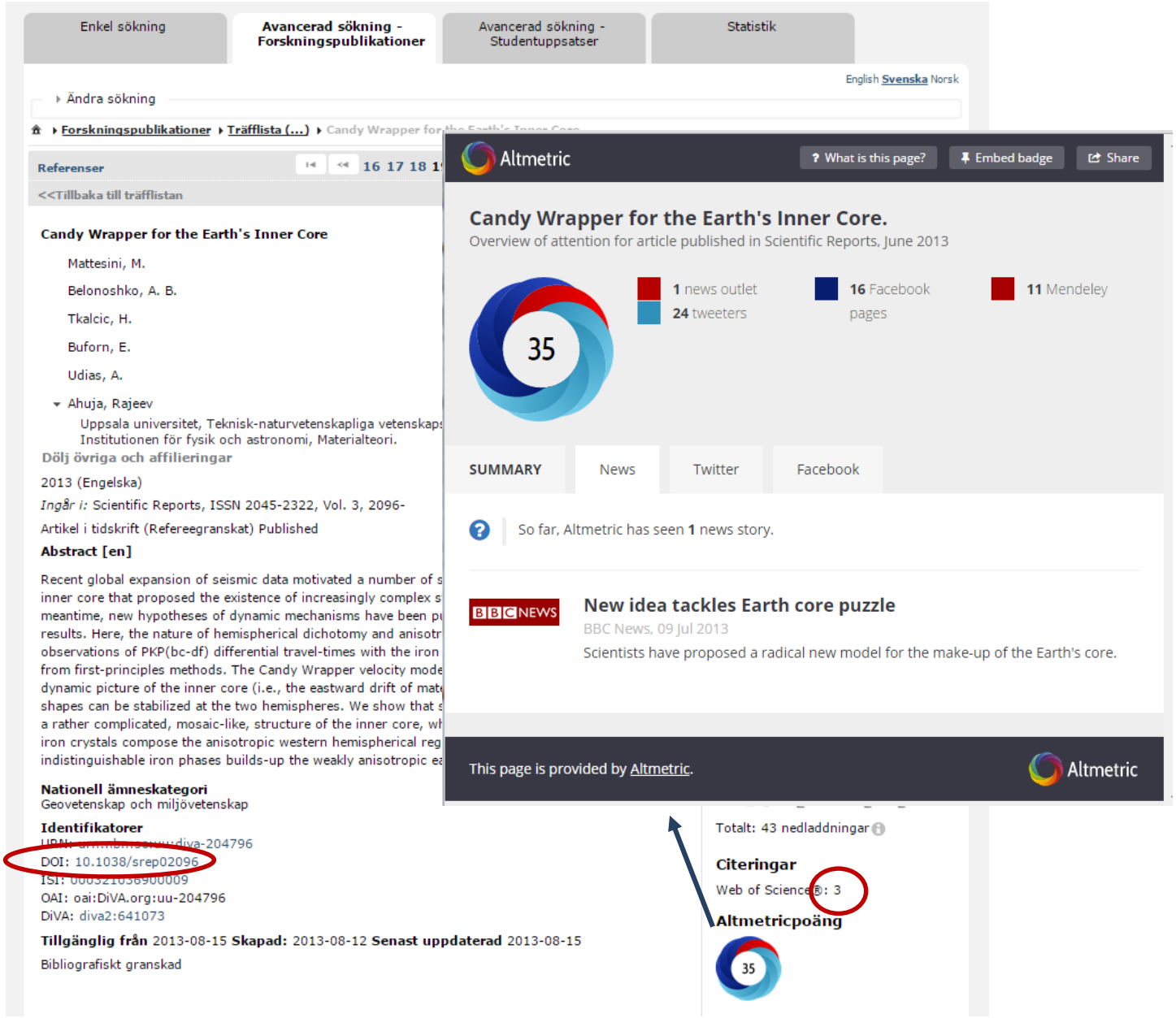
**Höglin, V., Ångström, J., Andersson, M., Balmes, O., Nordblad, P. et al.**
(2015). *Sample cell for in-field X-ray diffraction experiments.*

