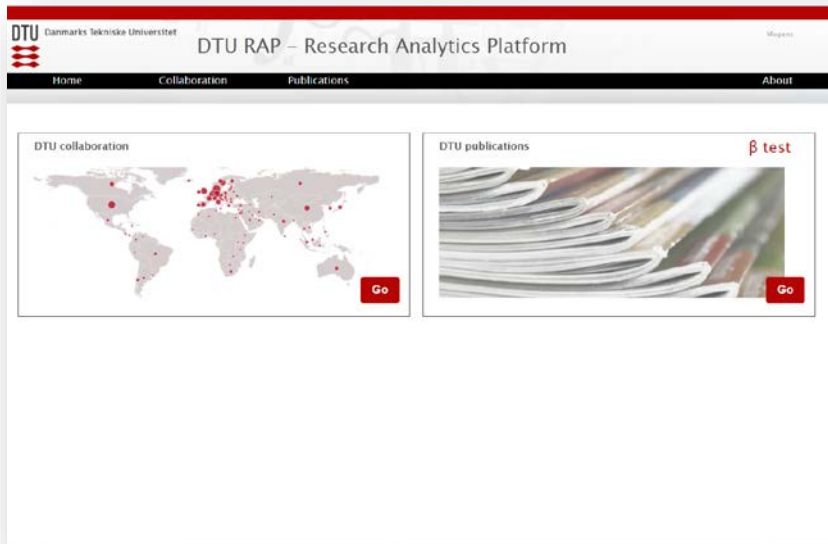


# DTU Research Analytics Platform – Collaboration module

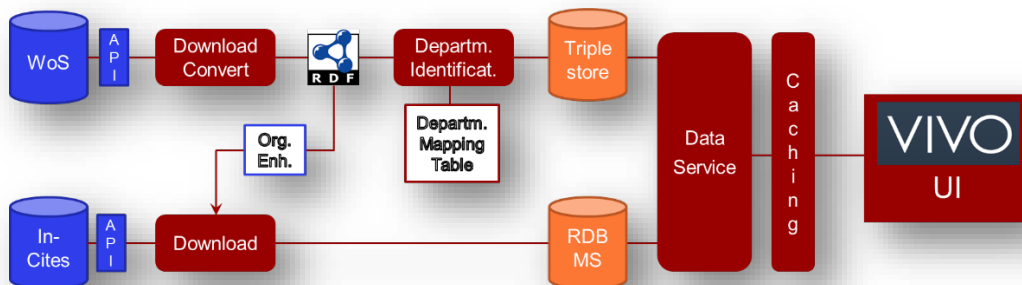
## Agenda

1. Intro
2. Demonstration of the Collaboration module
3. Quick look at the Publication Search module
4. Next steps

## 1. Intro



The DTU Research Analytics Platform (<http://rap.adm.dtu.dk/>) presents data and calculations from Web of Science and InCites in a fast and simple way, adapted to DTU needs and preferences. It is updated monthly – and, hopefully, easy to use. - DTU RAP is open to everyone with a campus login.



We employ two data processing pipelines, one for each of the external databases. General software framework and ontology comes from the VIVO project (Cornell, U Florida, Duke, Stanford etc.). We have contributed open source code to handle the WoS/InCites data and produce the analytical reports. Data-wise, we continuously map the many variants of DTU department names (>2500) to 30 current names (including Administration and Unknown). Development is part of the OPERA project, initially funded by DEFF now by the ministry - see also <http://rap.adm.dtu.dk/vivo/aboutProject>

Collaboration is the first module to go live. At the end of the presentation, we'll take a quick look at the Publication Search module – and the next modules to come.

## 2. Demonstration of the collaboration module



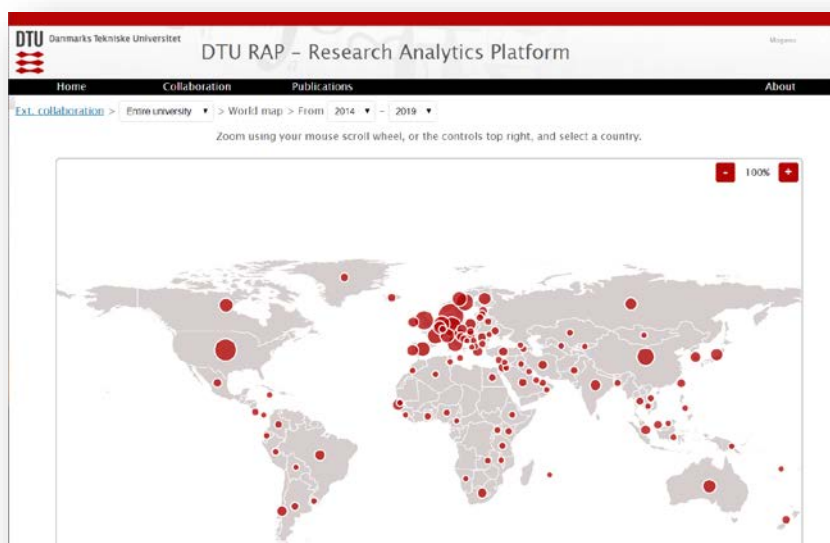
The final product of the Collaboration module is a detailed analytical report of the collaboration between DTU and a chosen partner organization – to view online and exploit the many hyperlinks going deep into certain aspects – or to download as an offline spreadsheet, which may be shared with those that cannot login due to data license conditions.

There are four ways to find and select a partner organization – and this exploration may provide useful insights by itself:

1. Exploring at a world map – zoom and click
2. By list of countries – browse or search
3. By list of organizations – browse or search
4. By list of subjects – browse or search

Moreover, you may explore this for the entire DTU university or for a specific DTU department.

Let's look at the world map:



Note that by default we're looking at the entire university and the latest 5-6 years.

We can zoom in on – for example – Europe, and see that we have 2203 co-publications with Germany during the set timespan.

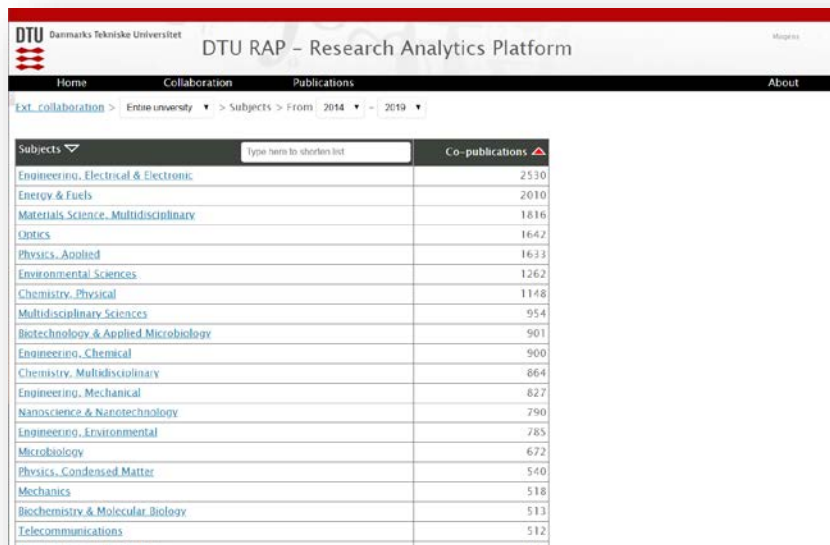
When we change the timespan to 2007-2019, the map is updated and now we see 3846 co-publications with Germany.

