

Springer Nature's Metadata Mission Statement

We understand metadata as the gateway to our content.

We provide best quality metadata with state-ofthe-art enrichment in all key formats and flavors, available in all relevant delivery models.

Our bibliographic metadata is free, open and reusable.

SPRINGER NATURE

Springer Nature SciGraph

A Linked Open Data platform for the scholarly domain



- > Collaborative effort between Springer Nature and Digital Science
- > Supporting internal use cases, but also contributing to an emerging web of **linked open science data**
- Not just publications data but a wealth of further related information

Linked Open Data Publishing So Far

SPRINGER NATURE Springer Nature SciGraph A Linked Open Data platform for the scholarly domain We are pleased to introduce Springer Nature SciGraph, the new Linked Open Data platform aggregating data sources from Springer Nature and key partners from the scholarly domain. The Linked Open Data platform will initially collate information from across the research landscape, such as funders, research projects, conferences, affiliations and publications. Additional data, such as citations, patents, clinical trials and usage numbers will follow over time. This high quality data from trusted and reliable sources provides a rich semantic description of how information is related, as well as enabling innovative visualizations of the scholarly domain. Dataset Download By doing so, Springer Nature SciGraph overcomes former boundaries by relating comprehensive information about the research landscape. It represents a further step in data integration and it will continue to grow organically. This platform will increase the discoverability of high quality data as larger parts of our datasets will be made freely available under a CC BY-NC 4.0 license. Licensing Information Further Info (PDF, 11.56 MB) The data in Springer Nature SciGraph is projected to contain 1.5 to 2 billion triples. It will comprise metadata from journals and articles, books and chapters, organizations, institutions, funders, research grants, patents, clinical trials, substances, conference series, events, citations and reference networks, Altmetrics, links to research datasets and much more.

At a glance:

- 150 M triples / 32G downloads
- CC-BY-NC license

Metadata about:

- Articles 2012-2016 (5M) + Abstracts
- Grants (200k)
- Journals (3k)
- Subjects (3k)
- Core Ontology

www.springernature.com/scigraph

Open Data Events: Hack Day June 2017

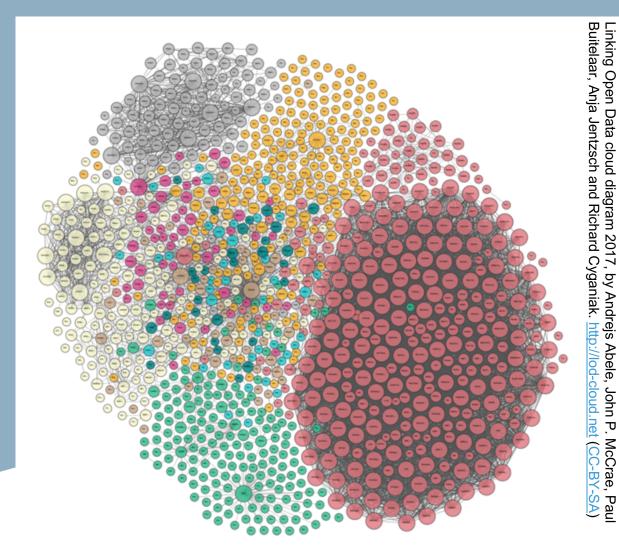
Aims and Scope

- Engagement with Linked Data Researcher Community
- Encourage developers to build tools with our data
- Position ourselves as Open Data research publisher
- Gather first-hand feedback from users of our data



