



Or, Name That Funder!

Carol Anne Meyer

@meyercarol

CrossRef Business Development & Marketing

CENDI Meeting

May 9, 2013, Alexandria, VA



A standard way of reporting funding sources for published scholarly research

▪ ▪

The Challenges

- Publishing industry
- Funders

Where is the funding info?

Sign In View

AIP | The Journal of **Chemical Physics**

Volume/Page Keyword D
Volume: Page

Home Browse About Authors Librarians Features Purchase Content Advertisers Scitation AIP

Journal of Chemical Physics / Volume 137 / Issue 10 / ARTICLES / Theoretical Methods and Algorithms Previous Article | Next Article

J. Chem. Phys. **137**, 104106 (2012); <http://dx.doi.org/10.1063/1.4751284> (11 pages)

Implicit ligand theory: Rigorous binding free energies and thermodynamic expectations from molecular docking

David D. L. Minh
Department of Chemistry, Duke University, Durham, North Carolina 27708, USA
[View Map](#)

(Received 14 March 2012; accepted 23 August 2012; published online 13 September 2012)

Abstract References (59) Article Objects (7)

Alerts Tools Share

LOG IN or SELECT A PURCHASE OPTION:

Buy PDF Rent Article (save 93%) Permissions / Reprints
Log In to Read Online (HTML) Login to Download PDF

RELATED DATABASES
To view database links for this article, you need to log in.

KEYWORDS, PACS, and IPC

Keywords
calorimetry, free energy, macromolecules, molecular biophysics

PACS
87.15.-v
Biomolecules: structure and physical properties
07.20.Fw
Calorimeters

International Patent Classification (IPC)
C08
Organic macromolecular compounds; Their preparation or chemical working-up; Compositions based thereon

ARTICLE DATA

A rigorous formalism for estimating noncovalent binding free energies and thermodynamic expectations from calculations in which receptor configurations are sampled independently from the ligand is derived. Due to this separation, receptor configurations only need to be sampled once, facilitating the use of binding free energy calculations in virtual screening. Demonstrative calculations on a host-guest system yield good agreement with previous free energy calculations and isothermal titration calorimetry measurements. Implicit ligand theory provides guidance on how to improve existing molecular docking algorithms and insight into the concepts of induced fit and conformational selection in noncovalent macromolecular recognition.

© 2012 American Institute of Physics

Article Outline

- I. INTRODUCTION
- II. THEORY
 - A. Implicit solvent theory
 - B. Implicit ligand theory
 - C. Thermodynamic expectations
- III. ESTIMATION

ing simulation methods such as MCDOCK [54], the ligand binding site and its configuration were systematically modified to search for the best fit of the complex.

Matching algorithms can be used to find the best fit. That is, if multiple conformations are found, they may be used to compare the results. Random sampling of the ligand binding site and its configuration can be used to find the binding potential $U_c(\xi_L)$, for a given conformation. The harmonic potential for $U_c(\xi_L)$ can be used to find the lowest energy structure from a Gaussian distribution. The processing algorithm is to use the lowest-energy structure from a matching algorithm as a starting point for a rigid-receptor MD simulation. This is not prohibitive.

... suggesting CB[7] as a test case, Michael ...
... parameters for CB[7] and its ligand ...
... ratt for pinpointing the cause of negative ...
... in NAMD, and Emilio Gallichio for sharing ...
... for BEDAM. Calculations were performed ...
... Shared Computing Resources (DSCR). This ...
... funded by NSF CHE10-57953, NIH P50 ...
... N00014-11-1-0720

Bone Marrow Research
Volume 2012 (2012), Article ID 406796, 18 pages
doi:10.1155/2012/406796

Review Article

Lineage Switching in Acute Leukemias: A Consequence of Stem Cell Plasticity?

