Empower your Research with ScienceDirect

Presenter:
Ling Yu Lang
Solutions Trainer, Elsevier Research Solutions

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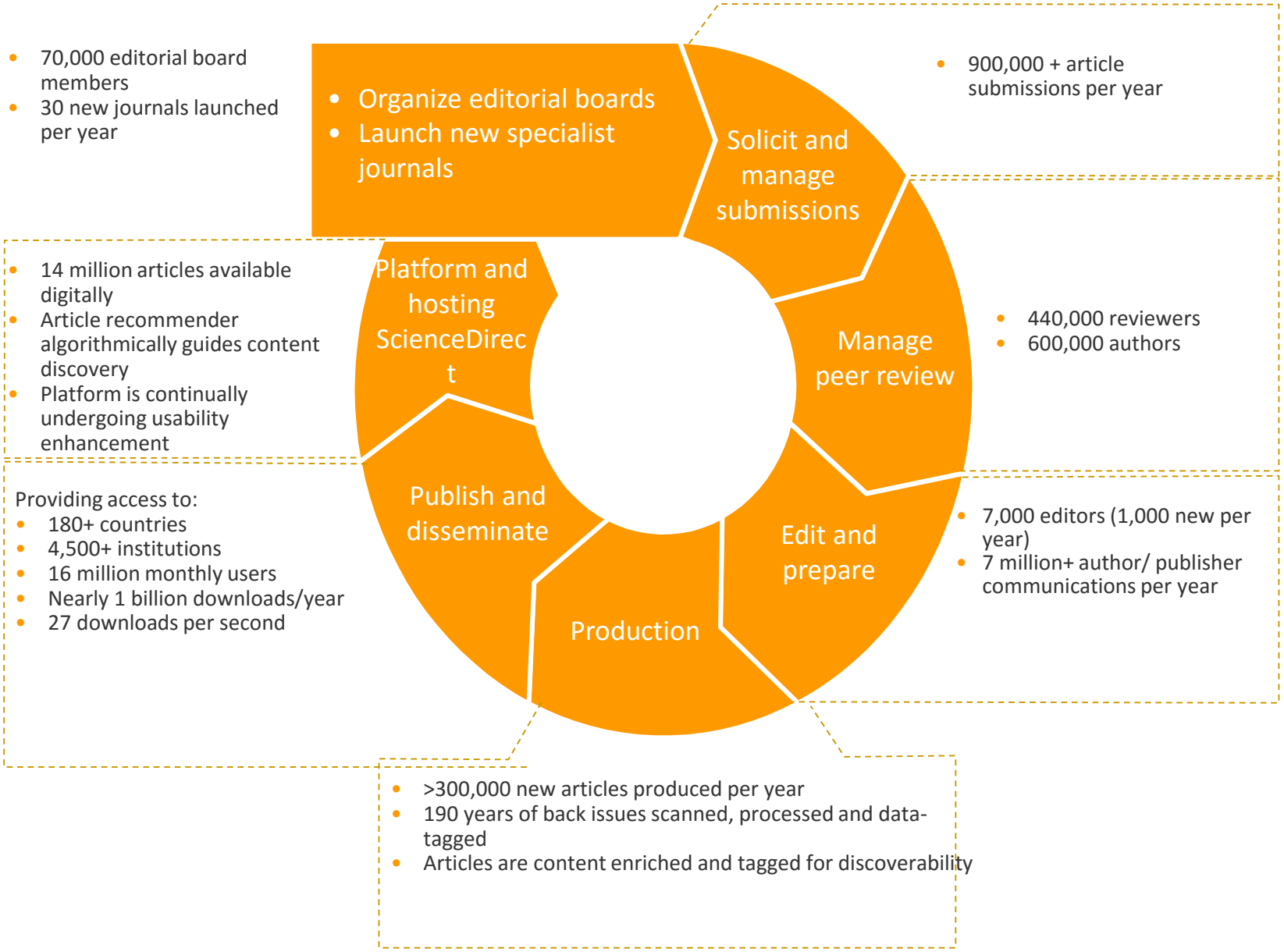

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		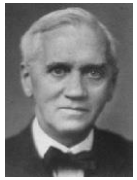	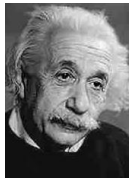				

ScienceDirect – Extensive Multi-disciplinary Full-Text Database

ScienceDirect is the largest online journal platform in the world with more than 3,800 journals in 24 subject areas owned and published by Elsevier and more than 35,000 eBooks.

- Publishes over 25% of the world's full-text scientific journals with several high-profile journal titles such as Cell, The Lancet and Tetrahedron
- Over 14,000,000 articles are available online
- It is also the most referenced journal platform in the world with an average of 25% citations coming from journals on ScienceDirect
- Over 250,000 articles on ScienceDirect are open access

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ScienceDirect Journals that rank No.1 in their Subject Category (2015) – Impact Factor

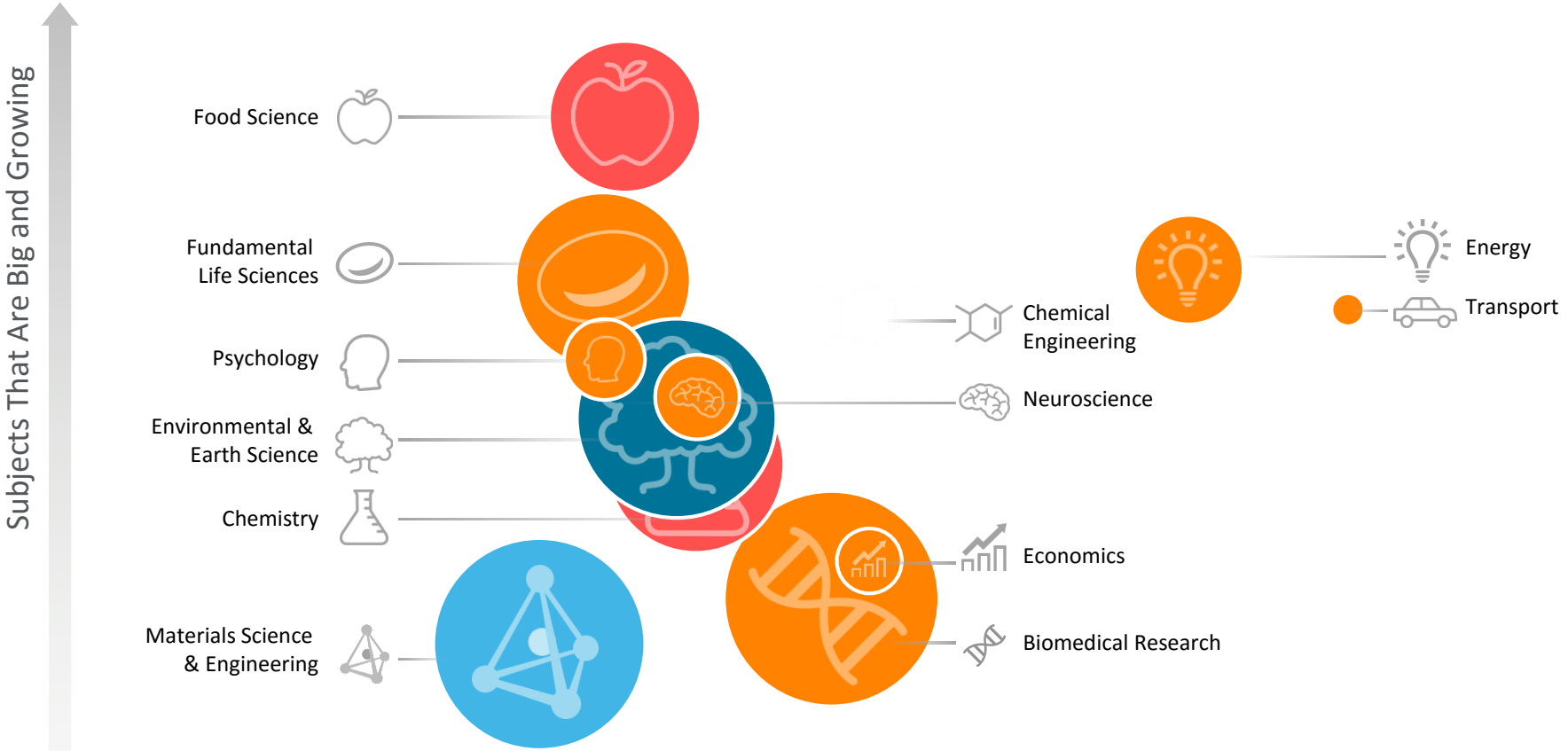
No.1 in 71 categories out of 235 *
2014: No.1 in 62 categories out of 232

* Includes one book series *Advances in Organometallic Chemistry*

Source: Thomson Reuters Journal Citation Reports 2015

Deep Vertical Strategy focusing on the largest fastest growing research areas where Elsevier is strongest

