IET Inspec Analytics

Inspec Analytics user guide:

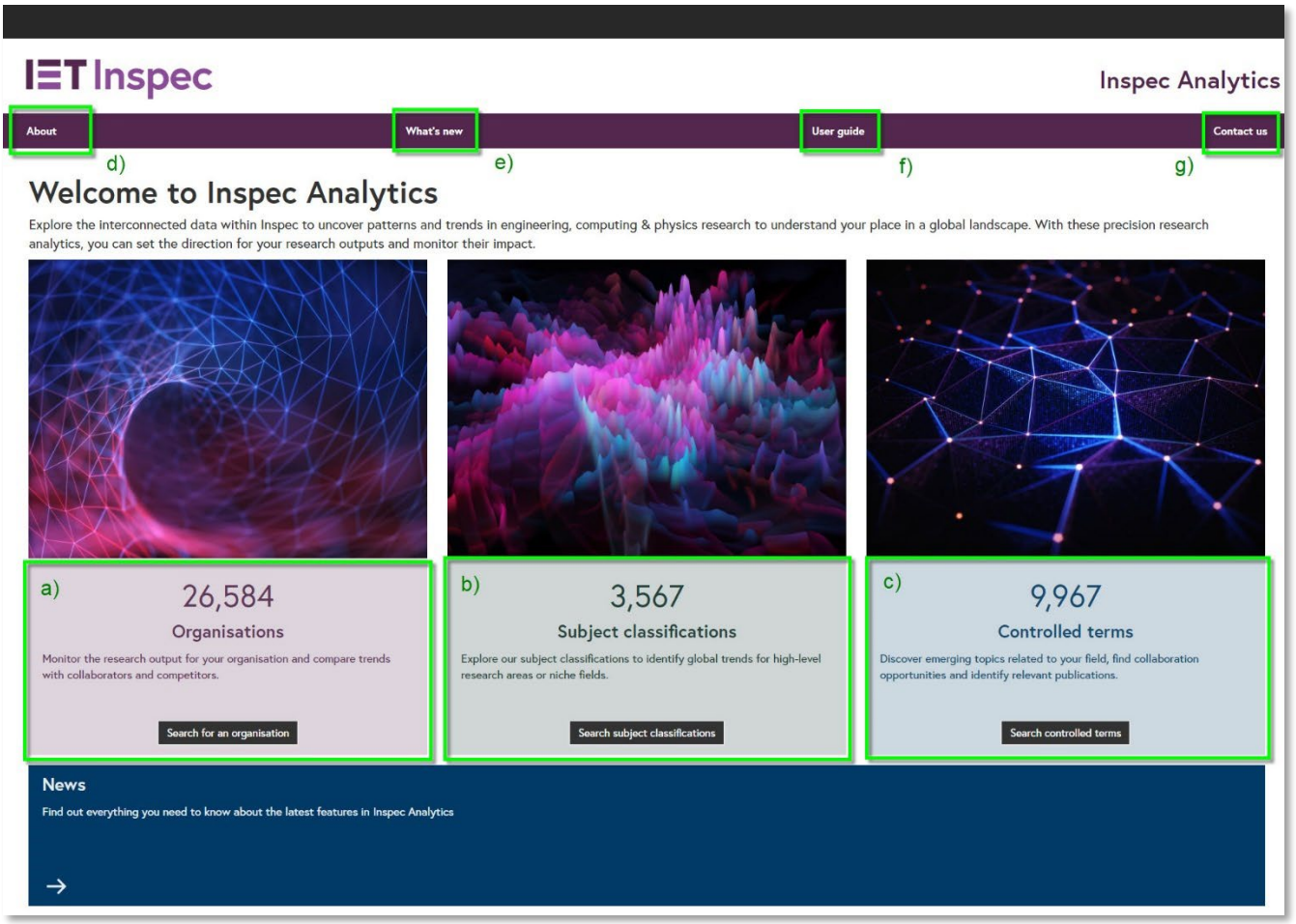
Contents

Inspec Analytics home page 3
Organisations 5
Organisations List Page 5
Understanding the view 5
Reordering your results 6
Navigating your results 6
Filtering your search 7
Comparing organisations 9
Exporting your insights 9
Organisation Profile 10
Understanding the view 11
Exporting your insights 11
Organisation Subject Classifications page 12
Understanding the view 12
The galaxy chart 13
Exporting your insights 14
Collaborating Organisations page 15
Understanding the view 15
Exporting your insights 16
Organisation Controlled Terms page 17
Understanding the view 17
Exporting your insights 18
Organisation Comparison page 19
Understanding the view 19
Filtering your view 20
Drilling down through Inspec subject classifications 21
Exporting your insights 21
Controlled terms 22
Controlled terms list page 22
Understanding the view 22
Exporting your insights 23
Controlled terms concept pages 24

Understanding the view 25
Exporting your insights 25
Controlled terms organisation pages 26
Understanding the view 26
Exporting your insights 27
Subject classifications 28
Subject classification codes list page 28
Understanding the view 28
Exporting your insights 29
Subject classification codes concept pages 30
Understanding the view 31
Exporting your insights 31
Subject classification codes organisation pages 32
Understanding the view 32
Exporting your insights 33

Inspec Analytics home page
https://inspec-analytics-app.theiet.org

On the home page there are links to the different analytics sets you can explore, with a description of the kind of insights you can find in each.



a) Organisations: Click on the organisations box to view and search all organisations on the organisations list page.
b) Subject classifications: Click on the subject classifications box to view and search all subject classifications on the subject classifications list page.
c) Click on the controlled terms box to view and search all controlled terms on the controlled terms list page.

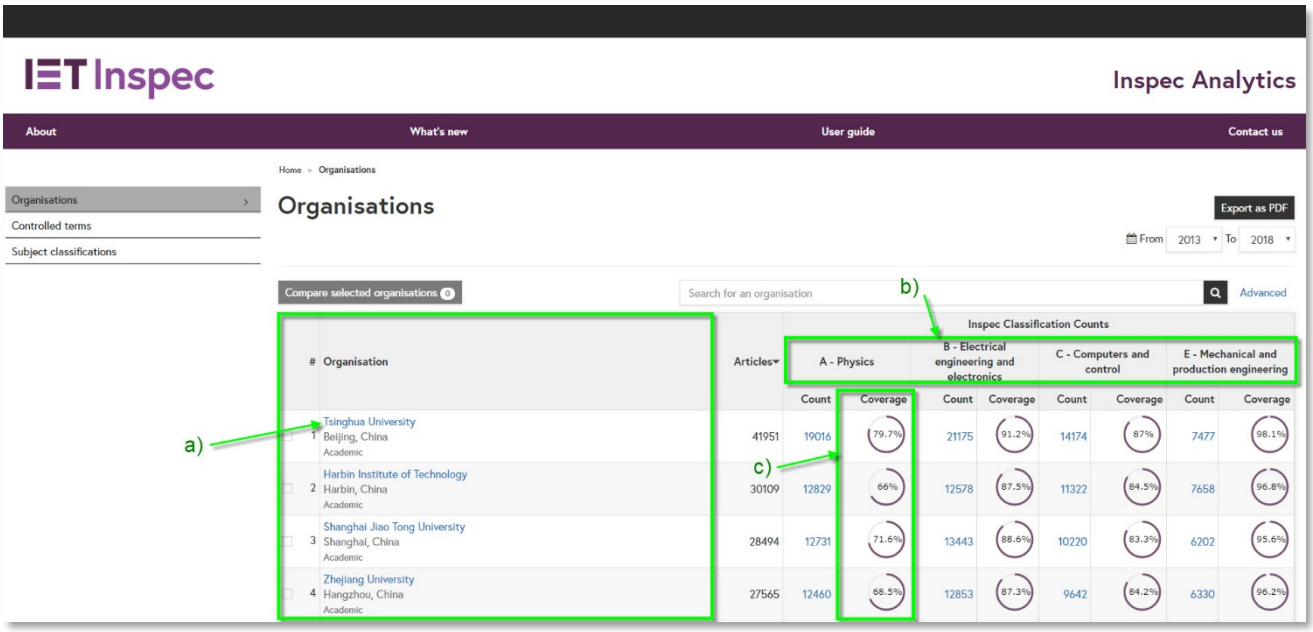
At the top of each page, you'll also find links to useful information about Inspec Analytics:

d) About: Find out more about Inspec Analytics.
e) What's new: Take a look at the latest features from Inspec Analytics.

f) User guide: Download or browse the Inspec Analytics user guide.
g) Contact us: Find contact details for your regional representative and technical support.

Organisations

Organisations List Page



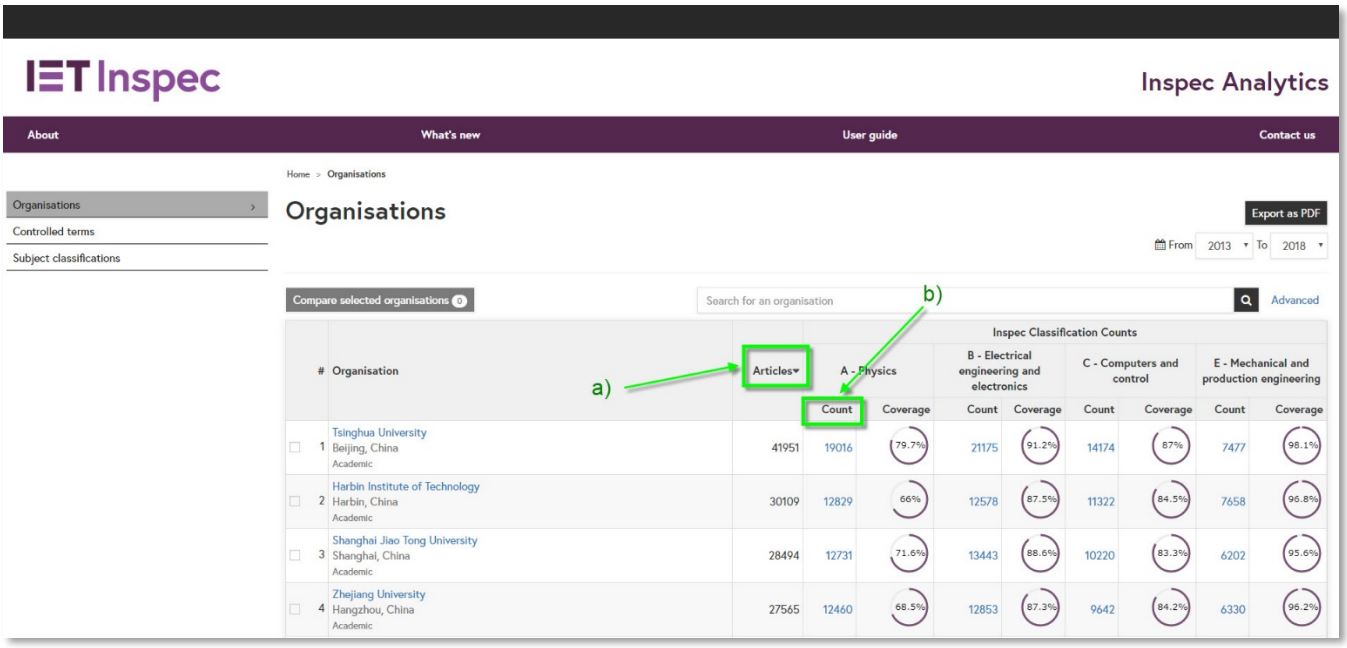
Understanding the view

a) Click on an organisation name to go to the corresponding organisation profile page. Organisations appear listed in order of research output indexed in Inspec with the highest total number of articles at the top.

b) The number of articles is also shown by Inspec classifications: A- Physics, B- Electrical engineering and electronics, C- Computers and control, E- Mechanical and production engineering.

c) The coverage column indicates the breadth of coverage the articles cover under each classification e.g. If the articles cover half of the Physics classification codes in Inspec, the coverage will be 50%. This is a good indicator of how specialised an organisation's research output is; two organisations may publish the same number of articles within 'Physics' but one could be a general research organisation, whereas the other only publishes on, for example, astronomy.