Elisa Dorantes-Acosta^{1,2,3} and Rosana Pelayo²

¹Leukemia Clinic, Mexican Children's Hospital Federico Gómez, 06720 Mexico City, DF, Mexico

²Oncology Research Unit, Oncology Hospital, Mexican Institute of Social Security, 06720 Mexico City, DF, Mexico

³Medical Sciences Program, National Autonomous University of Mexico, 04510 Mexico City, DF, Mexico

 Abstract

 Full-Text PDF

 Full-Text HTML

 Full-Text ePUB

 Linked References

 How to Cite this Article

Acknowledgments

The authors apologize to investigators whose work could not be discussed due to space limitation. The authors thank the members of the Lymphopoiesis Lab from UIMEO, Dr. Aurora Medina, and Dr. Onofre Muñoz for critical input and academic support. R. Pelayo is recipient of funding from the National Council of Science and Technology, CONACYT (Grant CB-2010-01-152695) and the Mexican Institute for Social Security, IMSS (Grants 2008-785-044 and FIS/IMSS/852). E. Dorantes-Acosta is a scholarship holder from CONACYT.

Why Don't Men Understand Women? Altered Neural Networks for Reading the Language of Male and Female Eyes

Boris Schiffer^{1,2*}, Christina Pawliczek^{2,5}, Bernhard W. Müller³, Elke R. Gizewski^{4,6}, Henrik Walter⁷

1 Division of Forensic Psychiatry, Department of Psychiatry, Psychotherapy and Preventive Medicine, LWL-University Hospital Bochum, Germany, **2** Institute of Forensic Psychiatry, University of Duisburg-Essen, Germany, **3** Department of Psychiatry and Psychotherapy, University of Duisburg-Essen, Germany, **4** Department of Diagnostic and Interventional Radiology and Neuroradiology, University Hospital Essen, Germany, **5** Department of Psychiatry, Psychotherapy, and Psychosomatics, University Hospital Aachen, RWTH Aachen, Germany, **6** Department of Neuroradiology, University Hospital Innsbruck, Austria, **7** Division of Mind and Brain Research, Department of Psychiatry and Psychotherapy, Charité Universitätsmedizin Berlin, Berlin, Germany

Abstract

Men are traditionally thought to have more problems in understanding women compared to understanding other men, though evidence supporting this assumption remains sparse. Recently, it has been shown, however, that men's problems in recognizing women's emotions could be linked to difficulties in extracting the relevant information from the eye region, which remain one of the richest sources of social information for the attribution of mental states to others. To determine possible differences in the neural correlates underlying emotion recognition from female, as compared to male eyes, a modified version of the Reading the Mind in the Eyes Test in combination with functional magnetic resonance imaging (fMRI) was applied to a sample of 22 participants. We found that men actually had twice as many problems in recognizing emotions from female as compared to male eyes, and that these problems were particularly associated with a lack of activation in limbic regions of the brain (including the hippocampus and the rostral anterior cingulate cortex). Moreover, men revealed heightened activation of the right amygdala to male stimuli regardless of condition (sex vs. emotion recognition). Thus, our findings highlight the function of the amygdala in the affective component of theory of mind (ToM) and in empathy, and provide further evidence that men are substantially less able to infer mental states expressed by women, which may be accompanied by sex-specific differences in amygdala activity.

Citation: Schiffer B, Pawliczek C, Müller BW, Gizewski ER, Walter H (2013) Why Don't Men Understand Women? Altered Neural Networks for Reading the Language of Male and Female Eyes. PLoS ONE 8(4): e60278. doi:10.1371/journal.pone.0060278

Editor: Frank Krueger, George Mason University/Krasnow Institute for Advanced Study, United States of America

Received: November 14, 2012; **Accepted:** February 24, 2013; **Published:** April 10, 2013

Copyright: © 2013 Schiffer et al. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

Funding: This research was funded by the Landschaftsverband Rheinland, Germany (Dr. Schiffer). The funders had no role in study design, data collection and

Funding: This research was funded by the Landschaftsverband Rheinland, Germany (Dr. Schiffer). The funders had no role in study design, data collection and analysis, decision to publish, or preparation of the manuscript.

* E-mail: borisschiffer@uni-due.de

Introduction

Sex differences in brain morphology and cognitive and affective

Recent studies have suggested that deficits in recognizing facial emotions could be linked to difficulties in extracting the relevant information from the eye region (including gaze direction) [1].