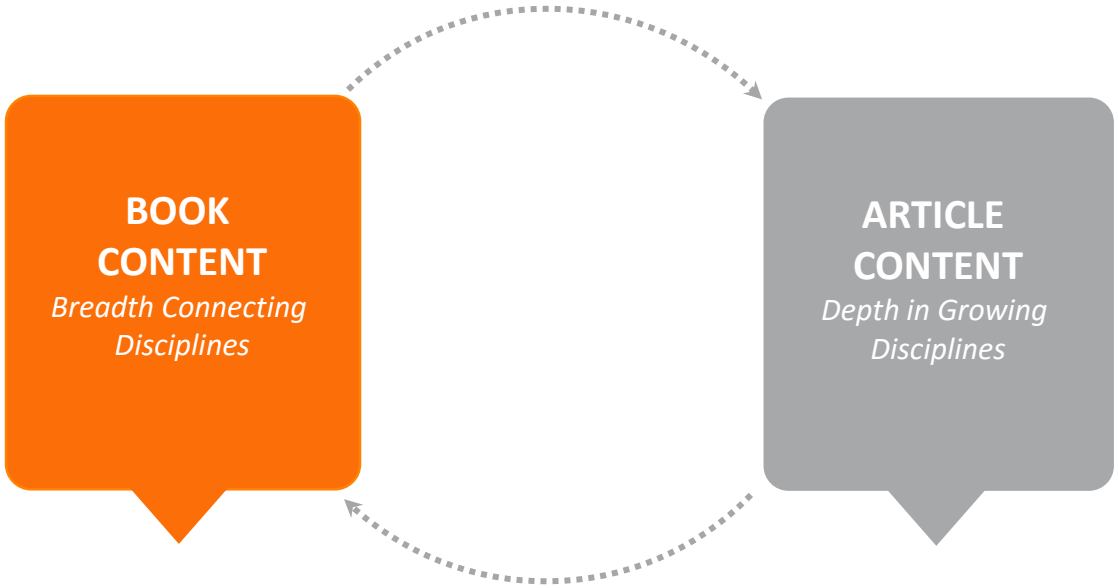
1



Results as of 2016. Normalized against average.

eBook content is a critical complement to journal content

Books and journal articles provide different types of content, but for this reason they are fundamentally interlinked: researchers/students need both to build their knowledge around a topic.



- ✓ A catalyst for discovery in new area
- ✓ Gives broader view of a topic
- ✓ More sustained arguments, differing opinions, nuance and complexity
- ✓ Offers expert opinion on most relevant topics
- ✓ Links to related (and often unexpected fields, methods and materials

- ✓ Specialised knowledge
- ✓ Narrow focus
- ✓ Extreme depth
- ✓ Latest research / new results
- ✓ Applying techniques

Usage data shows books and journals are used together

When I'm **searching for a new topic** or research area, **journals are too narrow** and **take too much time.**

Papers can leave out a lot of information. **Books help me see applicability and connect the dots.**

when I'm trying to take

, like surface coatings from metals into biology.

When I need **more information about materials** I'm using**, or reactions between materials,** then I turn to books.

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"eBooks are part of a comprehensive whole which includes journals and other information resources.

— **Librarian, State & Local Government**

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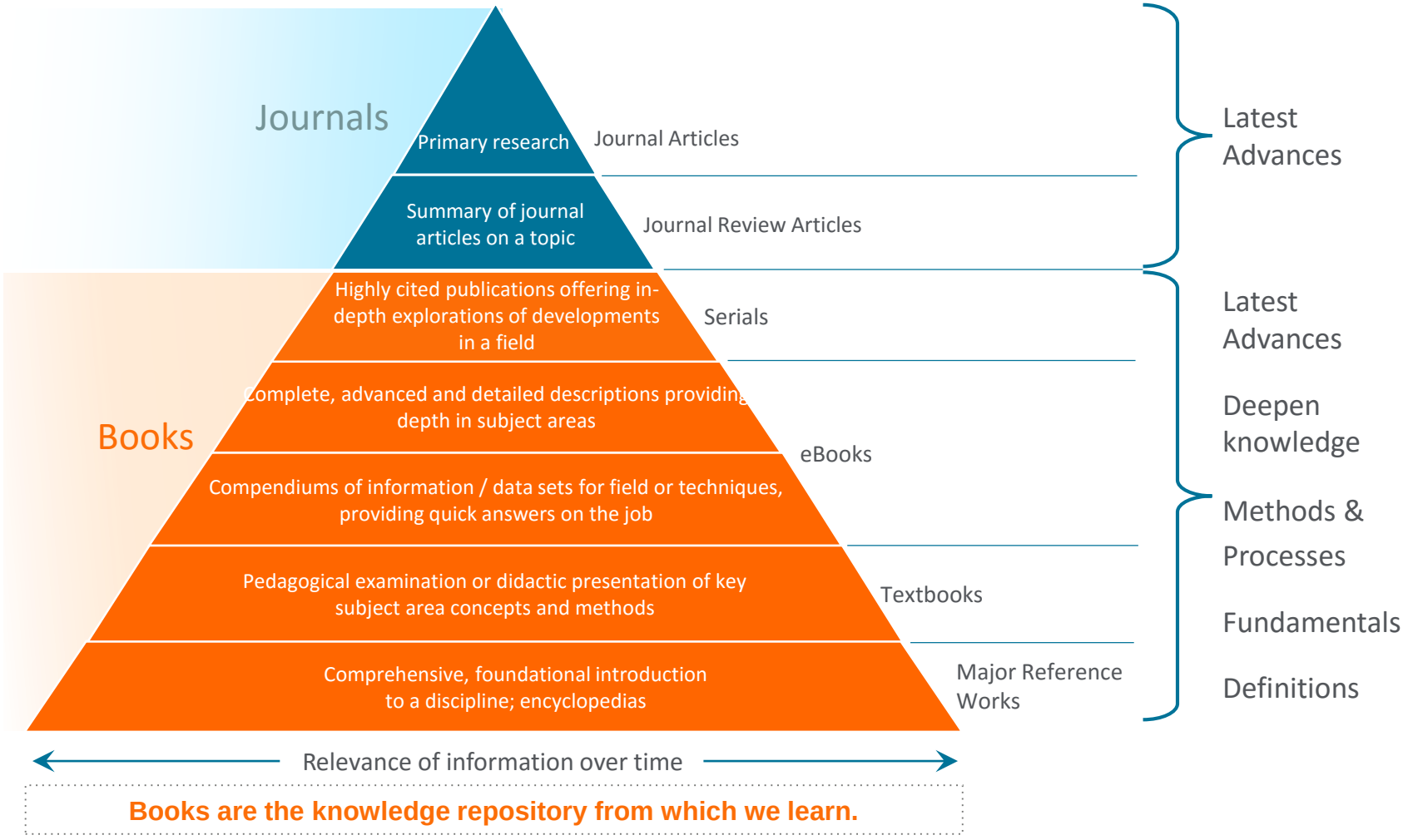
"Oftentimes a book will provide an in-depth review of a theory or research approach that just isn't possible in a single journal article.

