SciVal Intermediate

Dr Charles Martinez,
Customer Consultant
Agenda

- Creating and maintaining groups of researchers
- Collaborations deep dive
- Constructing and using Research Areas
Creating and maintaining groups of researchers
Import Researchers

Here you can import a list of Scopus authors into SciVal.
Please upload a text file containing Scopus author metadata.

Drop file here or click to upload
(CSV, XLS, JSON, or text file)

Paste IDs
Alternatively, you can paste a list of Scopus author IDs or ORCID IDs in this field
(one ID per row, max. 1,000).
An example of what’s needed

Need an example?

Add researcher data, separate values by | or a carriage return (Alt+Enter)

Add hierarchy using levels, Level 1 is the top one

The more information, the higher the accuracy of the results.

The columns on the left in black are to identify the researchers and the columns on the right in green are to put them in the hierarchy.

- College, Lisa
- Kamalski, Judith
- Hoeman, Frank C.
- University of Oxford
  - Medical Sciences Division
  - Nuffield Department of Surgical Science
## Practical Example

<table>
<thead>
<tr>
<th>Author</th>
<th>Name variants</th>
<th>Affiliation</th>
<th>EIDs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colin Atkinson</td>
<td></td>
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<tr>
<td>Frank Berkshire</td>
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<td>Pavel Berloff</td>
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<tr>
<td>Colin Cotter</td>
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<tr>
<td>Richard Craster</td>
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<td>Imperial College London</td>
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<tr>
<td>Darren Crowdy</td>
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<tr>
<td>Pierre Degond</td>
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<td>Imperial College London</td>
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<tr>
<td>John Gibbon</td>
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<tr>
<td>David Ham</td>
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<td>Darryl Holm</td>
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<tr>
<td>Eric Keaveney</td>
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<td>Imperial College London</td>
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<td>Jonathan Mestel</td>
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<tr>
<td>Shahid Mughal</td>
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<tr>
<td>Robert Nurnberg</td>
<td></td>
<td>Imperial College London</td>
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<tr>
<td>Demetrius Papageorgiou</td>
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<tr>
<td>Grigoris Pavliotis</td>
<td></td>
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<tr>
<td>Prasun Ray</td>
<td></td>
<td>Imperial College London</td>
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<tr>
<td>Anatoly Ruban</td>
<td></td>
<td>Imperial College London</td>
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<tr>
<td>Peter Schmid</td>
<td></td>
<td>Imperial College London</td>
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<tr>
<td>Ory Schnitzer</td>
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<td>Imperial College London</td>
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<tr>
<td>Trevor Stuart</td>
<td></td>
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</tr>
<tr>
<td>Andrew Walton</td>
<td></td>
<td>Imperial College London</td>
<td></td>
</tr>
</tbody>
</table>
Results from ‘raw’ import

Import Researchers

18 matched authors
will be directly imported into SciVal.

15 suggested authors
can be imported into SciVal after refinement or by dragging the best matched profile to the left.

Author | Publications
--- | ---
Berlof, Pavel S. | 46
Bechler, F. A.T. | 4
Cimpeanu, Radu | 10
Cotz Zelasi, Michaela | 20
Crawley, Richard V. | 241
Crewy, Darren G. | 131
Dagond, Pierre | 242
Holm, Darryl D. | 246
Kavaney, Eric E. | 23

Author | Best match
--- | ---
Atkinson, Colin | 
Schmid, Peter | 
Papageorgiou, Demetrios | 
Gibbon, John | 
Wu, Xuexiang | 
Cotter, Colin | 
Stuart, J T | 
Hams, David | 
Walton, Andrew | 

< Previous step | Next step >
Quick Checks

Export a list of the missing names and check the on Scopus, then amend the main spreadsheet.

