

# Measuring OA in Finland: the 2016 data

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# National data collection

- OA monitoring integrated with the national data collection conducted by CSC for the Ministry of Education and Culture
  - The publication metadata is collected from the CRIS of each organization
  - An automated data collection process was launched in 2016
  - Many organizations still upload their data on annual basis - deadline at the end of March
- The data is stored in the Virta service built by CSC
  - The de-duplicated publication data can be browsed at Juuli, [www.juuli.fi](http://www.juuli.fi), a VuFind-based discovery interface run by the National Library

| Type of Publication         |        |
|-----------------------------|--------|
| ▼ A Peer-reviewed sci...    | 27,114 |
| A1 Journal articl...        | 19,421 |
| A2 Review article...        | 1,102  |
| A3 Book section, ...        | 2,835  |
| A4 Conference pr...         | 3,756  |
| ▶ B Non-refereed scie...    | 4,039  |
| ▶ C Scientific books (mo... | 768    |
| ▶ D Publications intend...  | 8,950  |
| ▶ E Publications intend...  | 4,567  |
| ▶ G Theses                  | 1,756  |

# OA status in the national data collection

- There used to be serious issues with the quality of the OA status data
  - Starting from 2016, improved definitions & better categories
- Two separate fields for indicating the OA status
  - One field indicates whether the publication is OA via a Gold or a Hybrid channel
  - The second field is used for indicating whether it has been deposited into a repository (Green OA)
- Shown as a facet in the Juuli interface

|                             |        |
|-----------------------------|--------|
| <b>Year of Publication</b>  | ▲      |
| 2016                        | ✓      |
| <b>Open Access</b>          | ▲      |
| Gold OA publication channel | 12,106 |
| Green OA                    | 5,902  |
| Other OA availability       | 1,119  |

# OA definition?

- The OA rules have been made as clear as possible
  - The publication should be at least free to read (“gratis OA”)
  - Gold/Hybrid and Green Open Access are all accepted
  - Embargoes allowed for Green OA but not for Gold or Hybrid
  - Depositing into an institutional or subject-based repository is OK, but papers available at personal/project websites or at walled gardens like Research Gate or Academia.edu don't count
  - The OA version must be peer-reviewed to qualify



# Work in progress

- Although the quality of the data is better than before, it is still far from perfect
  - Some organizations are putting more effort into it than others
  - There are still some issues with de-duplication, especially with Gold and Hybrid OA
  - The policy on embargoes may need clarification
- No data on APC costs or licenses collected at the moment

Ion source research and development at University of Jyväskylä: Studies of different plasma processes and towards the higher beam intensities



Full text delay due to publisher restrictions ("embargo") till 2016-11-11.



**Name:** koivistokalvaseta ...  
**Size:** 2.136Mb  
**Format:** PDF  
**Description:** Publisher's PDF

**Citation:**

Koivisto, H., Kalvas, T., Tarvainen, O., Komppula, J., Laulainen, J., Kronholm, R., . . . Machicoane, G. (2016). Ion source research and development at University of Jyväskylä: Studies of different plasma processes and towards the higher beam intensities. *Review of Scientific Instruments*, 87 (2), 02A725. doi:10.1063/1.4934687

**Title:** Ion source research and development at University of Jyväskylä: Studies of different plasma processes and towards the higher beam intensities

**Author:** Koivisto, Hannu; Kalvas, Taneli; Tarvainen, Olli; Komppula, Jani; Laulainen, Janne; Kronholm, Risto; Ranttila, Kimmo; Tuunanen, Juha; Thuillier, T.; Xie, D.; Machicoane, G.

**Abstract:** Several ion source related research and development projects are in progress at the Department of Physics, University of Jyväskylä (JYFL). The work can be divided into investigation of the ion sourceplasma and development of ion sources, ion beams, and diagnostics. The investigation covers the Electron Cyclotron Resonance Ion Source (ECRIS) plasma instabilities, vacuum ultraviolet (VUV) and visible light emission, photon induced electron emission, and the development of plasma diagnostics. The ion source development covers the work performed for radiofrequency-driven negative ion source, RADIS, beam line upgrade of the JYFL 14 GHz ECRIS, and the development of a new room-temperature-magnet 18 GHz ECRIS, HIISI.