Integrin $\alpha 1$ subunit is up-regulated in colorectal cancer

Salah Boudjadi^{1,2}, Julie C Carrier^{1,2} and Jean-François Beaulieu^{1*}

* Corresponding author: Jean-François Beaulieu Jean-Francois.Beaulieu@USherbrooke.ca

▼ Author Affiliations

1 Laboratory of Intestinal Physiopathology, Department of Anatomy and Cell Biology, Faculty of Medicine and Health Sciences, Université de Sherbrooke, 3001 12th Avenue N, Sherbrooke, QC J1H 5N4, Canada

2 Department of Medicine, Faculty of Medicine and Health Sciences, Université de Sherbrooke, 3001 12th Avenue N, Sherbrooke, QC J1H 5N4, Canada

For all author emails, please [log on](#).

Biomarker Research 2013, **1**:16 doi:10.1186/2050-7771-1-16

The electronic version of this article is the complete one and can be found online at:

Acknowledgements

We thank Gérald Bernatchez who prepared the colorectal tissue samples and cDNA, Nuria Basora for reviewing the manuscript, Elizabeth Herring for technical support and Marie-Pierre Garant for assistance in statistical analyses.

The work was supported by the Canadian Institute of Health Research Grant MOP-97836 (to JFB). JFB is the recipient of the Canadian Research Chair in Intestinal Physiopathology. JFB and JCC are members of the Fonds de la Recherche en Santé du Québec-funded Centre de Recherche Clinique Étienne-Le Bel of the Centre Hospitalier Universitaire de Sherbrooke.

<fn fn-type= financial-disclosure >

<p>This work was supported in part by NIH grant R01 GM094800B to G.J.J., a gift to Caltech from the Gordon and Betty Moore Foundation, and a stipend from the Bayerische Forschungsstiftung to M.P. The funders had no role in study design, data collection and analysis, decision to publish, or preparation of the manuscript.</p>

</fn>

</fn-group>

</back>

</article>

* E-mail: jensen@caltech.edu (GJJ); martin-pilhofer@web.de (MP)

```
<body>
```

```
...
```

```
<sec>
```

```
<title>Funding</title>
```

```
<p>This work was supported by the
```

```
<grant-sponsor
```

```
xlink:href="http://www.grf.org"
```

```
id="GS1">Generic Research
```

```
Foundation</grant-sponsor>, the
```

```
<grant-sponsor
```

```
xlink:href="http://www.energy.gov"
```

```
id="GS2">Department of Energy</grant-
```

```
sponsor> Office of Science grant
```

```
number <grant-num rid="GS2">DE-FG02-
```

```
04ER63803</grant-num>, and the <grant-
```

```
sponsor
```

```
xlink:href="http://www.nih.gov"
```

```
id="GS3">National Institutes of
```

```
Health</grant-sponsor>.
```

```
</p>
```

```
</sec>
```

```
</body>
```



- National Institutes of Health
 - NIH? N.I.H.? National Institute of Health?
- Abbreviations, misspellings, translations...

Why does this matter?

- Lack of standard metadata for funding sources makes it difficult to analyse or data mine
- Funding bodies cannot easily track the output of funding
- Publishers cannot easily report to funders which articles result from research supported by specific funders or grants

brief

BEGIN

March 2013

March 2012

Finish

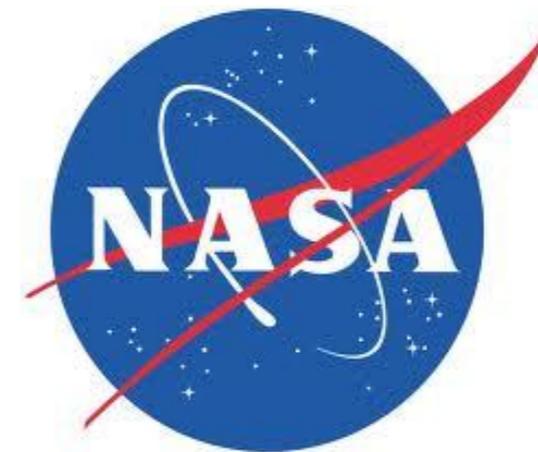
- Publishers, Manuscript Tracking Systems captured funder information on submission
 - 40+ staff from all organizations.
 - The proof of concept was deemed successful.