When we change the scope to Centre for Oil and Gas, the map is once again updated.

Similarly when we change the scope to DTU Aqua.

You could continue by clicking on a country dot, see the list of partners of that country, and select one of them for the full collaboration report.

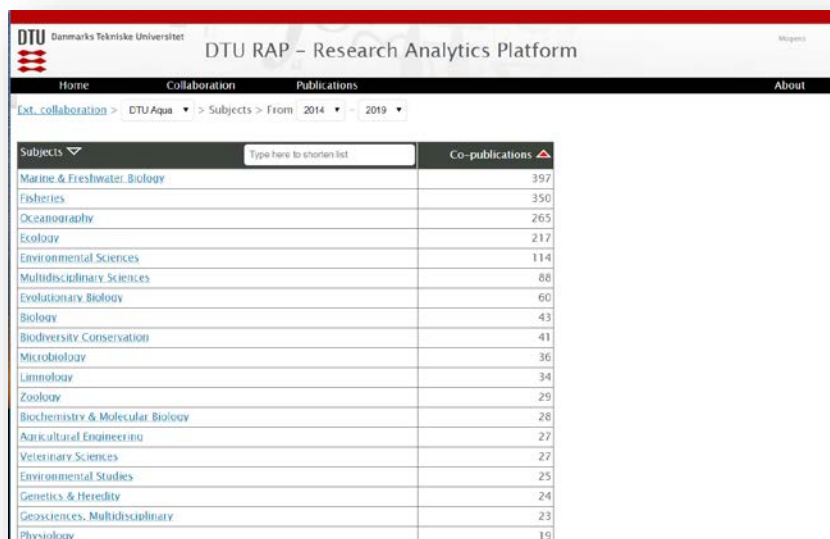
Instead, let's take a look at the list of subjects – during the last 5-6 years



| Subjects                             | Co-publications |
|--------------------------------------|-----------------|
| Engineering, Electrical & Electronic | 2530            |
| Energy & Fuels                       | 2010            |
| Materials Science, Multidisciplinary | 1816            |
| Optics                               | 1642            |
| Physics, Applied                     | 1633            |
| Environmental Sciences               | 1262            |
| Chemistry, Physical                  | 1148            |
| Multidisciplinary Sciences           | 954             |
| Biotechnology & Applied Microbiology | 901             |
| Engineering, Chemical                | 900             |
| Chemistry, Multidisciplinary         | 864             |
| Engineering, Mechanical              | 827             |
| Nanoscience & Nanotechnology         | 790             |
| Engineering, Environmental           | 785             |
| Microbiology                         | 672             |
| Physics, Condensed Matter            | 540             |
| Mechanics                            | 518             |
| Biochemistry & Molecular Biology     | 513             |
| Telecommunications                   | 512             |

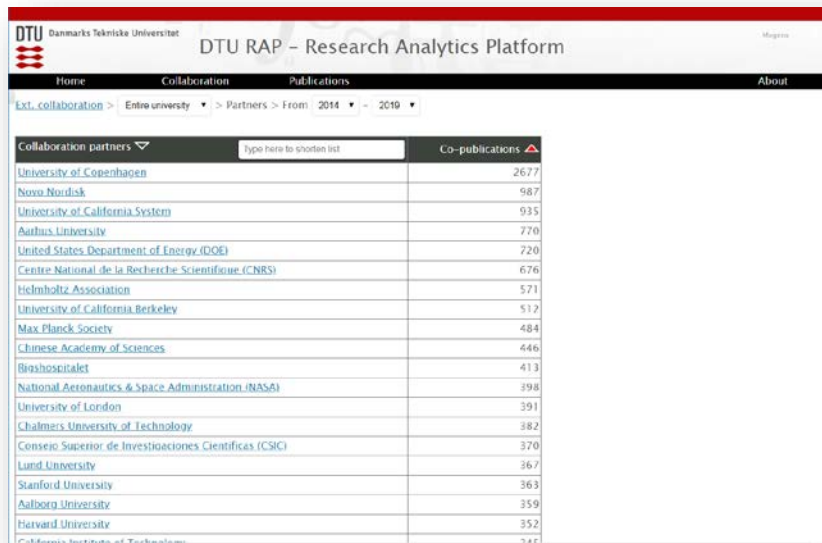
If we look at “Energy & Fuels”. We see the partner organizations and the number of co-publications – from here we may request a full collaboration report for each one of them.

Instead, if we go back to the list of subjects, we may change the scope to DTU Aqua – and the list is updated to reflect the collaboration subjects of a single department:



| Subjects                         | Co-publications |
|----------------------------------|-----------------|
| Marine & Freshwater Biology      | 397             |
| Fisheries                        | 350             |
| Oceanography                     | 265             |
| Ecology                          | 217             |
| Environmental Sciences           | 114             |
| Multidisciplinary Sciences       | 88              |
| Evolutionary Biology             | 60              |
| Biology                          | 43              |
| Biodiversity Conservation        | 41              |
| Microbiology                     | 36              |
| Limnology                        | 34              |
| Zoology                          | 29              |
| Biochemistry & Molecular Biology | 28              |
| Agricultural Engineering         | 27              |
| Veterinary Sciences              | 27              |
| Environmental Studies            | 25              |
| Genetics & Heredity              | 24              |
| Geosciences, Multidisciplinary   | 23              |
| Physiology                       | 19              |

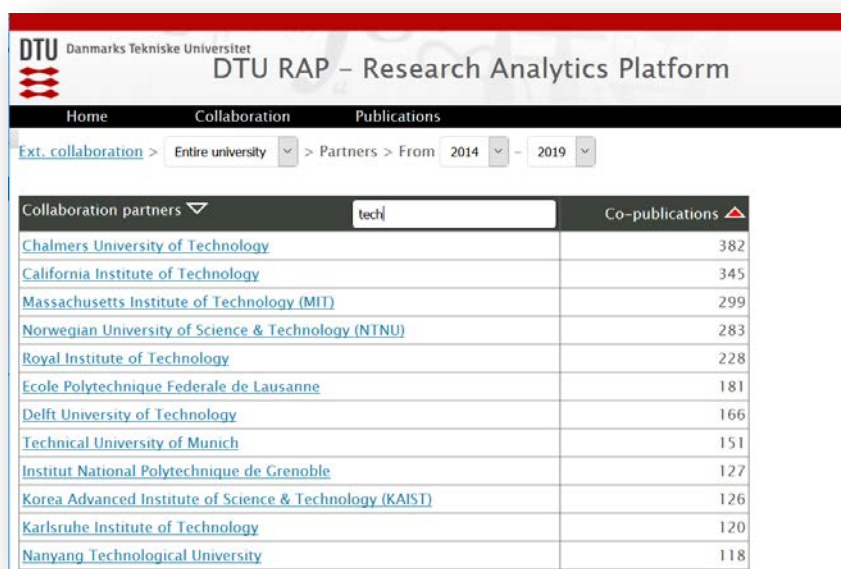
Let's take a look at the list of partner organizations:



| Collaboration partners                                 | Co-publications |
|--|-----------------|
| University of Copenhagen                               | 2677            |
| Novo Nordisk   | 987             |
| University of California System                        | 935             |
| Aarhus University                                      | 770             |
| United States Department of Energy (DOE)               | 720             |
| Centre National de la Recherche Scientifique (CNRS)    | 676             |
| Helmholtz Association                                  | 571             |
| University of California Berkeley                      | 512             |
| Max Planck Society                                     | 484             |
| Chinese Academy of Sciences                            | 446             |
| Biohospitalet  | 413             |
| National Aeronautics & Space Administration (NASA)     | 398             |
| University of London                                   | 391             |
| Chalmers University of Technology                      | 382             |
| Consejo Superior de Investigaciones Científicas (CSIC) | 370             |
| Lund University  | 367             |
| Stanford University                                    | 363             |
| Aalborg University                                     | 359             |
| Harvard University                                     | 352             |
| California Institute of Technology                     | 345             |

A very long list! - Currently 3717 partners listed for the last 5-6 years.