— **Researcher, Educational Institution**

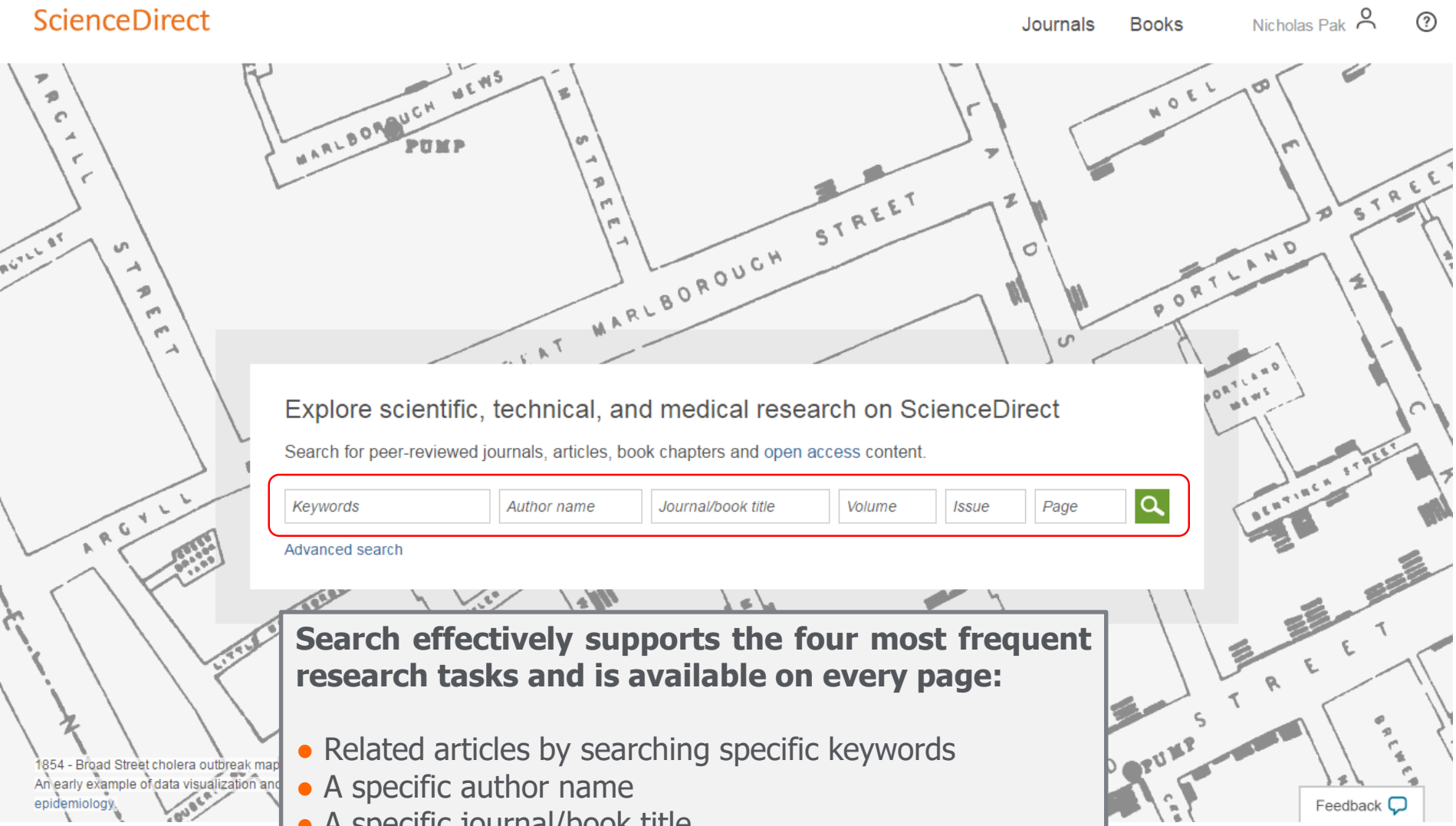
Data source: White Rhino Research (B2ME), August 2015.

Uses of Elsevier eBooks and Journals



Books are the knowledge repository from which we learn.

ScienceDirect Platform



Search effectively supports the four most frequent research tasks and is available on every page:

- Related articles by searching specific keywords
- A specific author name
- A specific journal/book title
- A specific article by publication/ vol./ issue/ page search

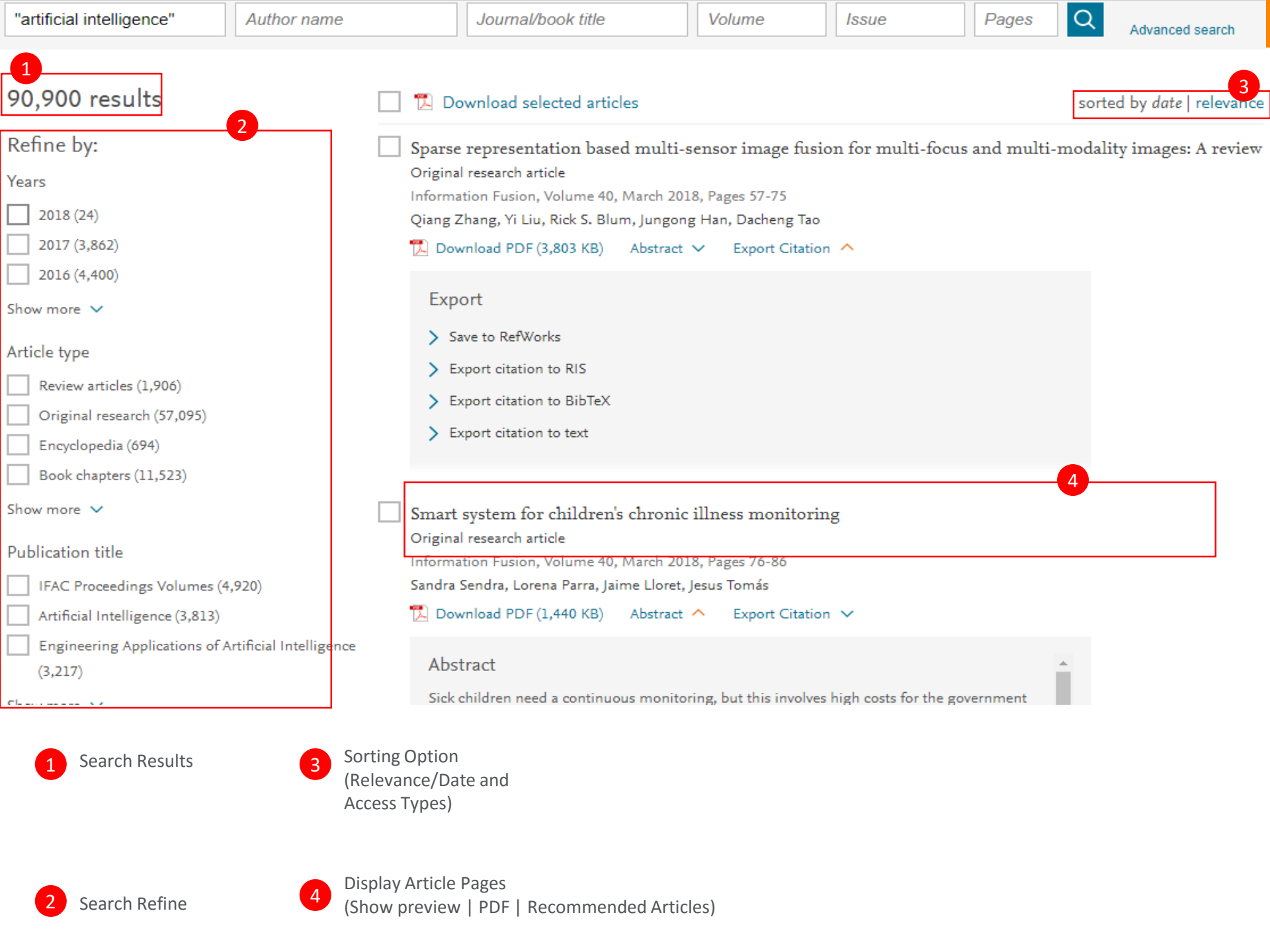
Search Functionality

- **Choosing Search Terms**
  - Use specific search terms that are closely related to your research topic
  - Include alternative words and abbreviations
  - Avoid words that are too general
- **Use Boolean Operators**
  - AND
    - Finds documents that contain ALL of the terms
    - Use this when the terms must appear and may be far apart from each other
    - Example: “Programmable Logic Controller AND Elevator”
  - OR
    - Finds documents that contain any of the terms
    - Use OR when at least one of the terms must appear (such as synonyms, alternate spellings, or abbreviations)
    - Example: micromouse OR picomouse
  - AND NOT
    - Excludes documents that include the specified term from the search
    - Use AND NOT to exclude specific terms. This connector must be used at the end of a search.
    - Example: micromouse OR picomouse AND NOT mouse
  - W/n
    - Use W/n to specify how far apart terms may appear in documents. W represents “within”, and *n* represents the maximum number of words between the terms
    - Example: aerospace W/5 atmosphere would find documents that had the terms “aerospace” and “atmosphere” within 5 words of each other
  - PRE/n
    - Use PRE/n to find documents in which the first term precedes the second term within a specified number (n) of words
    - Example: behavioural PRE/3 disturbances would find documents in which behavioural precedes disturbances by three or fewer words.

Search Functionality

- **Finding Variations of a Word**
  - To search for an specific phrase, enclose the phrase in inverted commas: “air con”
  - To search for an exact match, enclose the word in braces: {air con}
  - Using the singular form of a word finds the singular, plural, and possessive forms of most words
  - Special characters are included in the search
  - Subscript and Superscript: enter subscripted and superscripted characters on the same line as other characters.
    - Example: for the chemical notation "H_2O," enter H2O
  - Accented Characters: To search for the name Fürst, enter Fürst or Furst.
  - Non-alphanumeric Characters: Characters such as hyphens, bullets, arrows, plus signs, and minus signs are ignored unless they are enclosed in brackets.