Then tackle the yellow names.
Keeping structures up to date

People Join and Leave

Export the Scopus ID's of the group you want to update,

update the spreadsheet for the group and select synchronize Groups
Collaborations deep dive
Using filters for "real" collaboration

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics
Volume 716, Issue 1, 17 September 2012, Pages 1-29

Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC (Article) (Open Access)

Aad, G.\textsuperscript{a}, Abajyan, T.\textsuperscript{a}, Abbott, B.\textsuperscript{a}, Abdallah, J.\textsuperscript{a}, AbdelKhalek, S.\textsuperscript{a}, Abdelalim, A.A.\textsuperscript{b}, Abdinov, O.\textsuperscript{c}, Abedin, R.\textsuperscript{c}, Abi, B.\textsuperscript{c}, Abolins, M.\textsuperscript{c}, AbouZeid, O.S.\textsuperscript{c}, Abramowicz, H.E.\textsuperscript{d}, Abreu, H.\textsuperscript{c}, Acharya, B.S.\textsuperscript{e}, Adams, D.L.\textsuperscript{c}, Addy, T.N.\textsuperscript{c}, Adelman, J.\textsuperscript{b}, Adreani, S.\textsuperscript{c}, Adragna, P.\textsuperscript{c}, Adye, T.\textsuperscript{c}, Afsetsnyi, F.\textsuperscript{c}, Agnello, S.\textsuperscript{c}, Aguilar-Saavedra, J.A.\textsuperscript{f}, Agustini, M.\textsuperscript{c}, Aharrouche, M.\textsuperscript{c}, 2932 authors

77 institutions

View additional affiliations

Abstract

A search for the Standard Model Higgs boson in proton-proton collisions with the ATLAS detector at the LHC is presented. The datasets used correspond to integrated luminosities of approximately 4.8 fb\textsuperscript{-1} collected at $\sqrt{s}=7$ TeV in 2011 and 5.8 fb\textsuperscript{-1} at $\sqrt{s}=8$ TeV in 2012. Individual searches in the channels $H\rightarrow ZZ^{(*)}\rightarrow 4\ell$, $H\rightarrow WW^{(*)}\rightarrow 4\ell$ and $H\rightarrow \gamma\gamma$ in the 8 TeV data are combined with previously published results of searches for $H\rightarrow ZZ^{(*)}$, $WW^{(*)}$, $bb$- and $tt$- in the 7 TeV data and results from improved analyses of the $H\rightarrow ZZ^{(*)}\rightarrow 4\ell$ and $H\rightarrow \gamma\gamma$ channels in the 7 TeV data. Clear evidence for the production of a neutral boson with a measured mass of 126.0±0.4(stat)±0.4(syst)GeV is presented. This observation, which has a significance of 5.9 standard deviations, corresponding to a background fluctuation probability of $1.7\times10^{-8}$, is compatible with the production and decay of the Standard Model Higgs boson. © 2012 CERN.
Using filters for “real” collaboration

If the researcher/s from Glasgow don’t know the co-authors from Gazi Universitesi, is this a real collaboration?
Using filters for “real” collaboration

This can be a very common problem for fields in which “hyper” authored publications are common, for example 

High Energy Particle Physics

The first clue that this could be a problem would lie once you have clicked on the current collaborator’s institution
How can we investigate a collaboration further

Say we wanted to know a bit more about the non hyper authored collaborations between Imperial College and Nanyang Technological University

Remember we can create a publication set from any export point in SciVal
How can we investigate a collaboration further

Then copy the EID’s under import publications
How can we investigate a collaboration further
How can we investigate a collaboration further
How can we investigate a collaboration further

You can study which other institutions are co-authoring with both of you

### Institutions in Imperial College London and Nanyang Technological University

There are 164 institutions in Imperial College London and Nanyang Technological University, 2013-2018:

<table>
<thead>
<tr>
<th>Institution</th>
<th>Publications</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Nanyang Technological University</td>
<td>289</td>
<td>330</td>
</tr>
<tr>
<td>2. Imperial College London</td>
<td>289</td>
<td>256</td>
</tr>
<tr>
<td>3. Agency for Science, Technology and Research (A*STAR)</td>
<td>26</td>
<td>29</td>
</tr>
<tr>
<td>4. Universiti Teknologi Malaysia</td>
<td>13</td>
<td>7</td>
</tr>
<tr>
<td>5. National University of Singapore</td>
<td>13</td>
<td>20</td>
</tr>
<tr>
<td>6. Karolinska Institute</td>
<td>10</td>
<td>16</td>
</tr>
<tr>
<td>7. Tan Tock Seng Hospital</td>
<td>9</td>
<td>14</td>
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<tr>
<td>8. University College London</td>
<td>9</td>
<td>17</td>
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<tr>
<td>10. University of Ljubljana</td>
<td>9</td>
<td>4</td>
</tr>
<tr>
<td>11. Polytechnic University of Turin</td>
<td>7</td>
<td>2</td>
</tr>
</tbody>
</table>
Exploring further in Trends
Exploring further in Trends
Exploring further in Trends