Web of Data

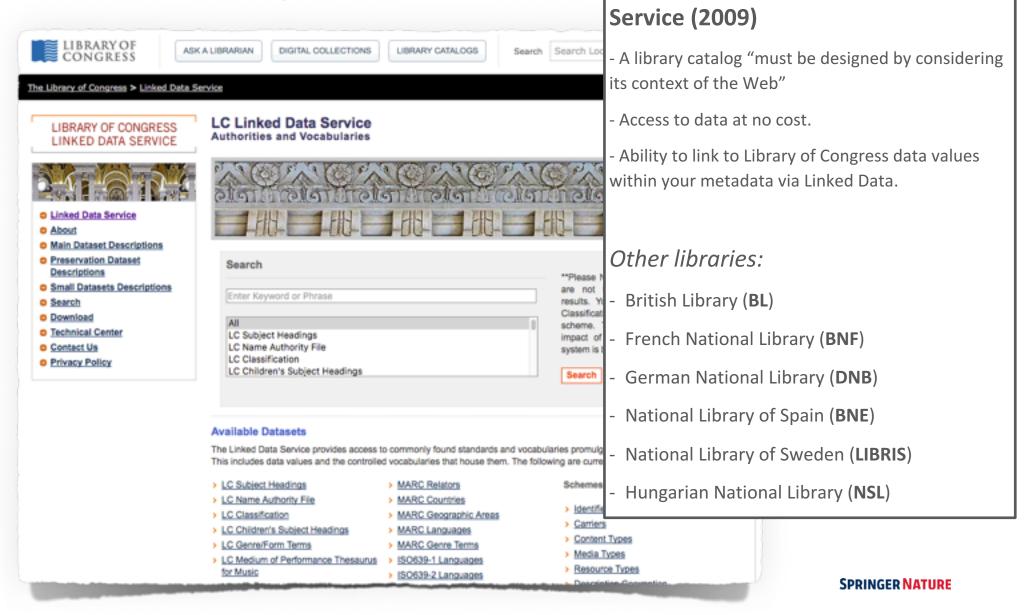
- Be part of the LOD cloud!
- The future library and trade catalog is the Internet!



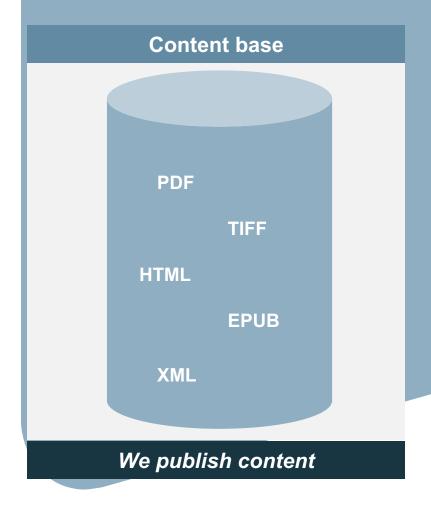


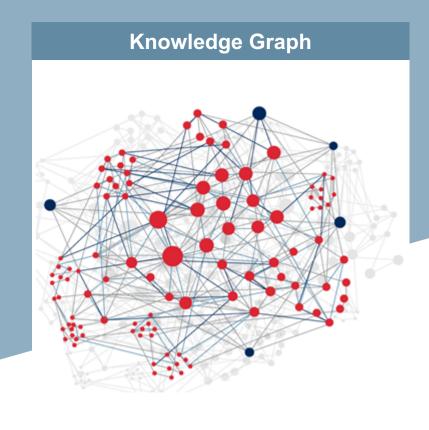
Library of Congress Linked Data

Libraries using Linked Data



Vision: From Content to Data





We manage knowledge



Vision: From Content to Data

• We create the largest state-of-the-art raph linked open data aggregation platform for the scholarly domain.

HTN

In doing so, we increase content discoverability and provide data tools and services for researchers, authors, editors, librarians, data scientists, funders, conference organizers, and many others by adding value across all content types.

