

“Društvene mreže” istraživača

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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)

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- 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](#))
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 - Open peer review
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- Names of reviewers/editors may be visible to authors
- Reviewers' reports may be published
- Editorial decision/comments may be public

Timing and Location



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- Review submitted on preprint server prior to author submission to journal
- Review submitted through journal peer review system after author submission to journal
- Reviews accompany manuscript when transferred to a different journal within publisher/society/subject network



Post-publication

- Alongside published article as formal part of editorial process
- Informal: blogs, social media, etc.

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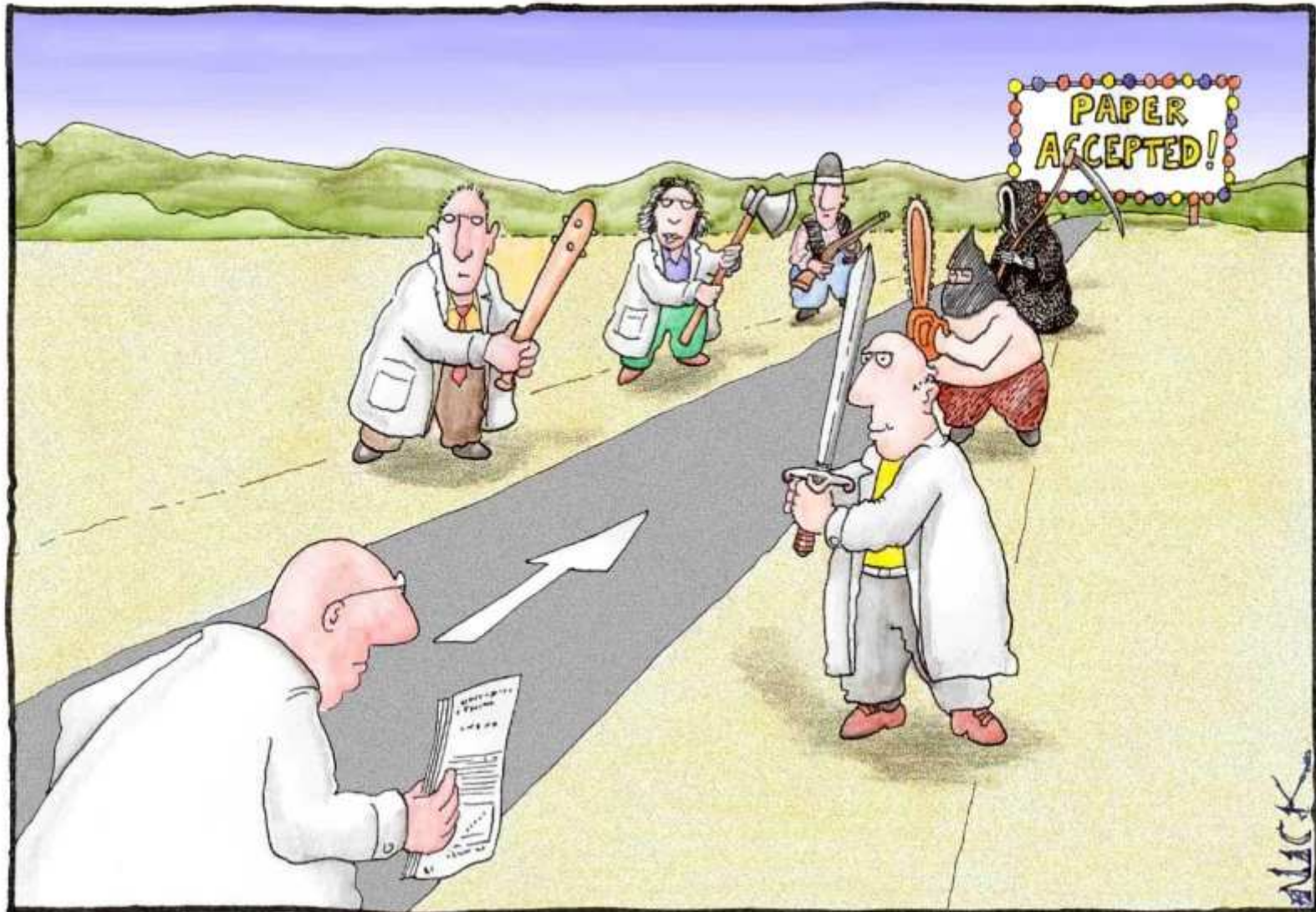
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Surface and Coatings Technology
Volume 349, 15 September 2018, Pages 511-521