- **Wildcard Characters**
  - Use wildcard characters to search for variations of a word
  - Question mark (?) replaces a single character anywhere in a word. Use 1 question mark for each character you want to replace: Transplant?? Yields Transplater and Transplanted
  - Asterisk (*) replaces multiple characters anywhere in a word; it can be used to replace 0 and more characters: Optim*



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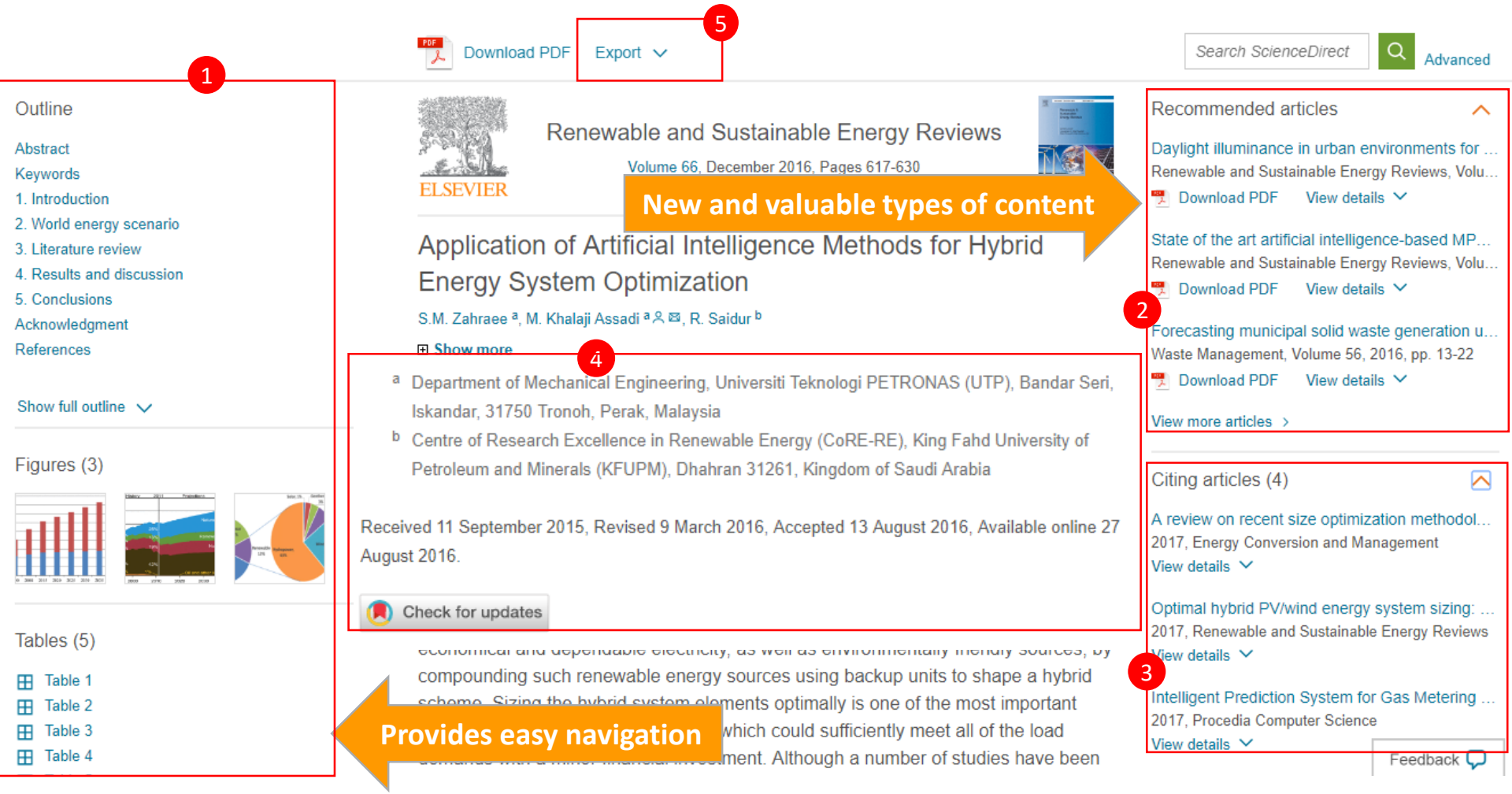
2 Search Refine

3 Sorting Option (Relevance/Date and Access Types)

4 Display Article Pages (Show preview | PDF | Recommended Articles)

Use the Intuitive Online Article Format



1 Navigator Bar

2 Recommended Articles

3 Citing Articles

4 Author Information

5 Export Options
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Use the Intuitive Online Article Format

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Search ScienceDirect Advanced

architecture includes a (3) central data base which is located in the hospital or health center. The wireless connection between (1) and (2) can be performed using Wi-Fi or 3G/4G technology. Fig. 1 shows the proposed architecture to smartly monitor the activity and signs of the children with chronic illnesses.

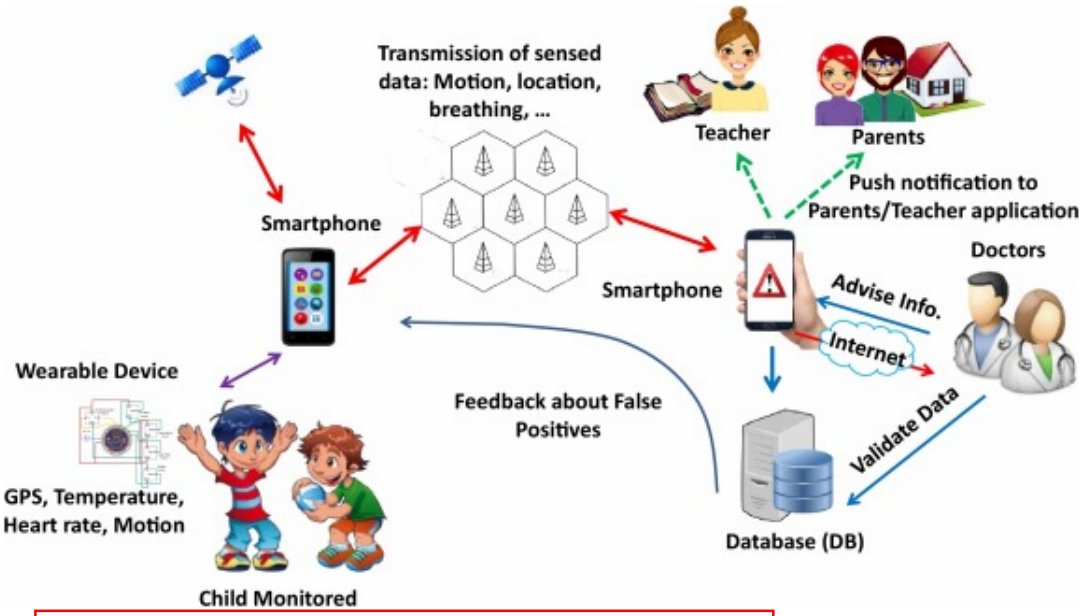

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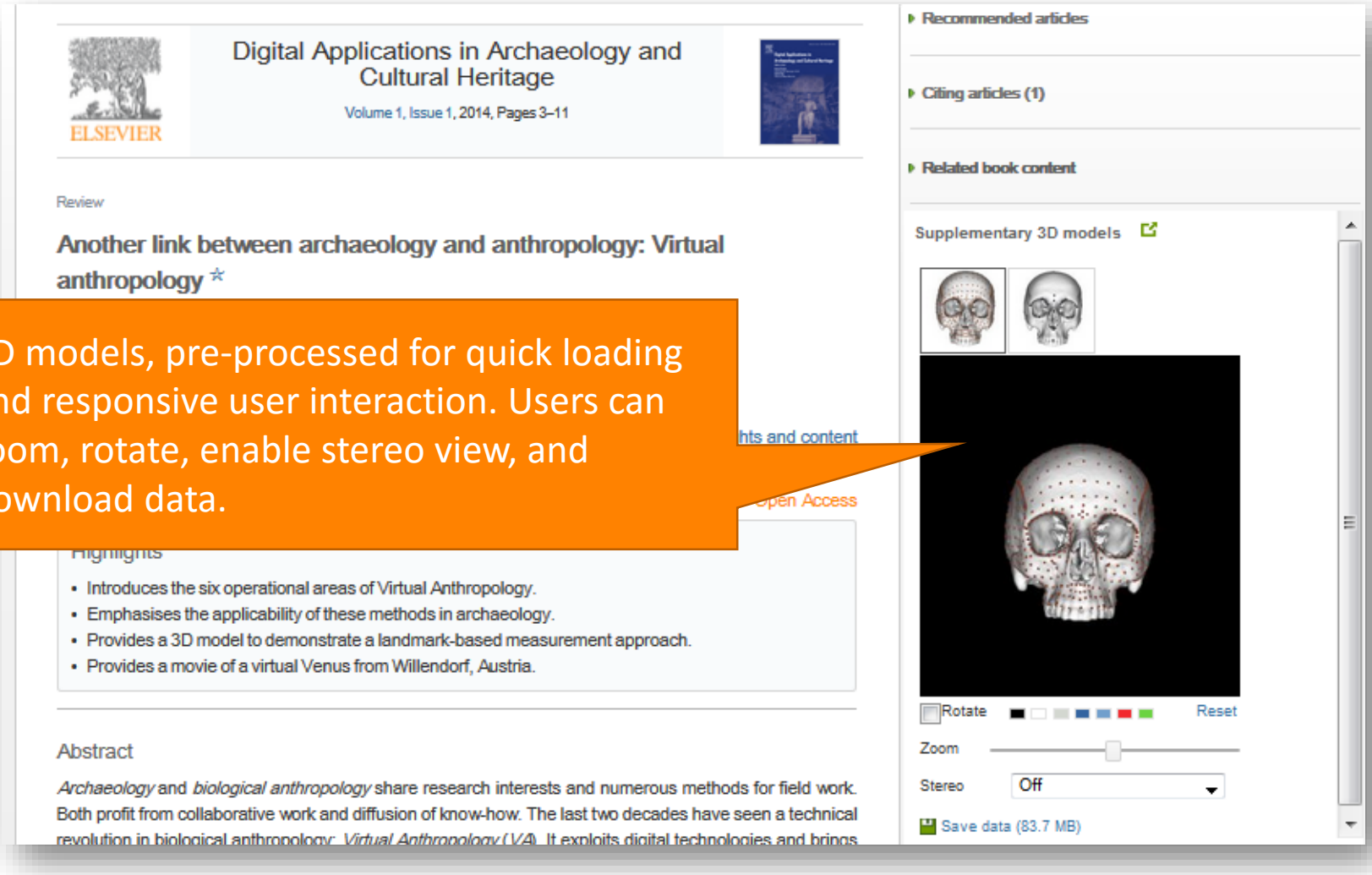
Fig. 1. Proposed architecture for children's chronic illness monitoring.