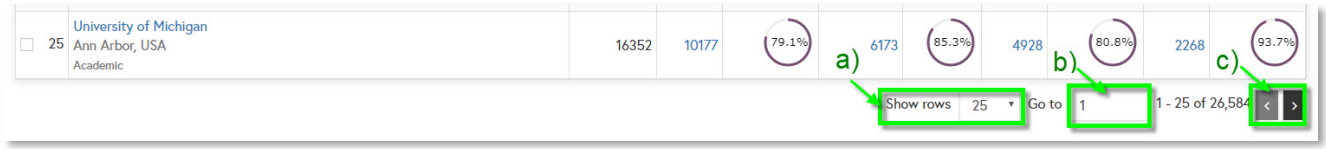
Reordering your results



a) Click on "Articles" to reverse the order of your results with the lowest number of articles at the top.

b) Click on the one of the subject classification counts to reorder your results by that subject e.g. A- Physics.

Navigating your results

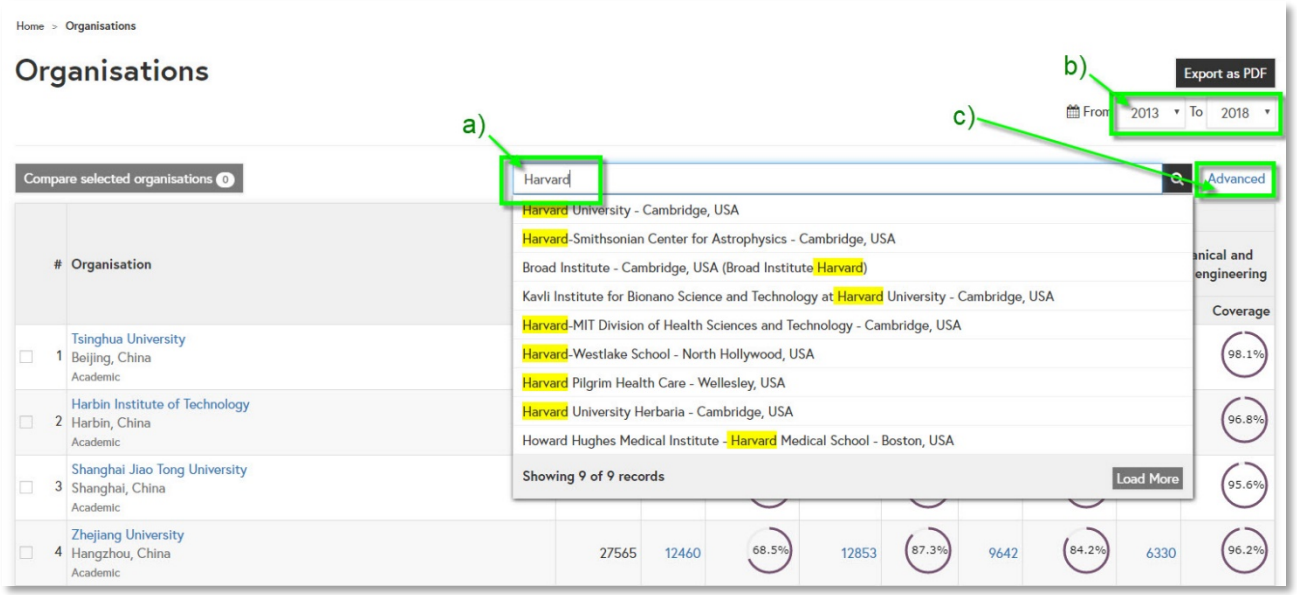


a) Reveal more results per page using the drop-down at the bottom of the table

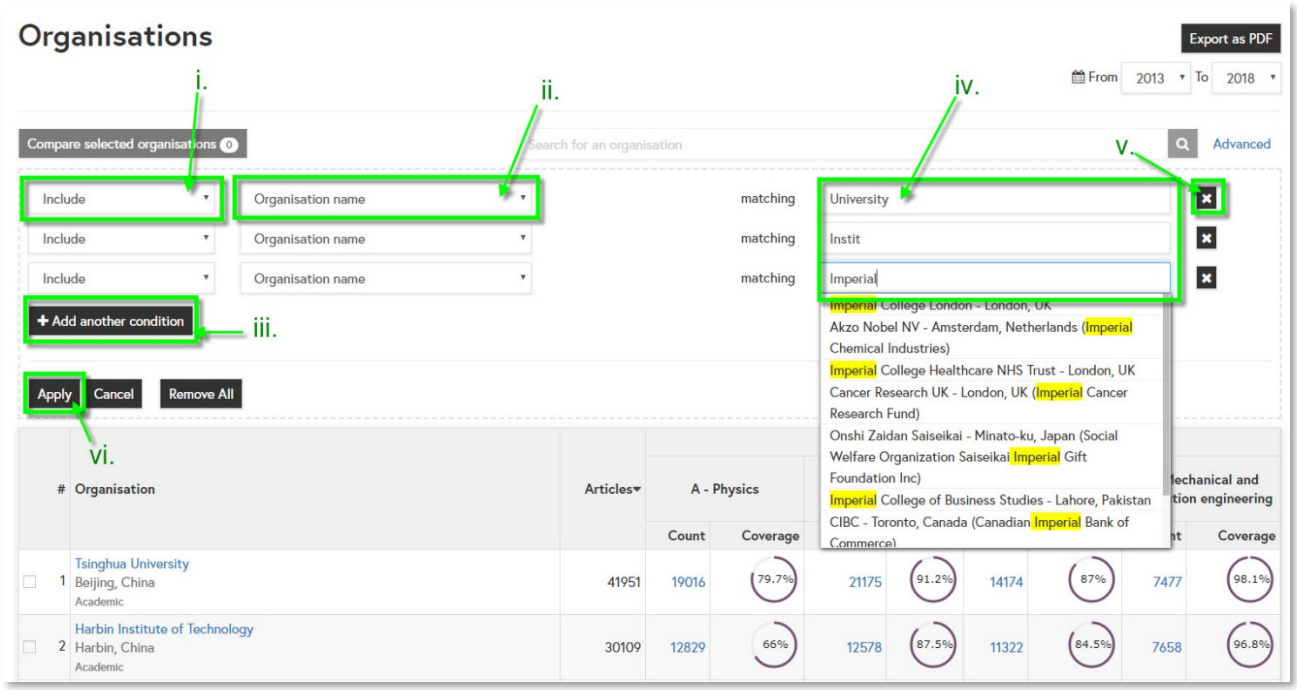
b) or jump to a row by typing a row number in the "Go to" box.

c) Click through to the next page using the arrows.

Filtering your search



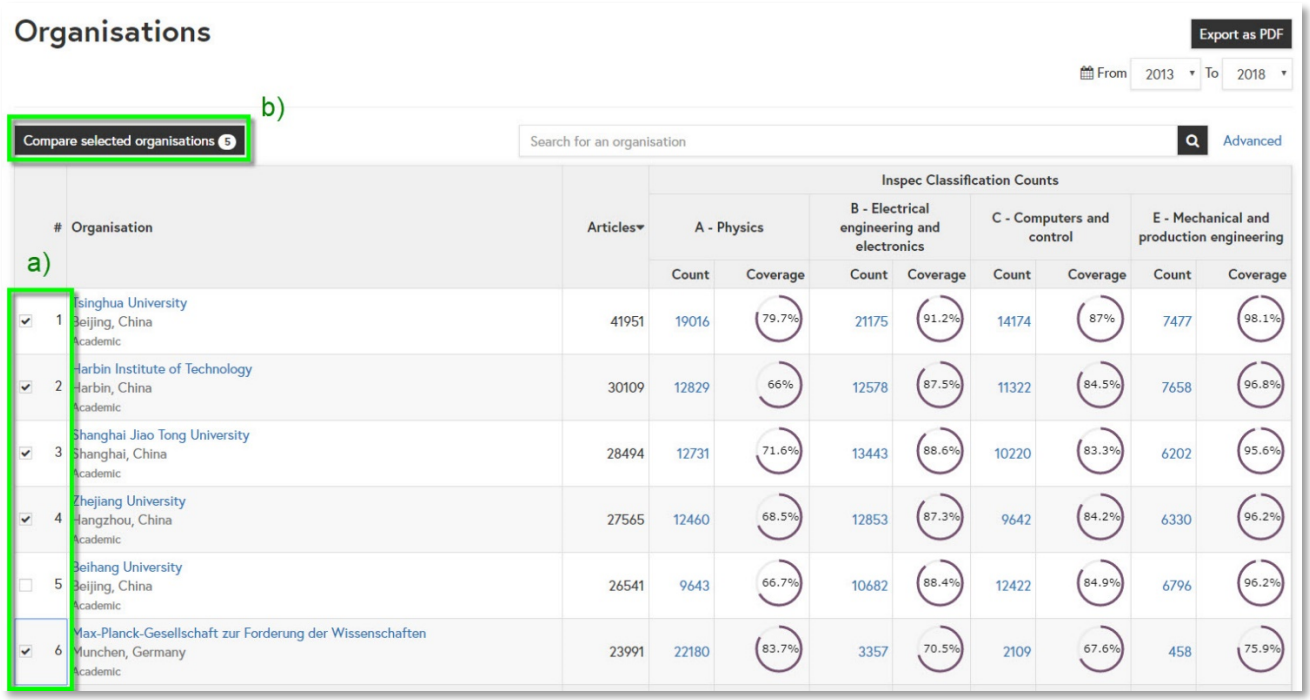
a) Search for an organisation using the search box at the top of the table. Start typing to see suggestions or click search to see results including your search term.
b) Filter the date range of your results using the "From" and "to" drop-down selections.
c) Click "Advanced" to see advanced search options:



i. Use the drop-down to select "Include" or "Exclude" search terms.

ii. Search with an organisation name, location or organisation type.
iii. Add multiple conditions. Each condition will be treated as "OR".
iv. Search for whole words, partial words or start typing to see suggestions and select an organisation.
v. Remove conditions by clicking on the corresponding "X" or by clicking "remove all".
vi. Click "Apply" to see your results.