**Publisher:** American Institute of Physics

**Date:** 2016

# The 2016 data: Peer-reviewed articles (A1-A4) and OA at Finnish universities

| University                                  | Publications | Gold OA     | Other OA   | Green OA    | OA total    |
|---|--------------|-------------|------------|-------------|-------------|
| Aalto Univ                                  | 3036         | 367         | 143        | 317         | 663         |
| Hanken                                      | 207          | 38          | 8          | 22          | 52          |
| Univ of Helsinki                            | 7072         | 1110        | 155        | 1489        | 1750        |
| Univ of Eastern Finland                     | 2339         | 555         | 117        | 261         | 718         |
| Univ of Jyväskylä                           | 1882         | 385         | 60         | 947         | 985         |
| Univ of Lapland                             | 329          | 109         | 1          | 23          | 120         |
| Lappeenranta Univ of Tech                   | 819          | 257         | 3          | 4           | 261         |
| Oulu University                             | 2241         | 401         | 104        | 321         | 608         |
| Univ of Arts                                | 60           | 38          | 0          | 0           | 38          |
| Tampere Univ of Tech                        | 1504         | 262         | 33         | 269         | 411         |
| Univ of Tampere                             | 1878         | 423         | 113        | 364         | 583         |
| Univ of Turku                               | 2991         | 613         | 278        | 702         | 1128        |
| Univ of Vaasa                               | 306          | 54          | 35         | 30          | 106         |
| Åbo Akademi                                 | 873          | 177         | 27         | 29          | 209         |
| <b>All universities</b>                     | <b>23096</b> | <b>4277</b> | <b>799</b> | <b>3951</b> | <b>6613</b> |
| <b>All universities of applied sciences</b> | <b>695</b>   | <b>264</b>  | <b>29</b>  | <b>96</b>   | <b>331</b>  |

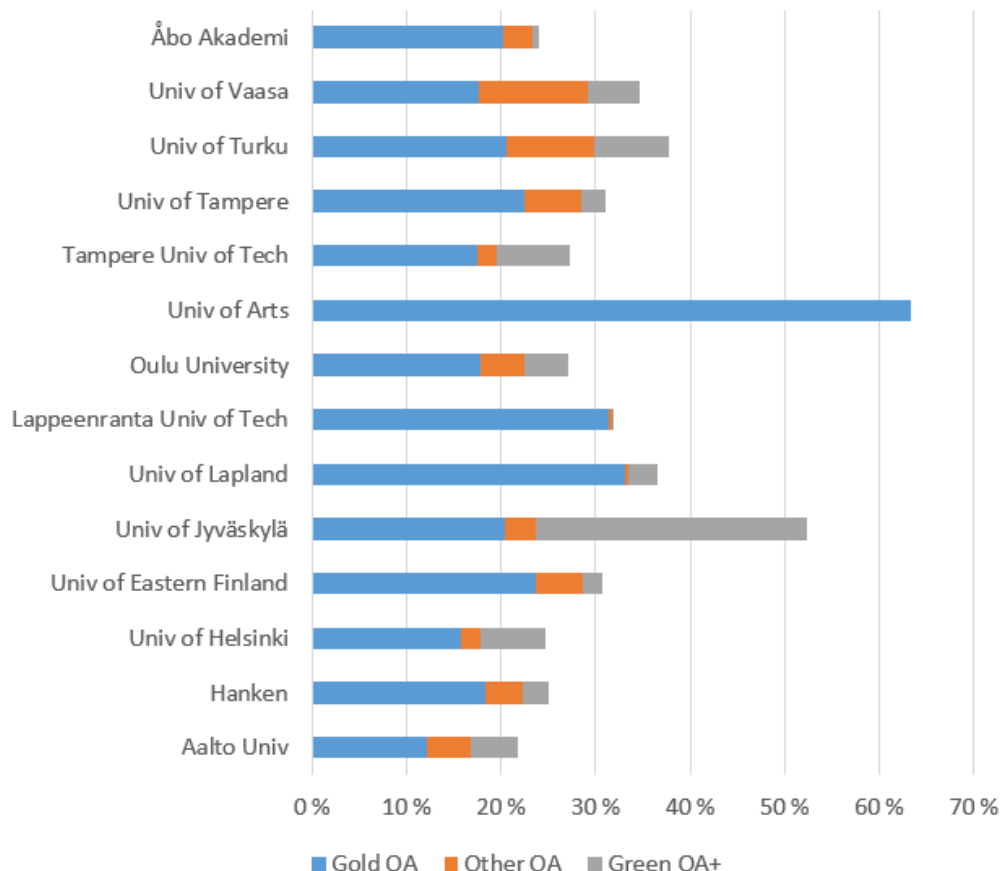
# The 2016 data: Peer-reviewed articles (A1-A4) and OA at Finnish universities, in percentages

