“Društvene mreže” istraživača

Otvoreni pristup nauci

Igor Pašti

Istraživanje

- Identifikacija tematike/Pretraga literature
- Postavka eksperimenta
- Izrada eksperimenta
- Analiza i diskusija rezultata
- Priprema publikacije
- Proces publikovanja

Proces publikovanja

- Publikacija u naučnom časopisu, monografiji, prezentacija na naučnom skupu
- Odabrati pogodan časopis/konferenciju
- Po pravilu članci koji su poslati u naučni časopis podvrgavaju se **recenziji** (ako to nije slučaj ne publikujte u takvom časopisu)

Recenzija / Peer review

- Peer review is the evaluation of work by one or more people with similar competences as the producers of the work (peers). It functions as a form of self-regulation by qualified members of a profession within the relevant field. Peer review methods are used to maintain quality standards, improve performance, and provide credibility. In academia, scholarly peer review is often used to determine an academic paper's suitability for publication. (wikipedia)

- Tipovi peer review-a
- Open peer review
- Single blinded
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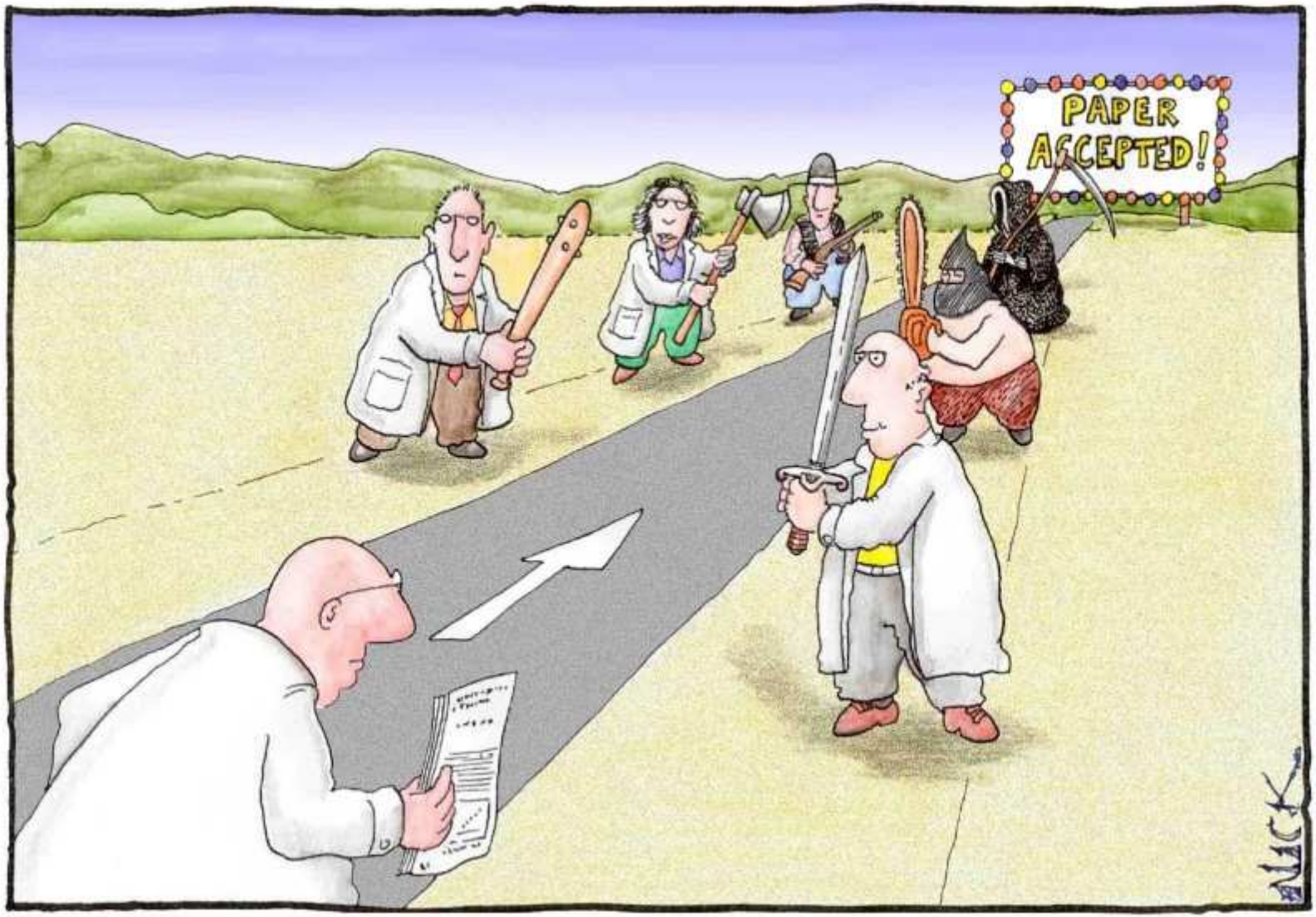

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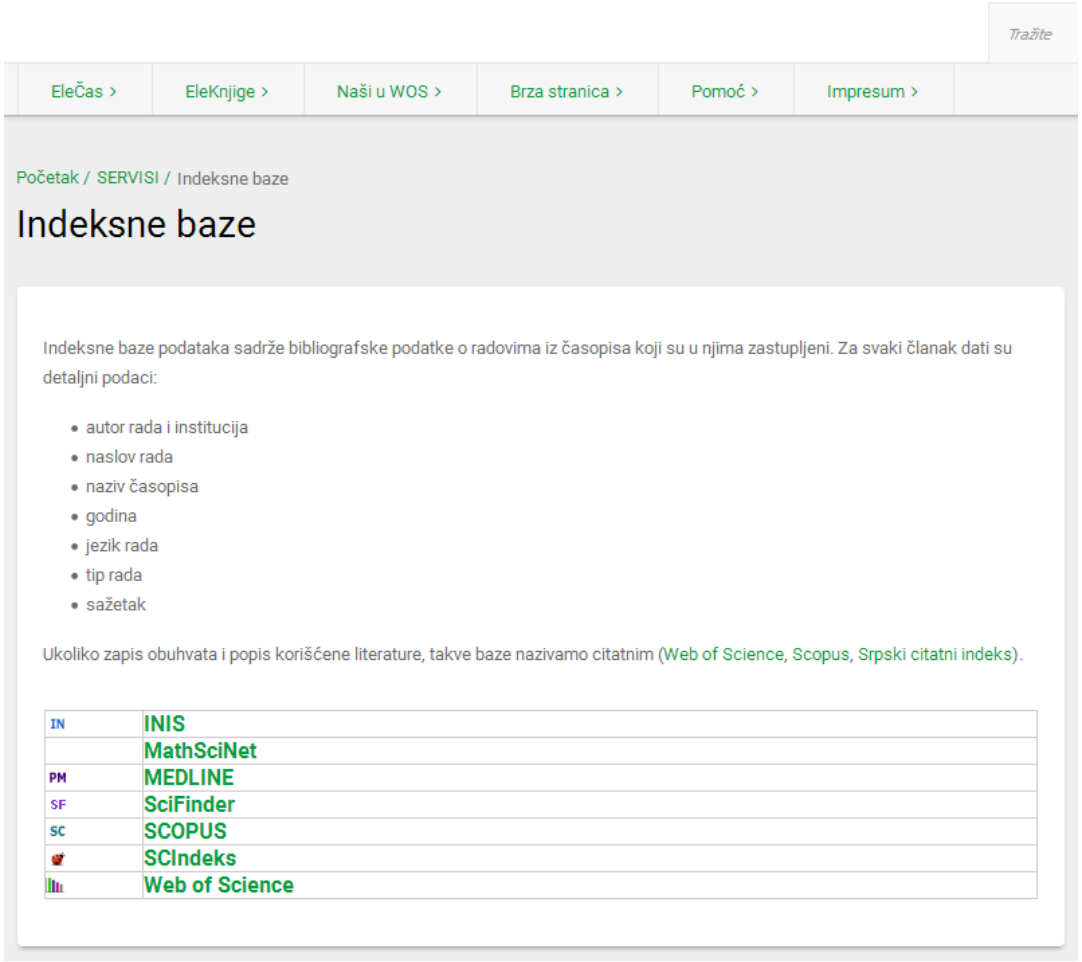

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Surface and Coatings Technology
Volume 349, 15 September 2018, Pages 511-521

A study of ordered mesoporous carbon doped with Co and Ni as a catalyst of oxygen reduction reaction in both alkaline and acidic media (Article)

Gavrilov, N.[a], Momčilović, M.[b], Dobrota, A.S.[a], Stanković, D.M.[b,c], Jokić, B.[d,e], Babić, B.[f], Skorodumova, N.V.[g,h], Mentus, S.V.[a,i], Pašti, I.A.[a,g]

[a]University of Belgrade – Faculty of Physical Chemistry, Studentski trg 12-16, Belgrade, 11158, Serbia
[b]University of Belgrade, Institute of Nuclear Sciences "Vinča", P. O. Box 522, Belgrade, 11000, Serbia
[c]Innovation Center of the Faculty of Chemistry, University of Belgrade, Studentski trg 12, Belgrade, 11158, Serbia

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Abstract

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The incorporation of trace amounts (<0.2%) of Co and Ni noticeably enhanced the catalytic activity of nitrogen-free ordered mesoporous carbon (OMC) towards oxygen reduction reaction (ORR). (Co, Ni)-doped OMCs were characterized by N_2-adsorption measurements, X-ray powder diffraction, field emission scanning electron microscopy and Raman spectroscopy methods, and their ORR activity was estimated by voltammetry on rotating disk electrode in acidic and alkaline media. (Co, Ni)-doped OMCs show modest activities in acidic media, while the catalytic activity in alkaline media is rather high. The measured activities are compared to the Pt-based and Pt-free ORR catalysts reported in the literature. The number of electrons consumed per O_2 in metal-doped OMCs was found to vary between 2 and 4, which is advantageous in comparison to metal-free OMC. Also, the mass activities of metal-doped OMCs were found to be up to 2.5 times higher compared to that of metal-free OMC. We suggest that the ORR activity is governed by a balance between (i) textural properties, which determine the electrochemically accessible surface of the catalyst and which are influenced by the addition of a metal precursor, and (ii) novel active sites formed upon the introduction of metals into the carbon structure. In particular, our Density Functional Theory calculations suggest that Co and Ni atoms embedded into the single vacancies of graphene can activate the O_2 molecule and contribute to the decomposition of peroxide. © 2018 Elsevier B.V.

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Li, G., Yi, Q., Yang, X.
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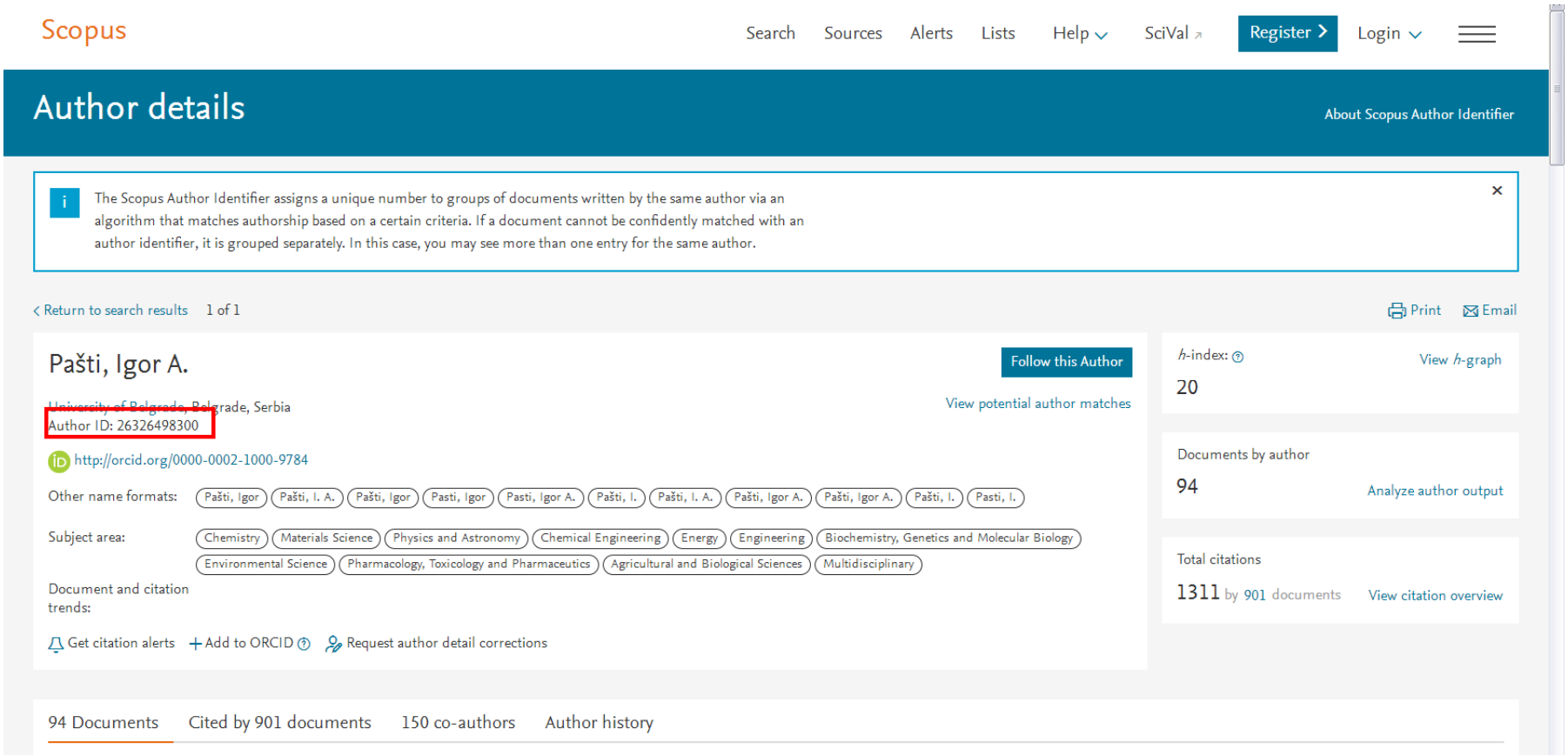
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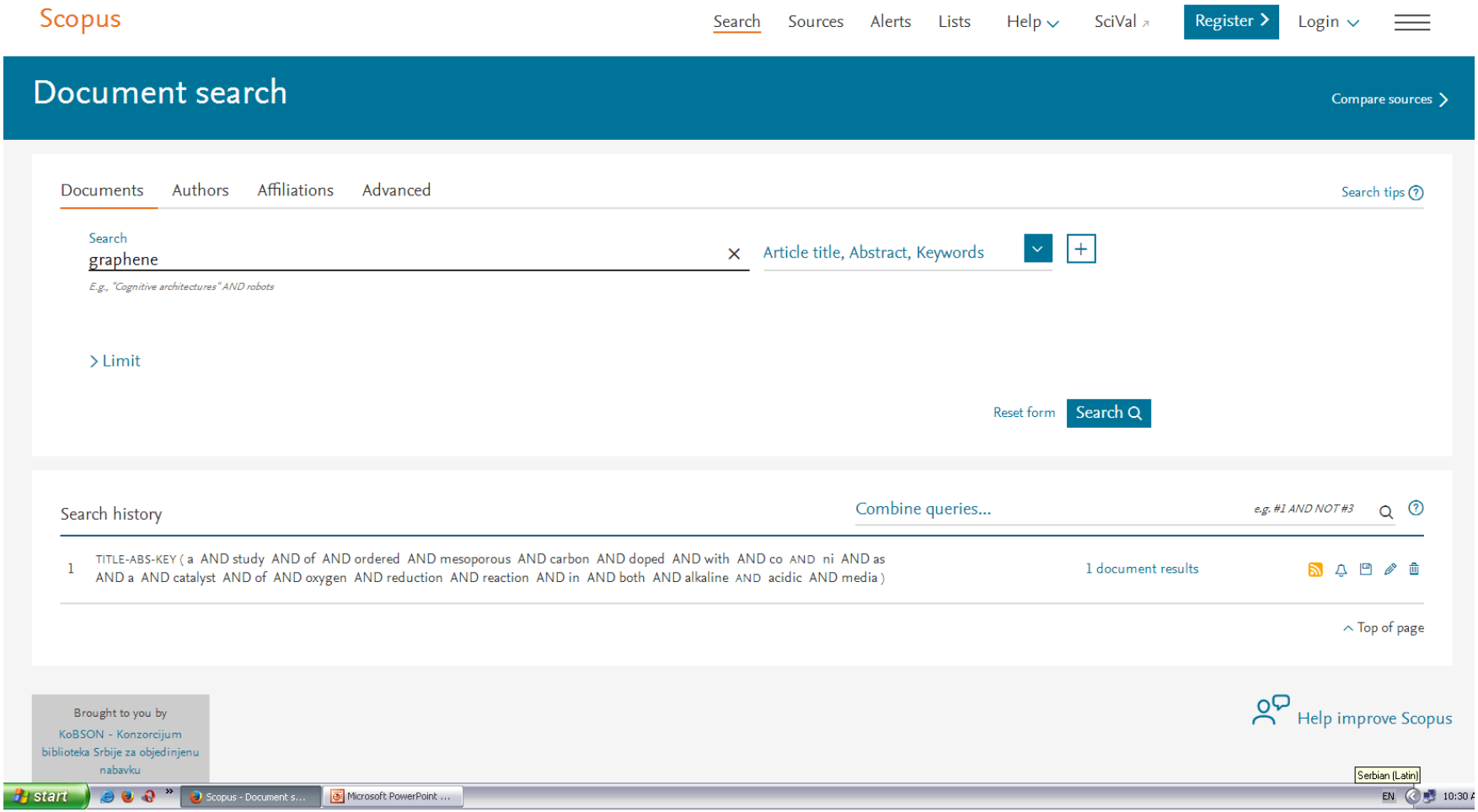