Comparing organisations

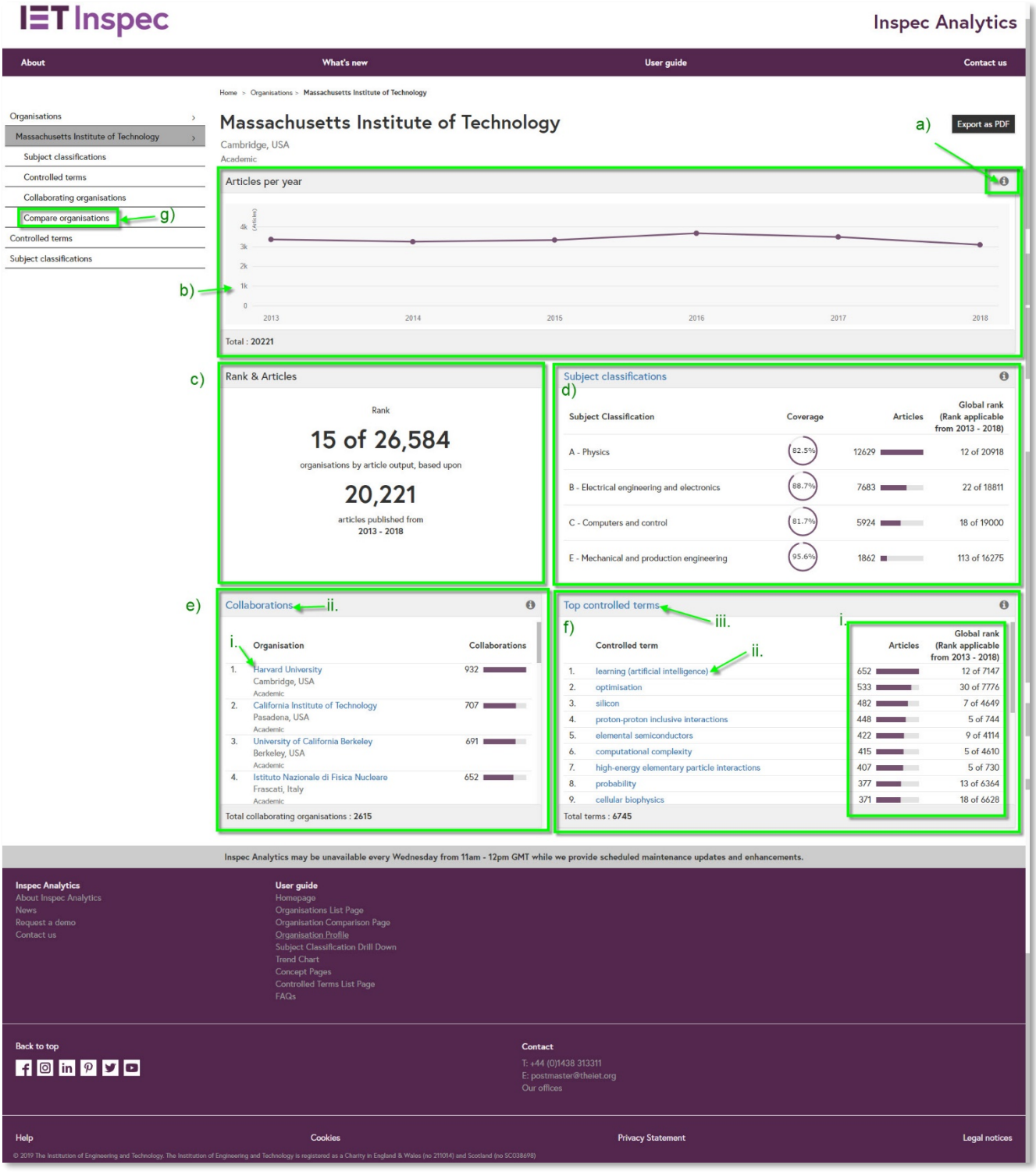


a) Select up to five organisations from your results.
b) Click "Compare selected organisations" to open the organisation comparison page.

Exporting your insights

Click on "Export as PDF" at the top of the page to download your current view. The PDF includes a link to your view so you can return directly to the data in the future.

Organisation Profile



a) For each tile on the page, you'll see an "i" icon. Hover over the icon for a description of the information displayed.

b) Articles per year graph: This line graph shows the total number of articles indexed for each year in the last five years. Hover over each point to see the figures.

c) Rank and articles tile: The overall organisation ranking is displayed in a dedicated tile so you can see the total number of articles at a glance and where this output ranks the organisation among the others indexed in Inspec. The ranking is currently based on the total number of articles.

d) Subject classifications table: This shows the subject coverage, number of articles and global ranking for each top-level Inspec subject classification. Click on the heading to go to the subject classifications page for your selected organisation. You can also find a link in the left-hand navigation.

e) Collaboration table: This shows the top 20 organisations that have co-authored items with the organisation you are viewing.

   i. Click on the organisation name to go to the organisation profile for that organisation

   ii. Click on the heading to explore all collaborations for your selected organisation on the collaborations page. You will also find a link in the left-hand navigation.

f) The Top controlled terms table: this shows the most popular controlled terms from the Inspec thesaurus associated with articles from the organisation you are viewing.

   i. For each term, you can see the number of articles and the institution's global ranking. The global ranking is based on the number of articles published.

   ii. Click on a term to visit the concept page for that term.

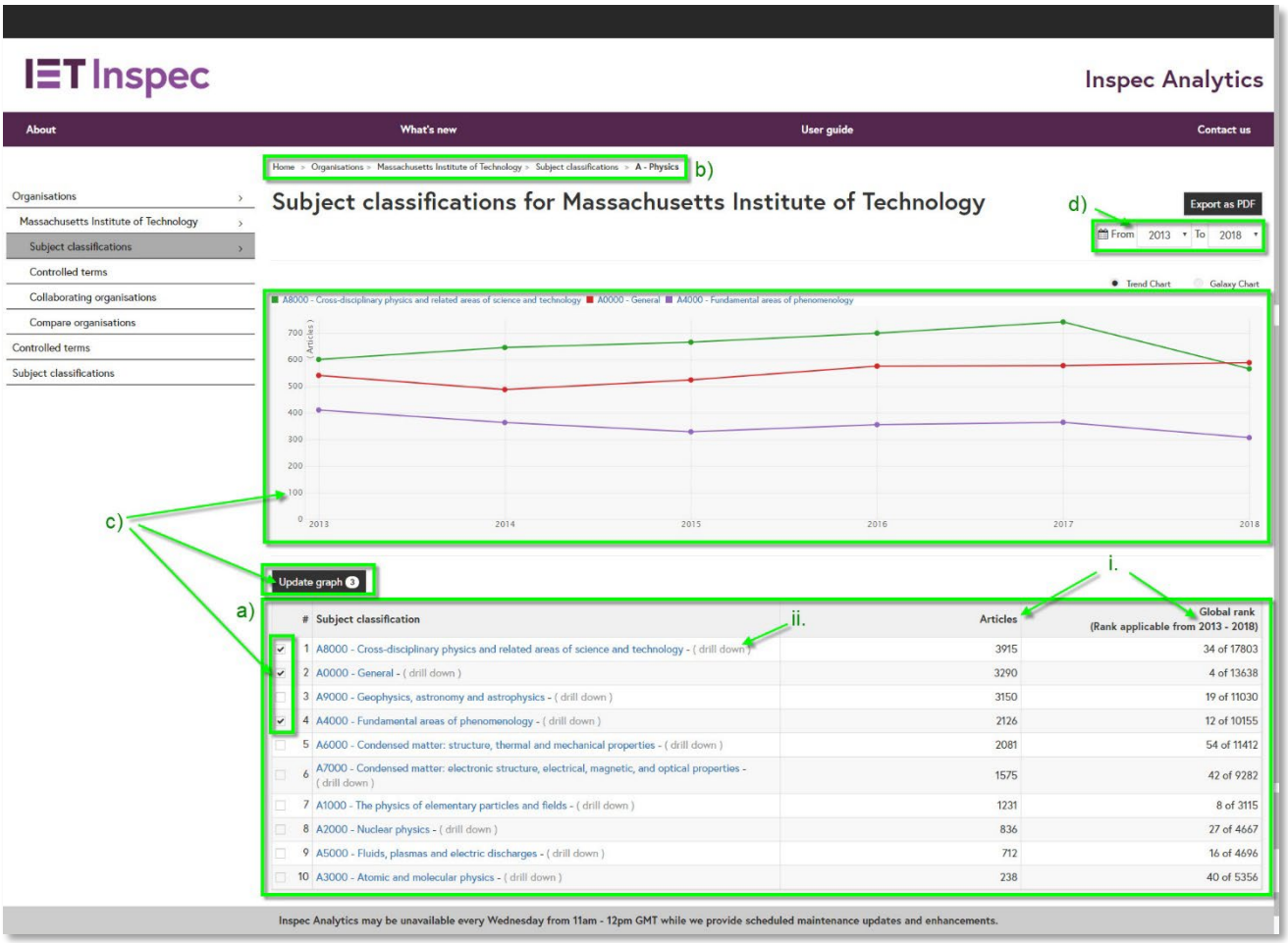
   iii. Click on the heading to explore all control terms for your selected organisation on the controlled terms page. You will also find a link in the left-hand navigation.

g) In the left-hand navigation you can go straight to the organisation comparison page by clicking "Compare Organisations".

Exporting your insights

Click on "Export as PDF" at the top of the page to download your current view. The PDF includes a link to your view so you can return directly to the data in the future.

Organisation Subject Classifications page



Understanding the view

a) The table displays all the subject classifications associated with research from your selected organisation.

i. For each subject you will see the total number of articles and where this output ranks the organisation among all organisations publishing on that subject.

ii. Click "drill down" to explore the next level of detail. You can drill down up to five levels through the Inspec subject classification thesaurus.