Pilot Report issued

http://www.crossref.org/fundref/FundRef_Pilot_Project_Report.pdf

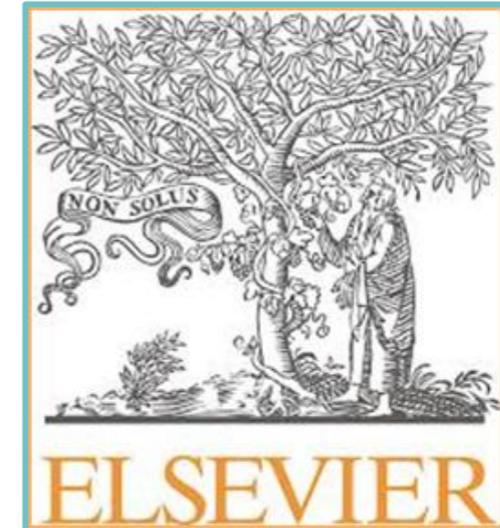
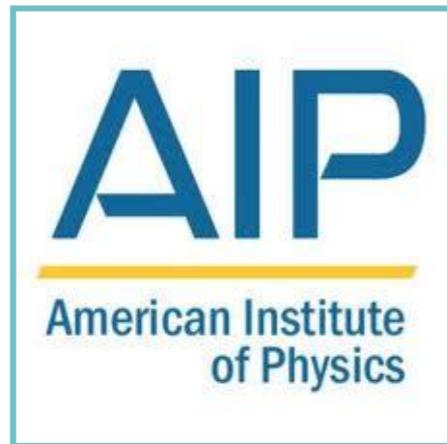
Approved by CrossRef

Pilot participants: Funders



wellcometrust

Pilot participants: Publishers



Pilot participants:

cross **ref**

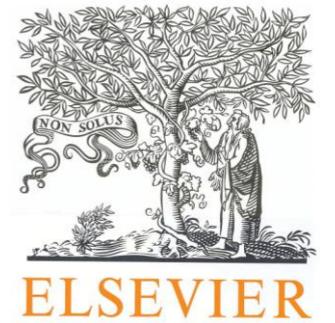
The image shows the words 'cross' and 'ref' in a bold, sans-serif font. 'cross' is colored red and 'ref' is black. Two black arcs connect the top of 'cross' to the top of 'ref', one above the other, creating a bridge-like effect between the two words.

Digression About **cross**ref



CrossRef is not-for-profit

- Organized as a trade association in New York
- Financially independent
- Members include publishers with both open access and subscription models
- Governed by a volunteer board of directors elected by members,



DE GRUYTER



What is a DOI?

Digital
Object
Identifier



It serves as a *persistent link* to that content's digital location



Like this:

<http://dx.doi.org/10.1155/2008/360964>



Meetings & News

- [Intro to CrossRef Webinar Sign-up](#)
- [Upcoming CrossCheck Webinars](#)
- [2009 Annual Meeting](#)
- [Best Practices for Books](#)
- [CrossCheck wins award](#)
- [CrossRef Citation Plug-in](#)
- [New members this week](#)
- [CrossRef Indicators](#)

Technical Resources

- [CrossRef Help](#)
- [Report a DOI problem](#)
- [DOI ownership transfer](#)
- [Web deposit form](#)
- [Simple Text Query](#)
- [XML Tools](#)
- [Browsable title list](#)

CrossRef Services

- [CrossCheck](#)
- [CrossRef Cited-by Linking](#)
- [CrossRef Metadata Services](#)
- [Join CrossRef](#)

DOI Resolver

If you encounter a DOI string (e.g., 10.1037/0003-066X.59.1.29) that is not hyperlinked, you can enter it in the box below:

submit

TIP: You can turn a DOI string into a URL by appending the DOI string to <http://dx.doi.org/>

Want to look up a DOI? Visit our [Guest Query form](#).

CrossRef is an independent membership association, founded and directed by publishers. CrossRef's mandate is to connect users to primary research content, by enabling publishers to work collectively. CrossRef is also the official DOI® link registration agency for scholarly and professional publications. It operates a cross-publisher citation linking system that allows a researcher to click on a reference citation on one publisher's platform and link directly to the cited content on another publisher's platform, subject to the target publisher's access control practices. Our citation-linking network today covers millions of articles and other content items from several hundred scholarly and professional publishers.



Google™ Custom Search

Search this Site

36395182

registered CrossRef DOI links

millions of links

FEATURING...