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}

^aUniversity of Belgrade – Faculty of Physical Chemistry, Studentski trg 12-16, Belgrade, 11158, Serbia

^bUniversity of Belgrade, Institute of Nuclear Sciences "Vinča", P. O. Box 522, Belgrade, 11000, Serbia

^cInnovation 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 N₂-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 O₂ 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 O₂ molecule and contribute to the decomposition of peroxide. © 2018 Elsevier B.V.

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
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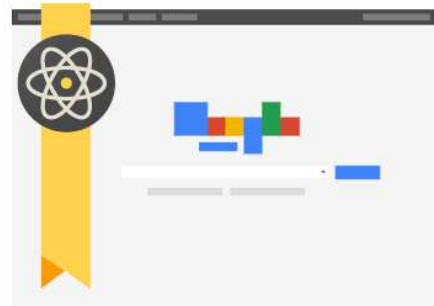
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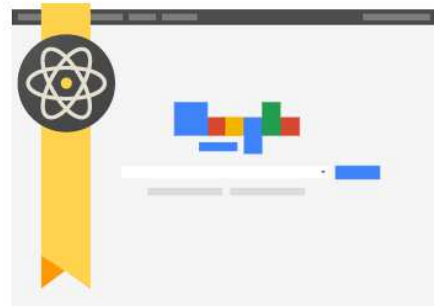
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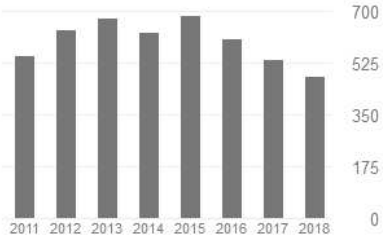


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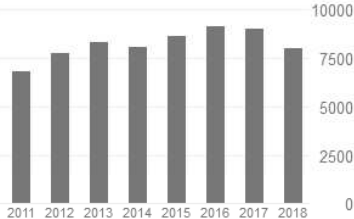
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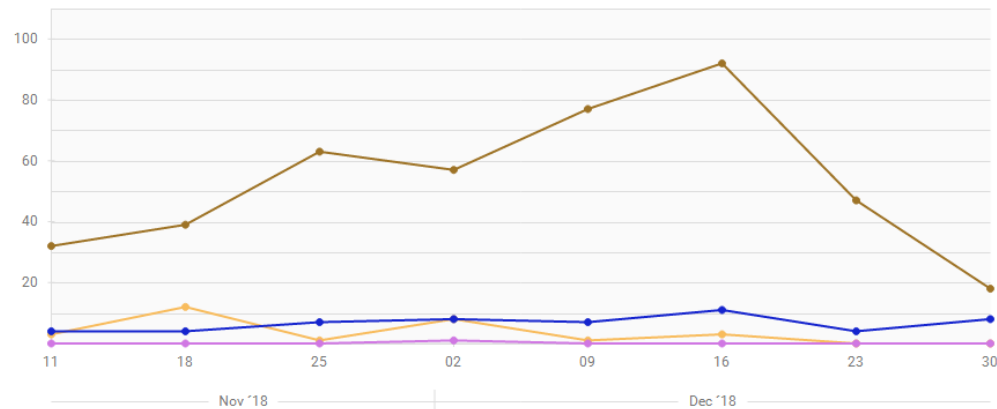
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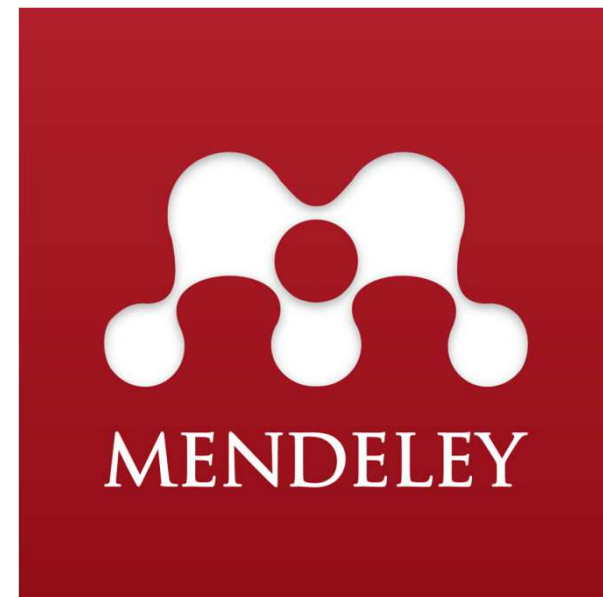
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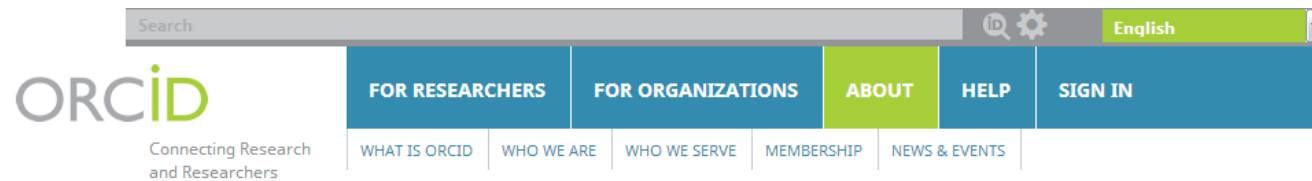
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Bad metallic transport in a cold atom Fermi-Hubbard system