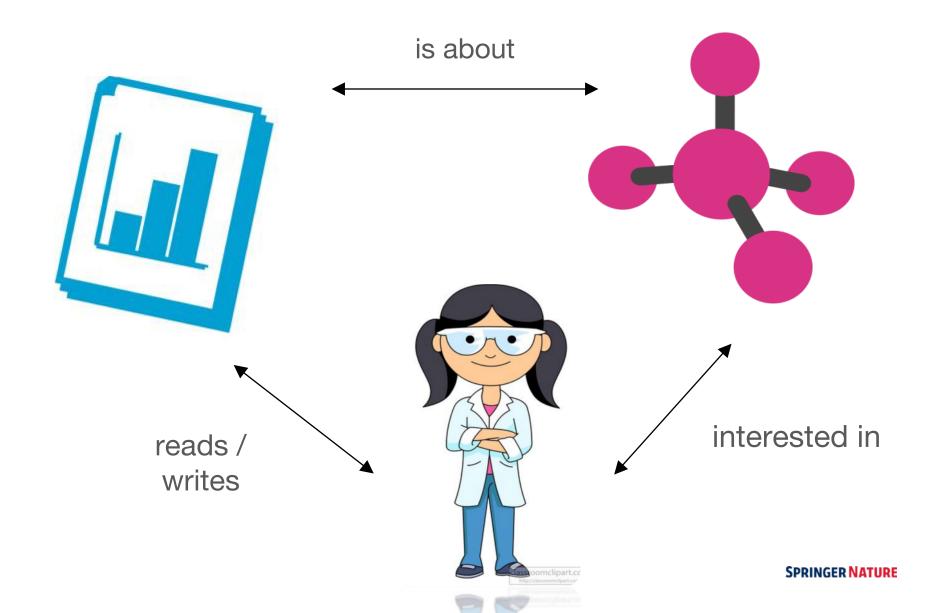


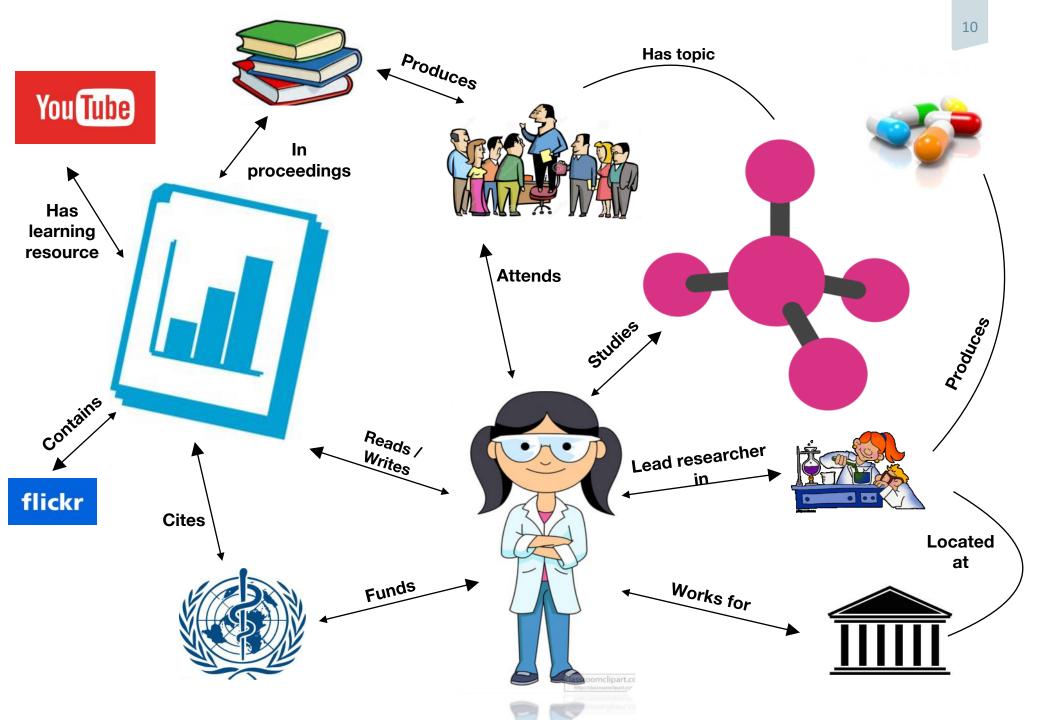
We publish content

We manage knowledge

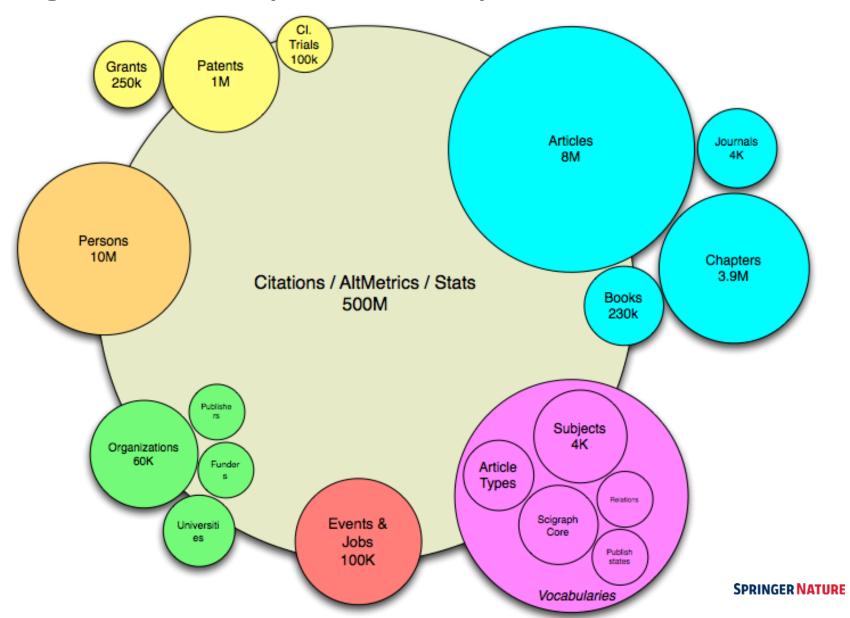


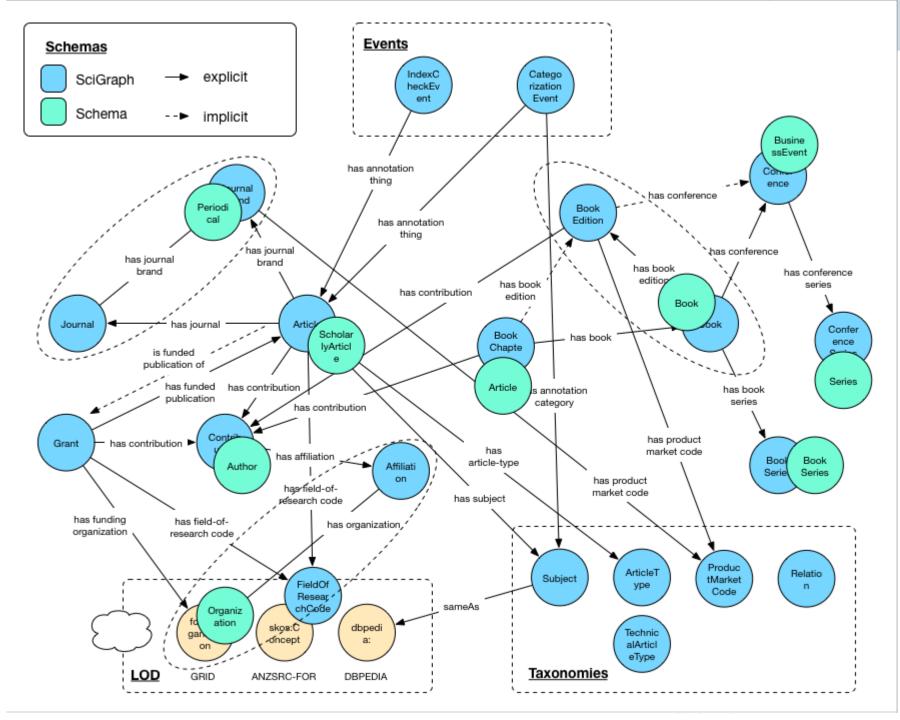
Three areas of knowledge we care about





Springer Nature SciGraph Data Landscape