Like with the other lists, we may filter (or search) the list to focus on a single or just a few organizations. If we type "tech", we shorten the list to collaboration partners with "tech" in their name:



| Collaboration partners                                   | Co-publications |
|--|-----------------|
| Chalmers University of Technology                        | 382             |
| California Institute of Technology                       | 345             |
| Massachusetts Institute of Technology (MIT)              | 299             |
| Norwegian University of Science & Technology (NTNU)      | 283             |
| Royal Institute of Technology                            | 228             |
| Ecole Polytechnique Federale de Lausanne                 | 181             |
| Delft University of Technology                           | 166             |
| Technical University of Munich                           | 151             |
| Institut National Polytechnique de Grenoble              | 127             |
| Korea Advanced Institute of Science & Technology (KAIST) | 126             |
| Karlsruhe Institute of Technology                        | 120             |
| Nanyang Technological University                         | 118             |

We may also search for "KAIST"

→ reduce the list to a single line

→ and then request the **full collaboration report** for KAIST

## Full collaboration report in 9 sections

### 0. Header and table of contents

DTU collaboration report for the timespan
2014
–
2019

Korea Advanced Institute of Science & Technology (KAIST), South Korea

*Collaboration reports cover all DTU departments – for a breakdown by department see section 6*

Contents:

- [1. Collaboration overview](#)
- [2. Compare key output and impact indicators](#)
- [3. Compare annual publication and co-publication output](#)
- [4. Compare partner's top subjects with DTU and co-publications](#)
- [5. Compare top collaboration subjects with partner and DTU subjects](#)
- [6. Collaboration by DTU department](#)
- [7. Collaboration by DTU researcher \(top 20\)](#)
- [8. Collaboration by funder \(top 20\)](#)
- [9. Notes and hints](#)

The header displays the timespan of the report.

If you prefer another timespan – longer or shorter – simply use the drop downs, and a revised report is generated.

Often you will set a timespan matching a pre-cached report – and experience immediate response in spite of the high number of calculations needed.

In other cases you'll have to wait half a minute or so – for the server to prepare the report.

From the table of contents, you may jump directly to a particular section of interest – for example section 6, if you're interested in the breakdown by department.

Let's take a look at the sections of the report, one by one:

## 1. Collaboration overview

Quick overview of the collaboration:

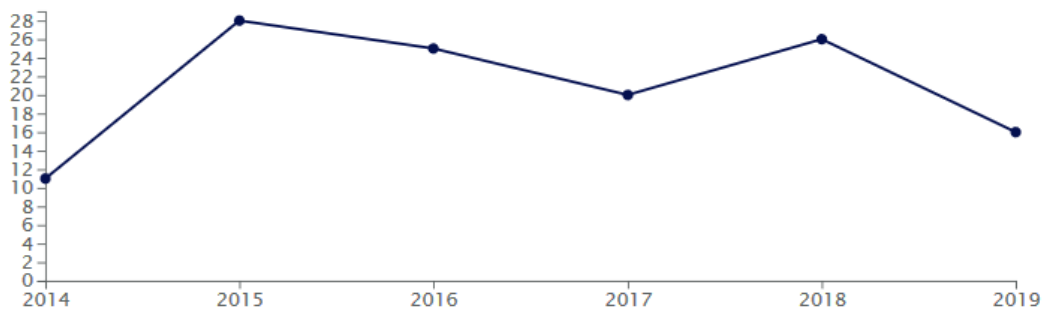
- How many co-publications year-by-year
- How many subject categories (out of 250 in total)?
- What are the most popular subject categories?

### 1. Collaboration overview

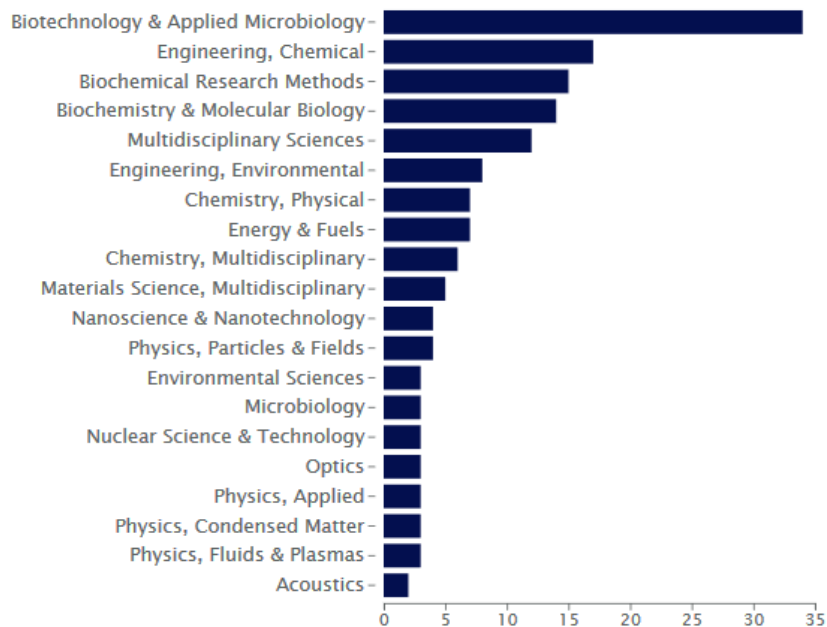
In total: 126 co-publications in 52 subject categories during timespan

#### Number of co-publications per year

*Note: In Web of Science, the data for a particular publication year is not complete until the middle of the following year*



#### Number of co-publications by top research subjects



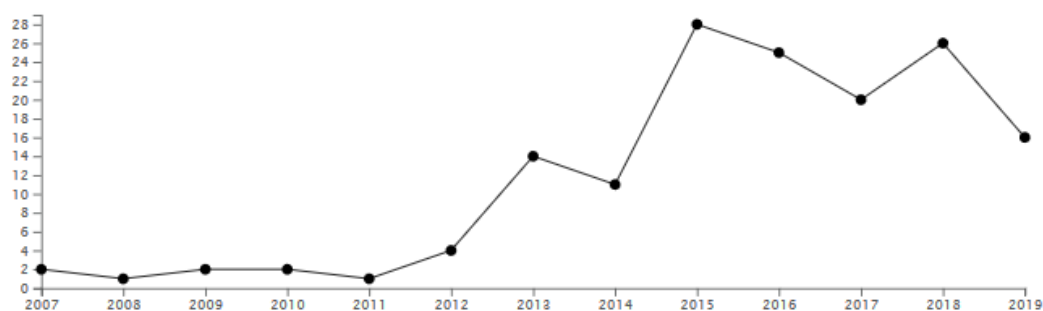
Let's reset the timespan to the full period 2007-2019 – and see how the overview changes:

## 1. Collaboration overview

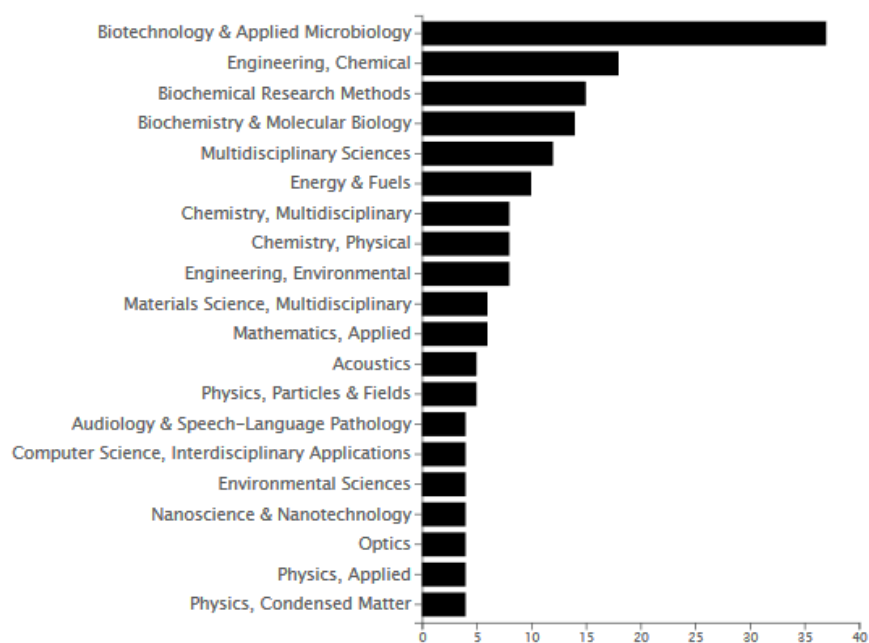
In total: 152 co-publications in 62 subject categories during timespan

### Number of co-publications per year

*Note: In Web of Science, the data for a particular publication year is not complete until the middle of the following year*



### Number of co-publications by top research subjects



- Has the strategic partnership affected the collaboration output?

## 2. Compare key output and impact indicators

Compare DTU and the chosen partner in the chosen timespan:

- How many publications and citations?
- How are they doing wrt. citation impact – simple and normalized?
- How are they doing wrt. excellence – proportion of publications in top 10% and top 1% most cited?
- How much are they collaborating – internationally and with industry?

### 2. Compare key output and impact indicators

| Indicator  | Partner | DTU     |
|--|---------|---------|
| Number of publications                             | 39 716  | 41 165  |
| Number of citations                                | 564 042 | 804 466 |
| Simple citation impact (citations / publication)   | 14.2    | 19.5    |
| Normalised citation impact (global average 1.0) ⓘ  | 1.14    | 1.59    |
| % of publications in top 10% most cited ⓘ          | 12.2%   | 17.8%   |
| % of publications in top 1% most cited ⓘ           | 1.4%    | 2.6%    |
| % of publications with industry collaboration      | 6.1%    | 7.0%    |
| % of publications with international collaboration | 24.9%   | 56.5%   |

## 3. Compare annual publication and co-publication output

Year by year:

- How many publications from the two universities and how many co-publications?

### 3. Compare the annual publication and co-publication output

| Year | Partner pubs | DTU pubs | Co-pubs |
|------|--------------|----------|---------|
| 2007 | 2 438        | 2 318    | 2       |
| 2008 | 2 544        | 2 237    | 1       |
| 2009 | 2 729        | 2 452    | 2       |
| 2010 | 2 960        | 2 637    | 2       |
| 2011 | 3 003        | 2 992    | 1       |
| 2012 | 3 107        | 3 057    | 4       |
| 2013 | 3 317        | 3 401    | 14      |
| 2014 | 3 497        | 3 705    | 11      |
| 2015 | 3 714        | 4 021    | 28      |
| 2016 | 3 845        | 4 205    | 25      |
| 2017 | 3 712        | 4 454    | 20      |
| 2018 | 3 625        | 4 153    | 26      |
| 2019 | 1 225        | 1 533    | 16      |



#### 4. Compare partner's top subjects with DTU and co-publications

Top subjects of the partner, of DTU and of the resulting co-publications:

- Sort by partner to see the partner's top 20 subjects.
- And how they rank on the DTU side?
- Are we collaborating in the partner's top 20 subjects, or outside?

#### 4. Compare partner's top subjects with DTU and co-publications

| Partner's top 20 subjects                 | Partner ▼ |      | DTU ▼ |      | Co-pubs |
|---|-----------|------|-------|------|---------|
|   | Pubs      | Rank | Pubs  | Rank |         |
| Engineering, Electrical & Electronic      | 8 951     | 1    | 4 734 | 1    | 3       |
| Materials Science, Multidisciplinary      | 5 856     | 2    | 3 366 | 3    | 6       |
| Physics, Applied                          | 4 778     | 3    | 3 419 | 2    | 4       |
| Chemistry, Multidisciplinary              | 3 799     | 4    | 1 500 | 11   | 8       |
| Nanoscience & Nanotechnology              | 3 315     | 5    | 1 600 | 10   | 4       |
| Chemistry, Physical                       | 3 256     | 6    | 2 301 | 6    | 8       |
| Telecommunications                        | 2 856     | 7    | 1 059 | 17   | 0       |
| Optics                                    | 2 412     | 8    | 3 365 | 4    | 4       |
| Computer Science, Information Systems     | 1 819     | 9    | 473   | 52   | 1       |
| Physics, Condensed Matter                 | 1 726     | 10   | 1 196 | 16   | 4       |
| Computer Science, Artificial Intelligence | 1 694     | 11   | 572   | 39   | 0       |
| Computer Science, Theory & Methods        | 1 610     | 12   | 949   | 21   | 1       |
| Engineering, Mechanical                   | 1 467     | 13   | 1 484 | 12   | 1       |
| Energy & Fuels                            | 1 457     | 14   | 3 193 | 5    | 10      |
| Biotechnology & Applied Microbiology      | 1 191     | 15   | 1 757 | 8    | 37      |
| Biochemistry & Molecular Biology          | 1 125     | 16   | 1 230 | 15   | 14      |
| Engineering, Chemical                     | 1 040     | 17   | 1 698 | 9    | 18      |
| Instruments & Instrumentation             | 1 022     | 18   | 660   | 32   | 2       |
| Automation & Control Systems              | 1 016     | 19   | 446   | 55   | 2       |
| Computer Science, Hardware & Architecture | 958       | 20   | 338   | 65   | 0       |

## 5. Compare top collaboration subjects with partner and DTU subjects

Looking at the top 20 subjects of the co-publications:

- How do they match the top 20 of the partner?
- How do they match the top 20 of DTU?
- You may follow links to review the co-publications of each subject category