Peter T. Brown¹, Debayan Mitra¹, Elmer Guardado-Sanchez¹, Reza Nourafkan², Alexis Reymbaut², Charles-David Hébert², ...
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Science 06 Dec 2018:
eaat4134
DOI: 10.1126/science.aat4134

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Strong interactions in many-body quantum systems complicate the interpretation of charge transport in such materials. To shed light on this problem, we study transport in a clean quantum system: ultracold ⁶Li in a two-dimensional (2D) optical lattice, a testing ground for strong interaction physics in the Fermi-Hubbard model. We determine the diffusion constant by measuring the relaxation of an imposed density modulation and modeling its decay hydrodynamically. The diffusion constant is converted to a resistivity using the Nernst-Einstein relation. That resistivity exhibits a linear temperature dependence and shows no evidence of saturation, two characteristic signatures of a bad metal. The techniques we develop here may be applied to measurements of other transport quantities, including the optical conductivity and thermopower.

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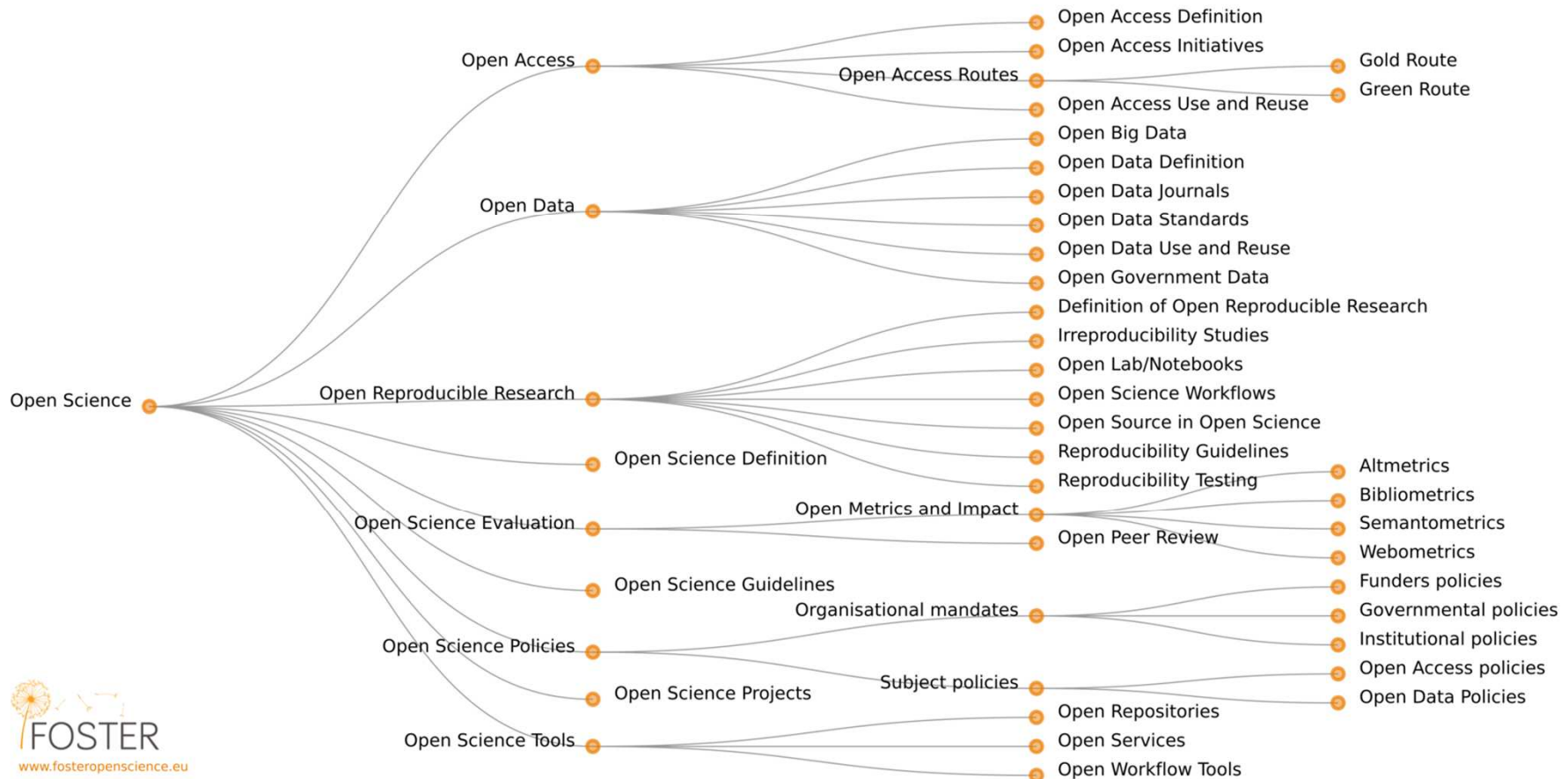
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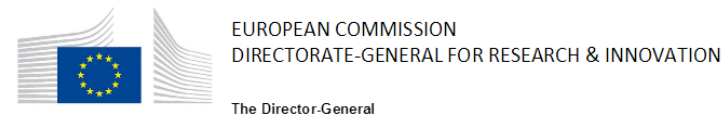
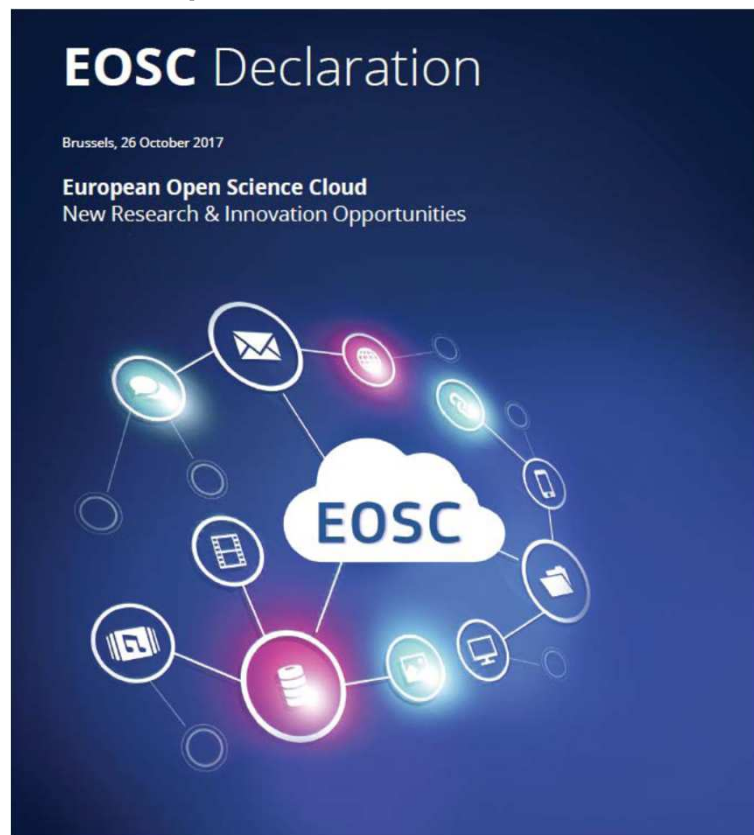
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Brussels, 26 October 2017