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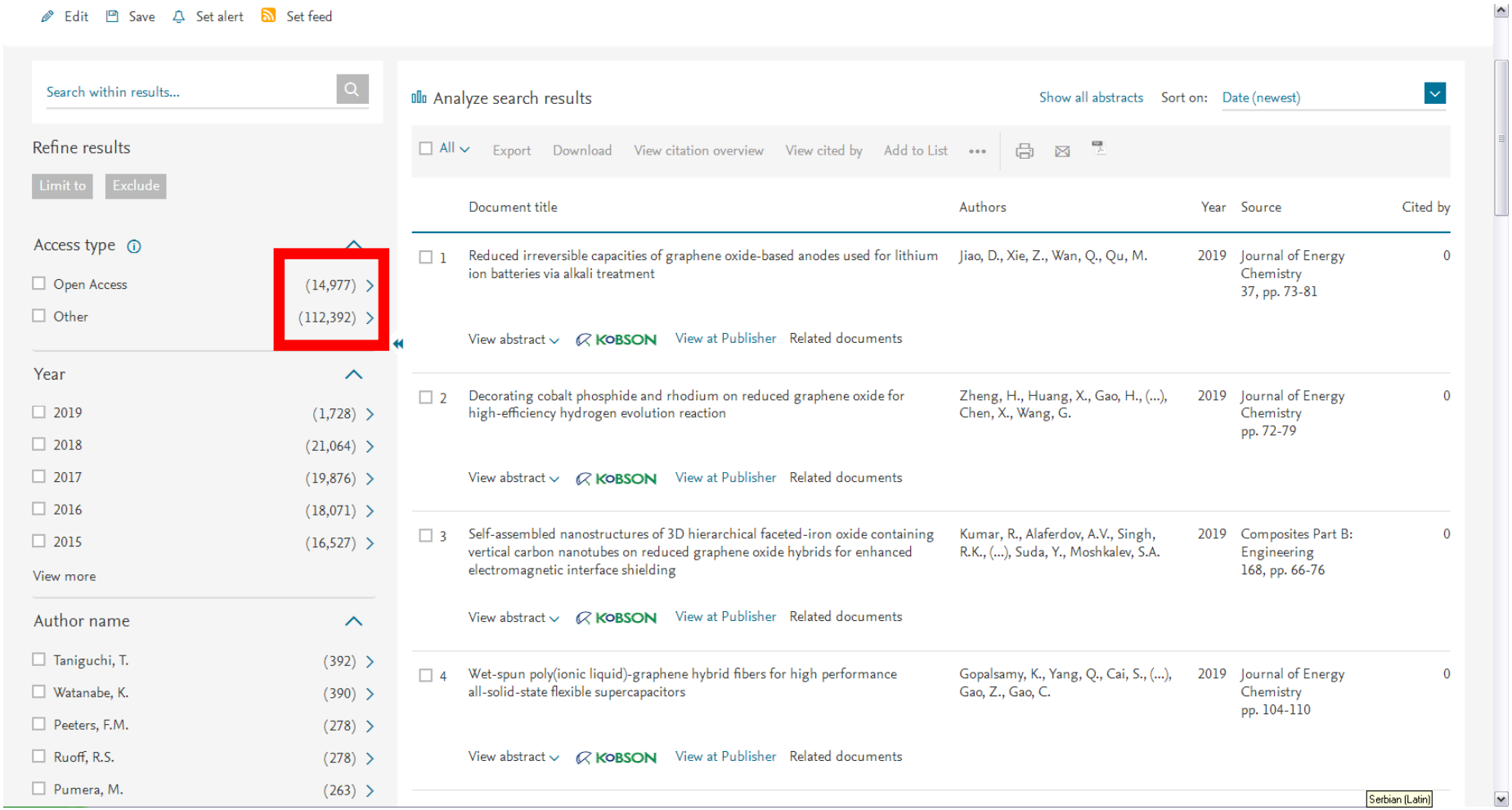

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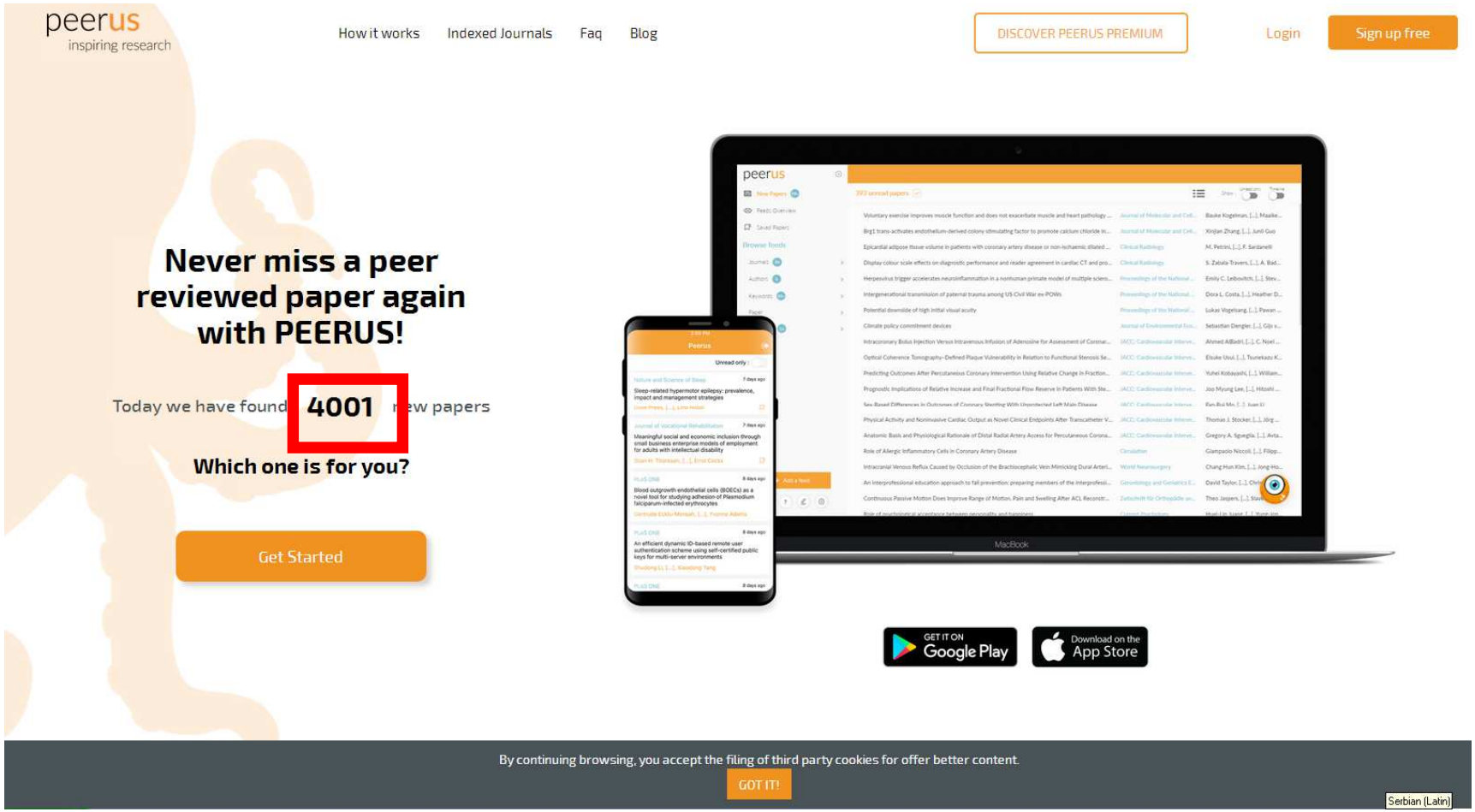

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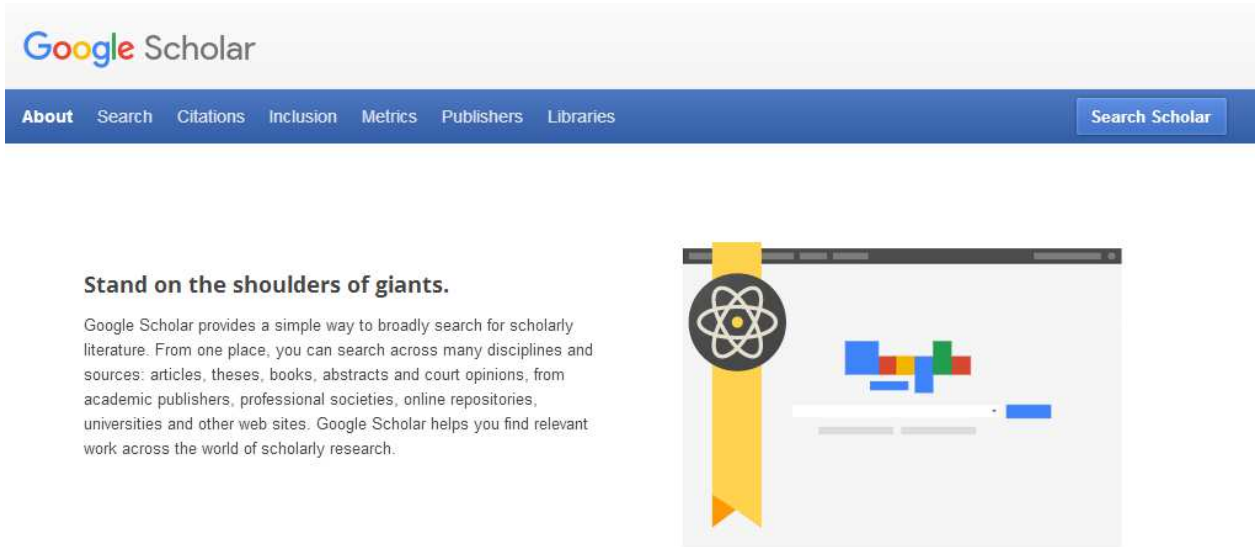

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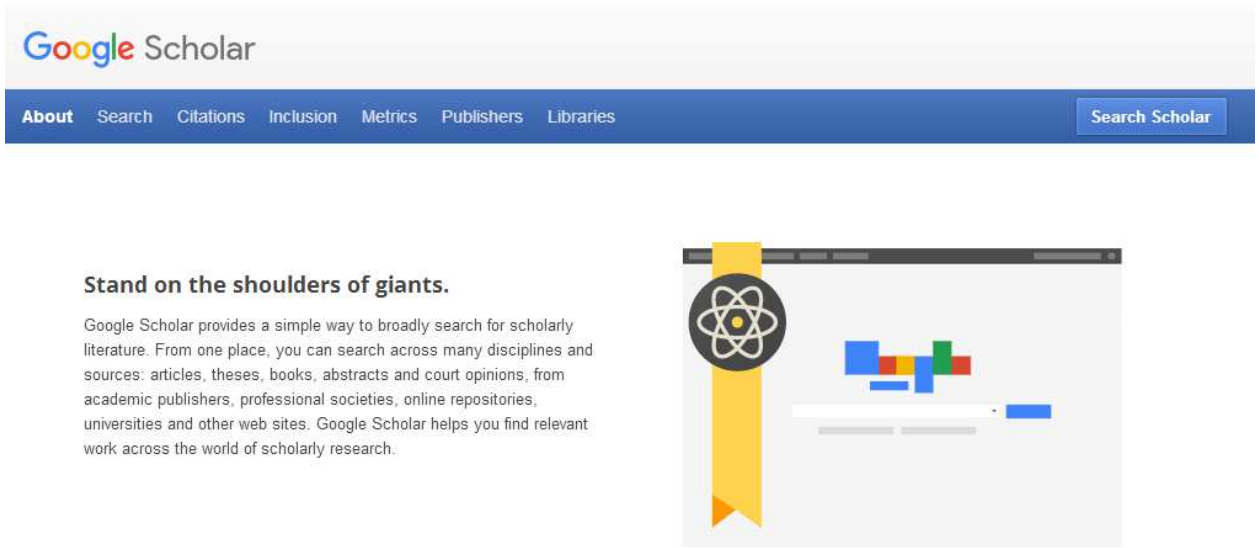

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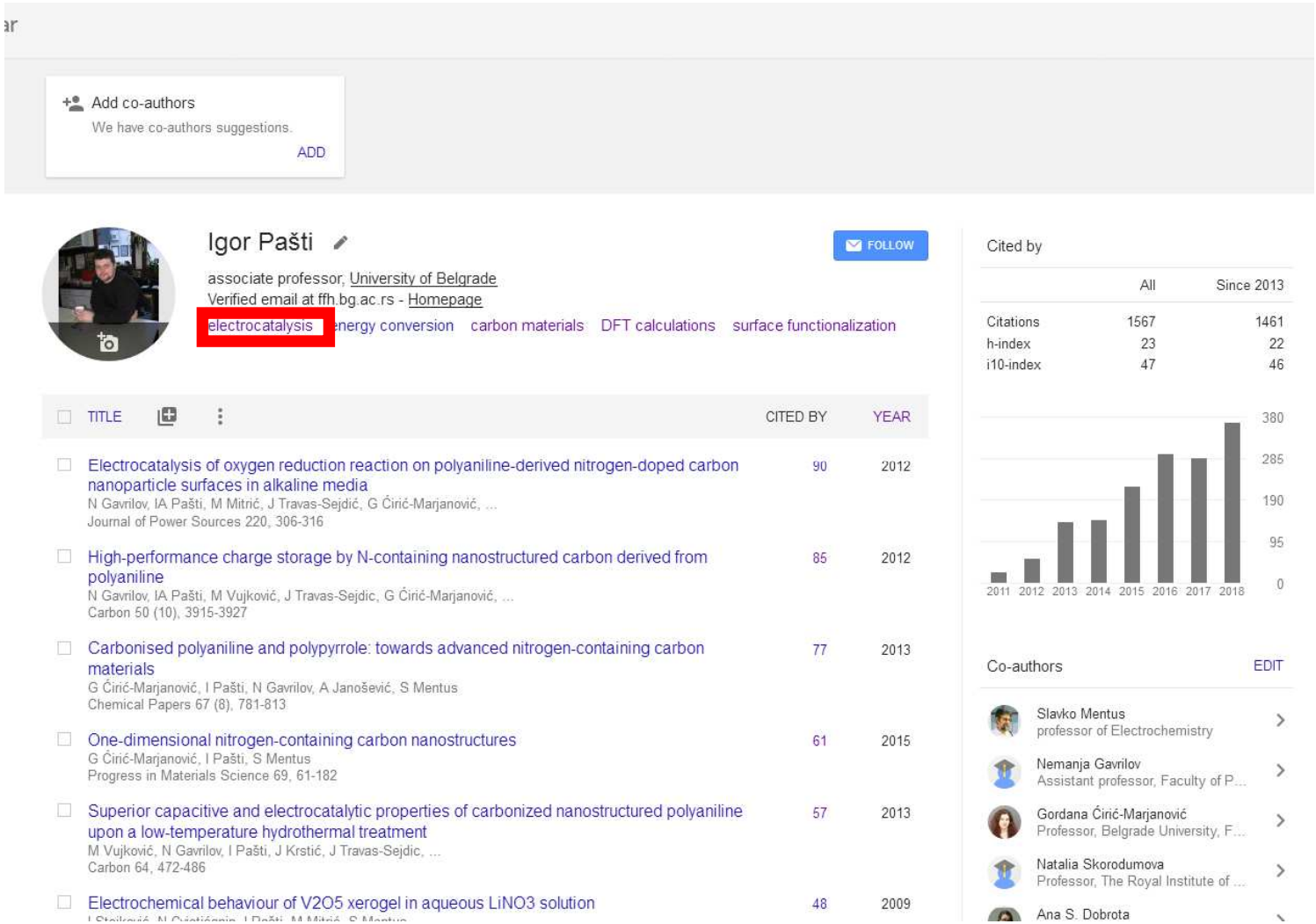