### 5. Compare top collaboration subjects with partner and DTU subjects

| Collaboration top 20 subjects                    | Co-pubs            | Partner rank | DTU rank |
|--|--------------------|--------------|----------|
| Biotechnology & Applied Microbiology             | <a href="#">37</a> | 15           | 8        |
| Engineering, Chemical                            | <a href="#">18</a> | 17           | 9        |
| Biochemical Research Methods                     | <a href="#">15</a> | 33           | 23       |
| Biochemistry & Molecular Biology                 | <a href="#">14</a> | 16           | 15       |
| Multidisciplinary Sciences                       | <a href="#">12</a> | 90           | 106      |
| Energy & Fuels                                   | <a href="#">10</a> | 14           | 5        |
| Chemistry, Multidisciplinary                     | <a href="#">8</a>  | 4            | 11       |
| Chemistry, Physical                              | <a href="#">8</a>  | 6            | 6        |
| Engineering, Environmental                       | <a href="#">8</a>  | 59           | 14       |
| Materials Science, Multidisciplinary             | <a href="#">6</a>  | 2            | 3        |
| Mathematics, Applied                             | <a href="#">6</a>  | 42           | 46       |
| Acoustics  | <a href="#">5</a>  | 56           | 43       |
| Physics, Particles & Fields                      | <a href="#">5</a>  | 64           | 121      |
| Audiology & Speech-Language Pathology            | <a href="#">4</a>  | 134          | 80       |
| Computer Science, Interdisciplinary Applications | <a href="#">4</a>  | 24           | 27       |
| Environmental Sciences                           | <a href="#">4</a>  | 49           | 7        |
| Nanoscience & Nanotechnology                     | <a href="#">4</a>  | 5            | 10       |
| Optics   | <a href="#">4</a>  | 8            | 4        |
| Physics, Applied                                 |                    |              |          |
| Physics, Condensed Mat                           |                    |              |          |

#### Co-publications by category Biochemistry & Molecular Biology – DTU and Korea Advanced Institute of Science & Technology (KAIST)

14 total co-publications

[The antiSMASH database version 2: a comprehensive resource on secondary metabolite biosynthetic gene clusters](#) 2019-01-08

FULL TEXT VIA DOI: [10.1093/nar/gky1060](https://doi.org/10.1093/nar/gky1060) WEB OF SCIENCE: [WOS:000462587400087](https://www.webofscience.com/WoSRecord/000462587400087)

REFERENCES: [18](#) CITATIONS: [5](#)

[Systematic discovery of uncharacterized transcription factors in Escherichia coli K-12 MG1655](#) 2018-11-16

FULL TEXT VIA DOI: [10.1093/nar/gky752](https://doi.org/10.1093/nar/gky752) WEB OF SCIENCE: [WOS:000456709700018](https://www.webofscience.com/WoSRecord/000456709700018)

REFERENCES: [79](#) CITATIONS: [3](#)

[Systems assessment of transcriptional regulation on central carbon metabolism by Cra and CRP](#) 2018-04-06

FULL TEXT VIA DOI: [10.1093/nar/gky069](https://doi.org/10.1093/nar/gky069) WEB OF SCIENCE: [WOS:000429009500020](https://www.webofscience.com/WoSRecord/000429009500020)

REFERENCES: [61](#) CITATIONS: [7](#)

[The power of synthetic biology for bioproduction, remediation and pollution control: The UN's Sustainable Development Goals will inevitably require the application of molecular biology and biotechnology on a global scale](#) 2018-04-01

## 6. Collaboration by DTU department

Listing all the DTU departments involved in the collaboration:

- How many co-publications for each department?
- Expand to see the departments involved on the partner side.
- Follow link to see a list of a particular department's co-publications:
  - Title of publications, involved researchers on DTU side as well as partner side.
  - Link to all details about a single publication and its citations.

### 6. Collaboration by DTU department

| DTU department      | Co-pubs | Partner departments                    |
|---------------------|---------|--|
| DTU Biosustain      | 63      | <a href="#">Expand to show details</a> |
| DTU Environment     | 18      | <a href="#">Expand to show details</a> |
| DTU Physics         | 16      | <a href="#">Expand to show details</a> |
| DTU Chemical B      |         |  |
| DTU Compute         |         |  |
| DTU Electrical E    |         |  |
| DTU Nanotech        |         |  |
| DTU Space           |         |  |
| DTU department      |         |  |
| DTU Bioenginee      |         |  |
| DTU Chemistry       |         |  |
| DTU Mechanical      |         |  |
| DTU Systems Biology | 3       | <a href="#">Expand to show details</a> |
| DTU Energy          | 2       | <a href="#">Expand to show details</a> |
| DTU Food            | 2       | <a href="#">Expand to show details</a> |

DTU Physics

16 [Collapse to hide details](#)

8 Dept Nucl & Quantum Engr

3 Dept Chem

3 Dept Chem & Biomol Engr

2 Ctr Time Resolved Diffract

1 Dept Nucl Quantum Engr

1 Grad Sch Energy Environm Water & Sustainabil EEWS

### Collaboration by department - DTU and Korea Advanced Institute of Science & Technology (KAIST)

3 co-publications for DTU Physics and Dept Chem, [Korea Advanced Institute of Science & Technology (KAIST)]

[Atomistic characterization of the active-site solvation dynamics of a model photocatalyst](#) 2016-11-28

FULL TEXT VIA DOI: [10.1038/ncomms13678](#) WEB OF SCIENCE: [WOS:000388643800001](#)

REFERENCES: 39 CITATIONS: 20

| DTU Physics         | Dept Chem       |
|---------------------|-----------------|
| Kjaer, Kasper S.    | Kim, Kyung Hwan |
| Nielsen, Martin M.  | Ihee, Hyotcherl |
| van Driel, Tim B.   | Kim, Jong Goo   |
| Christensen, Morten |                 |
| Harlang, Tobias     |                 |
| Haldrup, Kristoffer |                 |

[Filming the Birth of Molecules and Accompanyin](#)

FULL TEXT VIA DOI: [10.1021/ja312513w](#) WEB OF SCIENCE: [WOS:000388643800001](#)

REFERENCES: 33 CITATIONS: 33

| DTU Physics      | Dept Chem       |
|------------------|-----------------|
| Moller, Klaus B. | Lee, Jae Hyuk   |
| Petersen, Jakob  | Ihee, Hyotcherl |
|                  | Kim, Jeongho    |

### Atomistic characterization of the active-site solvation dynamics of a model photocatalyst

[van Driel, TB](#) (van Driel, Tim B.)<sup>[2, 1]</sup> [Kim, JG](#) (Kim, Jong Goo)<sup>[9, 8]</sup> [Haldrup, K](#) (Haldrup, Kristoffer)<sup>[1]</sup>  
[Kim, KH](#) (Kim, Kyung Hwan)<sup>[9, 12, 8]</sup> [Ihee, H](#) (Ihee, Hyotcherl)<sup>[9, 8]</sup> [Kim, J](#) (Kim, Jeongho)<sup>[10]</sup>  
[Lemke, H](#) (Lemke, Henrik)<sup>[13, 2]</sup> [Sun, Z](#) (Sun, Zheng)<sup>[3]</sup> [Sundstrom, V](#) (Sundstrom, Villy)<sup>[4]</sup>  
[Zhang, WK](#) (Zhang, Wenkai)<sup>[14, 3]</sup> [Zhu, DL](#) (Zhu, Diling)<sup>[2]</sup> [Kjaer, KS](#) (Kjaer, Kasper S.)<sup>[4, 1, 3]</sup>  
[Moller, KB](#) (Moller, Klaus B.)<sup>[5]</sup> [Nielsen, MM](#) (Nielsen, Martin M.)<sup>[1]</sup> [Gaffney, KJ](#) (Gaffney, Kelly J.)<sup>[3]</sup>  
[Hartsock, RW](#) (Hartsock, Robert W.)<sup>[3]</sup> [Dohn, AO](#) (Dohn, Asmus O.)<sup>[11, 5]</sup> [Harlang, T](#) (Harlang, Tobias)<sup>[4, 1]</sup>  
[Chollet, M](#) (Chollet, Matthieu)<sup>[2]</sup> [Christensen, M](#) (Christensen, Morten)<sup>[1]</sup> [Gawelda, W](#) (Gawelda, Wojciech)<sup>[7, 6]</sup>  
[Henriksen, NE](#) (Henriksen, Niels E.)<sup>[5]</sup>

NATURE COMMUNICATIONS

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DOI: [10.1038/ncomms13678](#)

Published: NOV 28 2016

Web of Science: [WOS:000388643800001](#)

References: 39

Citations: 20

#### Abstract

The interactions between the reactive excited state of molecular photocatalysts and surrounding solvent dictate reaction mechanisms and pathways, but are not readily accessible to conventional optical spectroscopic techniques. Here we report an investigation of the structural and solvation dynamics following excitation of a model photocatalytic molecular system [Ir-2(dimen)(4)](2+), where dimen is para-

## 7. Collaboration by DTU researcher (top 20)

Listing the 20 most active DTU researchers in this collaboration in this timespan:

- How many co-publications for each researcher?
- Expand to see the researchers involved on the partner side.
- Follow link to all the co-publications of a particular researcher.