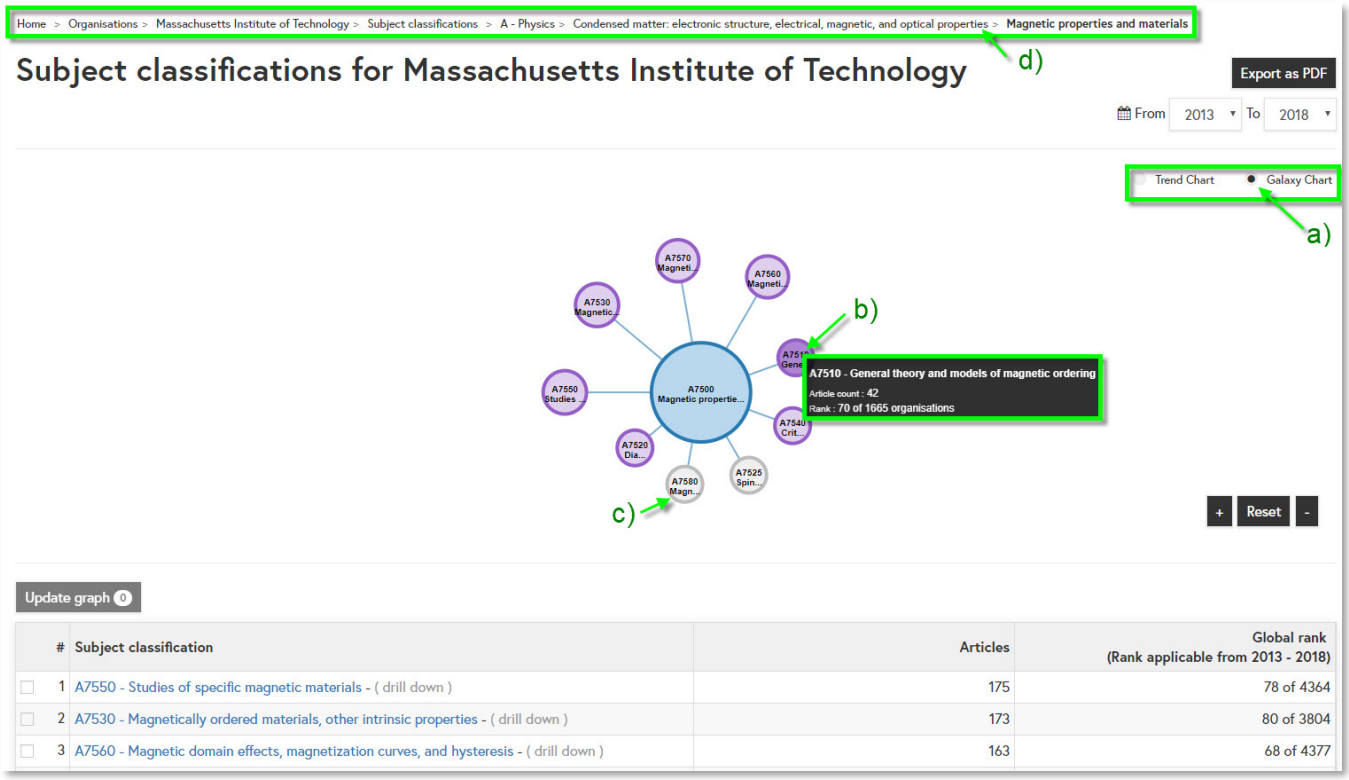
- An example of this is:
  - Electrical engineering and electronics
    - Power systems and applications
      - Generating stations and plants
        - Thermal power stations and plants
          - Gas-turbine power stations and plants

b) The "breadcrumb" at the top shows your path. You can click any point in the "breadcrumb" to drill back up to return to higher levels of detail.

c) To compare output for a number of subjects, select your chosen subjects and click "update graph". The line graph at the top will display the research output for each of your selected subjects over time. Hover over the points to display the number of articles for each year.

d) Filter the date range of your results using the "From" and "to" drop-down selections.

The galaxy chart



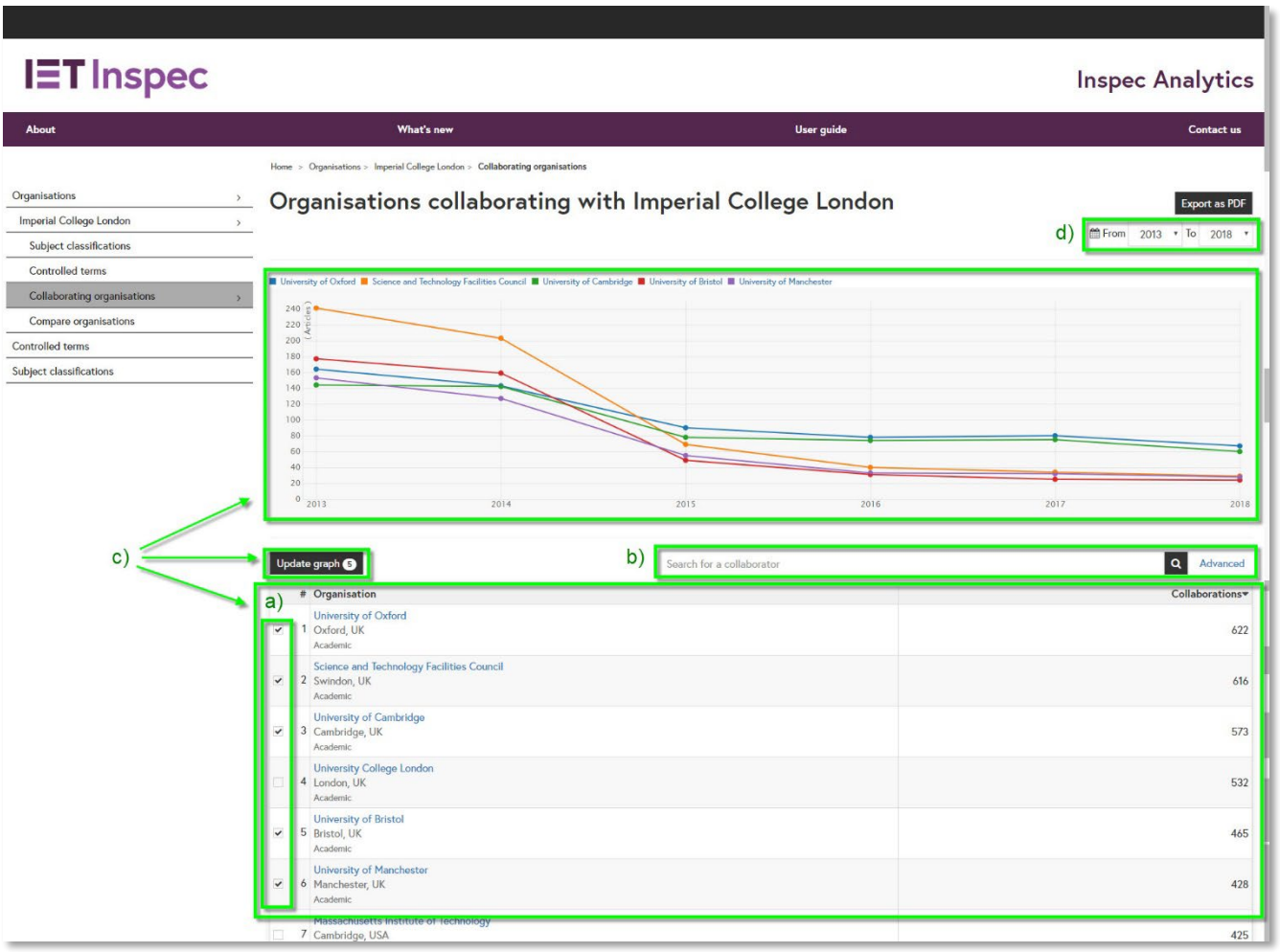
You can also explore subject classifications for your selected organisation using the galaxy chart view.

a) Switch to the galaxy chart using the toggle.
b) Hover over each subject to see the full classification name and number of articles.
c) A grey circle indicates there are no further levels to view.
d) The "breadcrumb" at the top shows your path. You can click any point in the "breadcrumb" to drill back up to return to higher levels of detail.

Exporting your insights

Click on "Export as PDF" at the top of the page to download your current view. The PDF includes a link to your view so you can return directly to the data in the future.

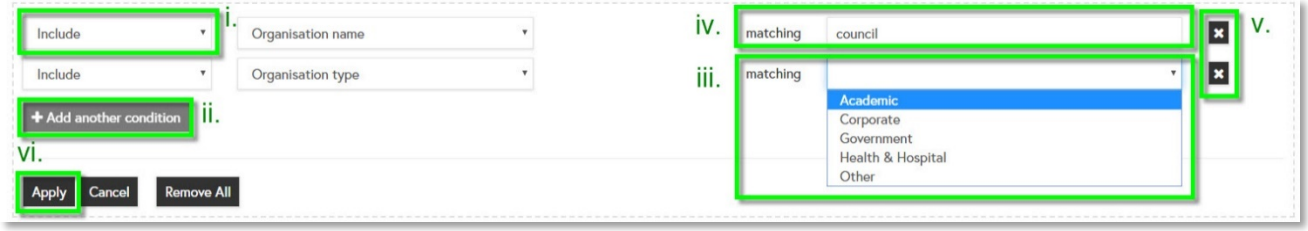
Collaborating Organisations page



Understanding the view

a) The table displays all the organisations who have collaborated on research with your selected organisation. For each organisation you will see the total number of collaborations.

b) Search for an organisation using the search box, or click "Advanced" for advanced search options:



i. Use the drop-down to select "Include" of "Exclude" search terms.

ii. Add multiple conditions. Each condition will be treated as "OR".

iii. You can filter by the type of organisation to focus on academic or industry collaborations.

iv. Search for whole words, partial words or start typing to see suggestions and select an organisation.
v. Remove conditions by clicking on the corresponding X or by clicking "remove all".
vi. Click "Apply" to see your results.

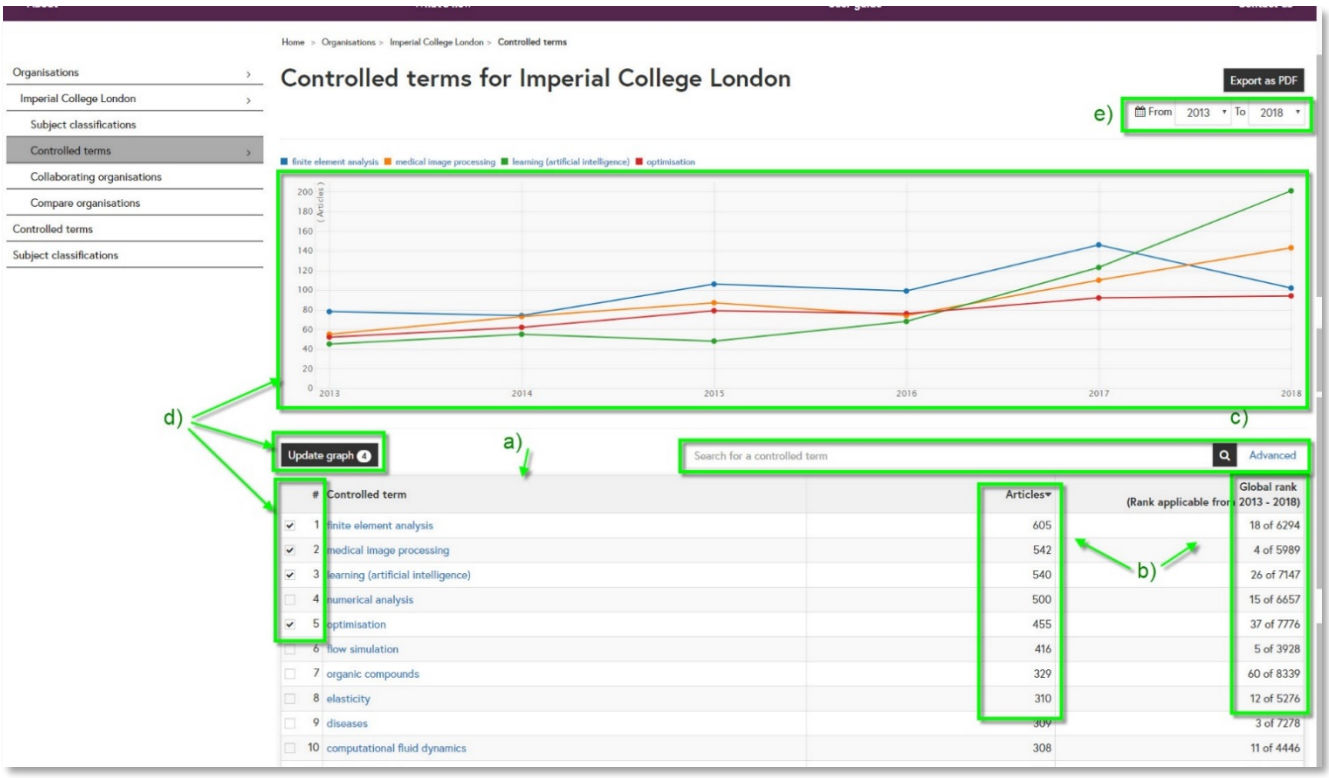
c) To compare output for a number of collaborations, select your chosen organisations and click "update graph". The line graph at the top will display the research output for each of your selected collaborations over time. Hover over the points to display the number of articles for each year.

d) Filter the date range of your results using the "From" and "to" drop-down selections.