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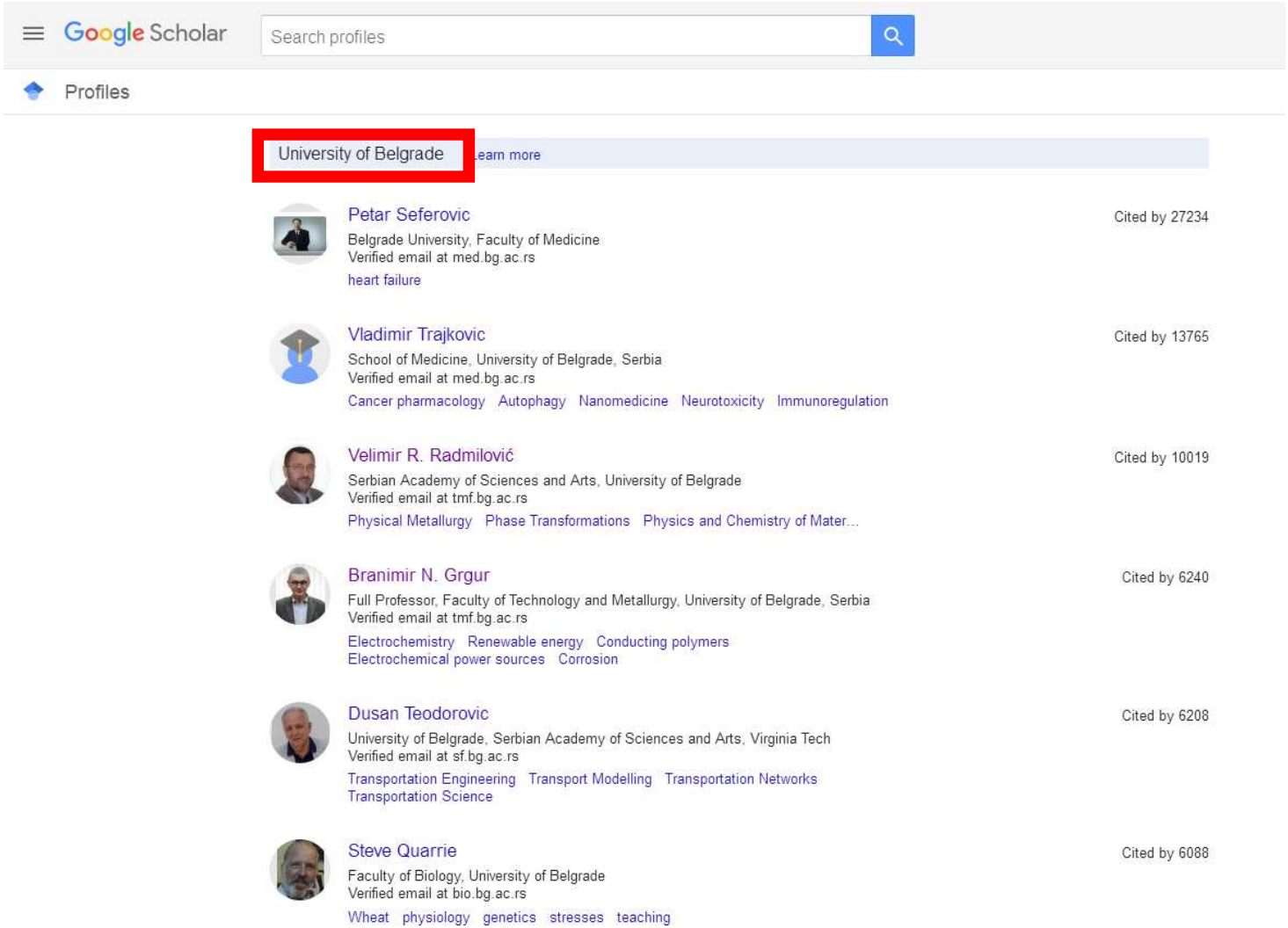

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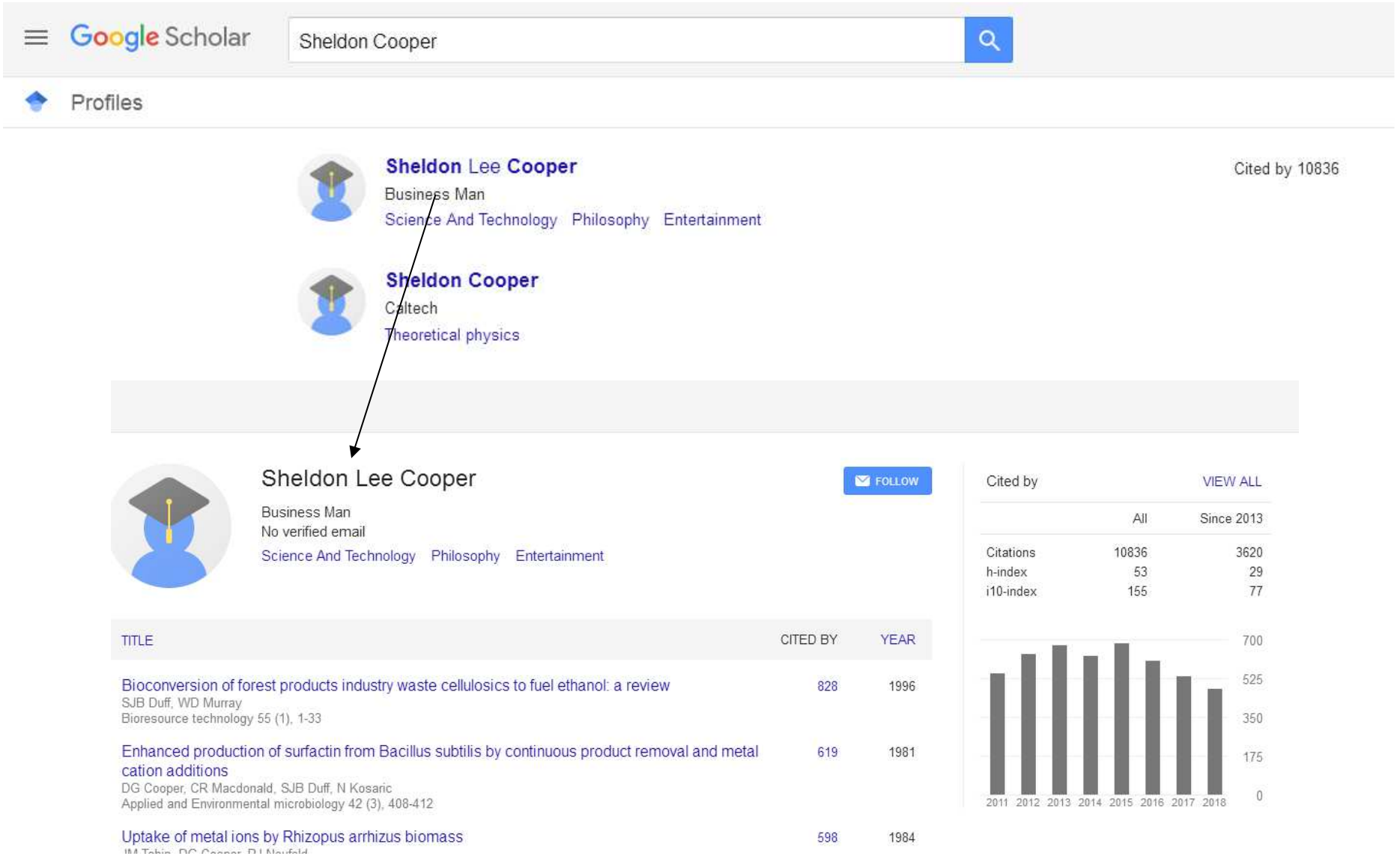

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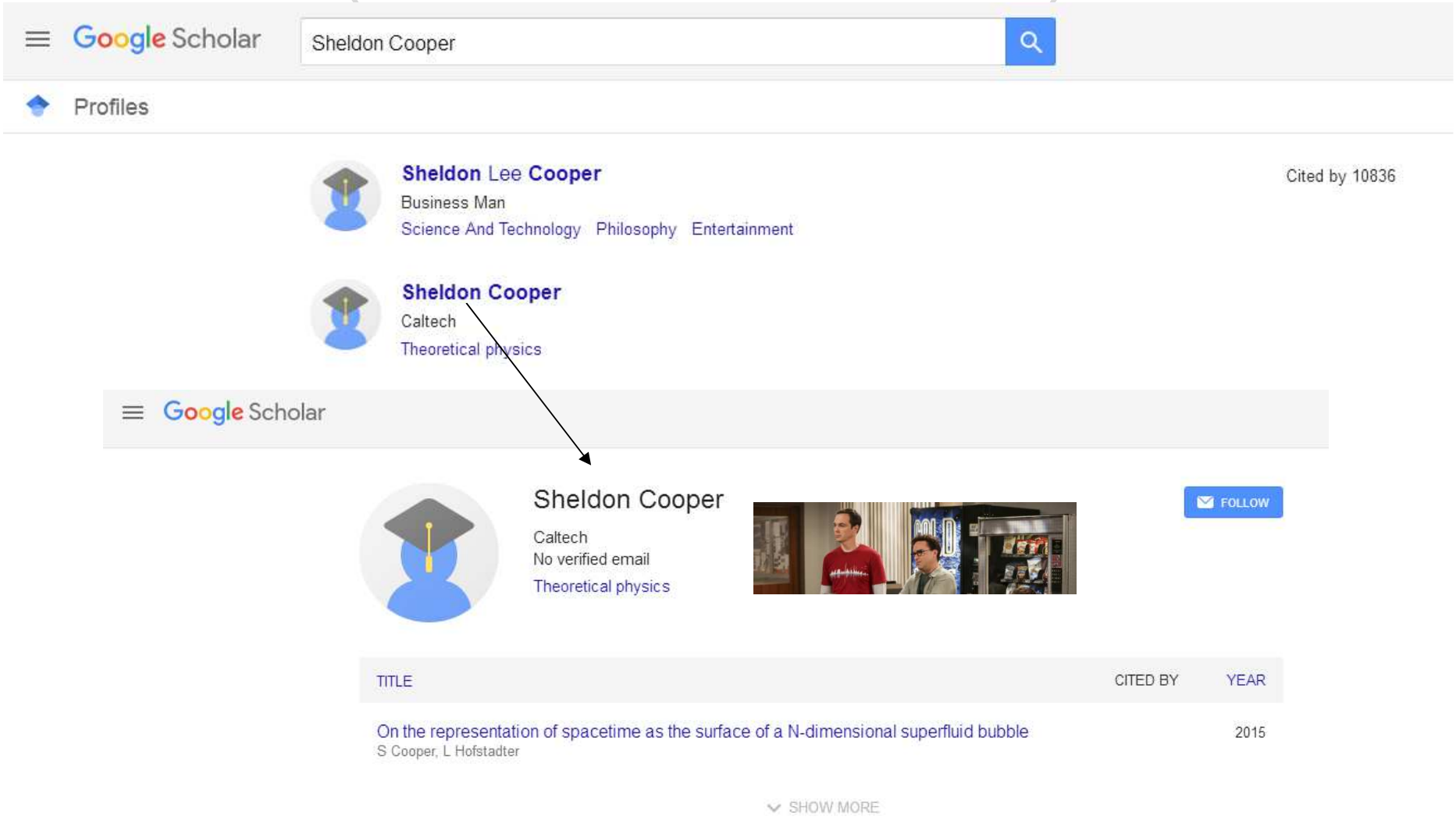

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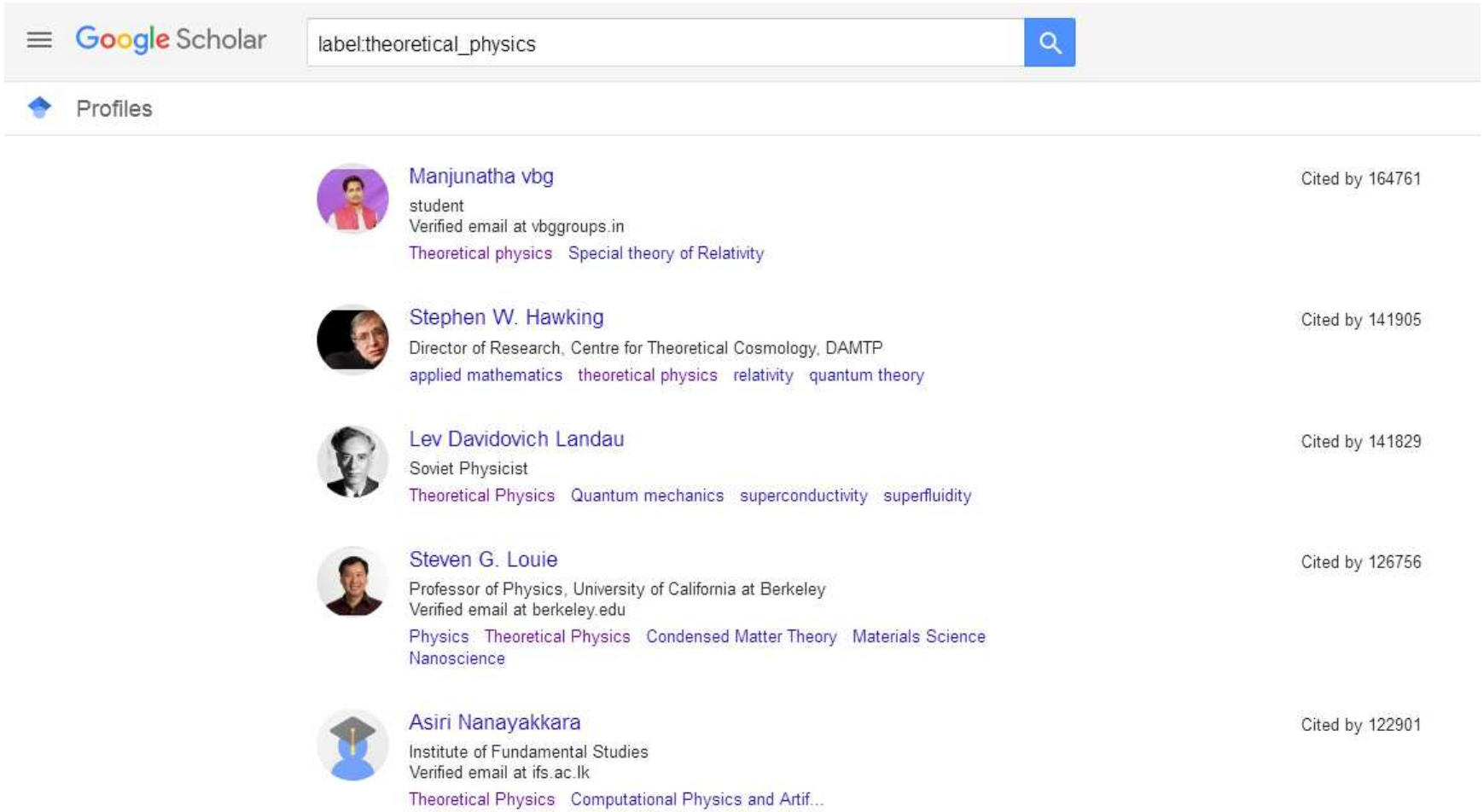

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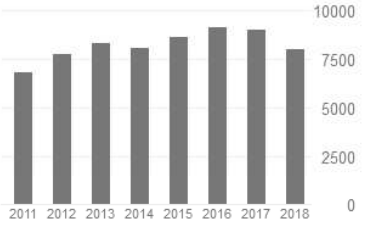