Springer Nature SciGraph Applications

Springer Nature Scigraph: Applications



- Researchers can analyze/build upon our data
- Contributing to Open Research

Business Intelligence and Analytics

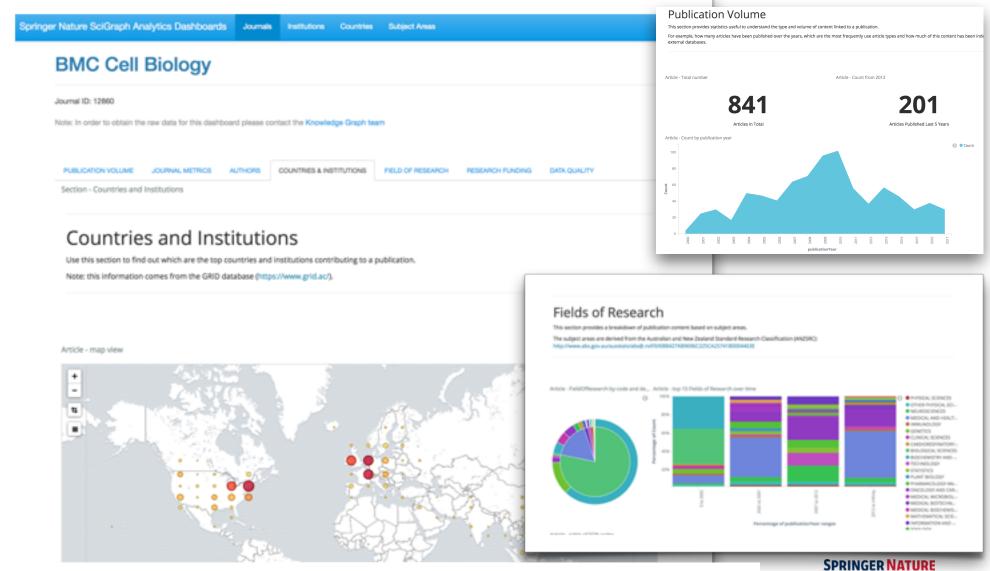
- Dashboards for understanding the research landscape
- Editors, Sales, Marketing etc.