### 7. Collaboration by DTU researcher (top 20)

| DTU researcher             | Co-pubs            | Partner researcher                     |
|----------------------------|--------------------|--|
| Lee, Sang Yup              | <a href="#">34</a> | <a href="#">Expand to show details</a> |
| Weber, Tilmann             | <a href="#">17</a> | <a href="#">Expand to show details</a> |
| Kildegaard, Helene Fastrup | <a href="#">15</a> | <a href="#">Expand to show details</a> |
| Kim, Hyun Uk               | <a href="#">15</a> | <a href="#">Expand to show details</a> |
| Lee, Gyun Min              | <a href="#">15</a> | <a href="#">Expand to show details</a> |
| Hwang, Yu-Hoon             | <a href="#">14</a> | <a href="#">Expand to show details</a> |
| Gani, Rafiqul              | <a href="#">11</a> | <a href="#">Expand to show details</a> |
| Andersen, Henrik Rasmus    | <a href="#">10</a> | <a href="#">Expand to show details</a> |
| Palsson, Bernhard O.       | <a href="#">10</a> | <a href="#">Expand to show details</a> |
| Blin, Kai                  | <a href="#">9</a>  | <a href="#">Expand to show details</a> |

Jacobsen, A. S.

Leipold, Frank

Naulin, Volker

Nielsen, Anders Henry

Rasmussen, Jens Juul

Salewski, Mirko

Thrysoe, Alexander S.

Kol, Stefan

Christensen, Ole Bossing

Hansen, Henning Gram

|                      |                    |  |
|----------------------|--------------------|--|
| Palsson, Bernhard O. | <a href="#">10</a> | <a href="#">Collapse to hide details</a> |
|                      | <a href="#">6</a>  | Cho, Byung-Kwan                          |
|                      | <a href="#">3</a>  | Lee, Sang Yup                            |
|                      | <a href="#">2</a>  | Cho, Suhjung                             |
|                      | <a href="#">1</a>  | Cho, Yoo-Bok                             |
|                      | <a href="#">1</a>  | Hwang, Kyu-Sang                          |
|                      | <a href="#">1</a>  | Hwang, Soonkyu                           |
|                      | <a href="#">1</a>  | Kim, Hyun Uk                             |
|                      | <a href="#">1</a>  | Kim, Sun Chang                           |
|                      | <a href="#">1</a>  | Lee, Gyun Min                            |
|                      | <a href="#">1</a>  | Lee, Namil                               |
|                      | <a href="#">1</a>  | Lee, Yongjae                             |
|                      | <a href="#">1</a>  | Park, Jin Hyoung                         |

## 8. Collaboration by funder (top 20)

Listing the 20 most used funders in this collaboration in this timespan. NB:

- Not all publications provide funding details.
- Funder names are not (yet) normalized, but Clarivate is working to achieve this soon.

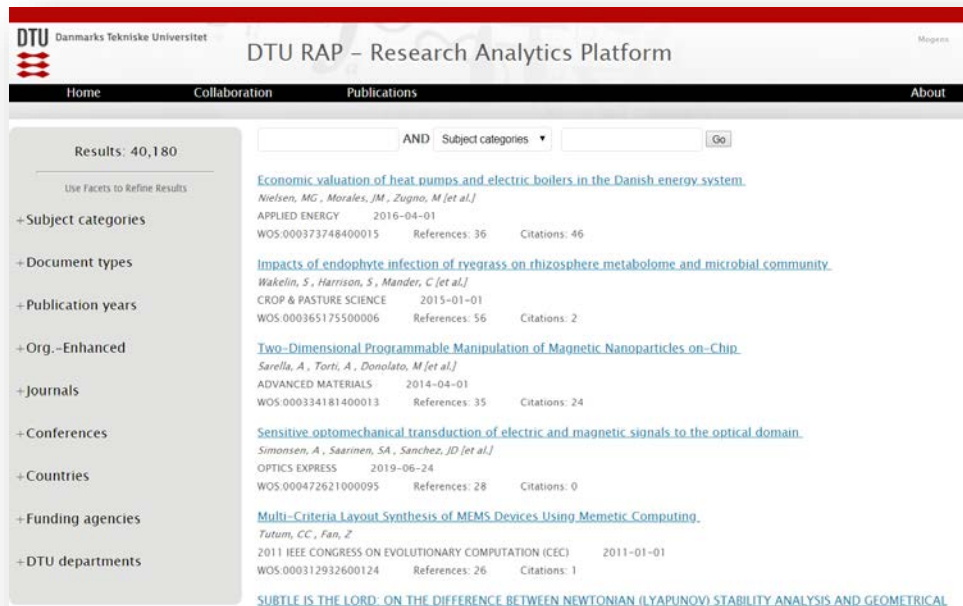
| Funder  | Co-pubs |
|---|---------|
| NNF Center for Biosustainability  | 28      |
| Novo Nordisk Fonden   | 28      |
| NOVO Nordisk Foundation   | 14      |
| Ministry of Education, Science and Technology   | 9       |
| EURATOM research and training programme   | 7       |
| Ministry of Science, ICT and Future Planning (MSIP) through the National Research Foundation (NRF) of Korea   | 6       |
| Basic Science Research Program through the National Research Foundation of Korea (NRF) - Ministry of Education  | 3       |
| Biotechnology and Biological Sciences Research Council  | 3       |
| Spanish MINECO  | 3       |
| Technology Development Program to Solve Climate Changes on Systems Metabolic Engineering for Biorefineries from the Ministry of Science, ICT and Future Planning (MSIP) through the National Research Foundation (NRF) of Korea | 3       |
| Bio-Synergy Research Project of the Ministry of Science, ICT and Future Planning through the National Research Foundation   | 2       |
| C1 Gas Refinery Program through the National Research Foundation of Korea (NRF) - Ministry of Science, ICT & Future Planning  | 2       |
| EPSRC   | 2       |
| EURATOM research and training programme 2014-2018   | 2       |
| CRL   | 2       |
| Global Frontier Program   | 2       |
| IWT   | 2       |
| Inha University Research Grant  | 2       |
| Intelligent Synthetic Biology Center of Global Frontier Project - MEST, Republic of Korea   | 2       |
| NIGMS NIH HHS   | 2       |

## Download Excel

In the upper right corner of the collaboration report it is possible to click "Download Excel" to download the collaboration report for further analysis, formatting, print, etc.

### 3. Quick look at the Publication Search module

This module is in beta, but perhaps still useful to consult for departments etc.