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- Google Scholar je odlična stvar
- Statistika
- Ograničene mogućnosti pretraživanja

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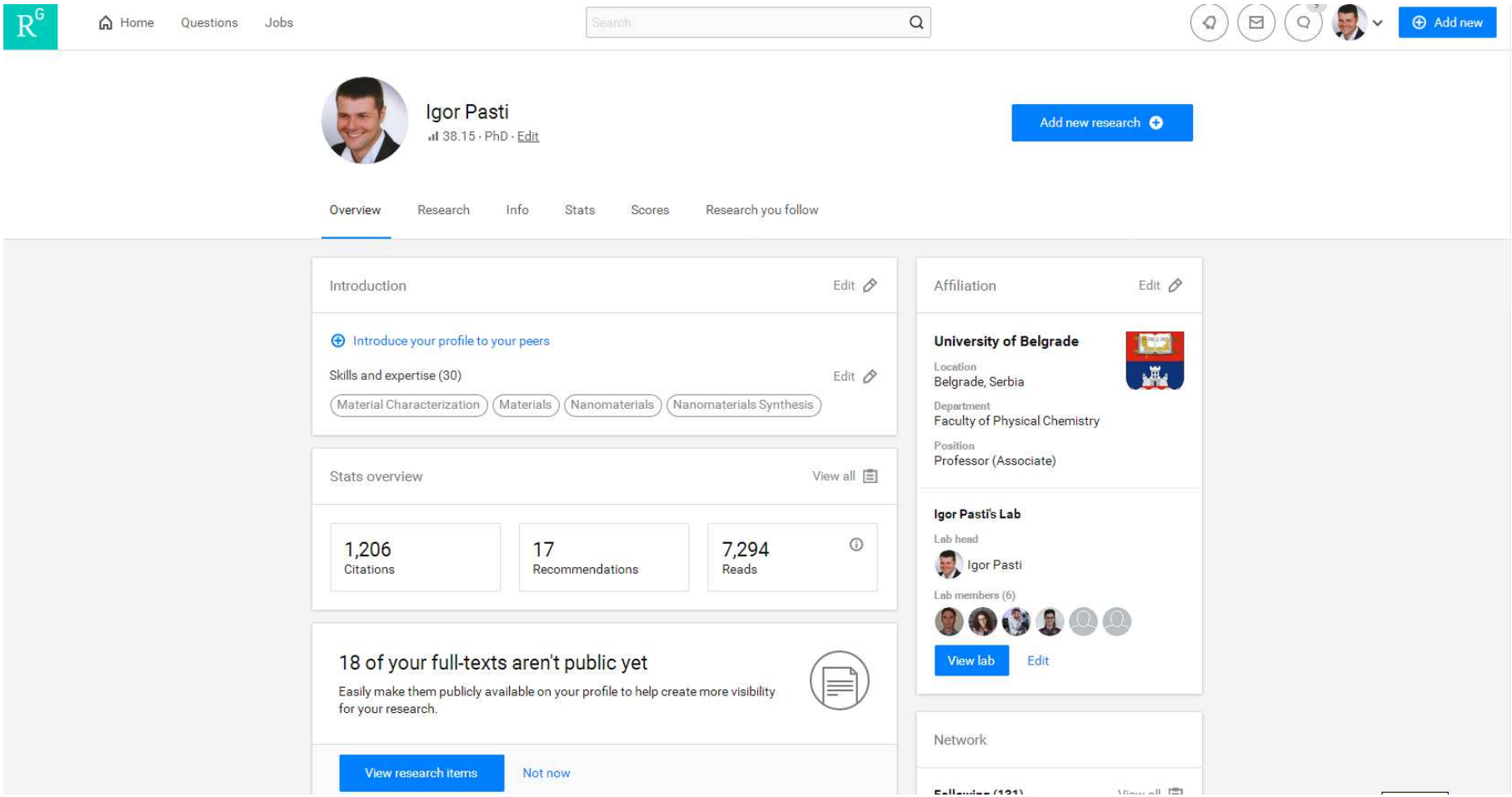

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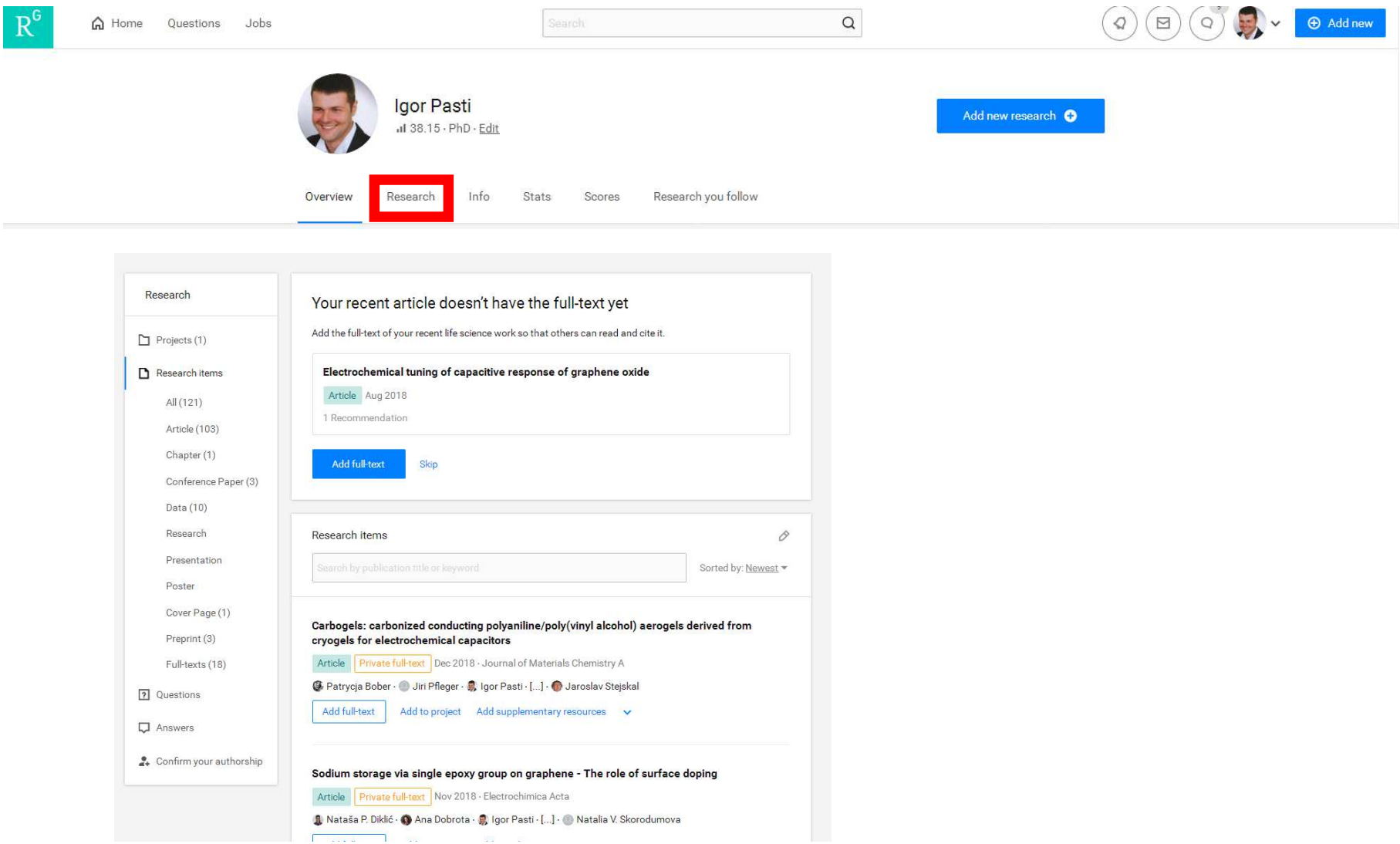

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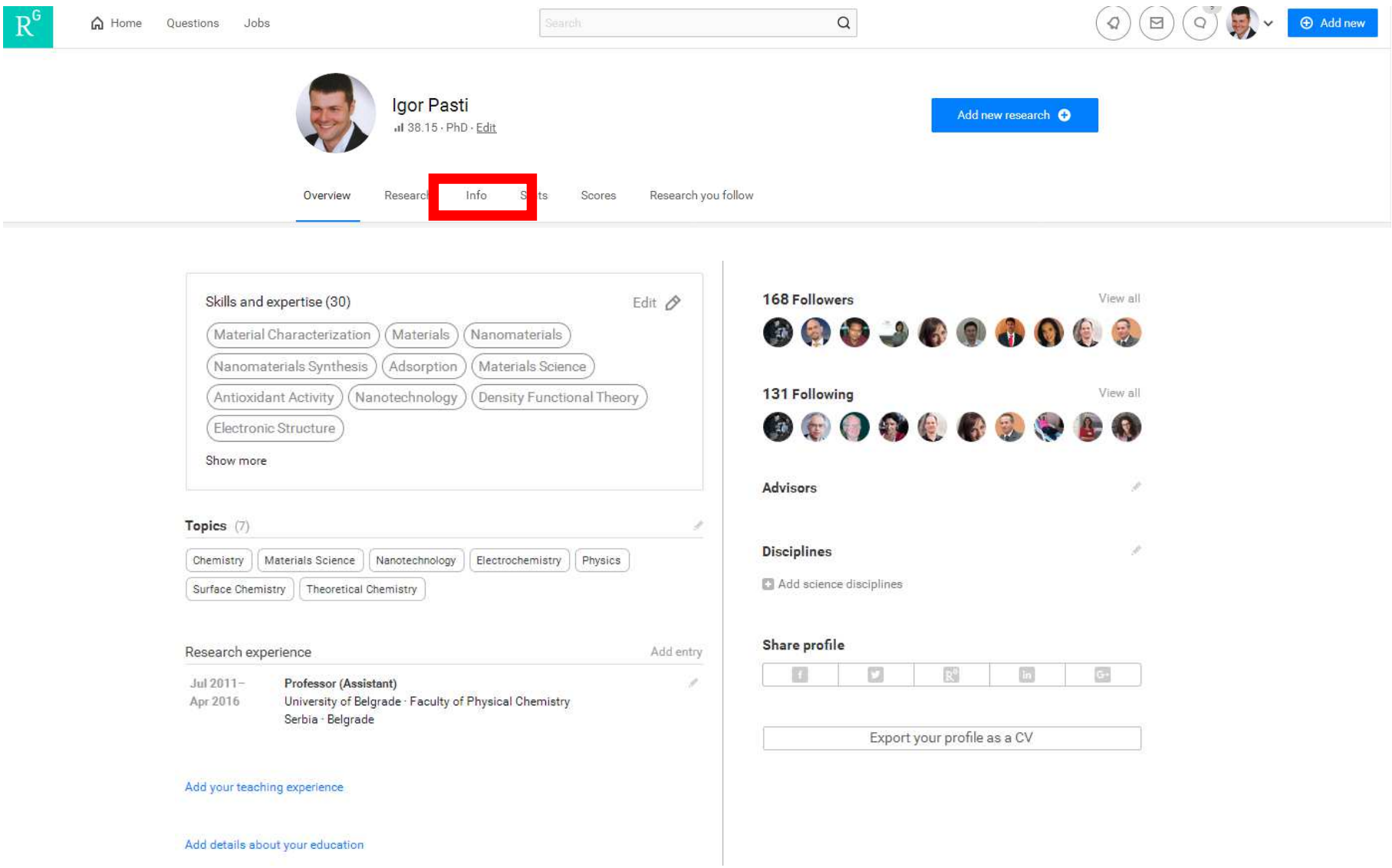

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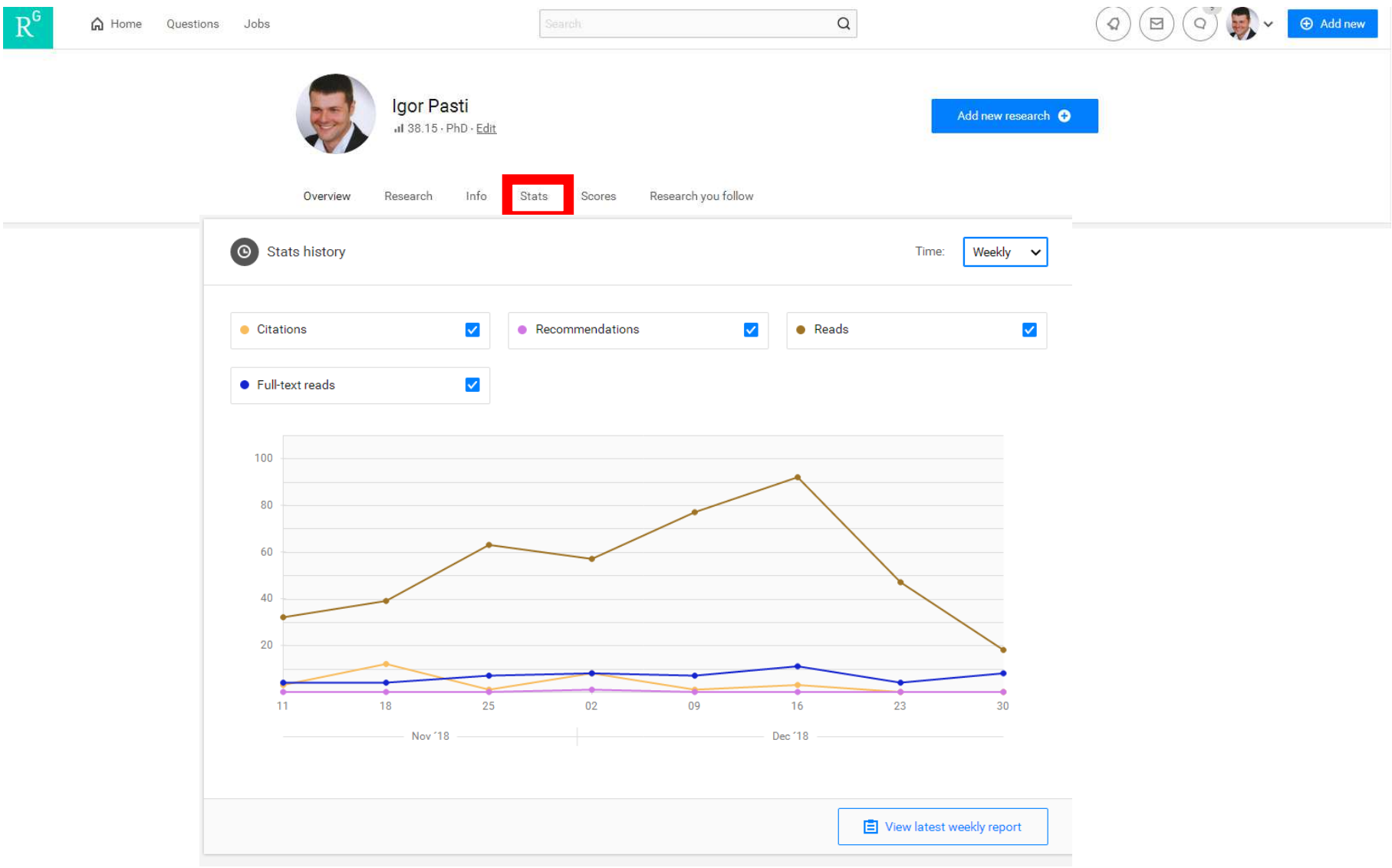