### Top authors

<table>
<thead>
<tr>
<th>#</th>
<th>Author</th>
<th>Affiliation</th>
<th>Scholarly Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cai, Jie</td>
<td>Imperial College London</td>
<td>43</td>
</tr>
<tr>
<td>2</td>
<td>David C. Stuckley, David</td>
<td>Nanyang Technological University</td>
<td>37</td>
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<tr>
<td>3</td>
<td>Barber, James</td>
<td>Imperial College London</td>
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<td>4</td>
<td>Lu, Yu L.</td>
<td>Nanyang Technological University</td>
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<td>5</td>
<td>Martinez-Botas, Ricardo</td>
<td>Imperial College London</td>
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<td>6</td>
<td>Romagnoli, Alessandro</td>
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<tr>
<td>7</td>
<td>Rijoe, S.</td>
<td>Universiti Teknologi Malaysia</td>
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<tr>
<td>8</td>
<td>Wong, Siu Chi</td>
<td>Nanyang Technological University</td>
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<tr>
<td>9</td>
<td>Burdot, E.</td>
<td>Nanyang Technological University</td>
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<td>10</td>
<td>Lee, Joochein S.C.</td>
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<td>11</td>
<td>Pandey, John B.</td>
<td>Imperial College London</td>
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<tr>
<td>12</td>
<td>Campleo, Domenico</td>
<td>Nanyang Technological University</td>
<td>9</td>
</tr>
<tr>
<td>13</td>
<td>Kunachow, Chinagorn</td>
<td>Nanyang Technological University</td>
<td>9</td>
</tr>
</tbody>
</table>
Constructing and using Research Areas
How can we build custom filters

We will give examples of the following use cases:

1- Niche field based on keywords

2- Potential collaborations
Niche field based on keywords

Let us suppose we were looking to identify existing and potential collaborators in the area of optical tweezers.

We can easily construct a research area to capture this field of research.

Define a new Research Area

1. Create definition
2. Refine definition
3. Save definition

Define a new Research Area based on publications that match...

Enter query string:
"optical tweezers"
Niche field based on keywords

Every research area you create becomes a filter in the collaboration module. Let's see potential collaborations:
Building research areas from Topics

We can also build a research area from 1 or more topics
Building research areas from Topics

Define a new Research Area

1. Create definition
2. Refine definition
3. Save definition

Use search terms Use entities Use Topics

Define a Research Area based on Topics

[Drag and drop at least one entity from the list on the left to define your Research Area]
Building research areas from Topics

Define a new Research Area

1. Create definition  2. Refine definition  3. Save definition

Use search terms  Use entities  Use Topics

Define a Research Area based on Topics

no subject area filter selected

Copy selected to my new Research Area

Sort by Scholarly Output

Type to filter

T.16017

Remove selected from my new Research Area

Drag and drop at least one entity from the list on the left to define your Research Area
Collaboration by Imperial College London

United Kingdom  More details on this institution

2013 to 2018  Stents; Drug-Eluting Stents; biodegradable scaffold (T.I...  ASJC

Institutions collaborating with Imperial College London

Worldwide  All sectors  ≤ 10 authors

55 collaborating institutions  92 co-authored publications

<table>
<thead>
<tr>
<th>Institution</th>
<th>Co-authored publications</th>
<th>Co-authors at Imperial College London</th>
<th>Co-authors at the other Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>IRCCS San Raffaele Scientific Institute</td>
<td>38</td>
<td>14 ▼</td>
<td>23 ▲</td>
</tr>
<tr>
<td>Erasmus University Rotterdam</td>
<td>36 ▲</td>
<td>2 ▲</td>
<td>23 ▲</td>
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<tr>
<td>University of Amsterdam</td>
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<tr>
<td>Juntendo University</td>
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Thank you