CROSSREF BLOG

Latest Entries:

[CROSSCHECK AT CONFERENCES IN APRIL AND MAY](#)

SUBSCRIBE TO FEED

Page 1/15

CROSSTECH BLOG

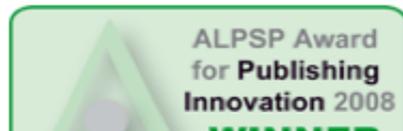
Discuss new publishing technologies.

Latest Entries:

[WHAT DO PEOPLE WANT FROM AN AUTHOR IDENTIFIER?](#)

SUBSCRIBE TO FEED

Page 1/15



Atomic Force Microscopy of Cholera Toxin B-oligomers Bound to Bilayers of Biologically Relevant Lipids

Jianxun Mou, Jie Yang ^{f1} and Zhifeng Shao ^{f2}

Department of Molecular Physiology & Biological Physics, University of Virginia School of Medicine, Box 449, Charlottesville, VA 22908, U.S.A.

Received 14 November 1994; accepted 13 February 1995. Available online 7 May 2002.

Abstract

Cholera toxin B-oligomer was imaged by atomic force microscopy (AFM) on biologically relevant model membranes, such as 1-palmitoyl-2-oleoyl-*sn*-glycero-3-phosphoethanolamine and egg yolk phosphatidylcholine at room temperature in solution at a resolution in the range of 1 to 2 nm. In addition, two-dimensional arrays were grown directly on these model membranes without any special treatment, and were also imaged by AFM. These results demonstrate the ability of AFM for imaging membrane proteins at

Article Toolbox

-  E-mail Article
-  Cited By
-  Save as Citation Alert
-  Citation Feed
-  Export Citation
-  Add to my Quick Links
-  Add to **collab**
-  Permissions & Reprints
-  Cited By in Scopus (130)

Related Articles in ScienceDirect

- [Recent advances in biological atomic force microscopy](#)
Micron
- [New Approach for Atomic Force Microscopy of Membrane Pr...](#)
Journal of Molecular Biology
- [A novel structure observed on the phospholipid Langmuir...](#)
Applied Surface Science
- [Surface structure of synthesized mordenite crystal stud...](#)
Surface Science
- [Progressive accretion of amelogenin molecules during na...](#)
Matrix Biology

[View More Related Articles](#)

How can the links be persistent?

1. Members agree to update URLs
2. Members are asked to make archiving arrangements with Portico, CLOCKSS, LOCKSS, British Library, or eDepot
3. CrossRef metadata is archived with Portico

crossref

?

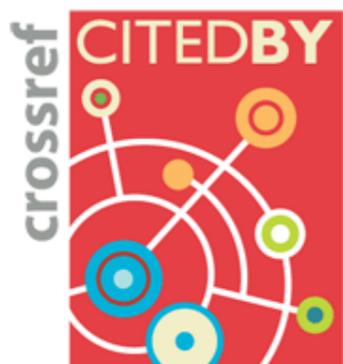


What Does CrossRef Do?

- Provides collaborative services that organizations cannot provide alone to improve scholarly communication
- Provides *technology* infrastructure
- Provides *business* infrastructure



Services



CrossMark

- **Cross-publisher** reference linking
- **Cross-publisher Cited-by** linking
- **Cross-publisher** metadata feeds
- **Cross-publisher** plagiarism screening
- **Cross-publisher** update service