Content Discoverability

- SN SciGraph Data Explorer
- APIs for better end user applications

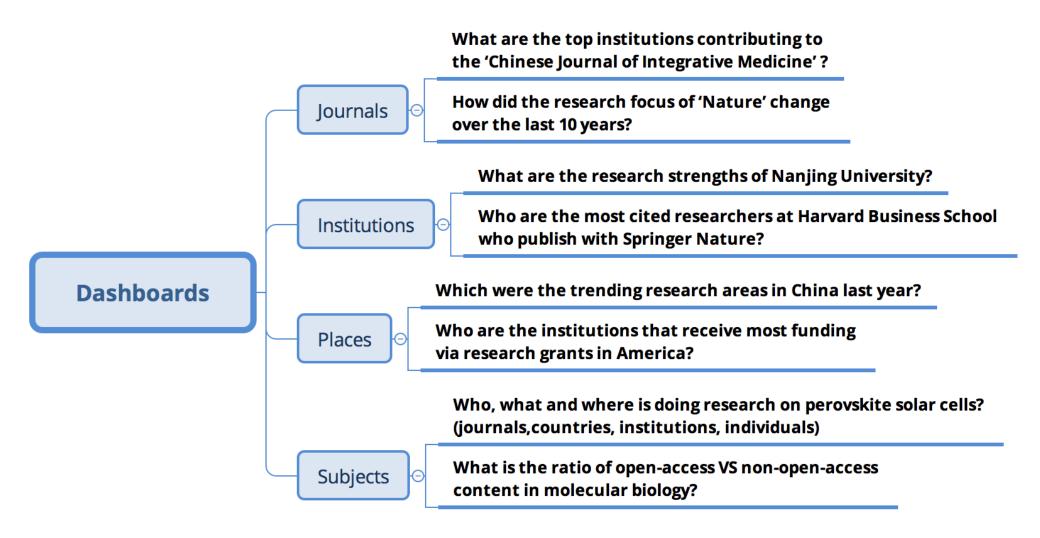
Applications Analytics Dashboards

Springer Nature SciGraph Analytics Dashboards



http://scigraph-analytics.springernature.com/

Springer Nature SciGraph Analytics: Supporting Data Driven Decisions

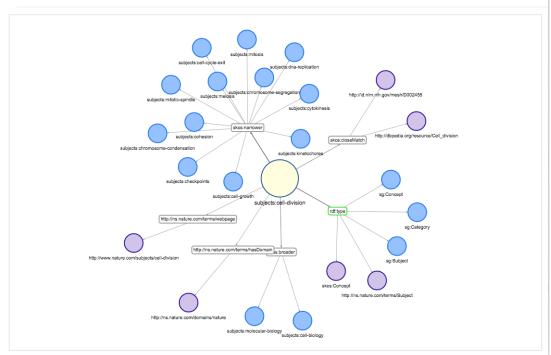


Applications Linked Data Explorer

Linked Data Explorer

Cell division

Cell division is the process by which a parental cell gives rise to two daughter cells. The process involves both nuclear division and cytokinesis and can either produce two equal cells (symmetric cell division) or two cells with different cellular fates (asymmetric cell division).



Purpose

- simple UI for exploring graph contents interactively
- internal version: unrestricted access to data and statistics
- external version: only public data, allows linked data 'dereferencing'

Features

- text & graphical UI on top of graph database
- one page per URI, permits to download machine readable descriptions of data

Summary, Next Steps and Public Outreach

Looking Ahead

Summary

- <u>Springer Nature Scigraph</u> is our LOD platform: Focus on data re-use, integration and discoverability