Exporting your insights

Click on "Export as PDF" at the top of the page to download your current view. The PDF includes a link to your view so you can return directly to the data in the future.

Organisation Controlled Terms page

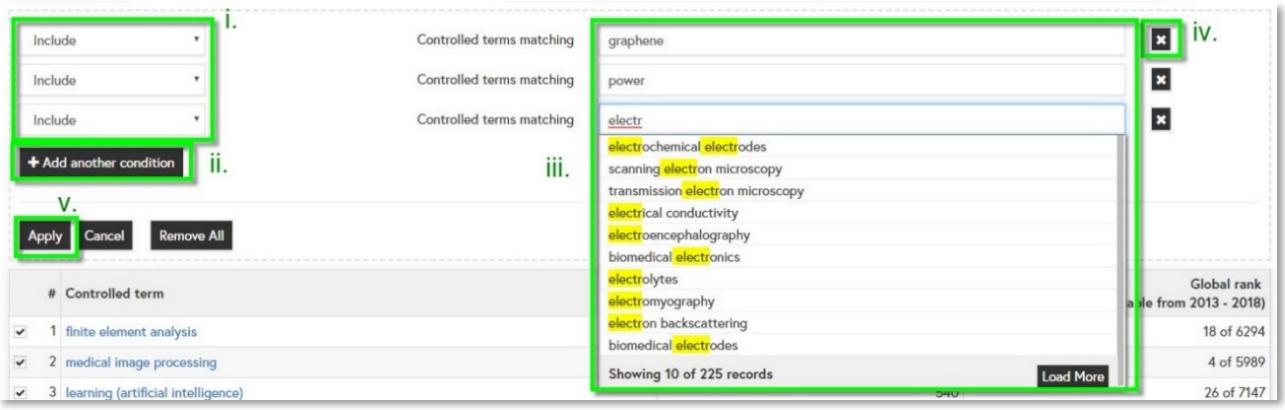


Understanding the view

a) The table displays all the controlled terms associated with research from your selected organisation.

b) For each term you will see the total number of articles and where this output ranks the organisation among all organisations publishing on that subject.

c) Search for a term using the search box, or click "Advanced" for advanced search options:



i. Use the drop-down to select "Include" of "Exclude" search terms.
ii. Add multiple conditions. Each condition will be treated as "OR".
iii. Search for whole words, partial words or start typing to see

suggestions and select a controlled term.

iv. Remove conditions by clicking on the corresponding X or by clicking "remove all".

v. Click "Apply" to see your results.

d) To compare output for a number of terms, select your chosen subjects and click "update graph". The line graph at the top will display the research output for each of your selected subjects over time. Hover over the points to display the number of articles for each year.

e) Filter the date range of your results using the "From" and "to" drop-down selections.

Exporting your insights

Click on "Export as PDF" at the top of the page to download your current view. The PDF includes a link to your view so you can return directly to the data in the future.

Organisation Comparison page

d)

Organisation	Articles	Inspec Classification Counts							
		A - Physics		B - Electrical engineering and electroni...		C - Computers and control		E - Mechanical and production engineerin...	
		Count	Coverage	Count	Coverage	Count	Coverage	Count	Coverage
Beihang University Beijing, China	26541	9643	66.7%	10682	88.4%	12422	84.9%	6796	96.2%
Harbin Institute of Technology Harbin, China	30109	12829	66%	12578	87.5%	11322	84.5%	7658	96.8%
Max-Planck-Gesellschaft zur Forderung der Wissenschaften Munchen, Germany	23991	22180	83.7%	3357	70.5%	2109	67.6%	458	75.9%
Shanghai Jiao Tong University Shanghai, China	28494	12731	71.6%	13443	88.6%	10220	83.3%	6202	95.6%

Understanding the view

a) A key detailing the organisation name and their corresponding chart colour is shown at the top.

b) The histogram shows the total number of articles for each of your selected organisations within each subject classification.

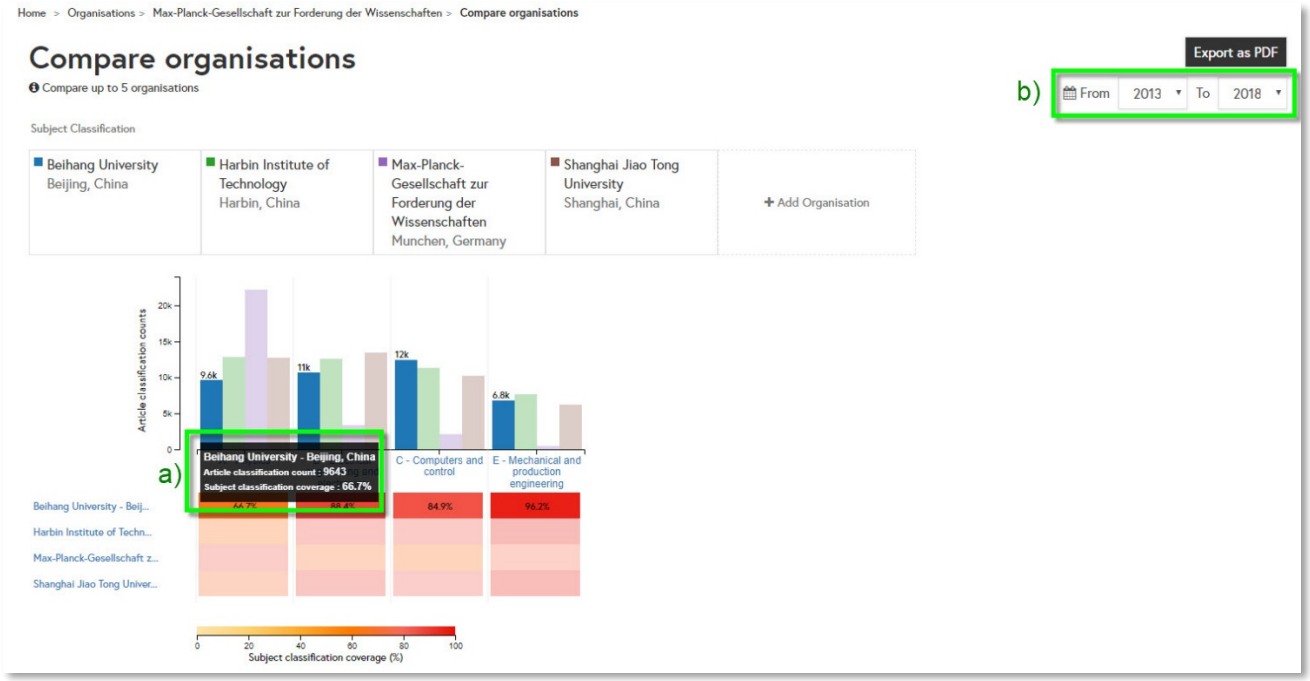
c) A heatmap below shows the subject classification coverage for each organisation. The warmer colours indicate a broader coverage within the subject.

d) The table below shows the full figures including total number of articles, articles by subject and subject coverage.

e) Remove organisations from your comparison by hovering over an organisation name and clicking on the X. Add a new organisation by clicking "Add organisation" and searching for your chosen organisation in the search box. Click on your chosen organisation name to add it to the comparison.

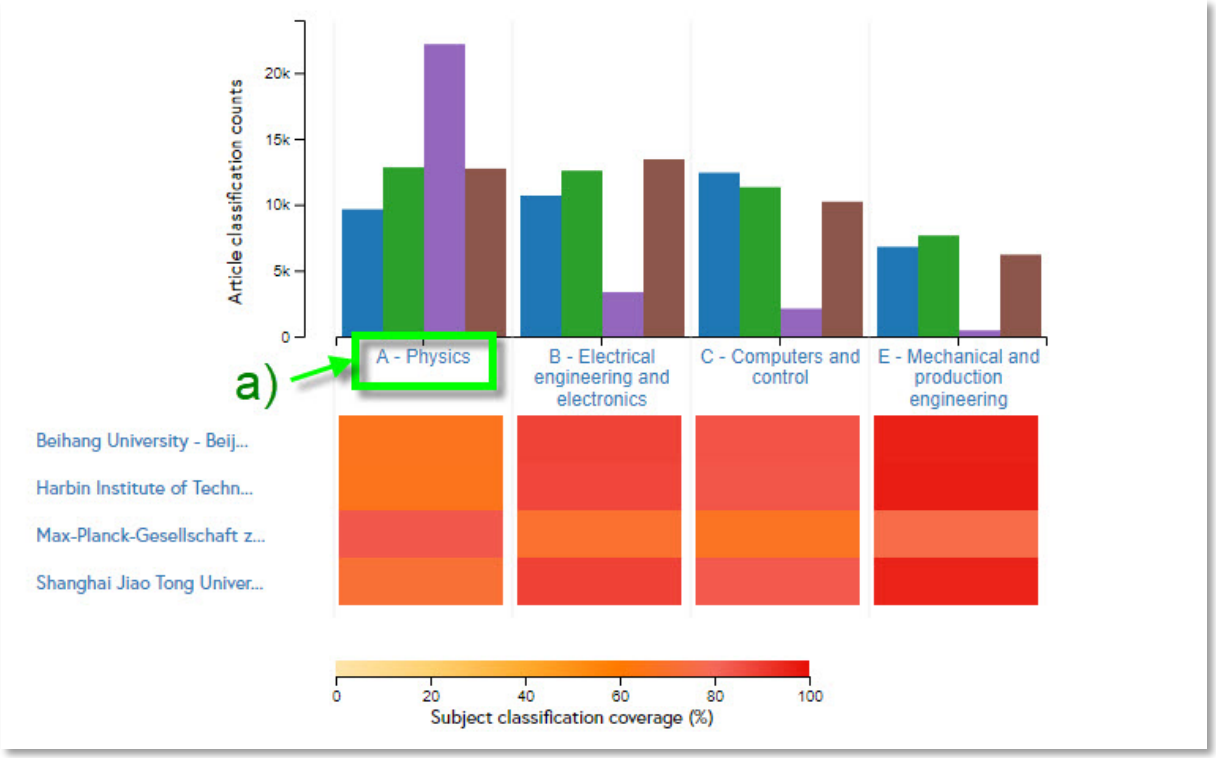
N.B. "Add organisation" only appears when there are less than five organisations in the organisation comparison.