The mobile application, also called the processing unit, (1) installed in the caregivers' smartphone is composed by three components: (i) decision support components, (ii)

Feedback

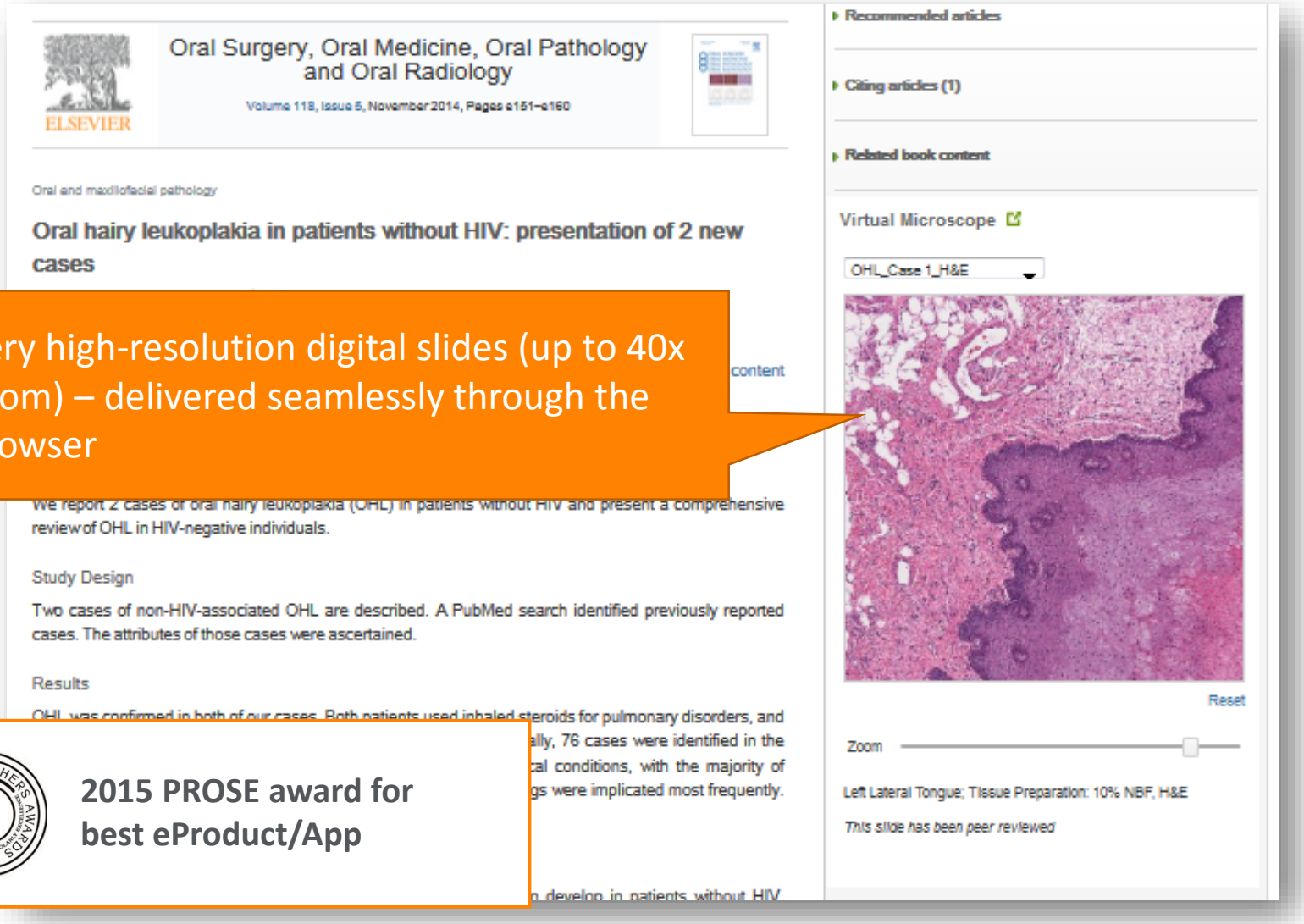
Interactive 3D models



3D models, pre-processed for quick loading and responsive user interaction. Users can zoom, rotate, enable stereo view, and download data.

Article: http://www.sciencedirect.com/science/article/pii/S2212054813000027

The Virtual Microscope



Very high-resolution digital slides (up to 40x zoom) – delivered seamlessly through the browser

2015 PROSE award for best eProduct/App

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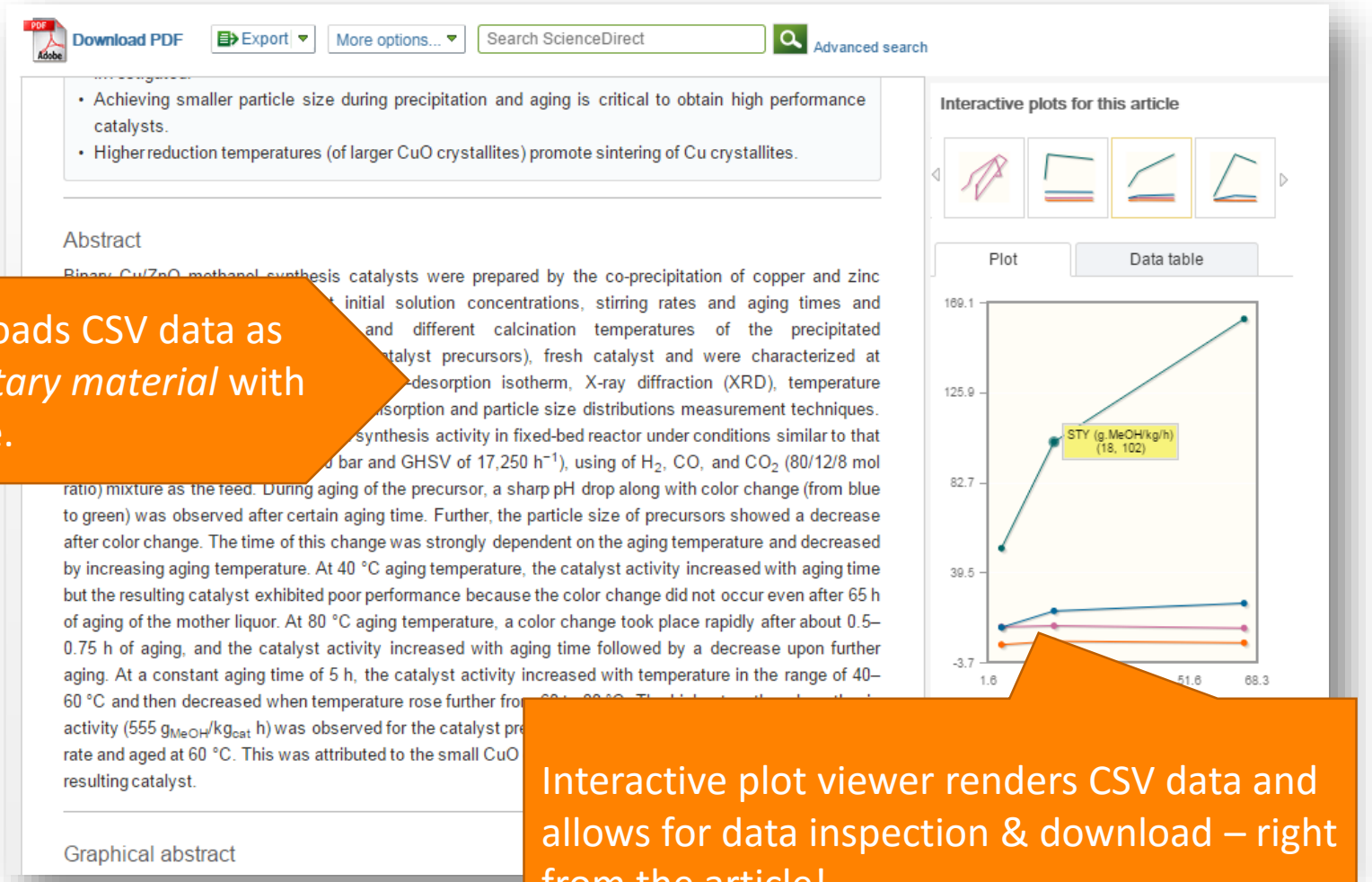
Interactive Plots



Author uploads CSV data as *supplementary material* with their article.