DTU Danmarks Tekniske Universitet

DTU RAP – Research Analytics Platform

Home Collaboration Publications About

Results: 40,180

Use Facets to Refine Results

+ Subject categories

+ Document types

+ Publication years

+ Org.-Enhanced

+ Journals

+ Conferences

+ Countries

+ Funding agencies

+ DTU departments

AND Subject categories Go

[Economic valuation of heat pumps and electric boilers in the Danish energy system](#)  
Nielsen, MG, Morales, JM, Zugno, M [et al.]  
APPLIED ENERGY 2016-04-01  
WOS:000373748400015 References: 36 Citations: 46

[Impacts of endophyte infection of ryegrass on rhizosphere metabolome and microbial community](#)  
Wakelin, S, Harrison, S, Mander, C [et al.]  
CROP & PASTURE SCIENCE 2015-01-01  
WOS:000365175500006 References: 56 Citations: 2

[Two-Dimensional Programmable Manipulation of Magnetic Nanoparticles on-Chip](#)  
Sarellia, A, Torti, A, Donolato, M [et al.]  
ADVANCED MATERIALS 2014-04-01  
WOS:000334181400013 References: 35 Citations: 24

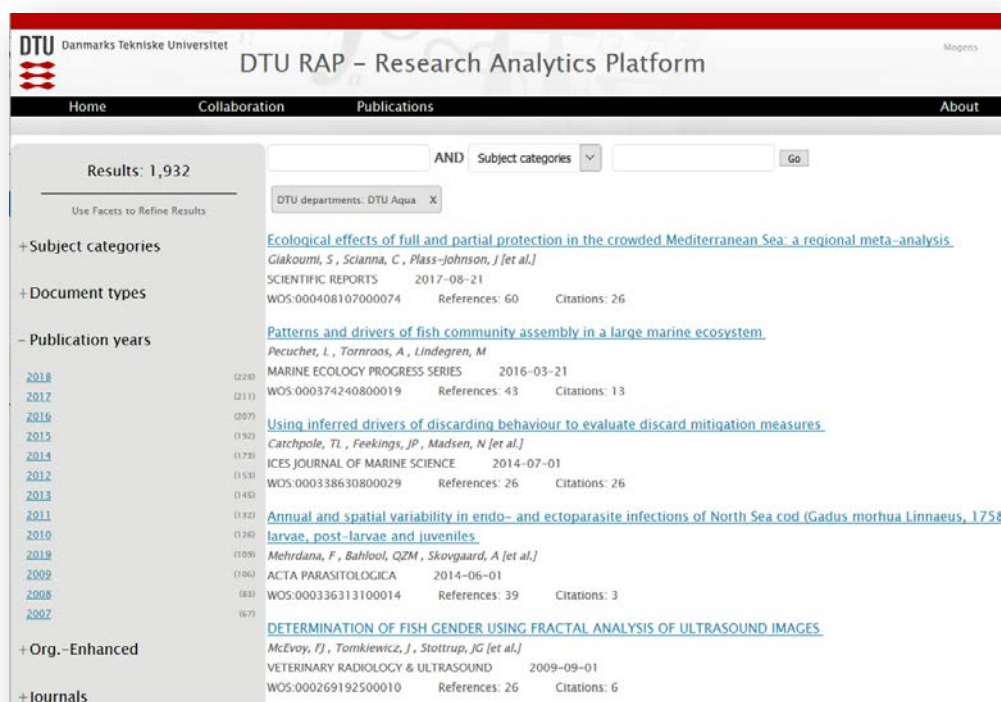
[Sensitive optomechanical transduction of electric and magnetic signals to the optical domain](#)  
Simonsen, A, Saarinen, SA, Sanchez, JD [et al.]  
OPTICS EXPRESS 2019-06-24  
WOS:000472621000095 References: 28 Citations: 0

[Multi-Criteria Layout Synthesis of MEMS Devices Using Memetic Computing](#)  
Tutum, CC, Fan, Z  
2011 IEEE CONGRESS ON EVOLUTIONARY COMPUTATION (CEC) 2011-01-01  
WOS:000312932600124 References: 26 Citations: 1

[SUBTLE IS THE LORD: ON THE DIFFERENCE BETWEEN NEWTONIAN \(LYAPUNOV\) STABILITY ANALYSIS AND GEOMETRICAL](#)

The module opens with the result of a search for all DTU publications from 2007-today – and offers a variety of ways to zoom-in and refine this search. Especially the option to zoom-in on a single DTU department - exploiting the local efforts to map the many variants of DTU department names (>2500) to 30 current names

Below DTU department is set to “DTU Aqua” using the facet to the left. The facet “Publication years” is opened to see the year-by-year number of publications from DTU Aqua.



DTU Danmarks Tekniske Universitet

DTU RAP – Research Analytics Platform

Home Collaboration Publications About

Results: 1,932

Use Facets to Refine Results

+ Subject categories

+ Document types

- Publication years

+ Org.-Enhanced

+ Journals

AND Subject categories Go

DTU departments: DTU Aqua X

[Ecological effects of full and partial protection in the crowded Mediterranean Sea: a regional meta-analysis](#)  
Giakoumi, S, Scianna, C, Plass-Johnson, J [et al.]  
SCIENTIFIC REPORTS 2017-08-21  
WOS:000408107000074 References: 60 Citations: 26

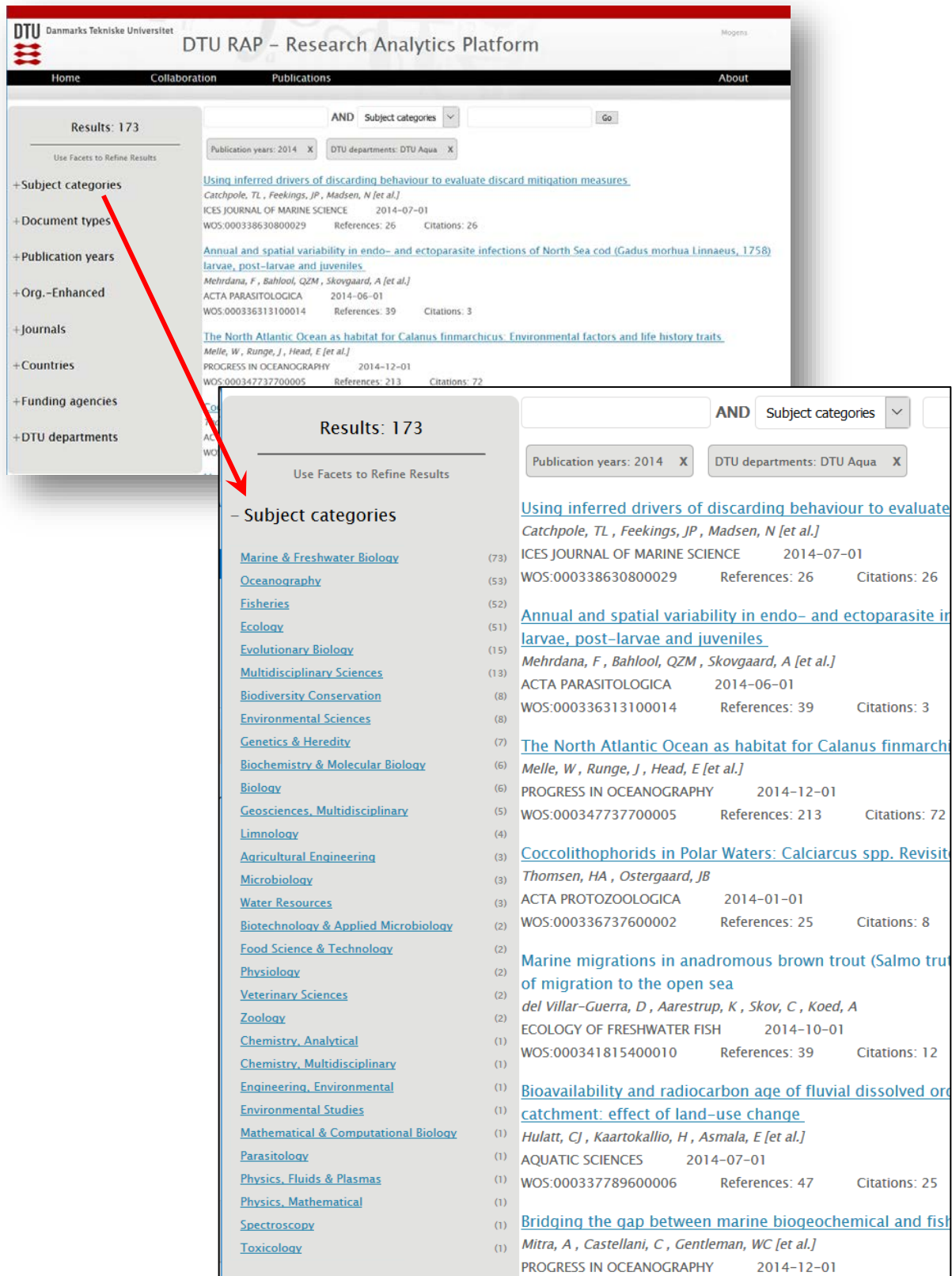
[Patterns and drivers of fish community assembly in a large marine ecosystem](#)  
Pecuchet, L, Tornroos, A, Lindegren, M  
MARINE ECOLOGY PROGRESS SERIES 2016-03-21  
WOS:000374240800019 References: 43 Citations: 13