Results in Physics, 5: 53-54

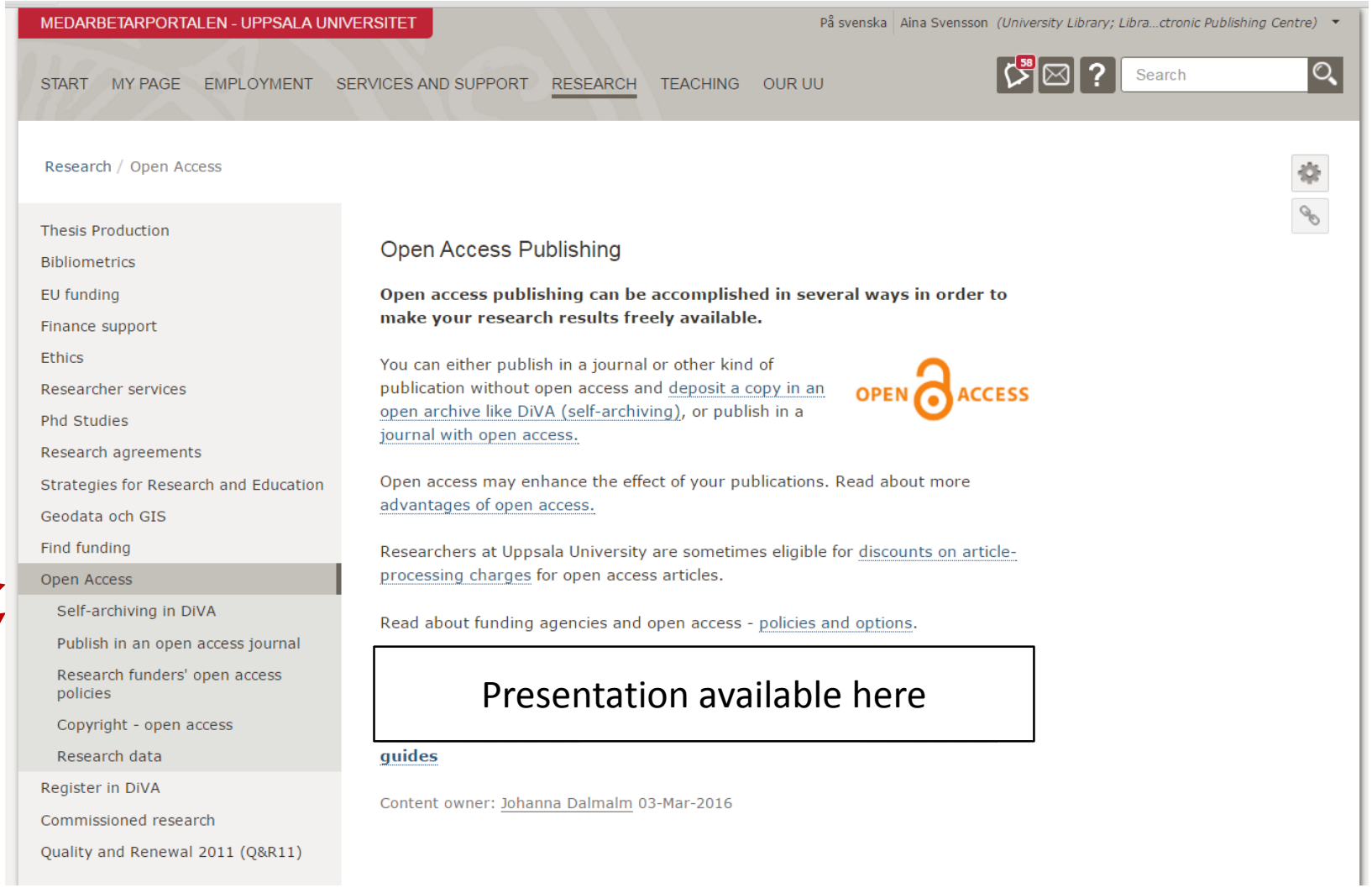
[Mer information]