Interactive plot viewer renders CSV data and allows for data inspection & download – right from the article!

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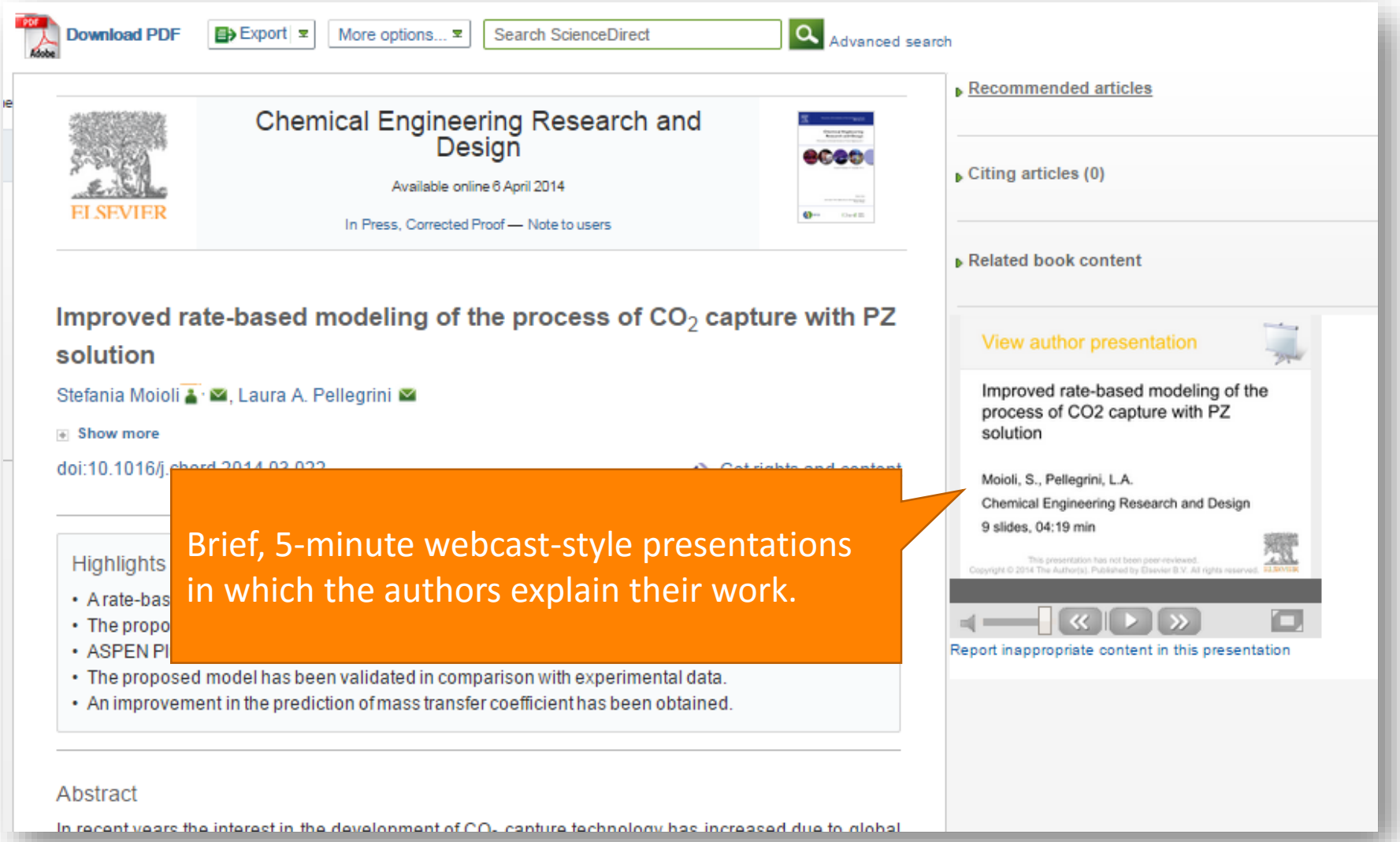

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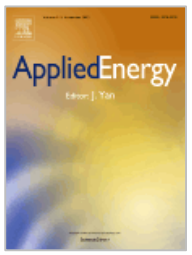
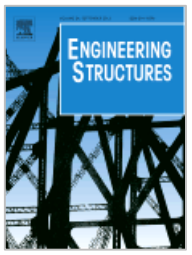
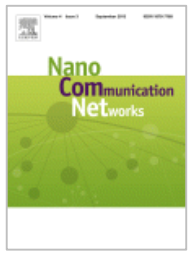
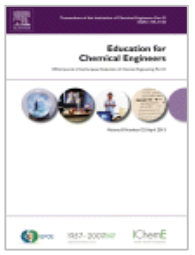
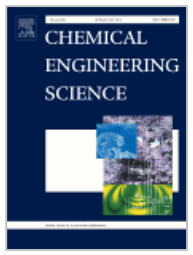
Feedback