| University                                  | Gold OA       | Other OA     | Green OA      | OA total      | Green OA+    |
|---|---------------|--------------|---------------|---------------|--------------|
| Aalto Univ                                  | 12,1 %        | 4,7 %        | 10,4 %        | <b>21,8 %</b> | 5,0 %        |
| Hanken                                      | 18,4 %        | 3,9 %        | 10,6 %        | <b>25,1 %</b> | 2,9 %        |
| Univ of Helsinki                            | 15,7 %        | 2,2 %        | 21,1 %        | <b>24,7 %</b> | 6,9 %        |
| Univ of Eastern Finland                     | 23,7 %        | 5,0 %        | 11,2 %        | <b>30,7 %</b> | 2,0 %        |
| Univ of Jyväskylä                           | 20,5 %        | 3,2 %        | 50,3 %        | <b>52,3 %</b> | 28,7 %       |
| Univ of Lapland                             | 33,1 %        | 0,3 %        | 7,0 %         | <b>36,5 %</b> | 3,0 %        |
| Lappeenranta Univ of Tech                   | 31,4 %        | 0,4 %        | 0,5 %         | <b>31,9 %</b> | 0,1 %        |
| Oulu University                             | 17,9 %        | 4,6 %        | 14,3 %        | <b>27,1 %</b> | 4,6 %        |
| Univ of Arts                                | 63,3 %        | 0,0 %        | 0,0 %         | <b>63,3 %</b> | 0,0 %        |
| Tampere Univ of Tech                        | 17,4 %        | 2,2 %        | 17,9 %        | <b>27,3 %</b> | 7,7 %        |
| Univ of Tampere                             | 22,5 %        | 6,0 %        | 19,4 %        | <b>31,0 %</b> | 2,5 %        |
| Univ of Turku                               | 20,5 %        | 9,3 %        | 23,5 %        | <b>37,7 %</b> | 7,9 %        |
| Univ of Vaasa                               | 17,6 %        | 11,4 %       | 9,8 %         | <b>34,6 %</b> | 5,6 %        |
| Åbo Akademi                                 | 20,3 %        | 3,1 %        | 3,3 %         | <b>23,9 %</b> | 0,6 %        |
| <b>All universities</b>                     | <b>18,5 %</b> | <b>3,5 %</b> | <b>17,1 %</b> | <b>28,6 %</b> | <b>6,7 %</b> |
| <b>All universities of applied sciences</b> | <b>38,0 %</b> | <b>4,2 %</b> | <b>13,8 %</b> | <b>47,6 %</b> | <b>5,5 %</b> |

# Gold/Hybrid vs. Green

- Lots of overlap between Gold/Hybrid and Green OA
- Some universities systematically collect all of their Gold OA publications into their own repositories
- Green OA+: Additional OA provided by Green OA about 6,7 % of the total peer-reviewed article output (~1500 articles)

