

“Društvene mreže” istraživa a

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 poslani u naučni časopis podvrgavaju se **recenziji** (ako to nije slučaj ne publikujete u takvom časopisu)

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 - Open peer review
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Recenzija / Peer review

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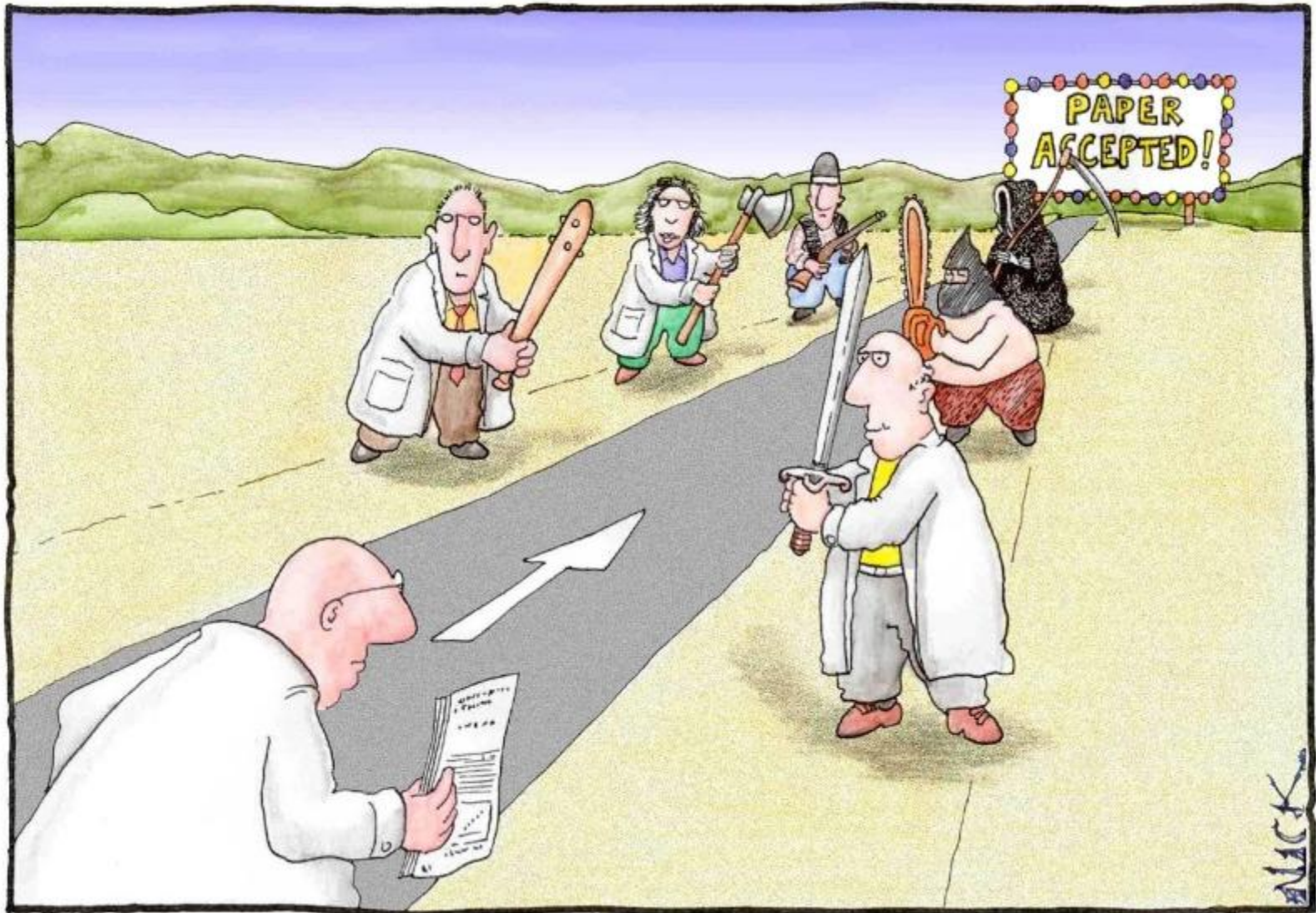
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Surface and Coatings Technology
Volume 349, 15 September 2018, Pages 511–521

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.^b, Babić, B.^b, Skorodumova, N.V.^{b,d}, Mentus, S.V.^a, Pašti, I.A.^{a,*}