Ladda ner hela texten

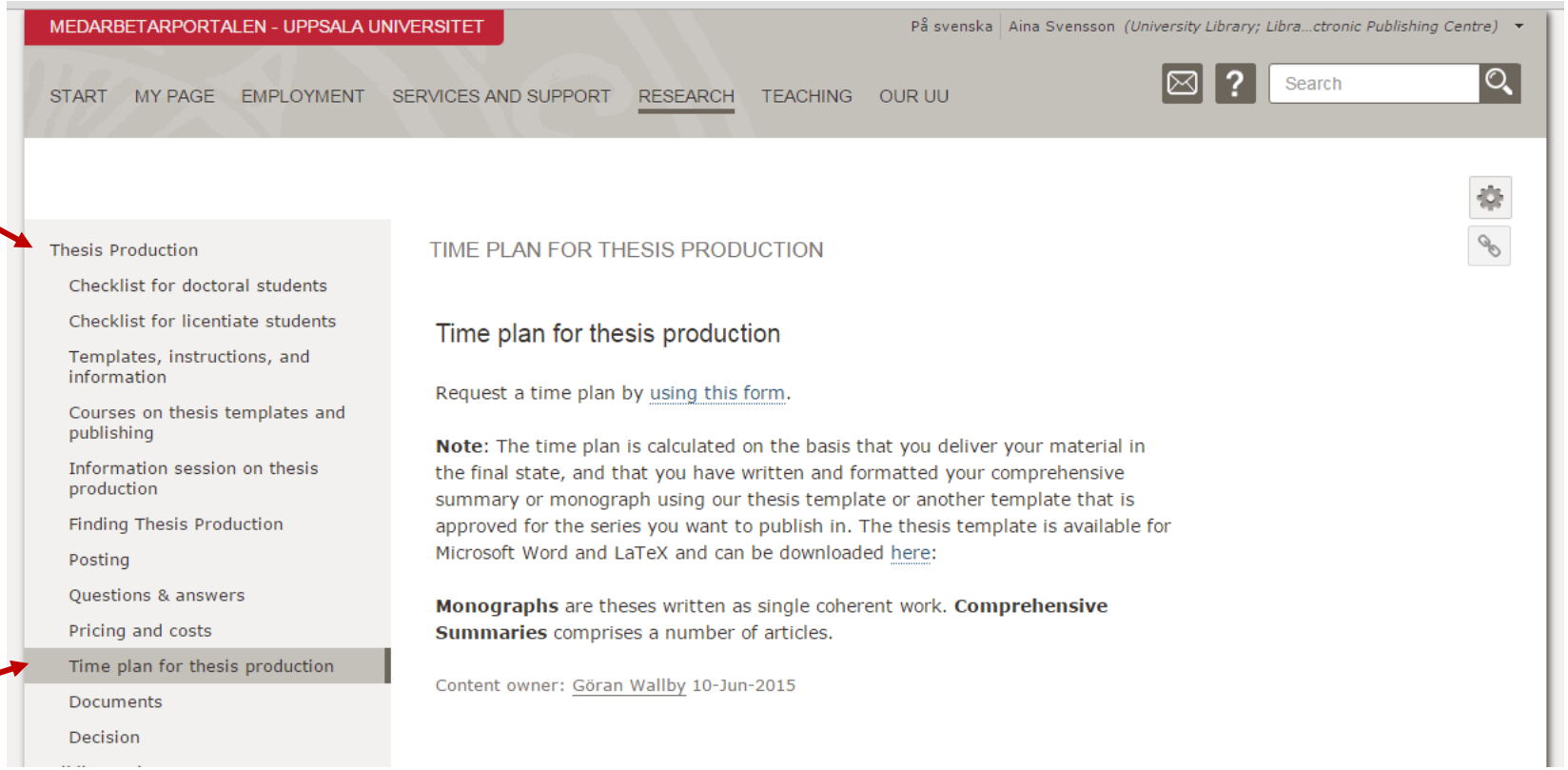
# Research results are often discussed in social media – altmetrics score available from DiVA (articles with DOI)



Read more about open access and how to publish in DiVA: https://mp.uu.se/web/info/forska



Thesis production, templates, checklist for doctoral students: https://mp.uu.se/web/info/forska/avhandling



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# Do you have questions or need help?

Welcome to contact us!

- DiVA and Open Access:
  - **diva-helpdesk@ub.uu.se**
- Thesis production, templates
  - **avhandling@ub.uu.se**

Thank you!
Aina Svensson