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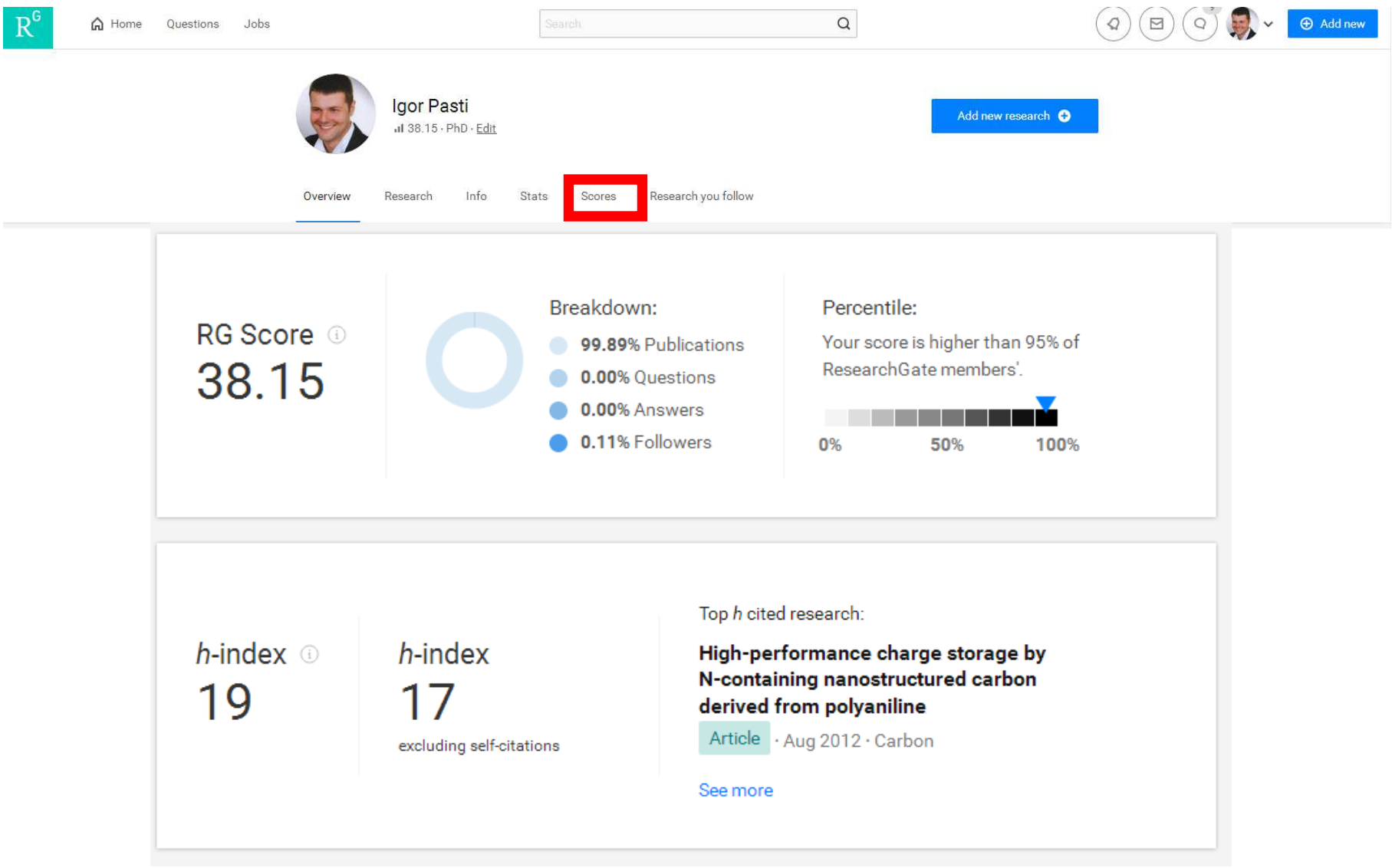

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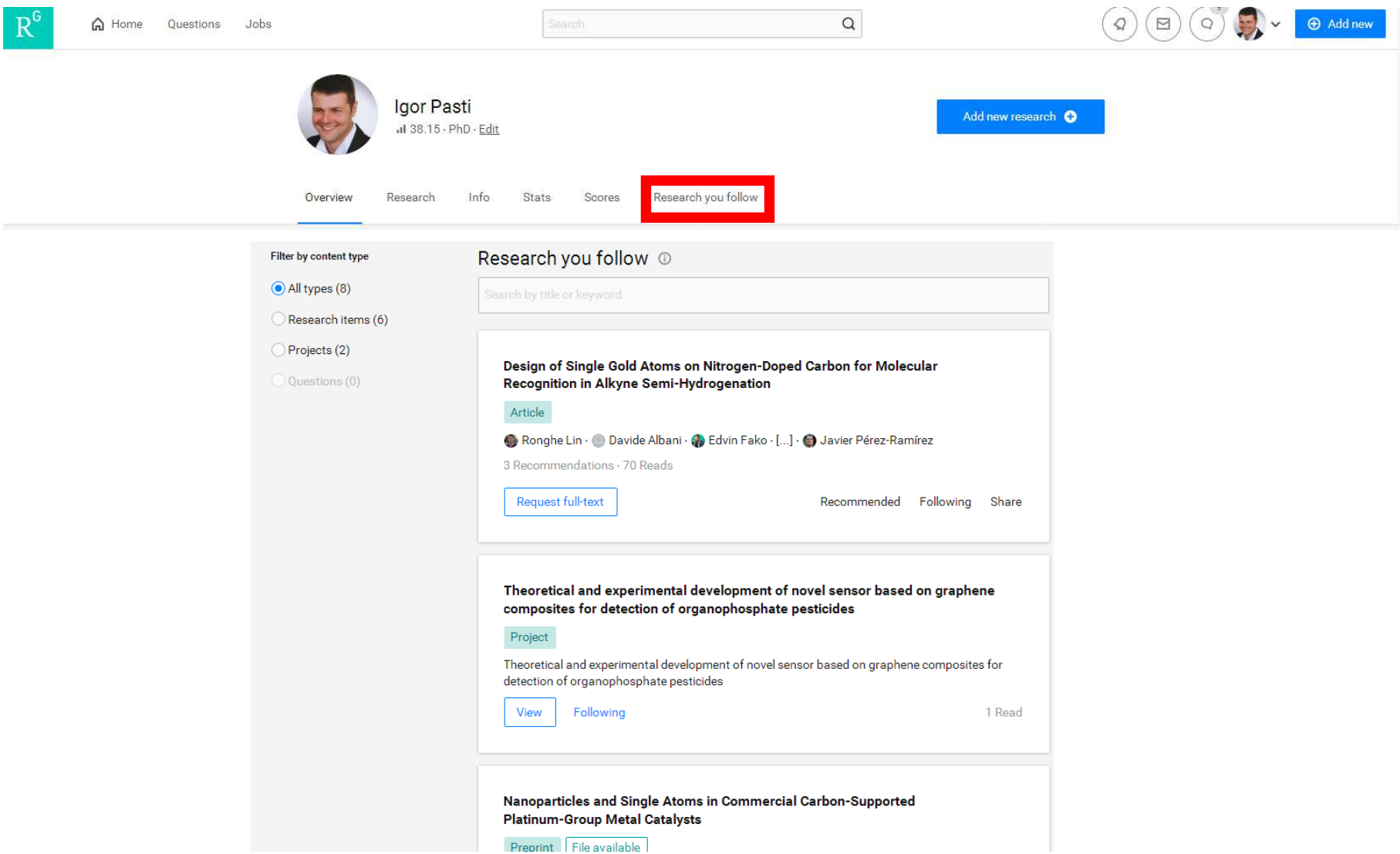

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I want to calculate activation energy for sintering of Al2O3 via constant heating rate method. I will choose three different heating rates. In all the papers I read, I can understand how to plot the graphs until ln(dT/dt * dp/dT * T) vs 1/T. But further i cannot understand how they calculate the activation energy from this plot, and how they use the slope of this graph to find the activation energy. Kindly

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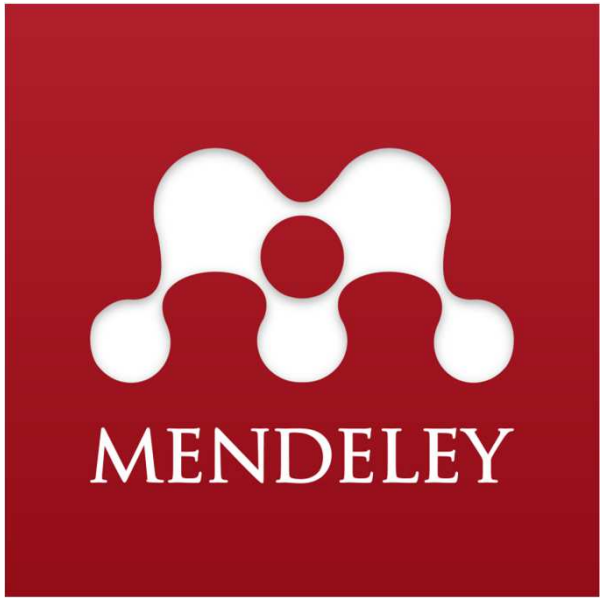

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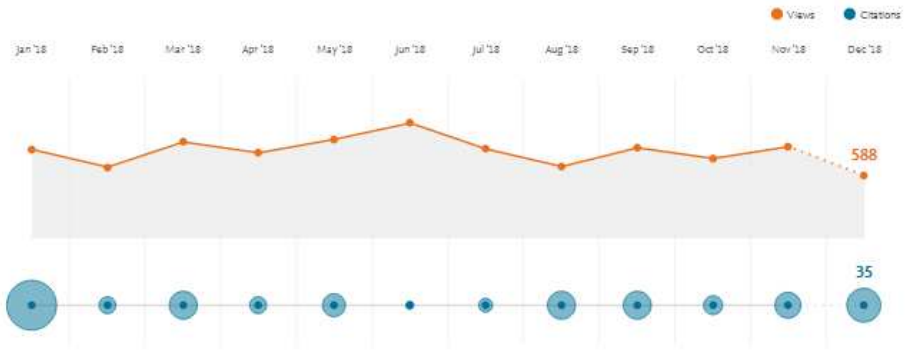

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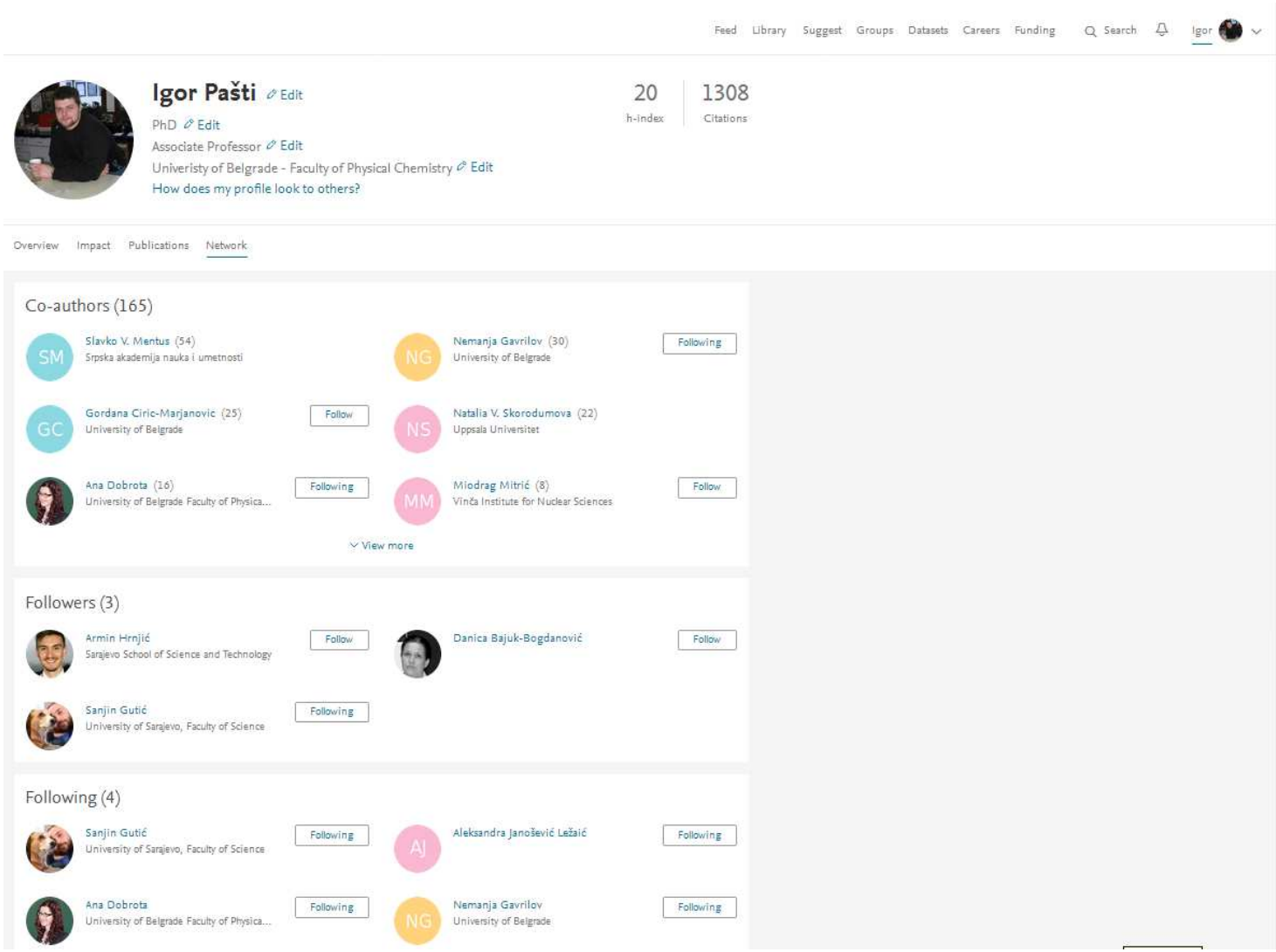
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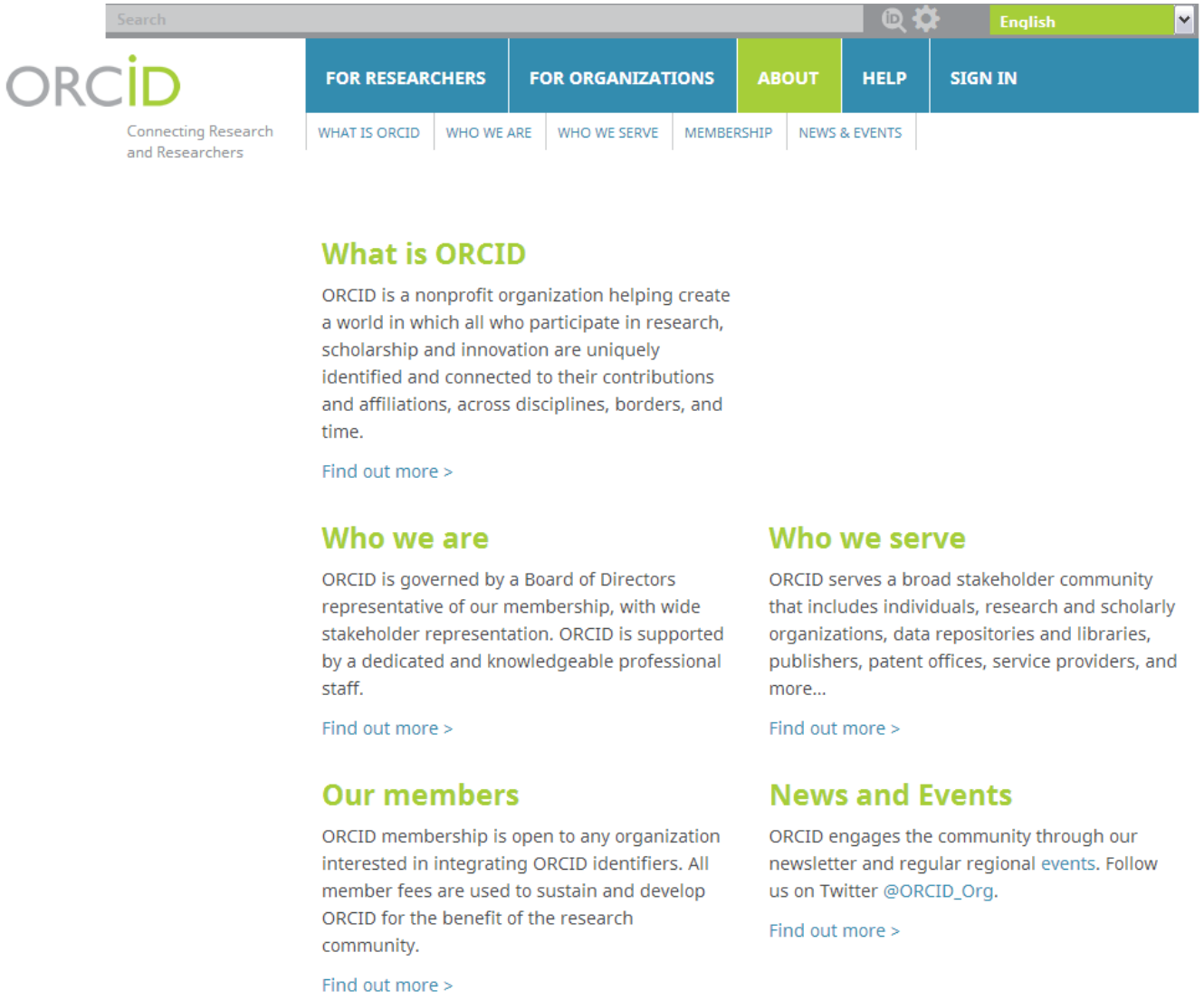