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^bUniversity of Belgrade, Institute of Nuclear Sciences "Vinča", P. O. Box 572, 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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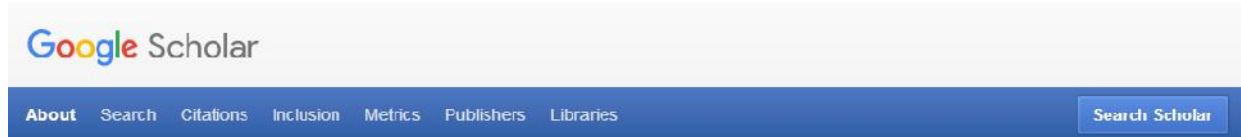
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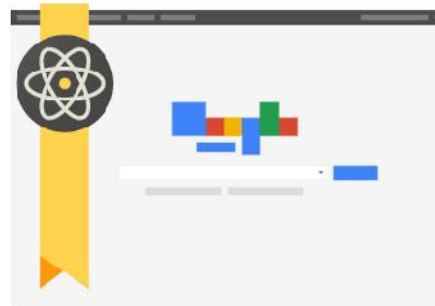
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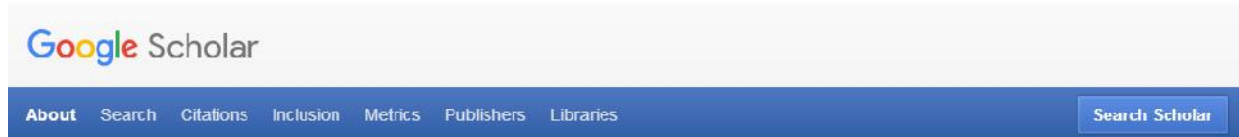
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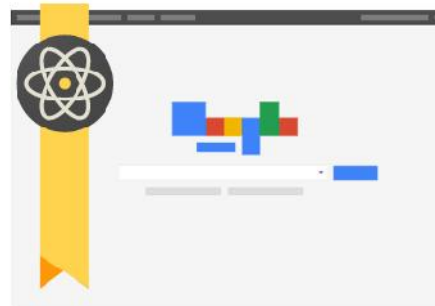
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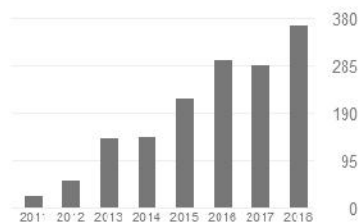
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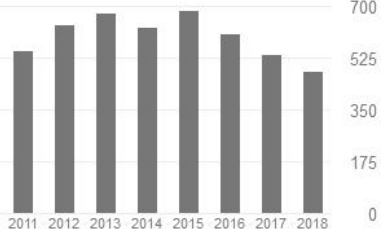


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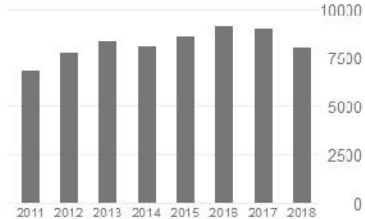
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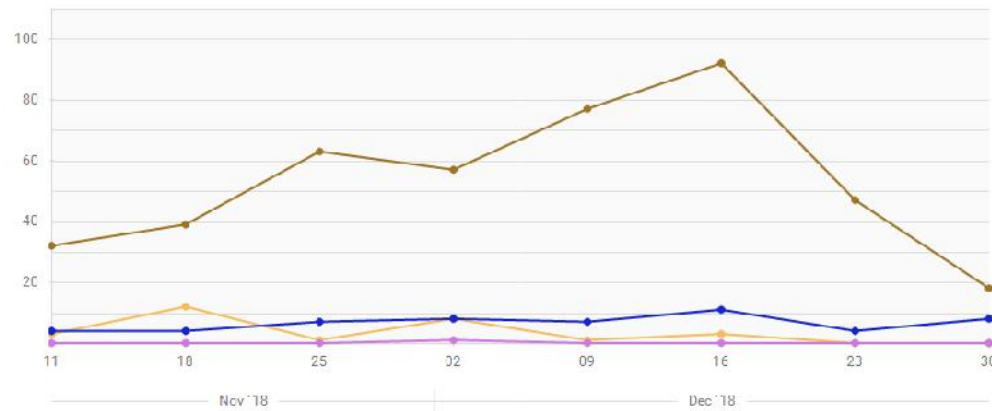
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New question