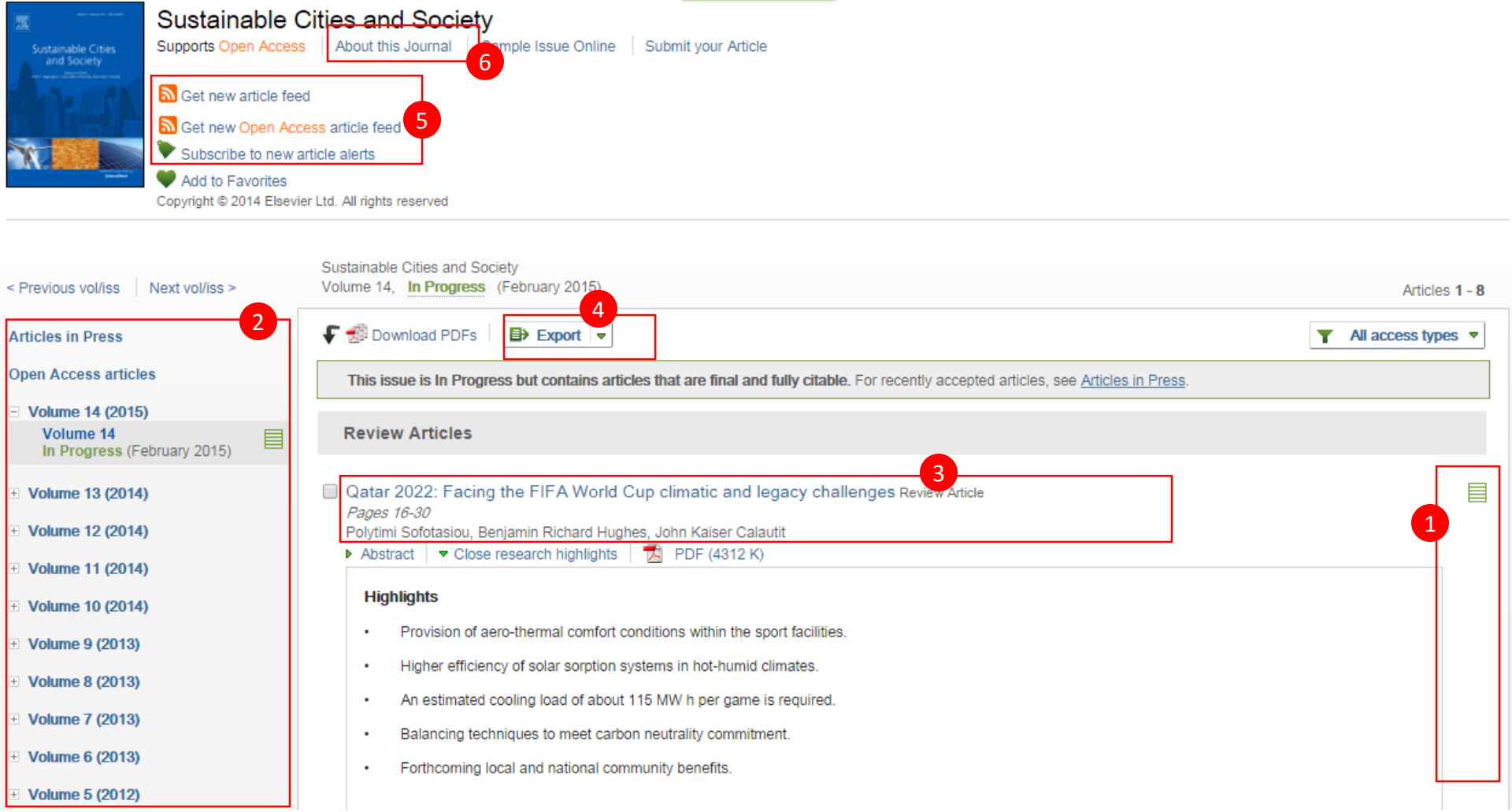












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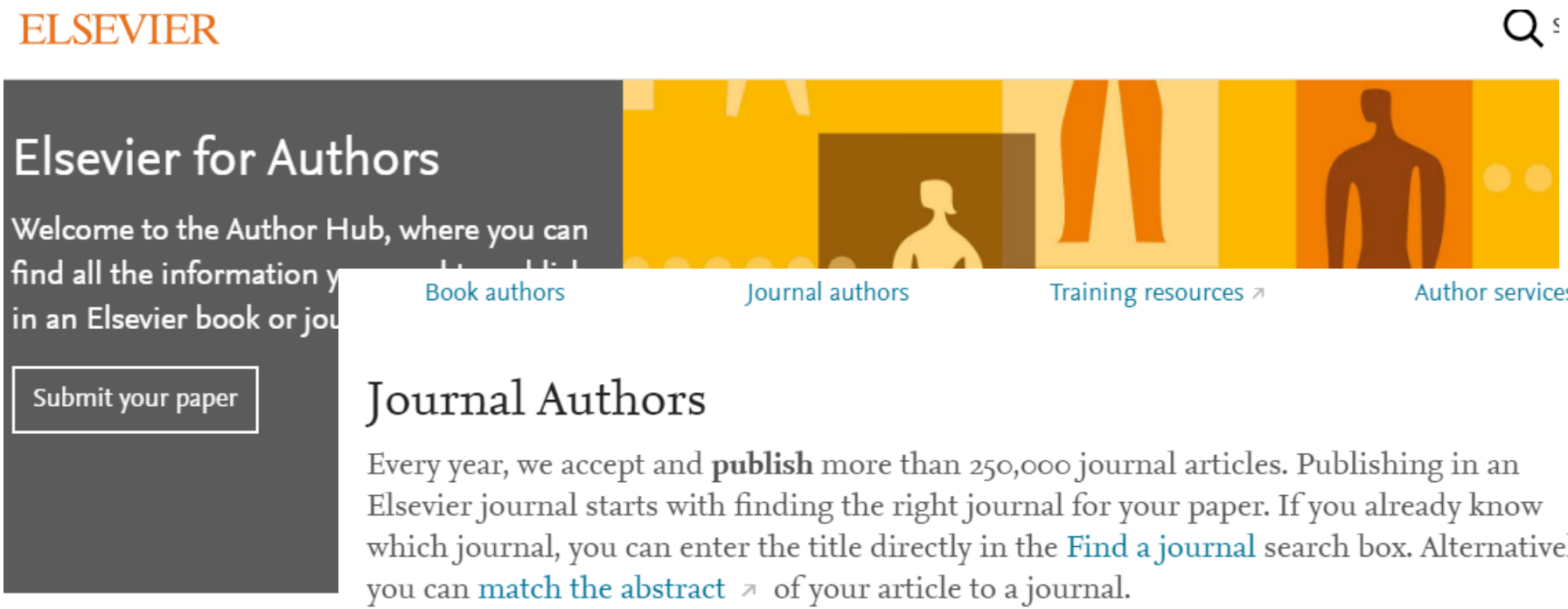

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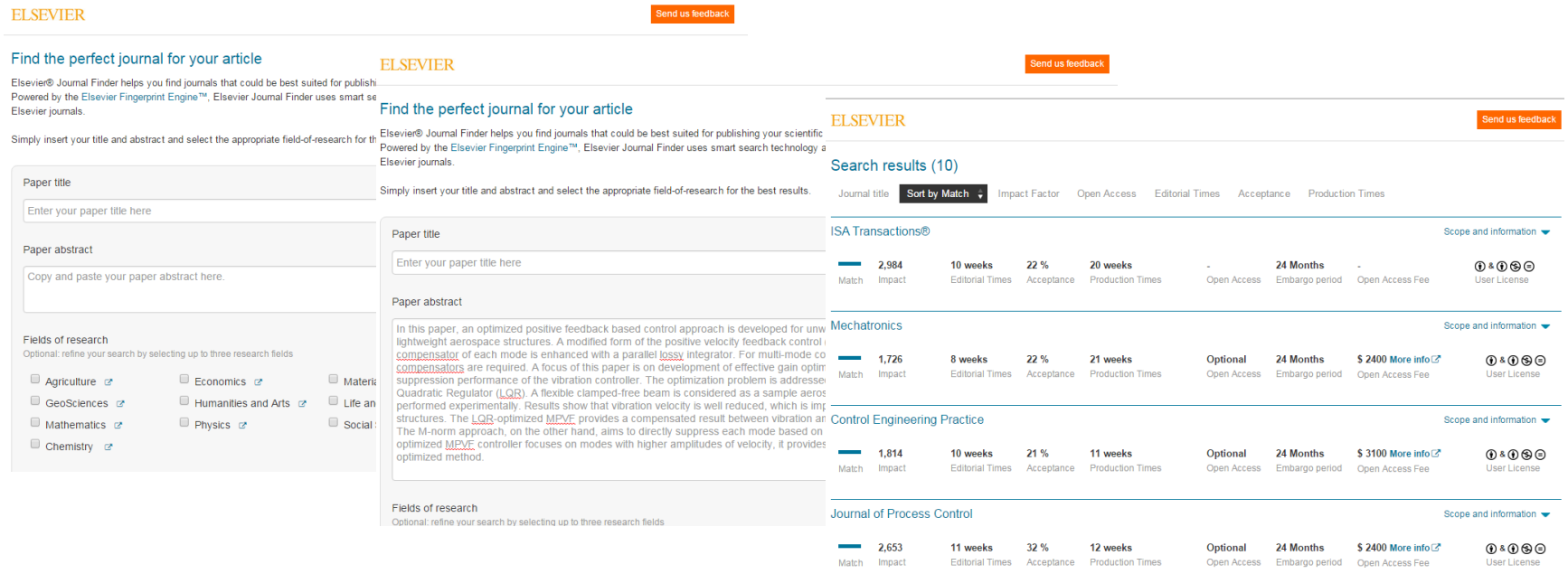