Filtering your view



a) Hover over each organisation to highlight it within the charts.
b) Filter the date range of your results using the "From" and "to" drop-down selections.

Drilling down through Inspec subject classifications



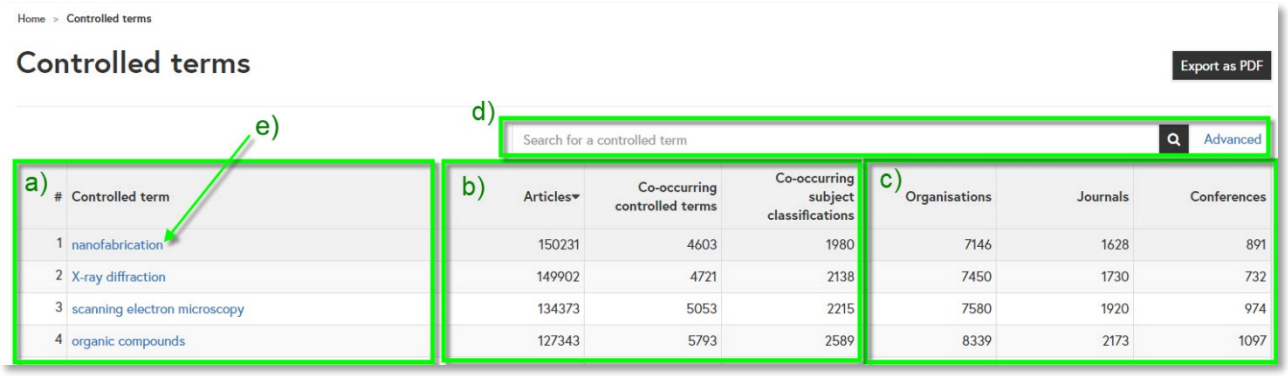
a) Click on one of the subject classifications to view the next level of detail:
You can drill down through up to 5 levels of classification codes to compare organisations at broad or niche levels.

Exporting your insights

Click on "Export as PDF" at the top of the page to download your current view. The PDF includes a link to your view so you can return directly to the data in the future.

Controlled terms

Controlled terms list page



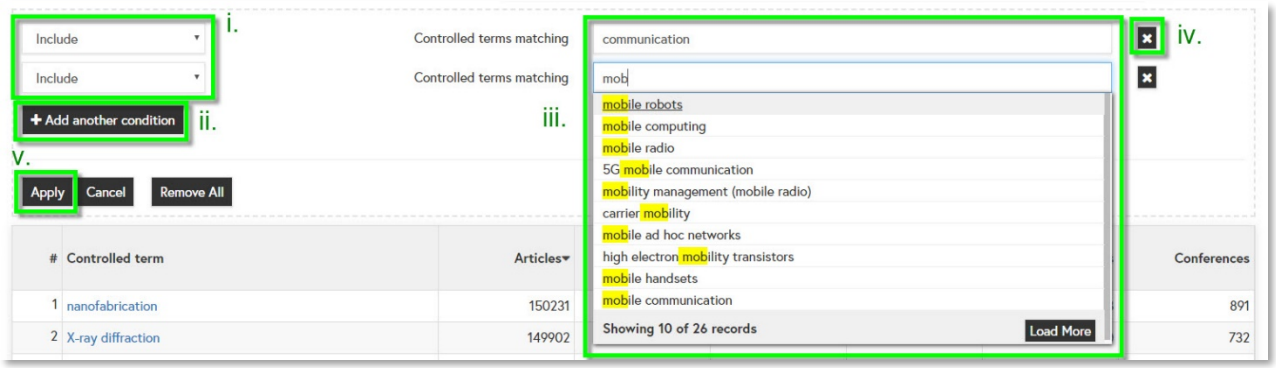
Understanding the view

a) Controlled terms appear listed in order of research output indexed in Inspec with the highest total number of articles at the top.

b) For each controlled term you can see the number of articles indexed with the term and the number of co-occurring controlled terms and subject classifications.

c) You can also see the number of organisations, journals and conferences associated with articles indexed under each controlled term.

d) Search for a controlled term using the search box at the top of the table. Start typing to see suggestions or press "enter" to see results including your search term. Click "Advanced" to see advanced search options:



i. Use the drop-down to select "Include" of "Exclude" search terms.

ii. Add multiple conditions. Each condition will be treated as "OR".

iii. Search for whole words, partial words or start typing to see suggestions and select a controlled term.

iv. Remove conditions by clicking on the corresponding X or by clicking "remove all".

v. Click "Apply" to see your results.

e) Click on a term to go to the concept page for that term.

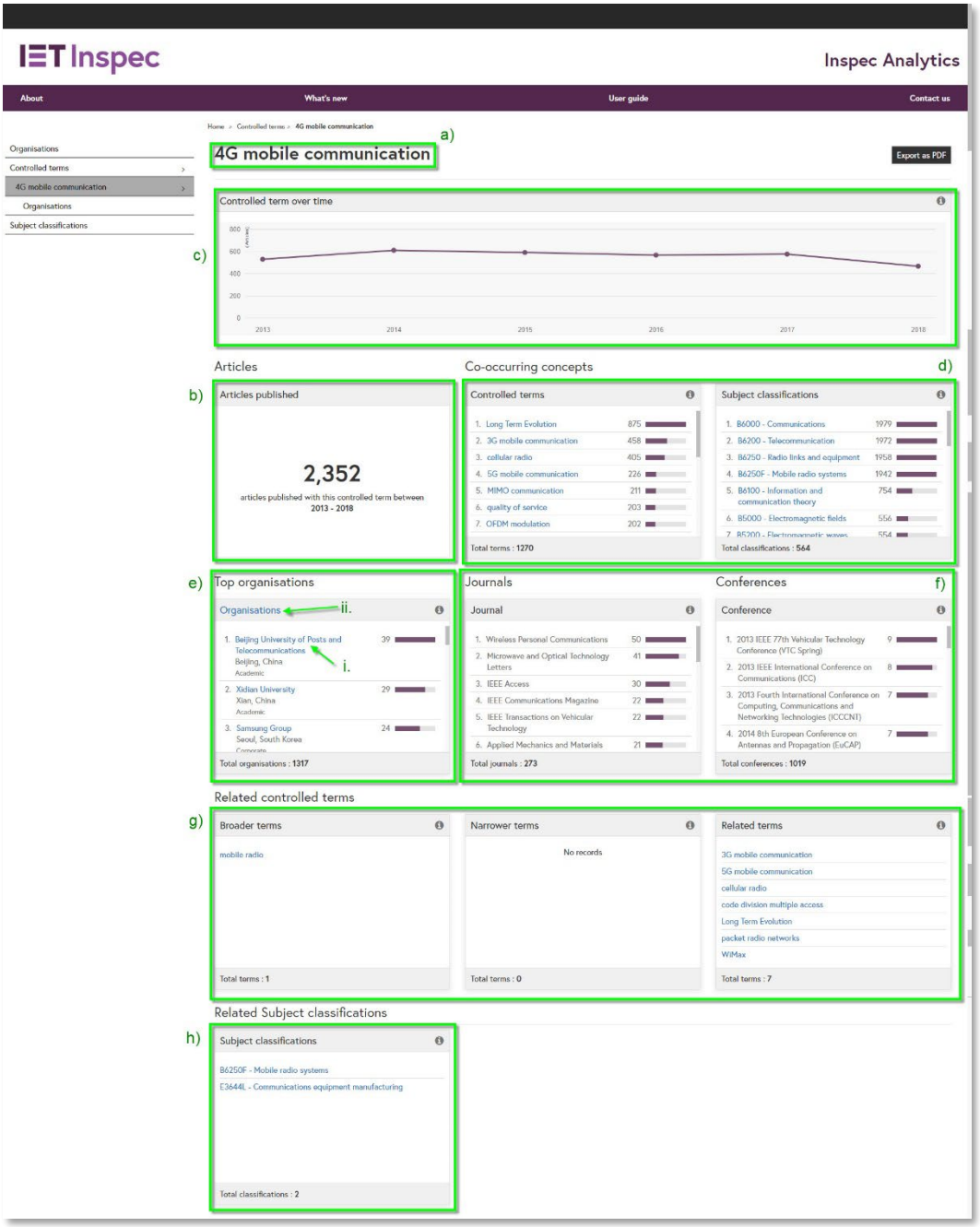
Exporting your insights

Click on "Export as PDF" at the top of the page to download your current view. The PDF includes a link to your view so you can return directly to the data in the future.

Controlled terms concept pages

The concept pages tell you everything you need to know about an Inspec controlled term:

All Inspec articles are assigned several 'controlled terms' – subject keywords – which the article is about. Additionally, several 'subject classification codes' are assigned, which are generally more specific than controlled terms, and also place it on a detailed hierarchy - differentiating between, for example 'Statistics' for differential geometry, within Physics, or 'statistics' for Electrical Engineering, or Computing, or Mechanical Engineering. This contextualisation gives far greater meaning to a keyword than just a single controlled term.



Understanding the view

a) The controlled term you are currently viewing.
b) This tile shows the number of articles indexed under your selected controlled term.
c) This line graph shows the number of articles indexed with your selected controlled term over time. Hover over each point to see the number of articles.
d) These tiles show the other controlled terms and subject classifications that are frequently applied alongside your selected term. The number shows how many articles are indexed under both terms and the bar indicates this as a proportion. Click on a term to jump to its concept page.
e) The top organisations tile shows which organisations have published the most articles in your selected controlled term. The ranking is based on number of articles indexed in Inspec.
    i. Click on an organisation name to visit the organisation profile.
    ii. Click on the heading to see all organisations publishing on this term on the controlled terms organisations page.
f) The Journal and Conference tiles show which journals and conferences have published the most articles on this concept.
g) The Related controlled terms tables show other related terms such broader terms (less specific), narrower terms (more specific) and related terms. Click on a term to jump to the concept page for that term.
h) The Related classification codes table shows related subject areas that may also be of interest.