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Also known as
Igor A. Pašti

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Country
Serbia

Keywords
electrochemistry, energy conversion,
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graphene


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▼ Employment (3) 


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University of Belgrade Faculty of Physical Chemistry: Belgrade
2016-04-01 to present | associate professor*
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University of Belgrade Faculty of Physical Chemistry: Belgrade
2011-07-01 to 2016-03-31 | Assitant professor
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2007 to 2011
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Peter T. Brown¹, Debayan Mitra¹, Elmer Guardado-Sanchez¹, Reza Nourafkan², Alexis Reymbaut², Charles-David Hébert², ...

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Science 05 Dec 2018:
eaat4134
DOI: 10.1126/science.aat4134

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Abstract

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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Peter T. Brown¹, Debayan Mitra¹, Elmer Guardado-Sanchez¹, Reza Nourafkan², Alexis Reynmbaut², Charles-David H bert², S...

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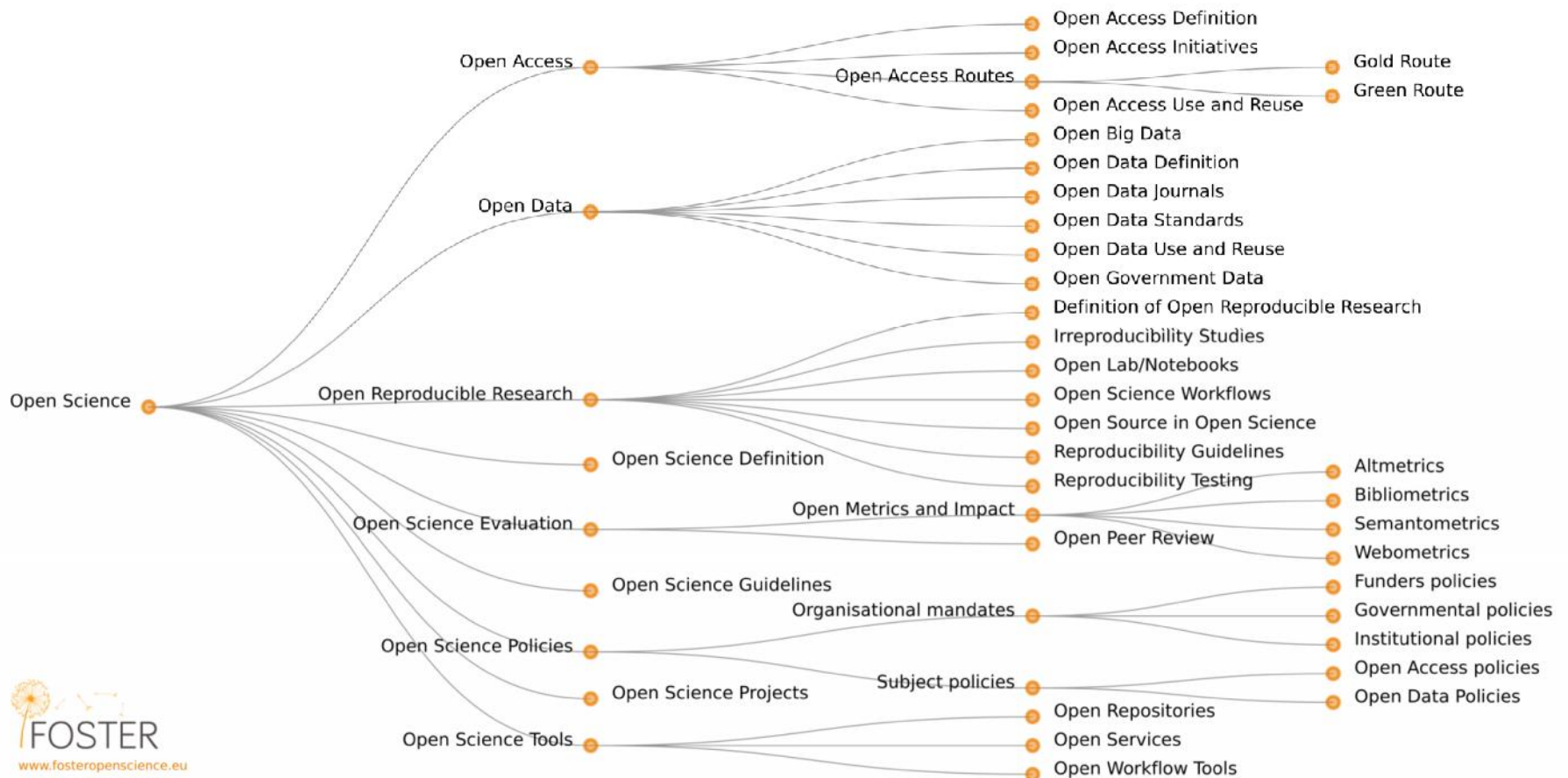
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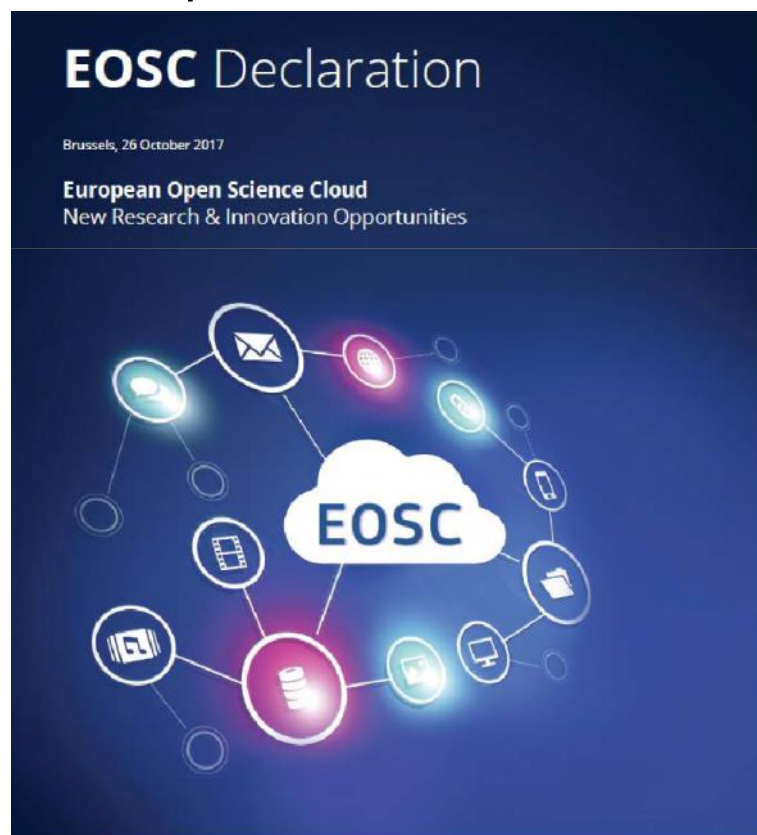
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The Director General