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.

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There are many types of open access, perhaps because it is such a young movement that it's still developing standards. That said, there are three basic types:

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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.

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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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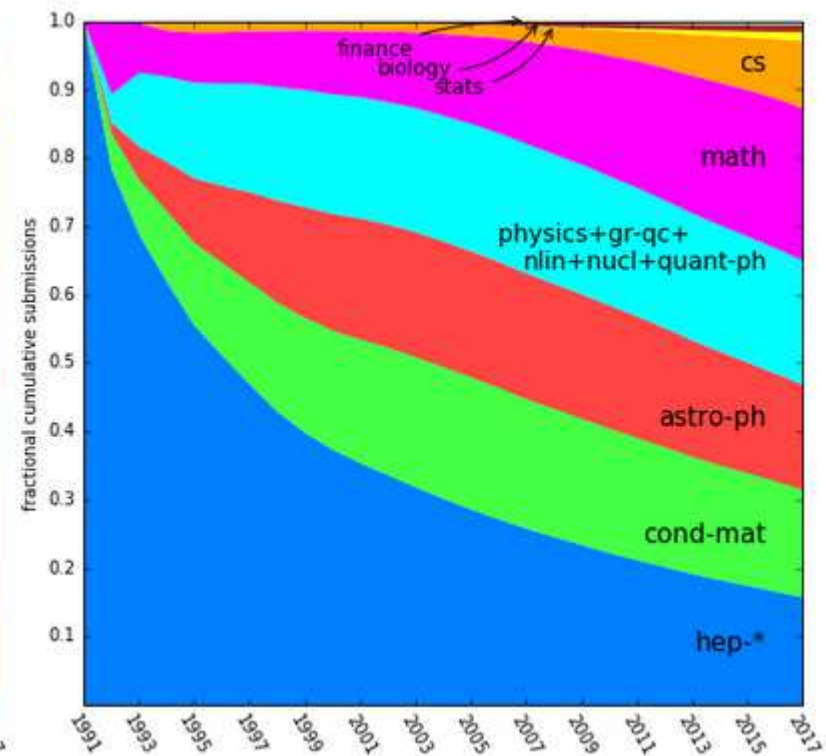
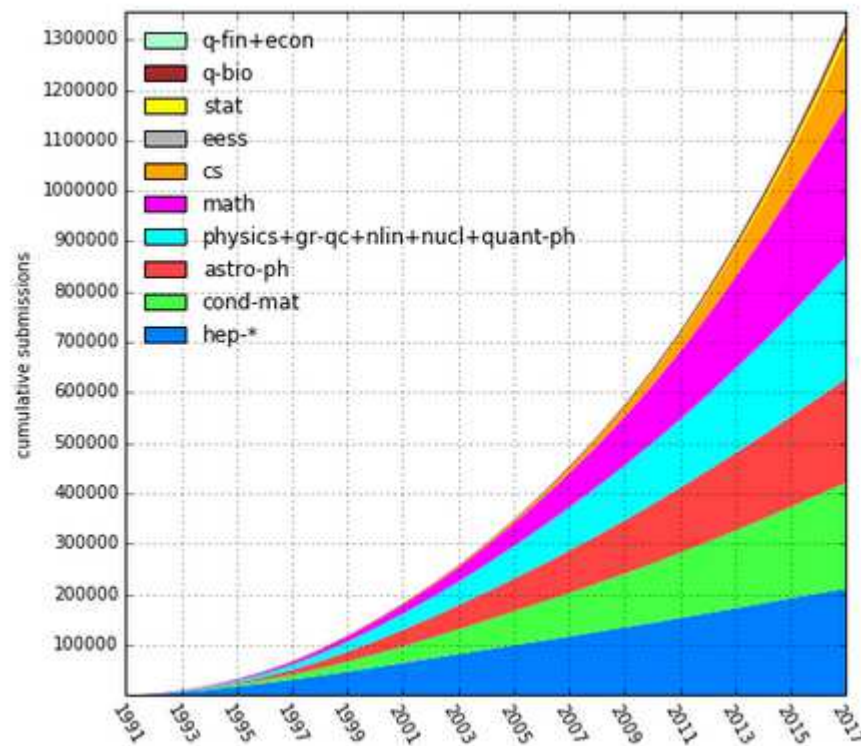