- Collaboration between Springer Nature and Digital Science (and other partners)
- Data publishing: ~150M triples released, 1B+ in our graph
- <u>Internal</u> use cases: Ontology management, analytics dashboards, semantic publishing

Looking Ahead

Next Steps

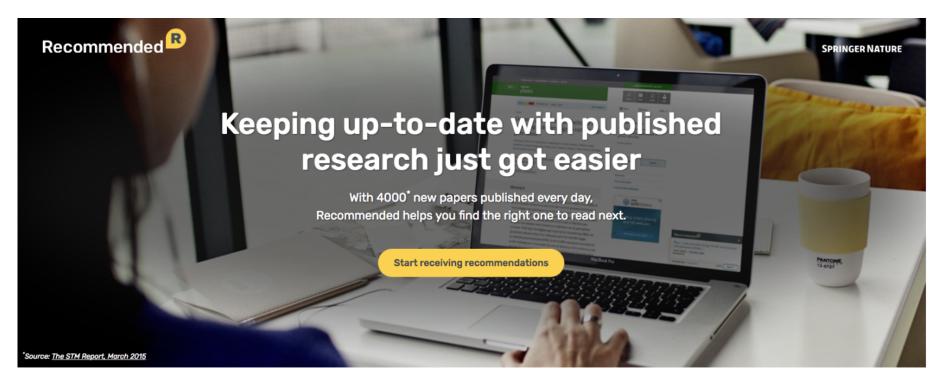
- Data publishing: New release including complete archive, updated CC license
- Visualization, interactive exploration of the graph (Linked Data Browser), analytics dashboards in particular to support Sales, Marketing and Editorial
- Exploring metadata <u>deliveries</u> to third parties (Google, libraries)
- SN Taxonomy Manager: Beta going live this month
- Going <u>Pan-publisher</u>

Public Outreach

- Collaboration with DBpedia: Internship in London/Leipzig
- Hack Day: Research data Publishing hack day (London, November 17, 2017)

More Discovery Tools from Springer Nature

http://recommended.springernature.com recommended@springernature.com



Recommended is a personalised service that suggests relevant papers to you, based on what you've previously read, from all publishers.



How we deliver recommendations

The popup:

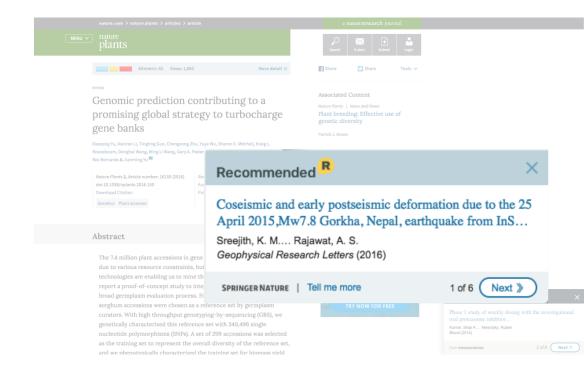
Only shown on article pages across Nature.com, BioMed Central and SpringerOpen.