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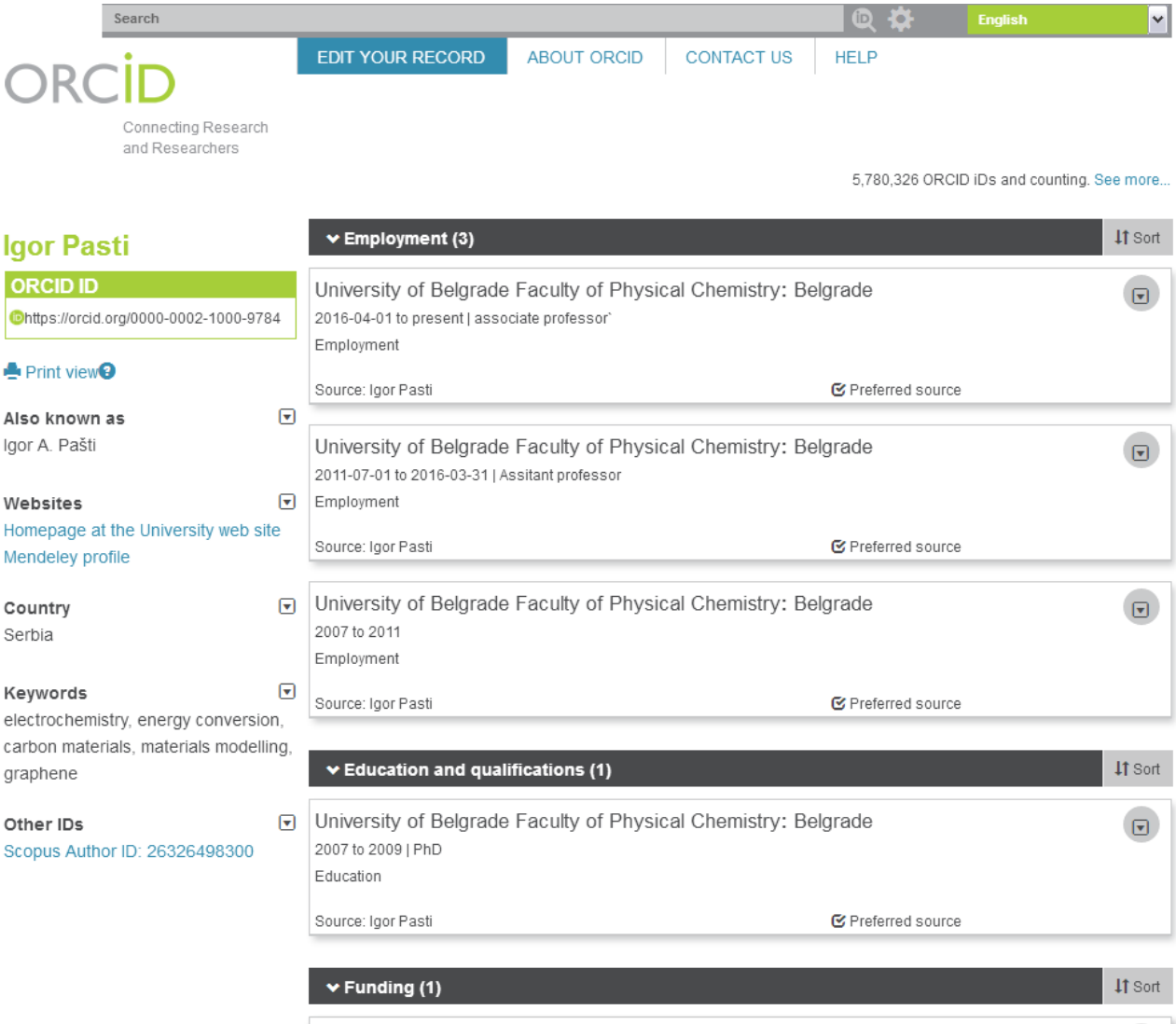
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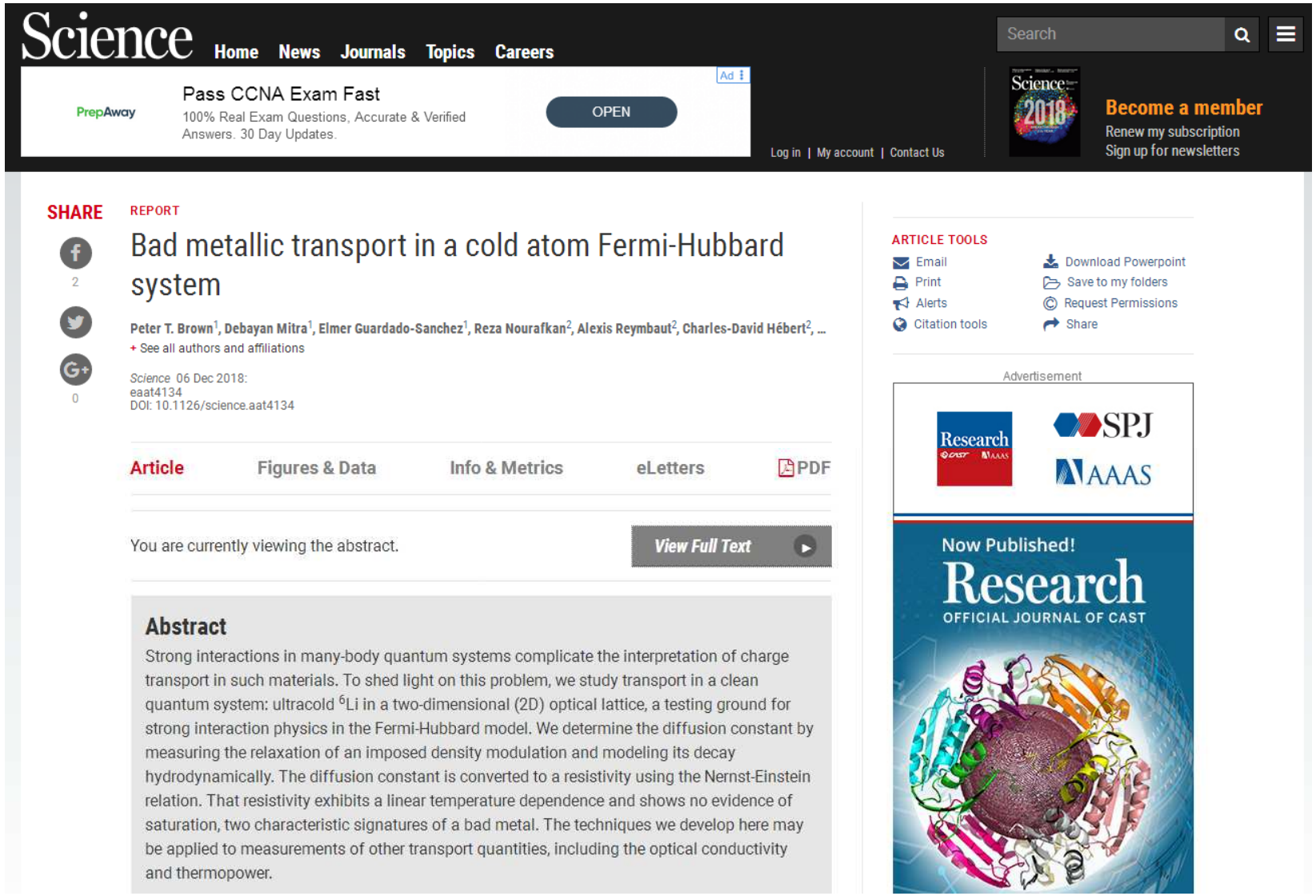

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Peter T. Brown[1], Debayan Mitra[1], Elmer Guardado-Sanchez[1], Reza Nourafkan[2], Alexis Reymbaut[2], Charles-David Hébert[2], S...
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Science 06 Dec 2018:
eaat4134
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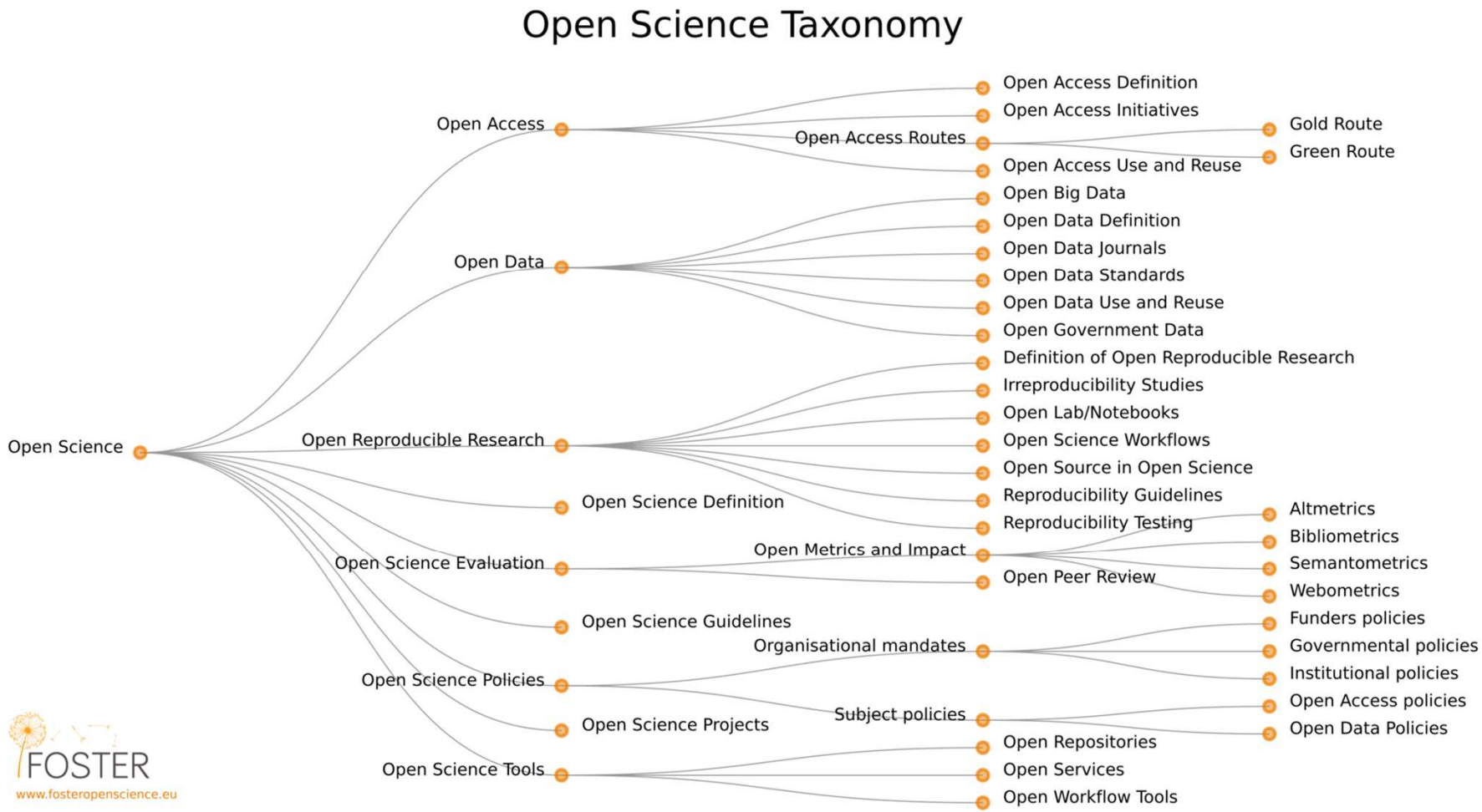

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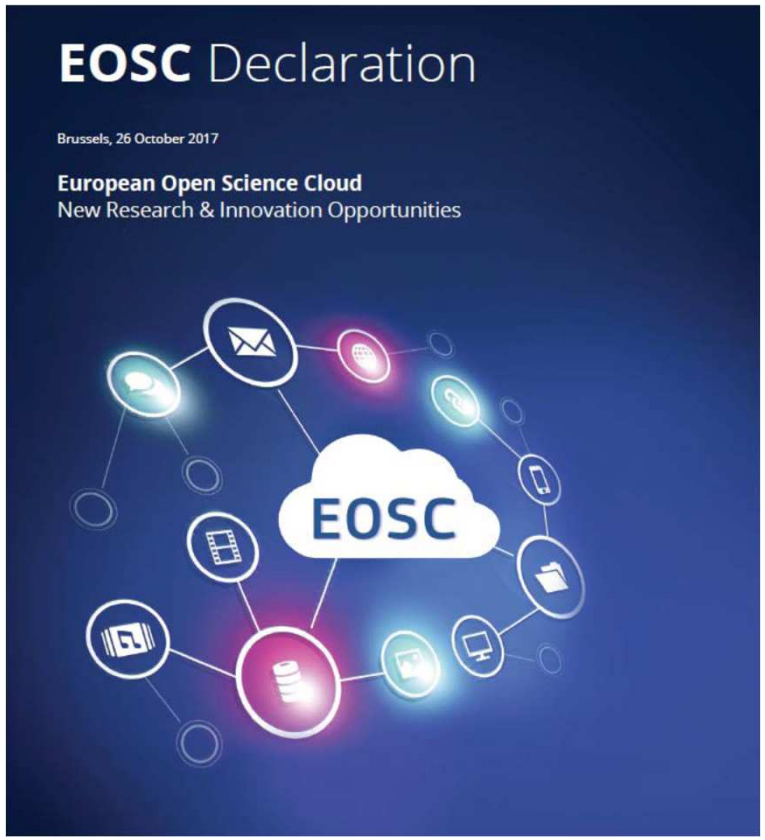

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The Director-General

Brussels, 26 October 2017

EOSC Declaration Action List

Data culture

European science must be grounded in a common culture of data stewardship, so that research data is recognised as a significant output of research and is appropriately curated throughout and after the period conducting the research. Only a considerable cultural change will enable long-term reuse for science and for innovation of data created by research activities: no disciplines, institutions or countries must be left behind.

- ✓ OpenAIRE offered to help to involve research libraries for policy alignment and for a user-driven approach that also reach the 'long tail of research'.

Skills

The necessary skills and education in research data management, data stewardship and data science should be provided throughout the EU as part of higher education, the training system and on-the-job best practice in the industry. University associations, research organisations, research libraries and other educational brokers play an important role but they need substantial support from the European Commission and the Member States.

- ✓ The League of European Research Universities (LERU) offered to raise awareness and help develop training activities for staff and doctoral students.

https://ec.europa.eu/research/openscience/index.cfm

Plan S

- The plan is structured around ten principles. The key principle states that by 2020, research funded by public grants must be published in open access journals or platforms. The ten principles are:

- authors should retain copyright on their publications, which must be published under an open license such as Creative Commons;
- the members of the coalition should establish robust criteria and requirements for compliant open access journals and platforms;
- they should also provide incentives for the creation of compliant open access journals and platforms if they do not yet exist;
- publication fees should be covered by the funders or universities, not individual researchers;
- such publication fees should be standardized and capped;
- universities, research organizations, and libraries should align their policies and strategies;
- for books and monographs, the timeline may be extended beyond 2020;
- open archives and repositories are acknowledged for their importance;
- hybrid open-access journals are not compliant with the key principle;
- members of the coalition should monitor and sanction non-compliance.

https://en.wikipedia.org/wiki/Plan_S

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Green – refers to self-archiving generally of the pre or post-print in repositories

Gold – refers to articles in fully accessible open access journals

Hybrid – some times called Paid Open Access, refers to subscription journals with open access to individual articles usually when a fee is paid to the publisher or journal by the author, the author's organization, or the research funder. Some of the fees are quite expensive, up to $5000. Some universities or libraries have a pool of funding available for hybrid journal publications or sometimes funding is written into grant applications for open access in hybrid journals, though these are not common instances.

https://research.library.gsu.edu/c.php?g=115588&p=754380

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- Though green open access generally refers to the post-print of an article, there are three basic version types that can be self archived in repositories:

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- **Publisher's Version** – The version that is formatted and appears in print or online.