Brussels, 26 October 2017

EOSC Declaration Action List

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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.

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 - they should also provide incentives for the creation of compliant open access journals and platforms if they do not yet exist;
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 - such publication fees should be standardized and capped;
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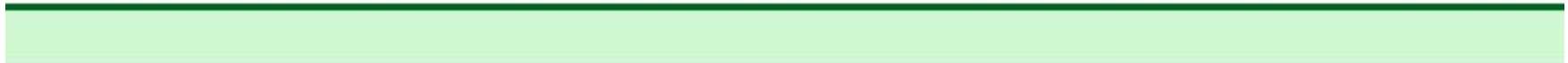
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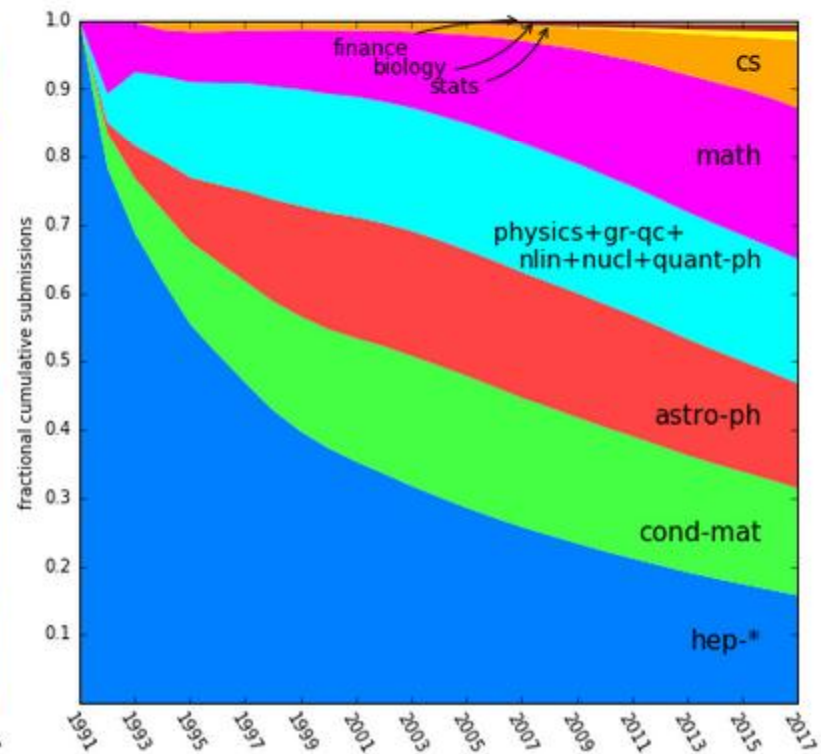
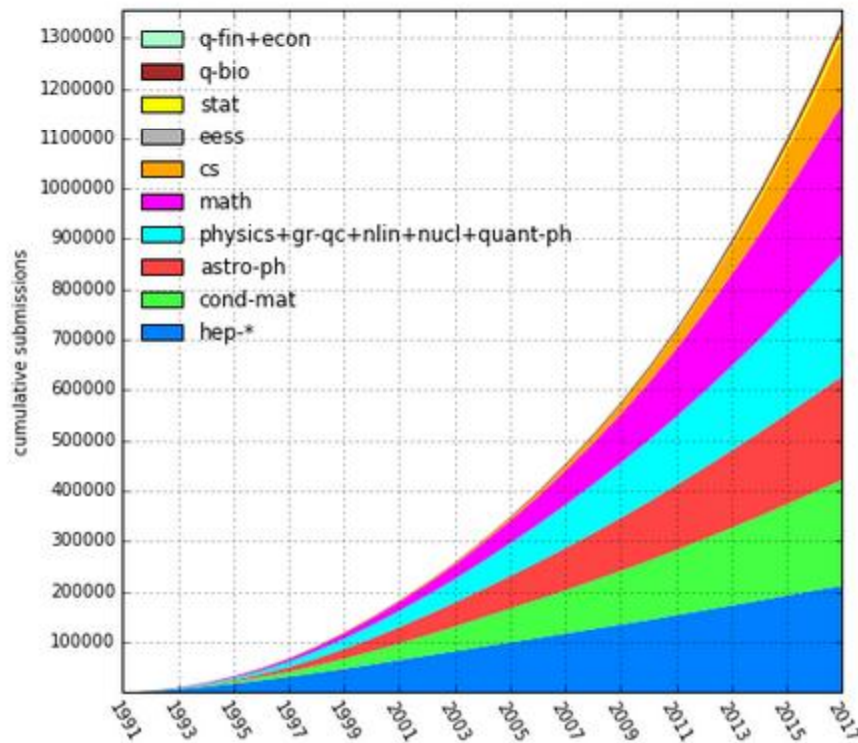
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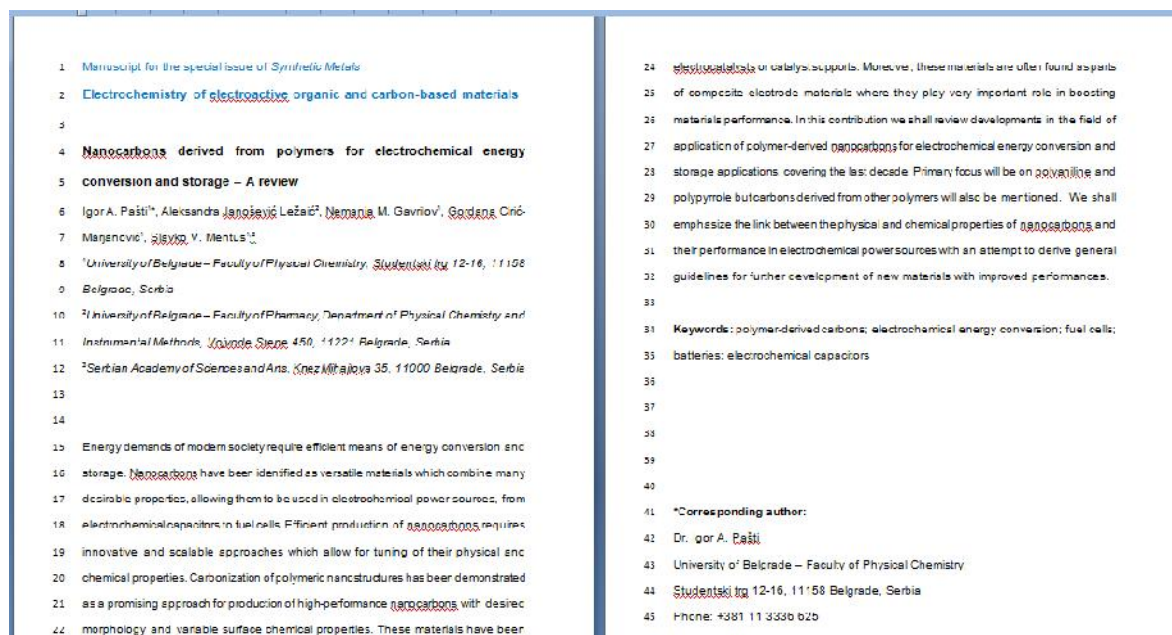
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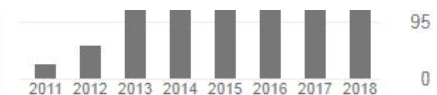
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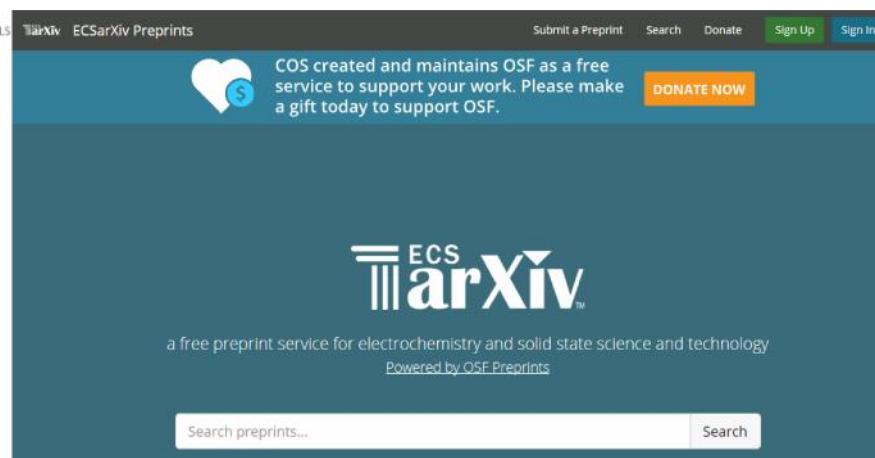
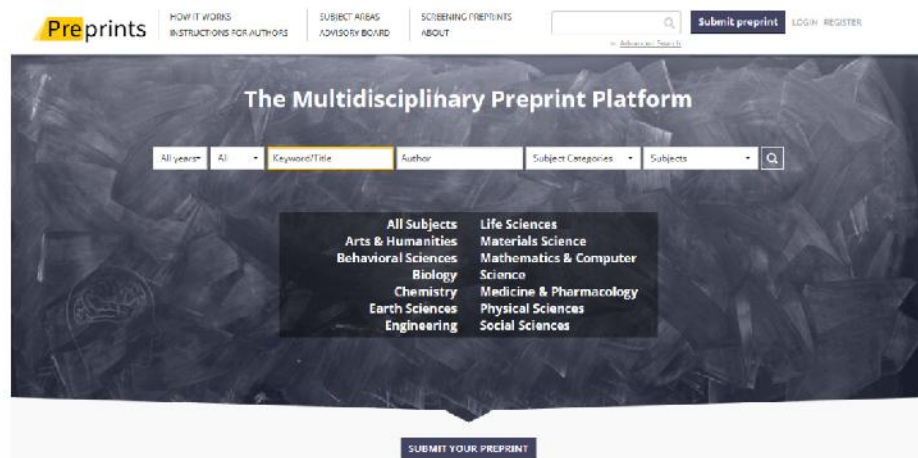
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