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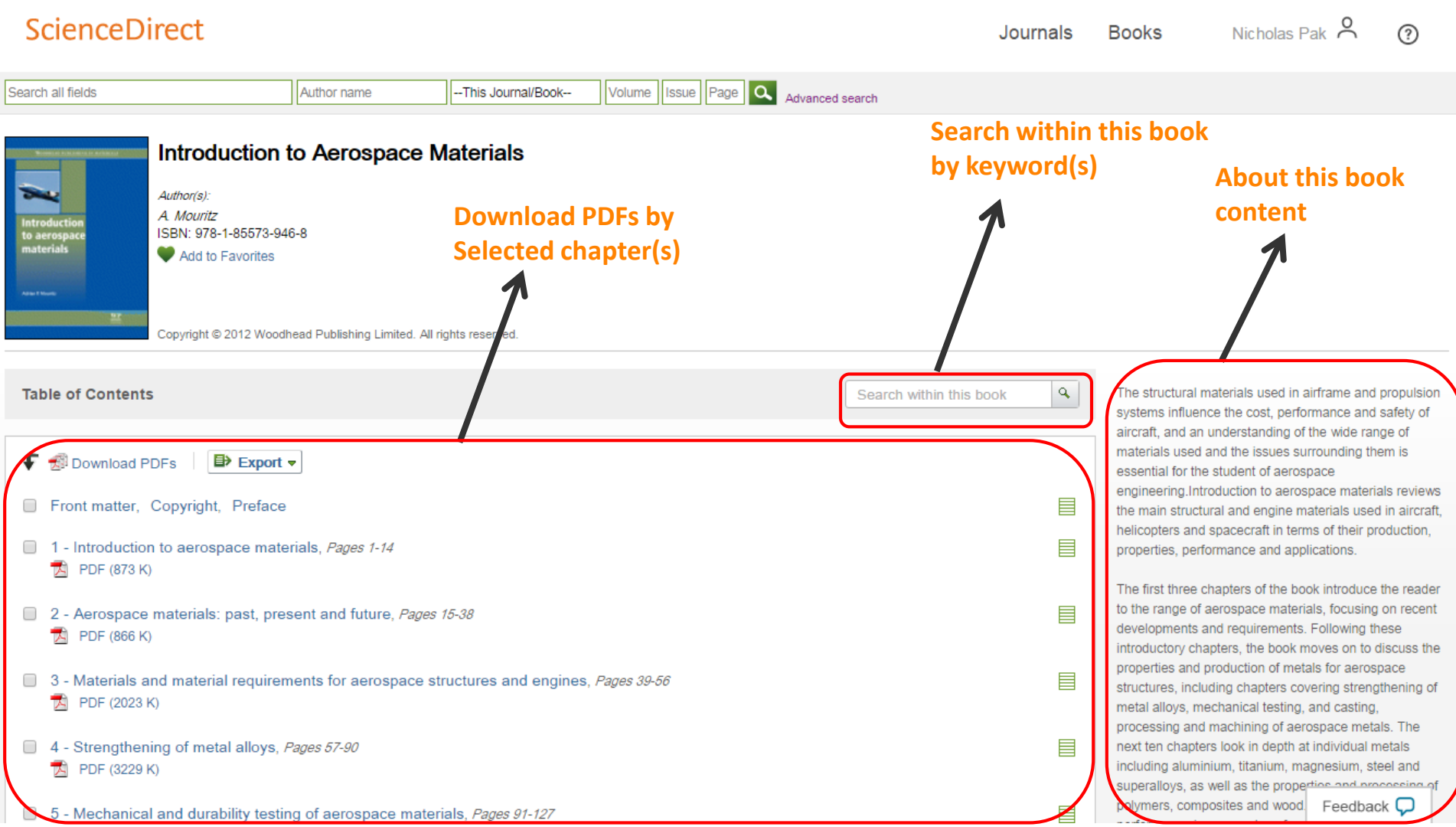

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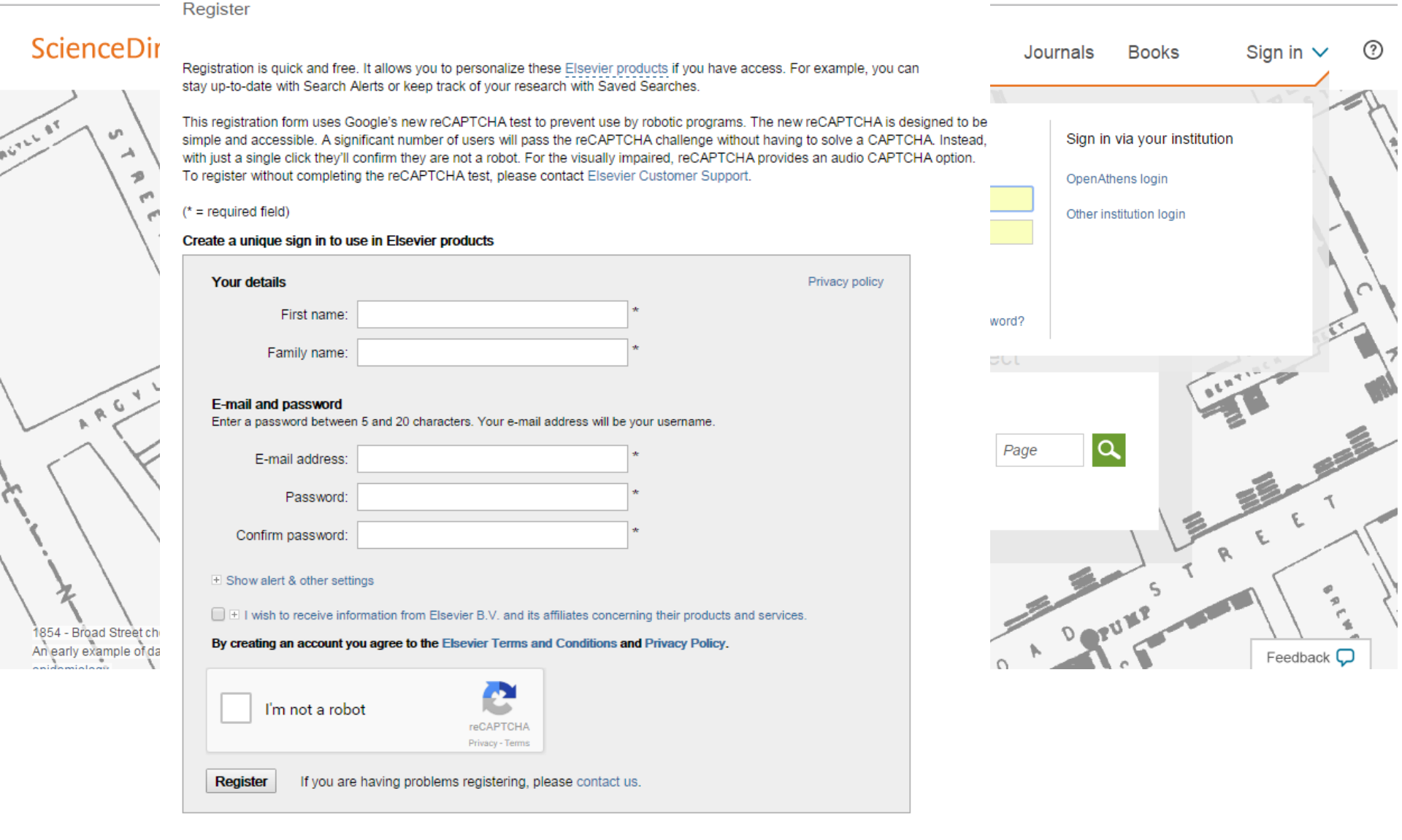

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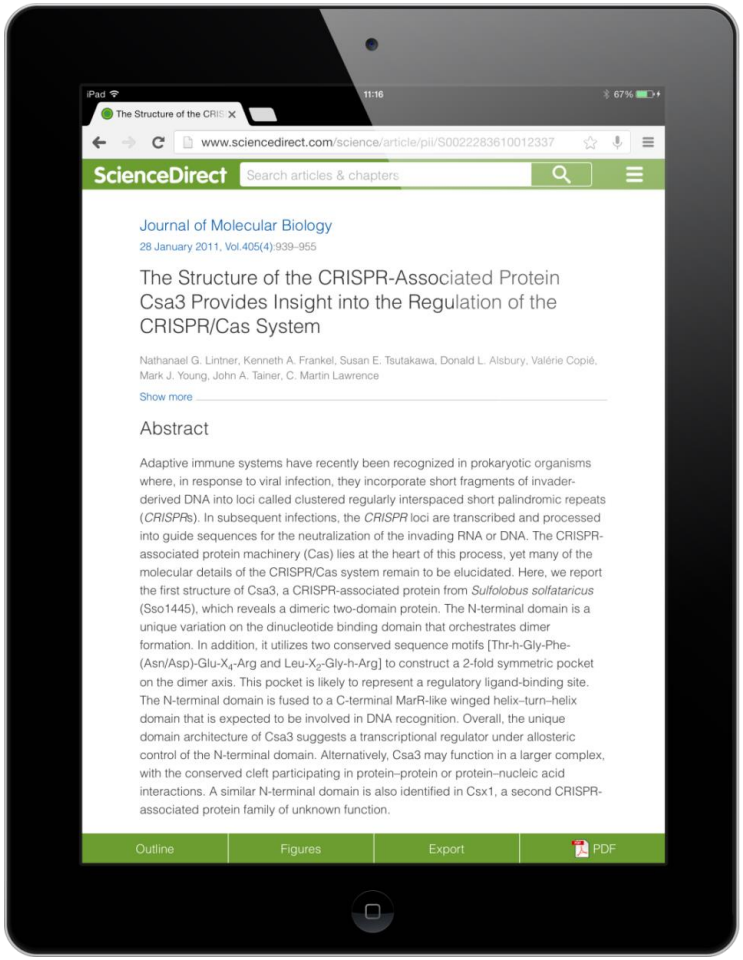

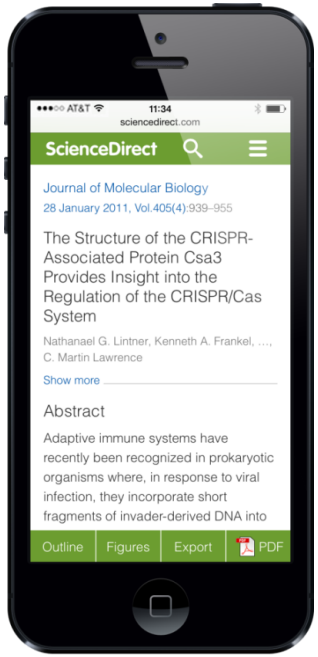

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