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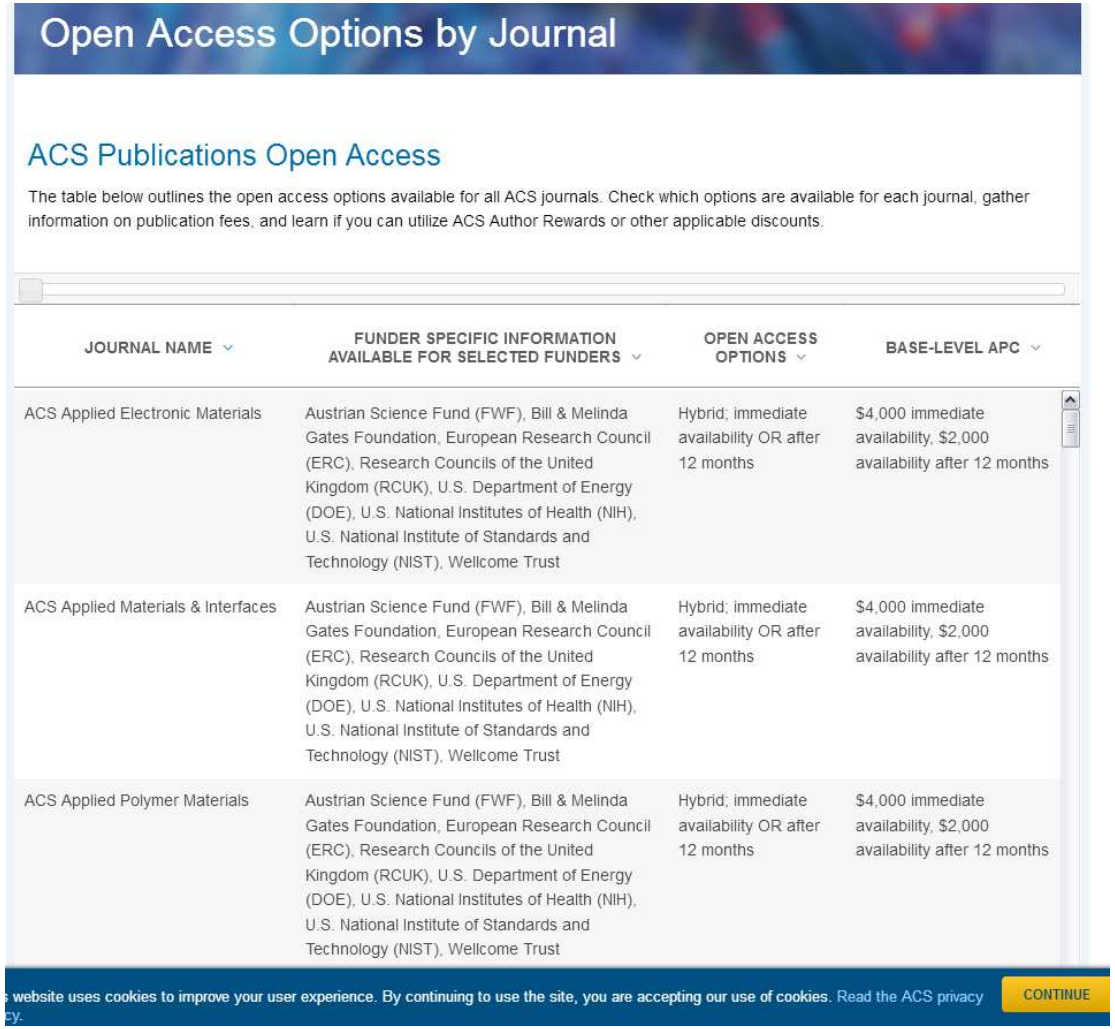

Open Access Options by Journal

ACS Publications Open Access

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ACS Applied Electronic Materials	Austrian Science Fund (FWF), Bill & Melinda Gates Foundation, European Research Council (ERC), Research Councils of the United Kingdom (RCUK), U.S. Department of Energy (DOE), U.S. National Institutes of Health (NIH), U.S. National Institute of Standards and Technology (NIST), Wellcome Trust	Hybrid; immediate availability OR after 12 months	$4,000 immediate availability, $2,000 availability after 12 months
ACS Applied Materials & Interfaces	Austrian Science Fund (FWF), Bill & Melinda Gates Foundation, European Research Council (ERC), Research Councils of the United Kingdom (RCUK), U.S. Department of Energy (DOE), U.S. National Institutes of Health (NIH), U.S. National Institute of Standards and Technology (NIST), Wellcome Trust	Hybrid; immediate availability OR after 12 months	$4,000 immediate availability, $2,000 availability after 12 months
ACS Applied Polymer Materials	Austrian Science Fund (FWF), Bill & Melinda Gates Foundation, European Research Council (ERC), Research Councils of the United Kingdom (RCUK), U.S. Department of Energy (DOE), U.S. National Institutes of Health (NIH), U.S. National Institute of Standards and Technology (NIST), Wellcome Trust	Hybrid; immediate availability OR after 12 months	$4,000 immediate availability, $2,000 availability after 12 months

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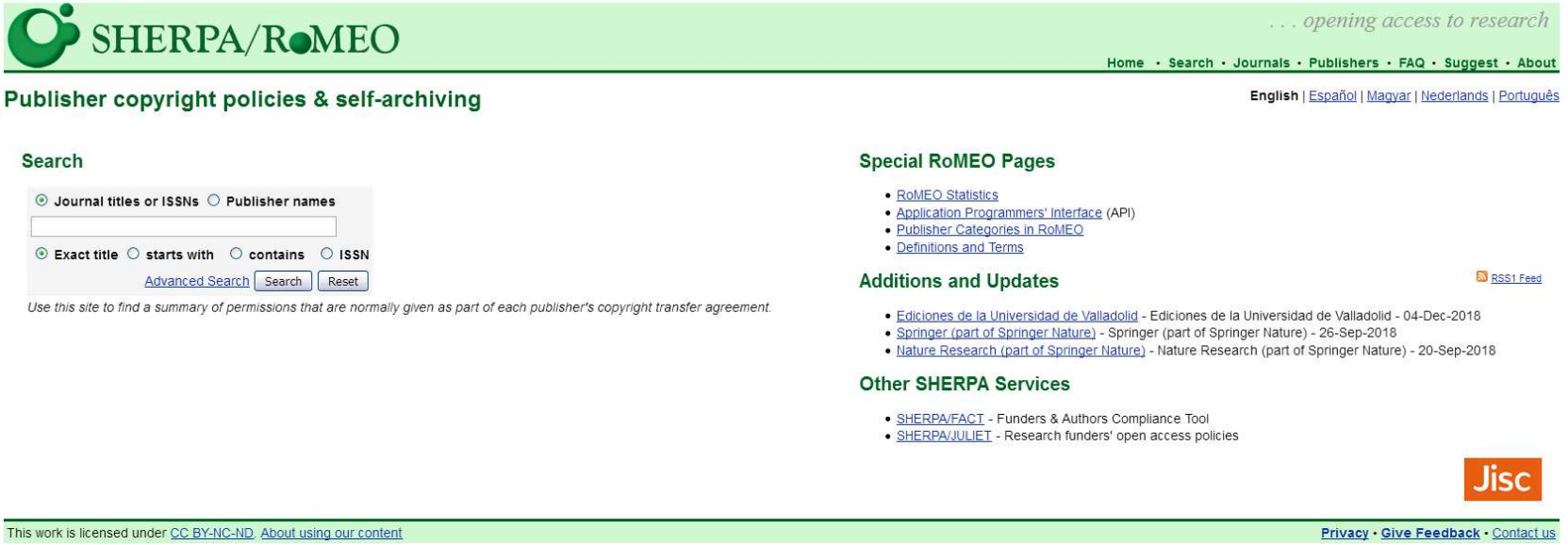

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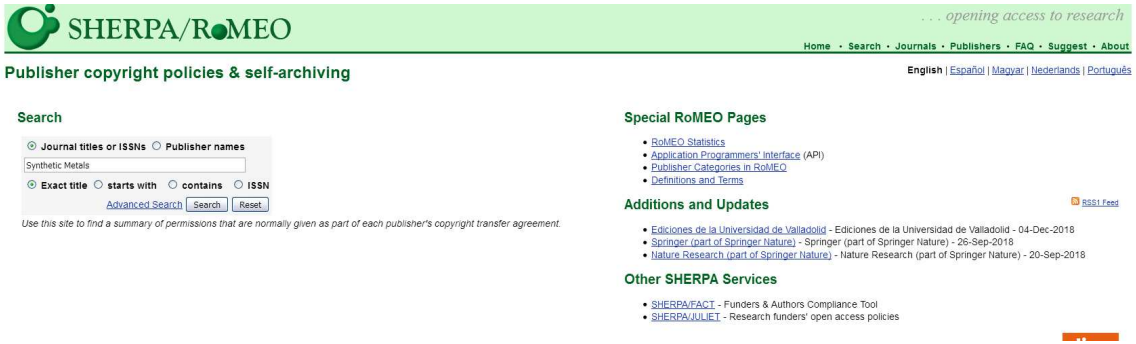

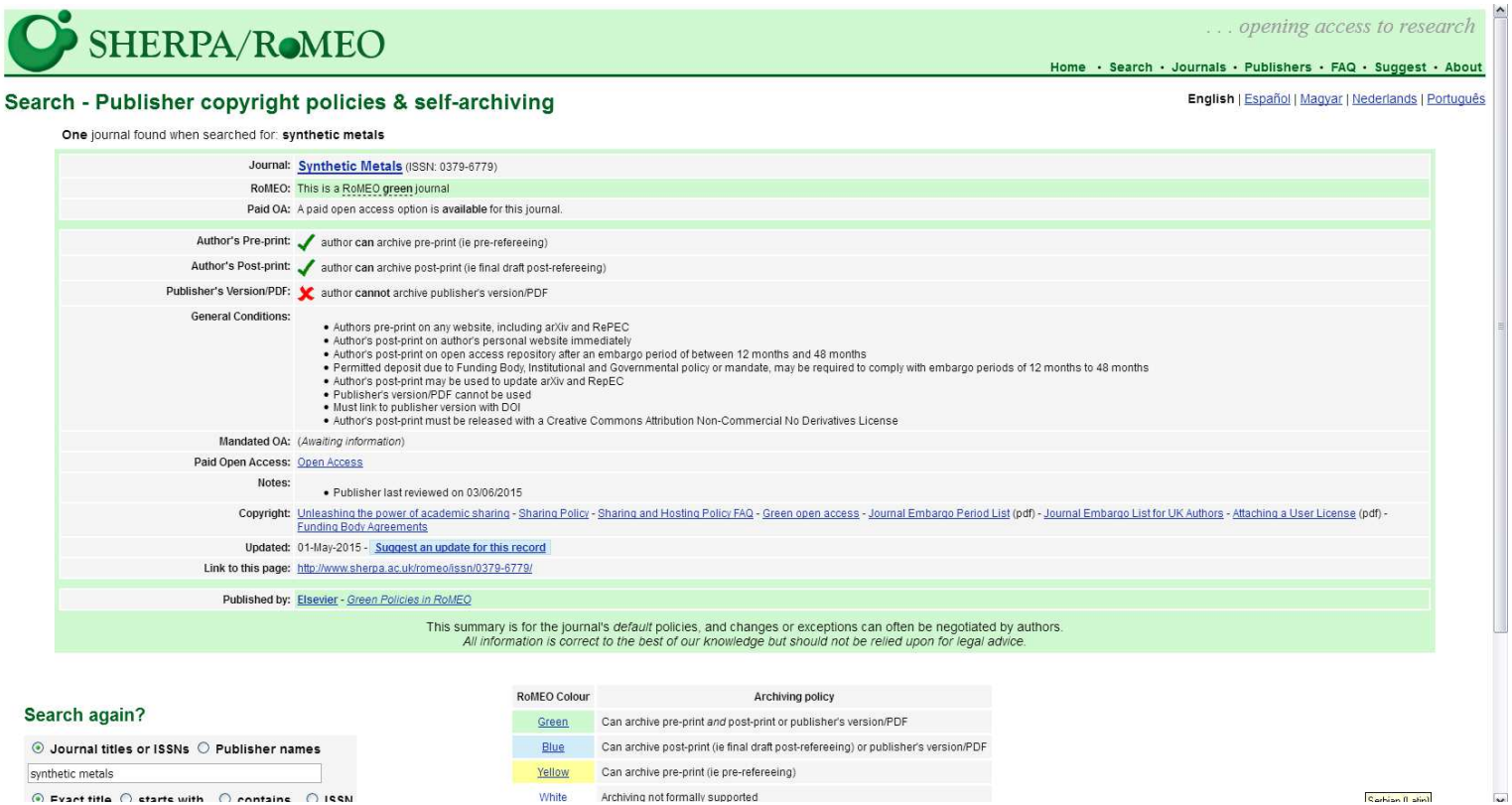

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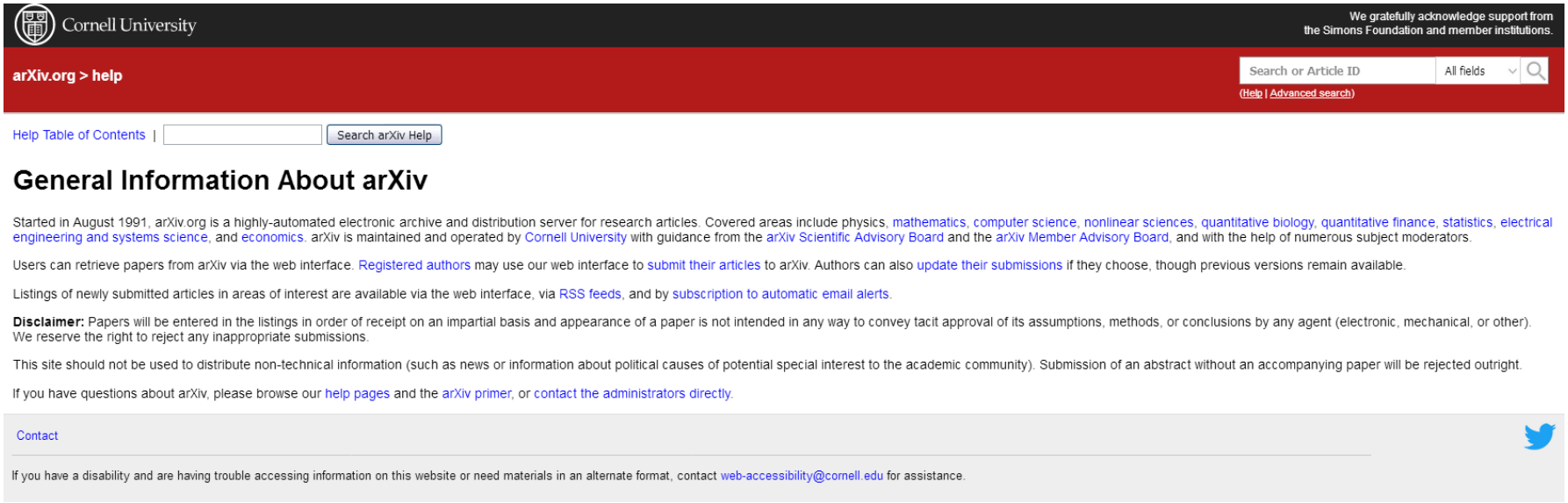

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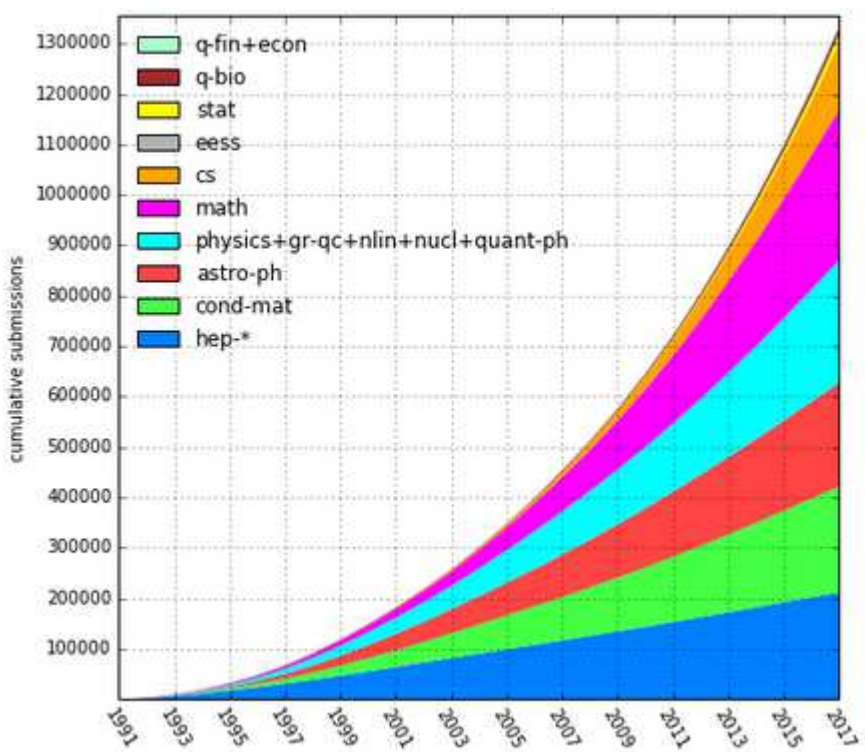