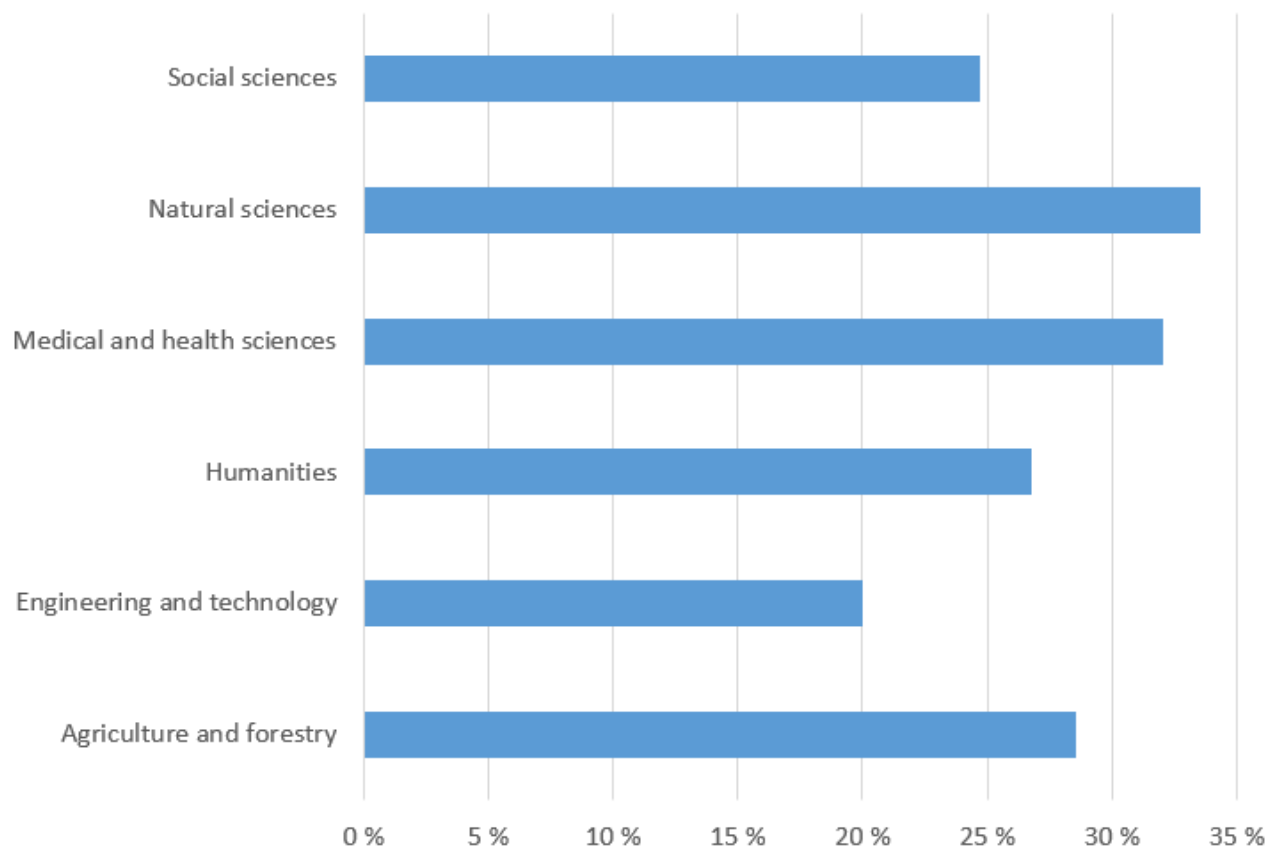
Different types of OA at Finnish universities in 2016, peer-reviewed articles (A1-A4)





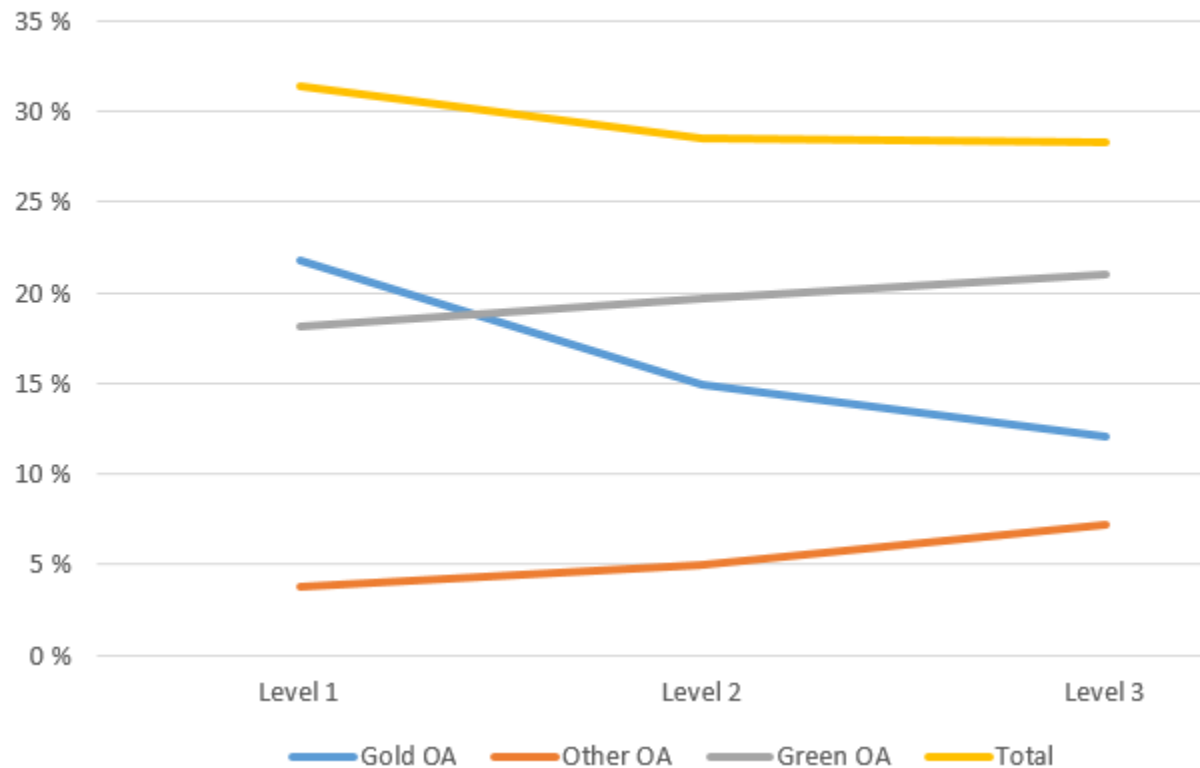
# OA in different research fields

Finnish universities 2016, peer-reviewed articles (A1-A4), percentage of OA by field of science