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Igor A. Pašti^a, Aleksandra Janošević Ležaić^b, Nemanja M. Gavrilov^a, Gordana Ćirić-Marjanović^a, Slavko V. Mentus^{a, c}

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13

14

15 Energy demands of modern society require efficient means of energy conversion and
16 storage. Nanocarbons have been identified as versatile materials which combine many
17 desirable properties, allowing them to be used in electrochemical power sources, from
18 electrochemical capacitors to fuel cells. Efficient production of nanocarbons requires
19 innovative and scalable approaches which allow for tuning of their physical and
20 chemical properties. Carbonization of polymeric nanostructures has been demonstrated
21 as a promising approach for production of high-performance nanocarbons with desired
22 morphology and variable surface chemical properties. These materials have been

24 electrocatalysts or catalyst supports. Moreover, these materials are often found as parts
25 of composite electrode materials where they play very important role in boosting
26 materials performance. In this contribution we shall review developments in the field of
27 application of polymer-derived nanocarbons for electrochemical energy conversion and
28 storage applications, covering the last decade. Primary focus will be on polyaniline and
29 polypyrrole but carbons derived from other polymers will also be mentioned. We shall
30 emphasize the link between the physical and chemical properties of nanocarbons and
31 their performance in electrochemical power sources with an attempt to derive general
32 guidelines for further development of new materials with improved performances.

