A Solution for Public Access

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US Office of Science and Technology Policy (OSTP)

“Increasing Access to the Results of Federally-Funded Scientific Research” – 22 February 2013

• All federal agencies funding $100M or more annually in extramural research must develop public access policies

• Free public access to peer-reviewed research articles (guideline: 12-month embargo, adapted to agency/discipline need)

• Need policies on both articles and data

• Optimize search, archival, and dissemination features to encourage innovation

• Ensure interoperability and long-term stewardship

• Develop plans in consultation with stakeholders
A broad coalition of scholarly journal publishers formed to develop, implement and steward a partnership with the federal research funders for providing public access to the peer review publications that report on federally-funded research.

• Evolved from an ad-hoc group of publishers who initiated partnership discussions with several agencies in Spring 2011
• Incorporated as a not-for-profit entity - CHOR Inc. - on October 1, 2013
• Will be applying for US IRS 501(c)(3) tax-exempt status
• 80 publisher signatories and growing
• Received significant sponsorship pledges at Frankfurt October 2013

Goals:
• **Provide public access** to manuscripts/articles reporting on federally funded research
• **Leverage existing infrastructure** and investment of the agencies and publishers
• **Preserve agency funds** for mission critical activities/programs
• Provide for **international scalability**
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How Does CHORUS Help?

• CHORUS (first service of CHOR Inc.) now offers an open technology platform to meet the public access goals of funding agencies and researchers

• For all key stakeholders:
  • Funding agencies (identifies and provides access to articles reporting on research they fund, ensures preservation of research articles, ensures researcher and publisher compliance)
  • Authors/researchers/institutions (simplifies compliance with funder mandates, provides access to research results)
  • Libraries (ensures preservation of research articles, provides access to research results)
  • The public (provides access to articles reporting on publicly funded research)
  • Publishers (simplifies compliance with funder mandates, retains traffic)

• No significant cost for agency use or participation because CHORUS builds on the existing infrastructure of the scholarly community (CrossRef, FundRef, Prospect, CLOCKSS, Portico, ORCID, etc)
How CHORUS Works: Identification
How CHORUS Works: Preservation

Government maintained or other 3rd-party dark archive
How CHORUS Works: Access

Funding Agency Embargo Period Expires
or Author/Funder Pays for Immediate Public Access

Accepted Author Manuscript becomes publicly accessible

Version of Record Becomes publicly accessible
How CHORUS Works: Discovery

Text and Data-Mining Services
The effect of composition on pressure-induced devitrification in metallic glasses


Research funded by National Science Foundation (EAR 06-49658, EAR 10-43050, EAR-0622171) | U.S. Department of Energy (DE-AC02-05CH11231, DE-AC02-06CH11357, DE-FG02-94ER14466, DE-FG02-99ER45775, DE-NA0001974, DE-SC0001057, DOE-BES)

Authors: Qiaoshi Zeng, Wendy L. Mao, Hongwei Sheng, Zhidan Zeng, Qingyang Hu, Yue Meng, Hongbo Lou, Fang Peng, Wenge Yang, Stanislav V. Sinogeikin, Jian-Zhong Jiang

Magnetolectric coupling at the EuO/BaTiO3 interface


Research funded by National Science Foundation (0620521) | Army Research Office (W911NF-10-1-0362) | U.S. Department of Energy (DE-SC0004876)


Spectrally and time resolved photoluminescence analysis of the CdS/CdTe interface in thin-film photovoltaic solar cells

API Integration with Agency Portals

Search Results for: zhang

1. Simple Cloning via Direct Transformation of PCR Product (DNA Multimer) to Escherichia coli and Bacillus subtilis
   by You, Chun; Zhang, Xiao-Zhou; Zhang, Y.-H. Percival (Mar. 2012)
   *Applied and Environmental Microbiology*
   We developed a general restriction enzyme-free and ligase-free method for subcloning up to three DNA fragments into any location of a plasmid. The DNA multimer generated by prolonged overlap extension PCR was directly transformed in Escherichia coli [e.g., TOP10, DH5α, JM109, and BL21(DE3)] and Bacillus subtilis for obtaining chimeric plasmids.

2. Chromium(0) Nanoparticles as Effective Catalyst for the Conversion of Glucose into 5-Hydroxymethylfurfural
   by He, Jianghua; Zhang, Yuetao; Chen, Eugene Y.X. (Jan. 2013)
   *ChemSusChem*
   It's nano: Small and uniform chromium nanoparticles, either preformed or generated in situ, effectively catalyze the conversion of glucose into 5-hydroxymethyl furfural. The results compare favorably with those achieved by using a catalyst system based on divalent CrCl2 in ionic liquids (ILs). In addition, the chromium nanoparticles are found in the CrCl2/IL system, and the implications of their presence in that system is investigated.
How CHORUS Works: Compliance

API and Dashboards for monitoring and tracking publisher contributions to the CHORUS system

Live CHORUS DOE dashboard:

http://dashboard.chorusaccess.org/usdoe
# Deposits made to dark archives

Content tested for public accessibility

# Records having agreeable licenses

# Deposits identifying US DOE funding
What Do Publishers Need To Do?

- Become a signatory of CHORUS
- Become a member of CrossRef
- Sign up for FundRef as part of CrossRef membership
- Submit Agency Related data to FundRef for all new content
- Send public access content reuse License and Embargo metadata to CrossRef
- Deposit full text URIs with CrossRef Prospect
- Sign CHORUS Pilot Agreement
- Send relevant content to archiving service
CHORUS Live Pilot Services

http://dashboard.chorusaccess.org/usdoe
http://dashboard.chorusaccess.org/usda
http://dashboard.chorusaccess.org/nsf
http://search.chorusaccess.org

7+ pilot publishers
13,000+ pilot records
80+ publisher signatories

Identification • Discovery • Access • Preservation • Compliance
Become a Signatory!
www.chorusaccess.org

Contact: Howard Ratner
hratner@chorusaccess.org

Identification • Discovery • Access • Preservation • Compliance
Time’s Up!

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