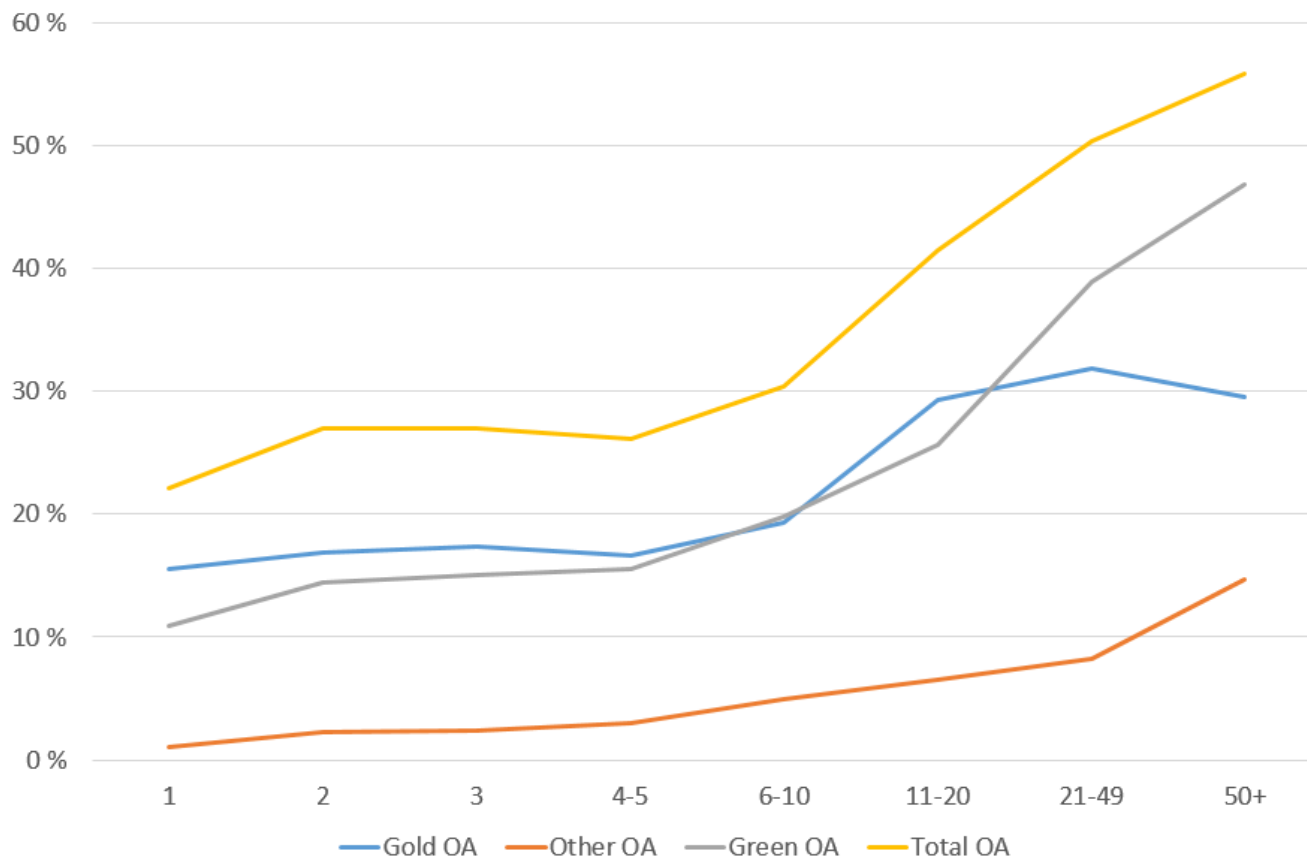
# Publication Forum rankings and OA

Finnish universities 2016, peer-reviewed journal articles (A1-2) and Publication Forum rankings



# Number of authors and OA

Finnish Universities 2016: Peer-reviewed articles (A1-A4),  
percentage of OA vs. number of authors



**Thank you!**



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