33

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

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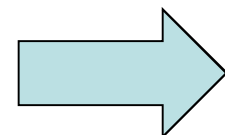
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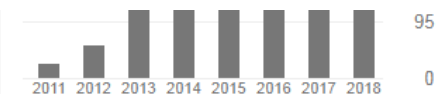
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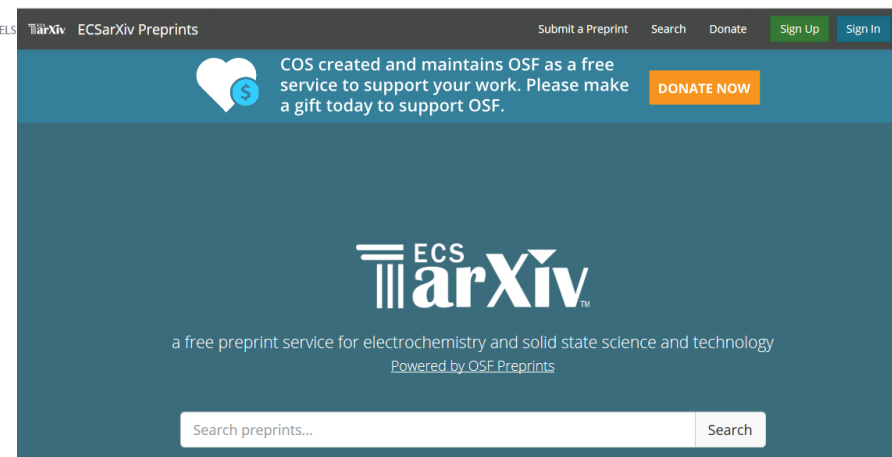
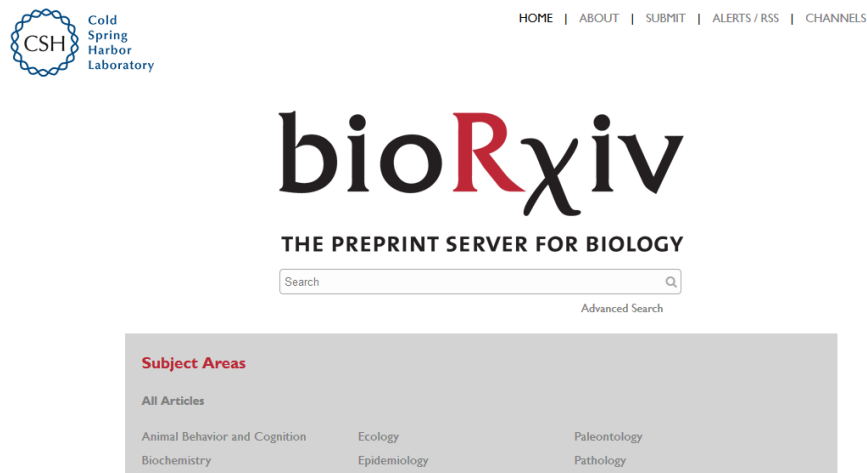
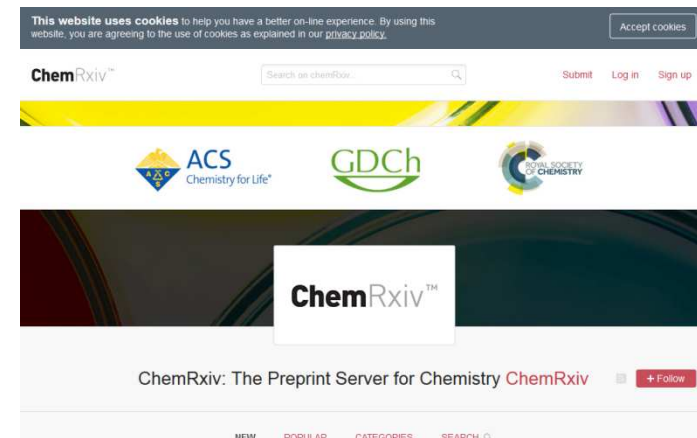
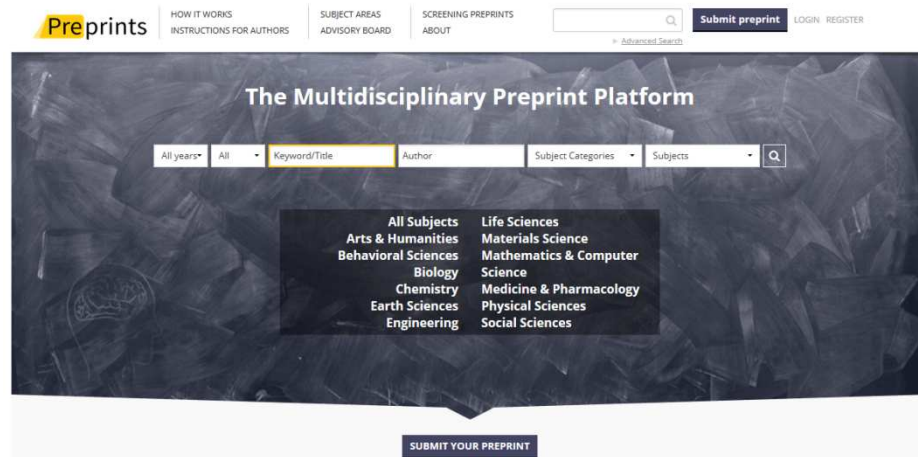
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