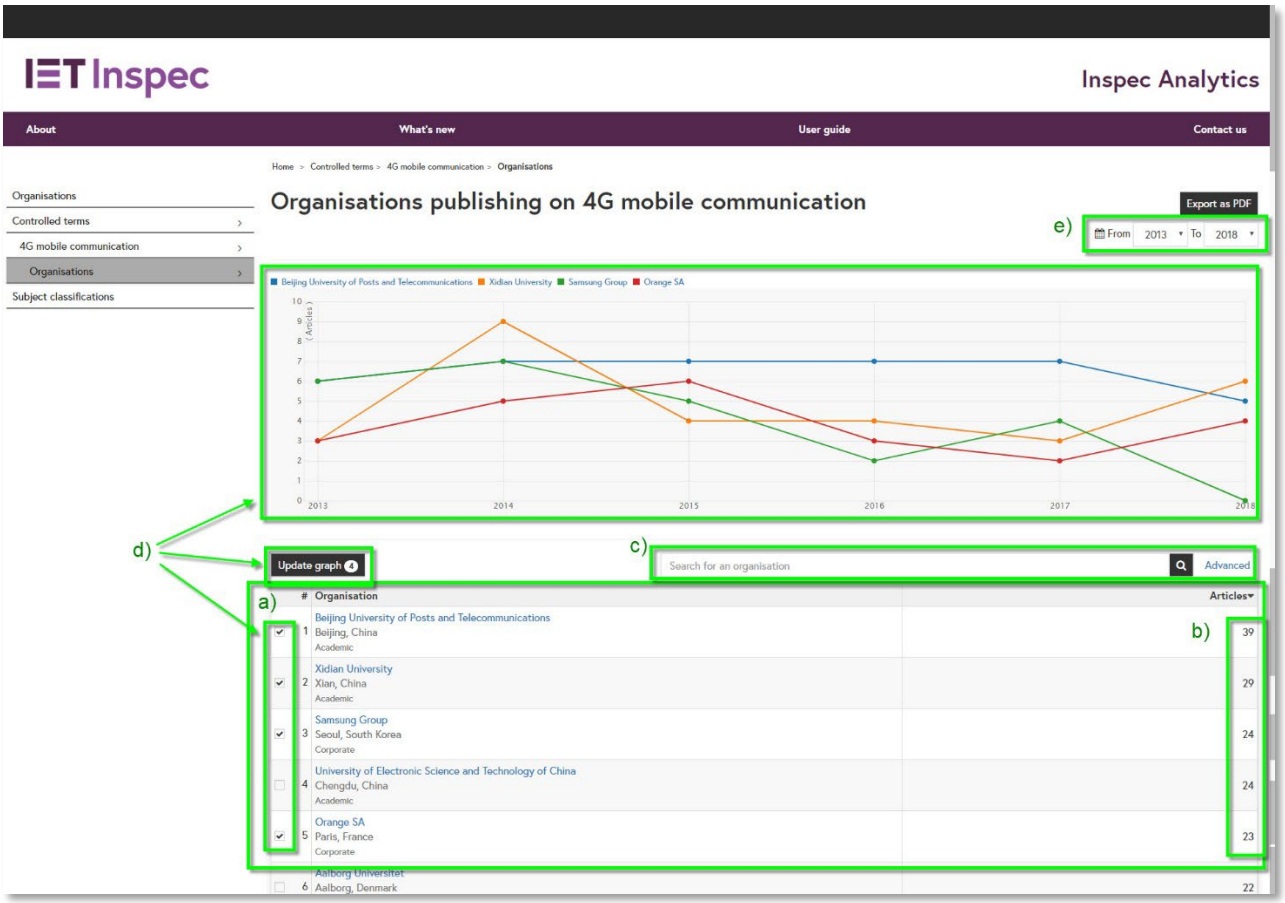
Exporting your insights

Click on "Export as PDF" at the top of the page to download your current view. The PDF includes a link to your view so you can return directly to the data in the future.

Controlled terms organisation pages

The controlled terms organisation pages show you all organisations that have published on your selected controlled term:

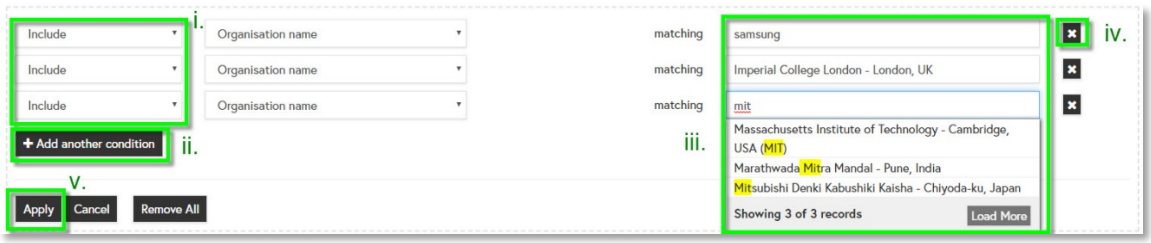
Understanding the view



a) The table displays all the organisations associated with research for your selected controlled term. Organisations appear listed in order of research output indexed in Inspec with the highest total number of articles at the top.

b) For each organisation you will see the total number of articles.

c) Search for an organisation using the search box, or click "Advanced" for advanced search options:



i. Use the drop-down to select "Include" of "Exclude" search terms.
ii. Add multiple conditions. Each condition will be treated as "OR".
iii. Search for whole words, partial words or start typing to see suggestions and select an organisation.
iv. Remove conditions by clicking on the corresponding X or by clicking "remove all".
v. Click "Apply" to see your results.

d) To compare output for a number of organisations, select your chosen organisations and click "update graph". The line graph at the top will display the research output for each of your selected organisations over time. Hover over the points to display the number of articles for each year.

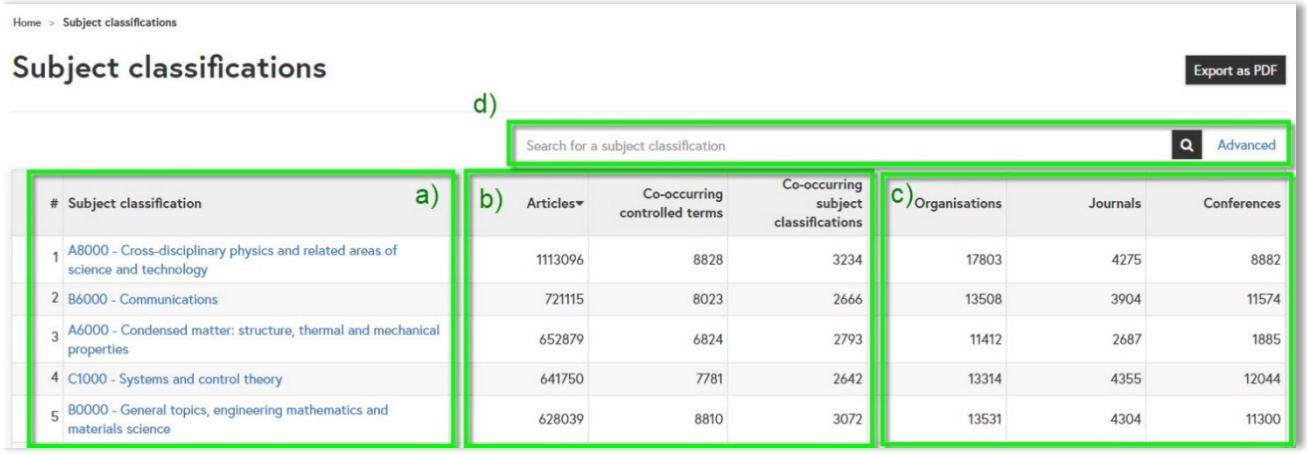
e) Filter the date range of your results using the "From" and "to" drop-down selections.

Exporting your insights

Click on "Export as PDF" at the top of the page to download your current view. The PDF includes a link to your view so you can return directly to the data in the future.

Subject classifications

Subject classification codes list page



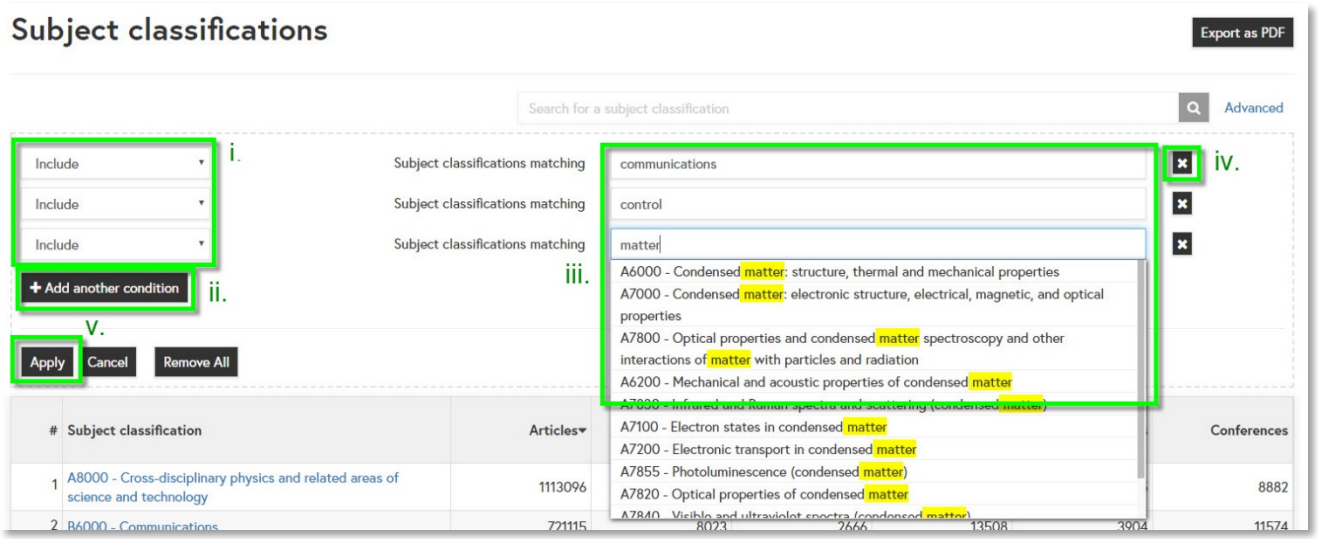
Understanding the view

a) Subject classifications appear listed in order of research output indexed in Inspec with the highest total number of articles at the top.

b) For each subject classification you can see the number of articles indexed with the subject and the number of co-occurring controlled terms and subject classifications.

c) You can also see the number of organisations, journals and conferences associated with articles indexed under each subject classification.

d) Search for a subject classification using the search box at the top of the table. Start typing to see suggestions or press "enter" to see results including your search term. Click "Advanced" to see advanced search options:



i. Use the drop-down to select "Include" of "Exclude" search terms.

ii. Add multiple conditions. Each condition will be treated as "OR".

iii. Search for whole words, partial words or start typing to see

suggestions and select a subject classification.

iv. Remove conditions by clicking on the corresponding X or by clicking "remove all".

v. Click "Apply" to see your results.

e) Click on a term to go to the concept page for that subject classification.