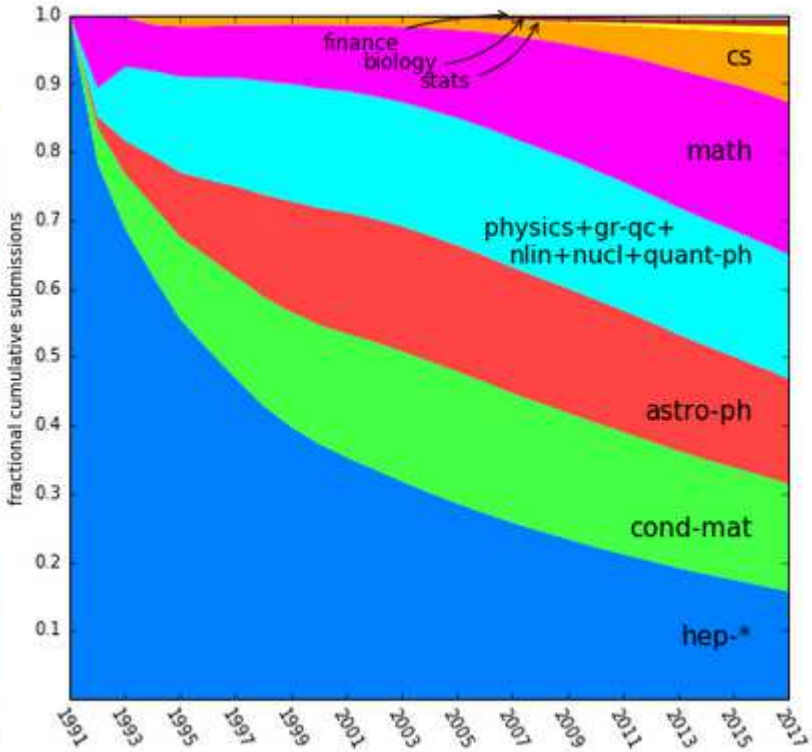

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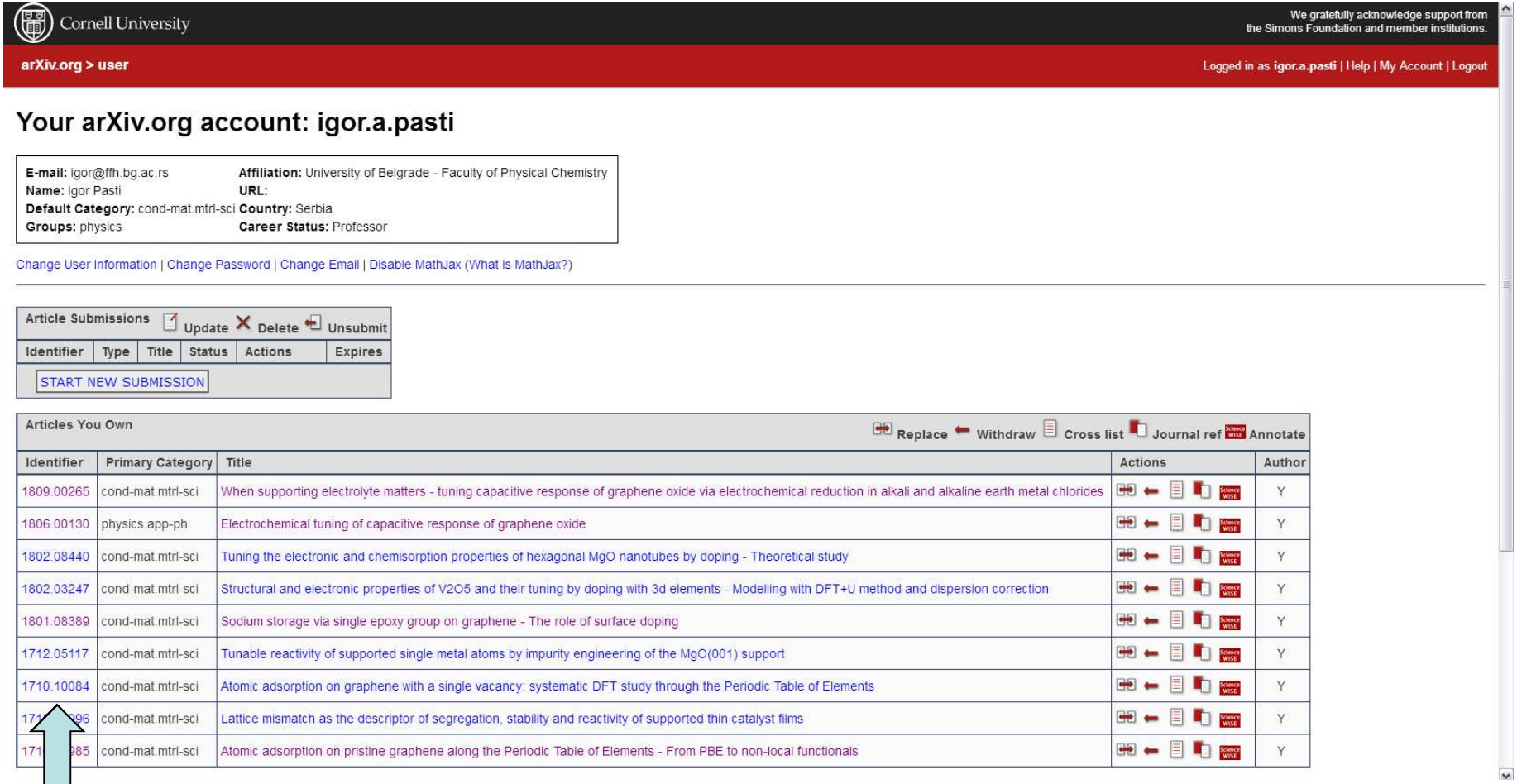

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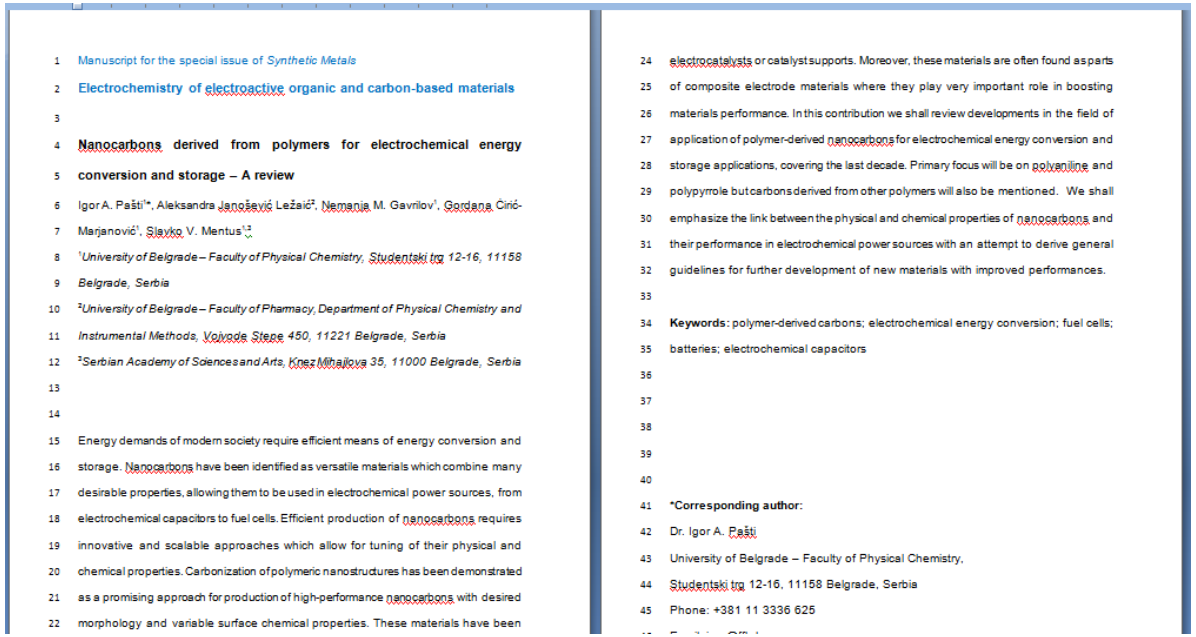

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Energy demands of modern society require efficient means of energy conversion and storage. Nanocarbons have been identified as versatile materials which combine many desirable properties, allowing them to be used in electrochemical power sources, from electrochemical capacitors to fuel cells. Efficient production of nanocarbons requires innovative and scalable approaches which allow for tuning of their physical and chemical properties. Carbonization of polymeric nanostructures has been demonstrated as a promising approach for production of high-performance nanocarbons with desired morphology and variable surface chemical properties. These materials have been electrocatalysts or catalyst supports. Moreover, these materials are often found as parts of composite electrode materials where they play very important role in boosting materials performance. In this contribution we shall review developments in the field of application of polymer-derived nanocarbons for electrochemical energy conversion and storage applications, covering the last decade. Primary focus will be on polyaniline and polypyrrole but carbons derived from other polymers will also be mentioned. We shall emphasize the link between the physical and chemical properties of nanocarbons and their performance in electrochemical power sources with an attempt to derive general guidelines for further development of new materials with improved performances.

Keywords: polymer-derived carbons; electrochemical energy conversion; fuel cells; batteries; electrochemical capacitors

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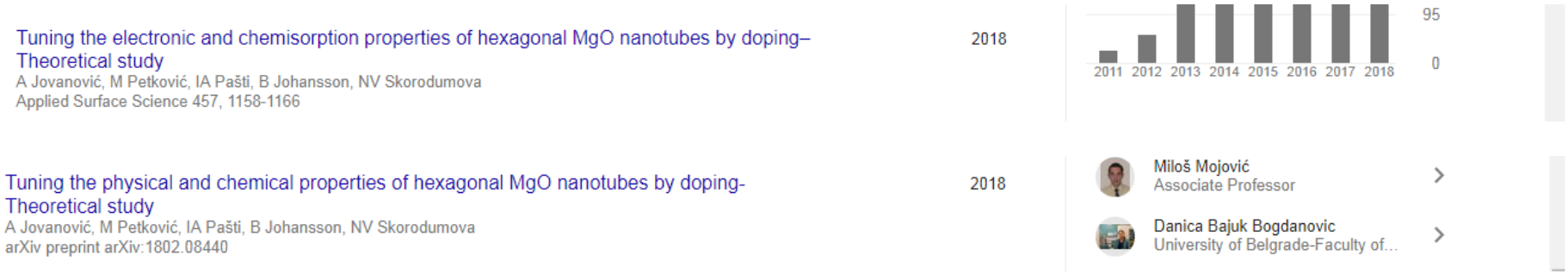

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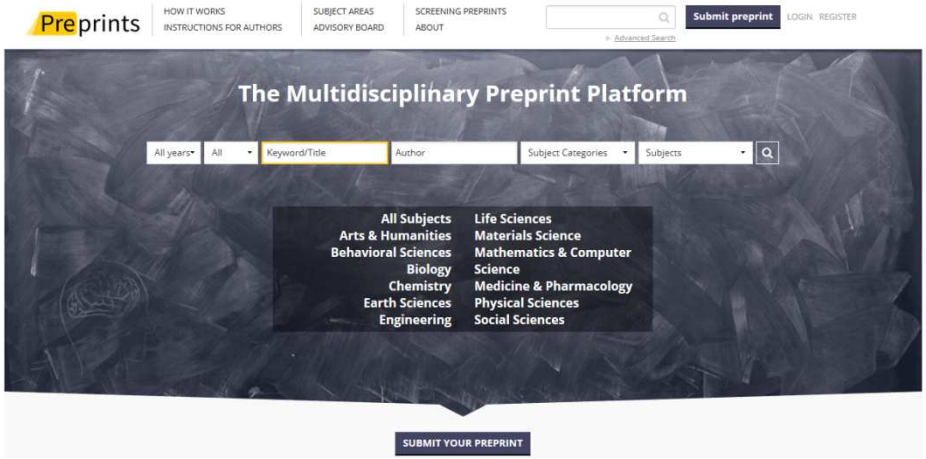

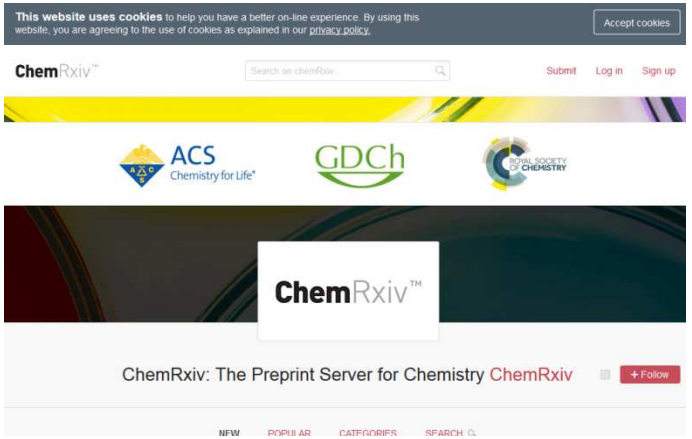

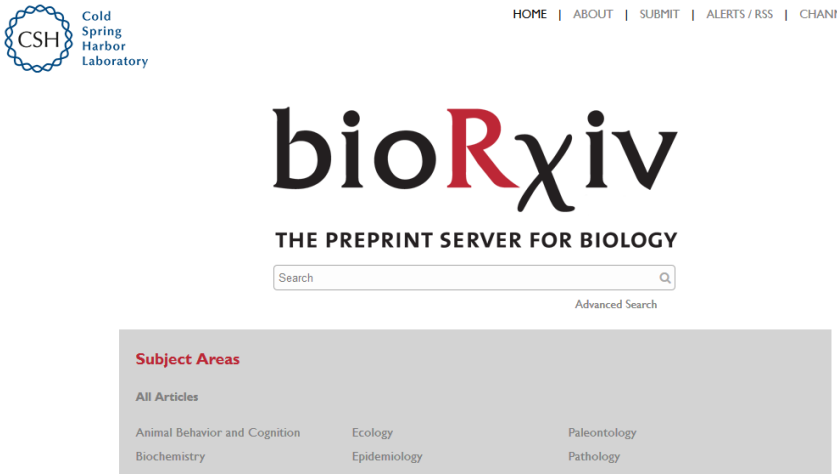

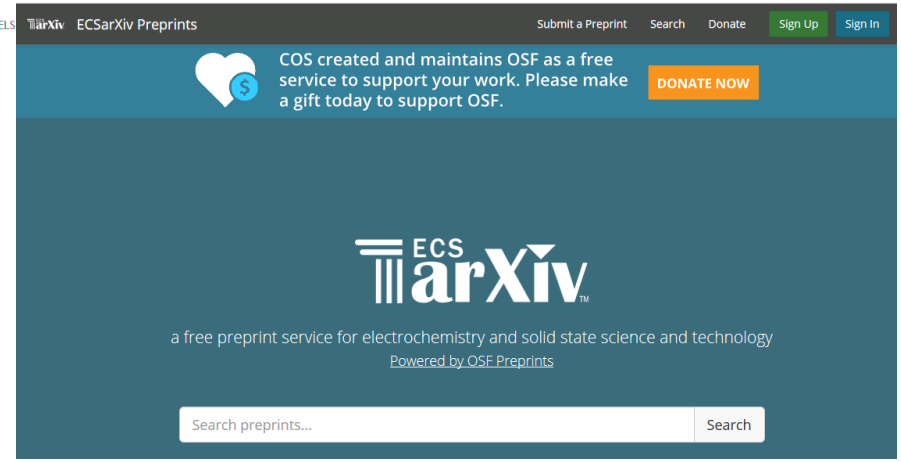

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