[Using inferred drivers of discarding behaviour to evaluate discard mitigation measures](#)  
Catchpole, TL, Feekings, JP, Madsen, N [et al.]  
ICES JOURNAL OF MARINE SCIENCE 2014-07-01  
WOS:000338630800029 References: 26 Citations: 26

[Annual and spatial variability in endo- and ectoparasite infections of North Sea cod \(Gadus morhua Linnaeus, 1758\) larvae, post-larvae and juveniles](#)  
Mehrdana, F, Bahlool, QZM, Skovgaard, A [et al.]  
ACTA PARASITOLOGICA 2014-06-01  
WOS:000336313100014 References: 39 Citations: 3

[DETERMINATION OF FISH GENDER USING FRACTAL ANALYSIS OF ULTRASOUND IMAGES](#)  
McEvoy, TJ, Tomkiewicz, J, Stottrup, JG [et al.]  
VETERINARY RADIOLOGY & ULTRASOUND 2009-09-01  
WOS:000269192500010 References: 26 Citations: 6

You may choose a single year – for example “2014”:



The screenshot displays the DTU RAP – Research Analytics Platform interface. The top navigation bar includes links for Home, Collaboration, Publications, and About. The main search area shows a search bar with the text "AND Subject categories" and a "Go" button. Below the search bar, the results are filtered by "Publication years: 2014" and "DTU departments: DTU Aqua". The results list shows several publications, including "Using inferred drivers of discarding behaviour to evaluate discard mitigation measures" and "Annual and spatial variability in endo- and ectoparasite infections of North Sea cod". A red arrow points to the "Subject categories" facet on the left side of the results list, which is expanded to show a list of categories such as Marine & Freshwater Biology, Oceanography, Fisheries, Ecology, Evolutionary Biology, Multidisciplinary Sciences, Biodiversity Conservation, Environmental Sciences, Genetics & Heredity, Biochemistry & Molecular Biology, Biology, Geosciences, Multidisciplinary, Limnology, Agricultural Engineering, Microbiology, Water Resources, Biotechnology & Applied Microbiology, Food Science & Technology, Physiology, Veterinary Sciences, Zoology, Chemistry, Analytical, Chemistry, Multidisciplinary, Engineering, Environmental, Environmental Studies, Mathematical & Computational Biology, Parasitology, Physics, Fluids & Plasmas, Physics, Mathematical, Spectroscopy, and Toxicology.

This – for example – enables DTU Aqua to study how the subject categories of their publications have evolved year by year since 2007. Or another aspect of their publications by using another facet.



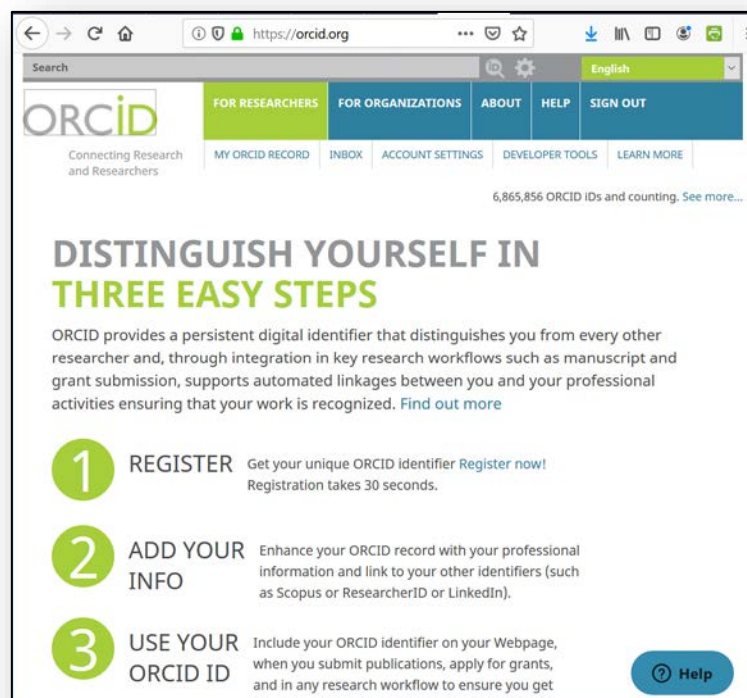
#### 4. Next steps

The next modules will address the need for **output and impact statistics** for performance monitoring, annual reporting, evaluation of departments, etc. Statistics will be based on the publication data of DTU researchers – and aggregated at the levels: Sections → Departments → University.

The key to realizing this is

- ✓ Widespread adoption of ORCID (the global researcher ID)
- ✓ Updated researcher profiles with publication lists in ORCID
- ✓ Synchronization of local data from DTU Orbit to the global ORCID
- ✓ Synchronization of ORCID data to Web of Science

Thus, we may now retrieve practically all the Web of Science-publications of a researcher - simply by searching WoS for the researcher's ORCID.



This reflects many years' of effort at DTU:

- DTU Library has organized and supported the DTU ORCID-rollout to all researchers since 2014.
- DTU Library facilitates that all DTU publications are registered locally in DTU Orbit – and that they may be synchronized to the researcher's global ORCID profiles.
- For the past couple of years, updated ORCID profiles have been mandatory for all researchers in connection with the research assessment of their department.

→ We may now rely on ORCID-searches to generate DTU publication lists of researchers

→ Should a researcher miss a publication in the list, she may easily add it to her ORCID profile, and - in turn - Web of Science and the DTU Research Analytics Platform will be automatically updated.

→ A mockup of the new modules will be ready for presentation in Q4-2019.