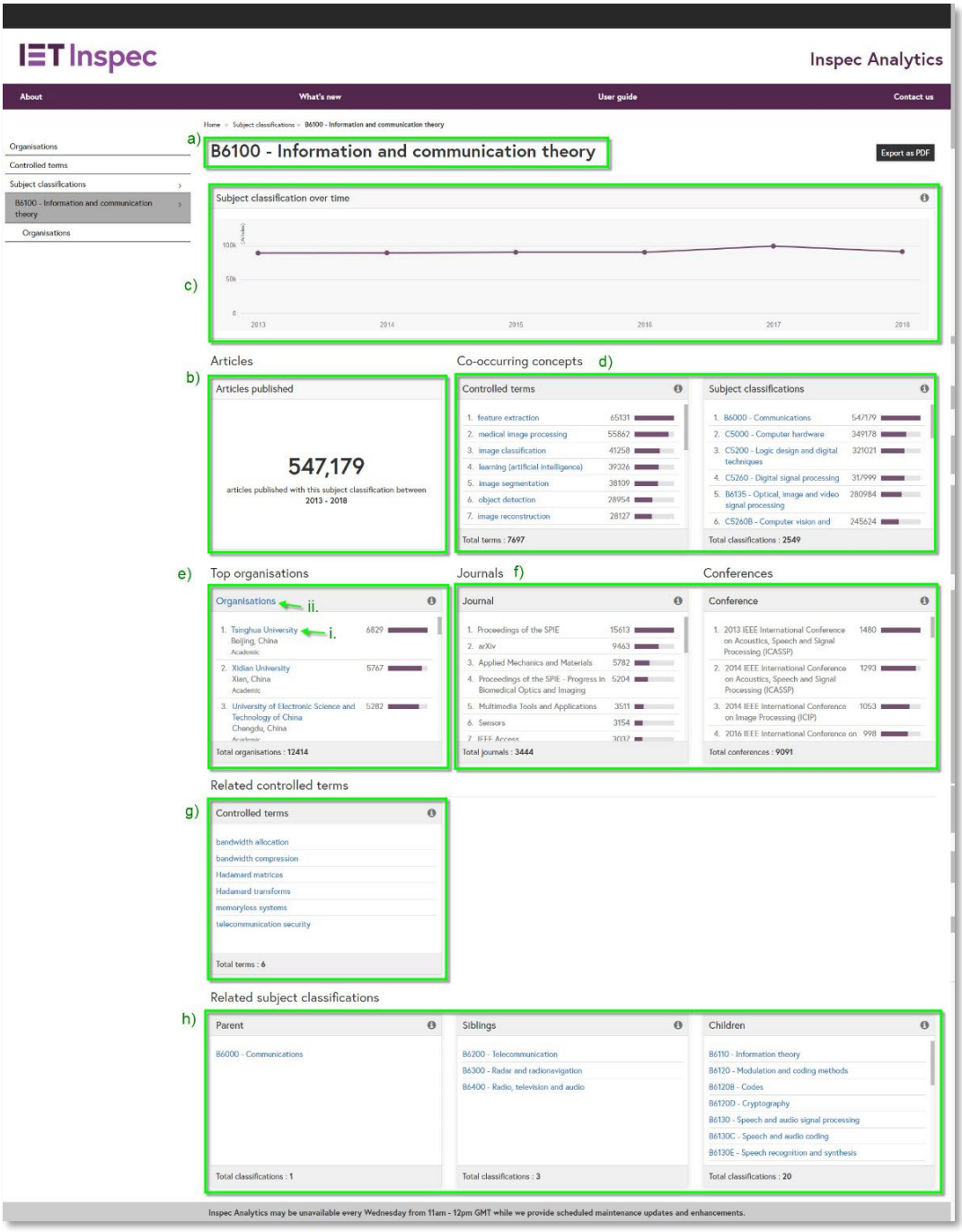
Exporting your insights

Click on "Export as PDF" at the top of the page to download your current view. The PDF includes a link to your view so you can return directly to the data in the future.

Subject classification codes concept pages

The concept pages tell you everything you need to know about an Inspec subject classification code:

All Inspec articles are assigned several 'controlled terms' – subject keywords – which the article is about. Additionally, several 'subject classification codes' are assigned, which are generally more specific than controlled terms, and also place it on a detailed hierarchy - differentiating between, for example 'Statistics' for differential geometry, within Physics, or 'statistics' for Electrical Engineering, or Computing, or Mechanical Engineering. This contextualisation gives far greater meaning to a keyword than just a single controlled term.



Understanding the view

a) The subject classification you are currently viewing.
b) This tile shows the number of articles indexed under your selected subject classification.
c) This line graph shows the number of articles indexed with your selected subject classification over time. Hover over each point to see the number of articles.
d) These tiles show the other controlled terms and subject classifications that are frequently applied alongside your selected subject. The number shows how many articles are indexed under both terms and the bar indicates this as a proportion. Click on a term to jump to its concept page.
e) The top organisations tile shows which organisations have published the most articles in your selected subject. The ranking is based on number of articles indexed in Inspec.
    i. Click on an organisation name to visit the organisation profile.
    ii. Click on the heading to see all organisations publishing on this subject on the subject classifications organisations page.
f) The Journal and Conference tiles show which journals and conferences have published the most articles on this concept.
g) The Related controlled terms tile shows other related terms that may also be of interest.
h) The Related subject classifications tiles show the "parent" subject (less specific), "siblings" (related subjects) and "child" subjects (more specific). Click on a subject to jump to the concept page for that subject.

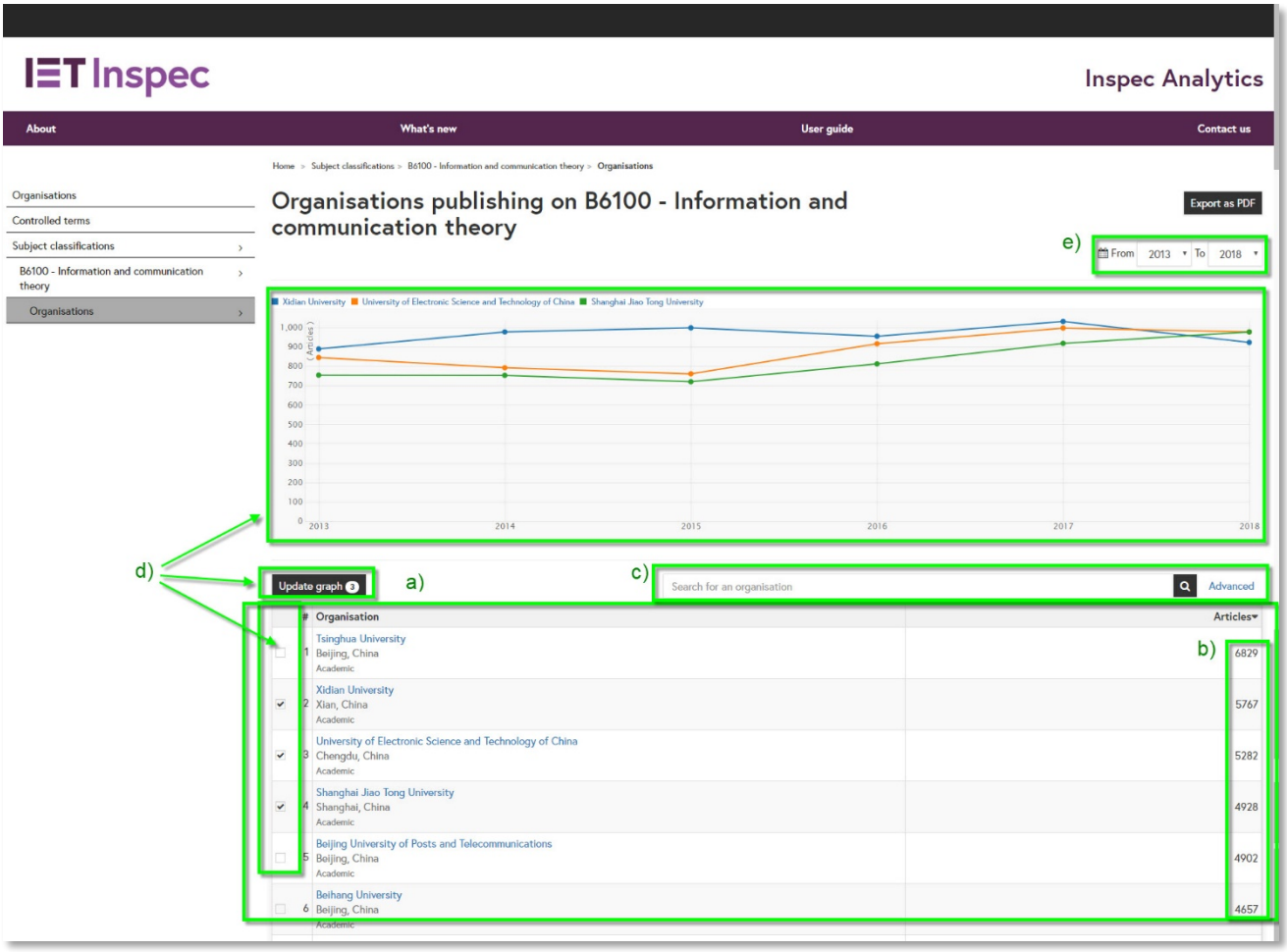
Exporting your insights

Click on "Export as PDF" at the top of the page to download your current view. The PDF includes a link to your view so you can return directly to the data in the future.

Subject classification codes organisation pages

The Subject classification code organisation pages show you all organisations that have published on your selected subject:

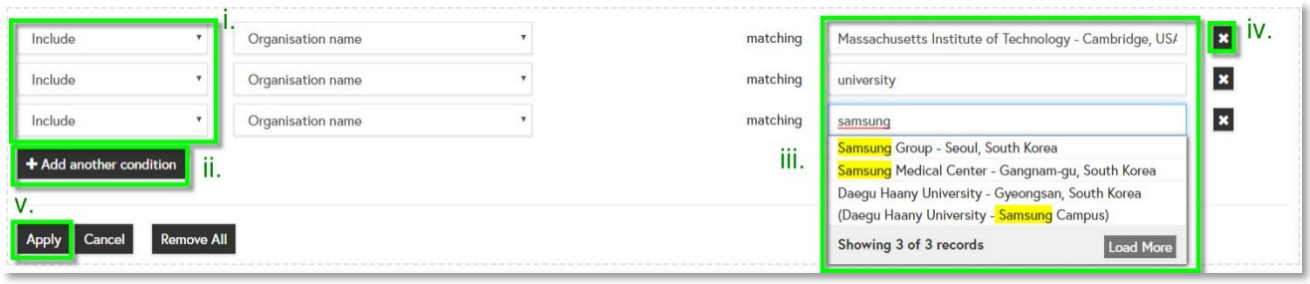
Understanding the view



a) The table displays all the organisations associated with research for your selected subject classification code. Organisations appear listed in order of research output indexed in Inspec with the highest total number of articles at the top.

b) For each organisation you will see the total number of articles indexed under that code.

c) Search for an organisation using the search box, or click "Advanced" for advanced search options:



i. Use the drop-down to select "Include" of "Exclude" search terms.
ii. Add multiple conditions. Each condition will be treated as "OR".
iii. Search for whole words, partial words or start typing to see suggestions and select an organisation.
iv. Remove conditions by clicking on the corresponding X or by clicking "remove all".
v. Click "Apply" to see your results.

d) To compare output for a number of organisations, select your chosen organisations and click "update graph". The line graph at the top will display the research output for each of your selected organisations over time. Hover over the points to display the number of articles for each year.

e) Filter the date range of your results using the "From" and "to" drop-down selections.

Exporting your insights

Click on "Export as PDF" at the top of the page to download your current view. The PDF includes a link to your view so you can return directly to the data in the future.