Only appears after scrolling the page.

Only shown *if* we have at least one recommendation to show.

Up to 5 recommendations shown, with an email sign up onward journey.

E.g. https://www.nature.com/ncomms/



How we deliver recommendations

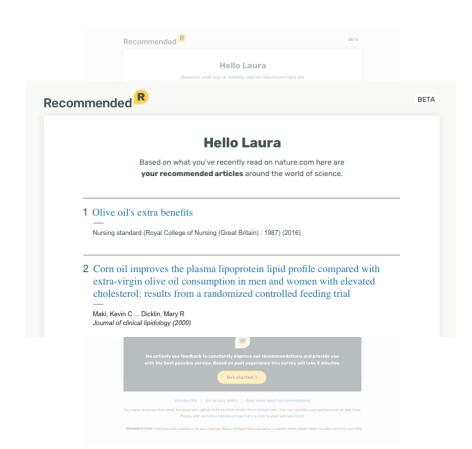
Email:

Only sent to people who have signed up from the popup or home page.

Up to 10 recommendations in an email.

Sent weekly if we have *new* recommendations to show.

Users can change the frequency through a link in the email.





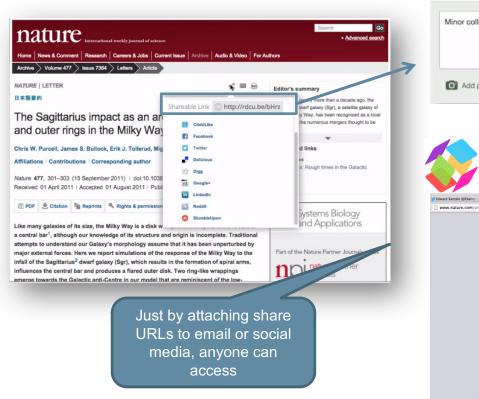
http://www.springernature.com/sharedit

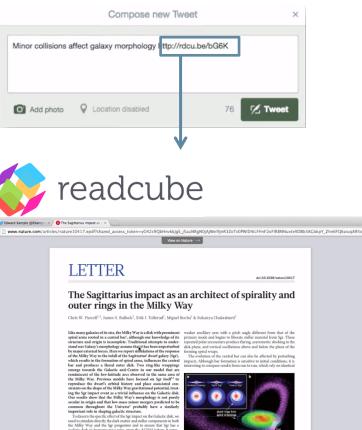


sharedit@springernature.com

1 Users with access rights share with colleagues and collaborators

With the content sharing function ...







1 Users with access rights share with colleagues and collaborators

If you do not have access to the paper, you can only browse the article (Printing, PDF saving is not possible)

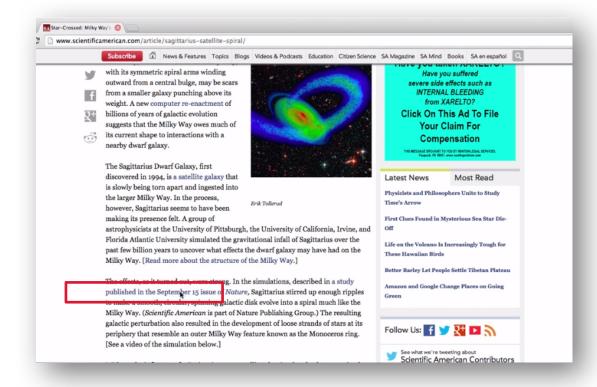




2 Access to articles from about 200 news organizations in the world and science blog sites



Providing access to full text articles to readers of about 100 news organizations and science blog sites around the world aiming to convey deeper information on important research widely and in general





Thank you

How to get in touch:

- E-mail <u>michele.pasin@springernature.com</u>
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- E-Mail scigraph@springernature.com
- Twitter #scigraph