Works with Publishers, Libraries, and others

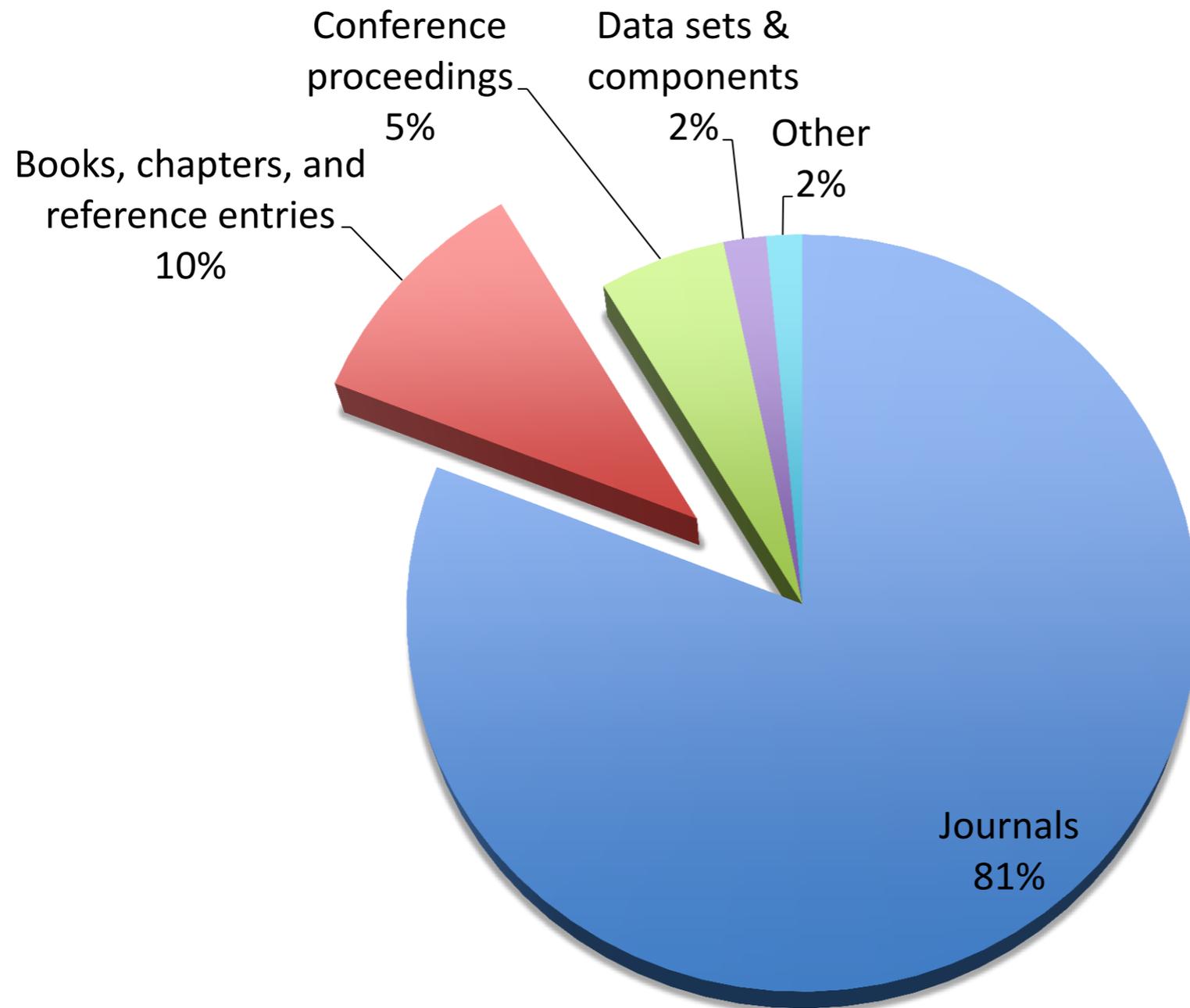




is a not-for-profit association of worldwide scholarly publishers



Not just journals!



More than 1 million data items/figures/components have CrossRef DOIs

- Protein Data Bank
- Inter-university Consortium for Political and Social Research (ICPSR)
- International Union of Crystallography (IUCR)
- Organization for Economic Development (OECD)
- Public Library of Science (PLOS)

Linking 5 centuries of content

1665

PHILOSOPHICAL
TRANSACTIONS:
GIVING SOME
ACCOMPT
OF THE PRESENT
Undertakings, Studies, and Labours
OF THE
INGENIOUS
IN MANY
CONSIDERABLE PARTS
OF THE
WORLD

Vol. I.

For *Anno* 1665, and 1666.

In the SAVOY,
Printed by T. N. for *John Martyn* at the Bell, a little with-
out Temple-Bar, and *James Allestry* in Duck-Lane,
Printers to the Royal Society.



membership

- Represents 100 countries





membership

- Science, Technology and Medicine
- Humanities
- Social Sciences
- Professional



membership

- Government agencies
- Open Access publishers
- Academic societies
- Other non-profits
- Commercial publishers
- University presses
- Institutional repositories

Cross-publisher means...

No need for
bilateral
negotiations
between
affiliates and
individual
publishers





is “business-model
neutral”

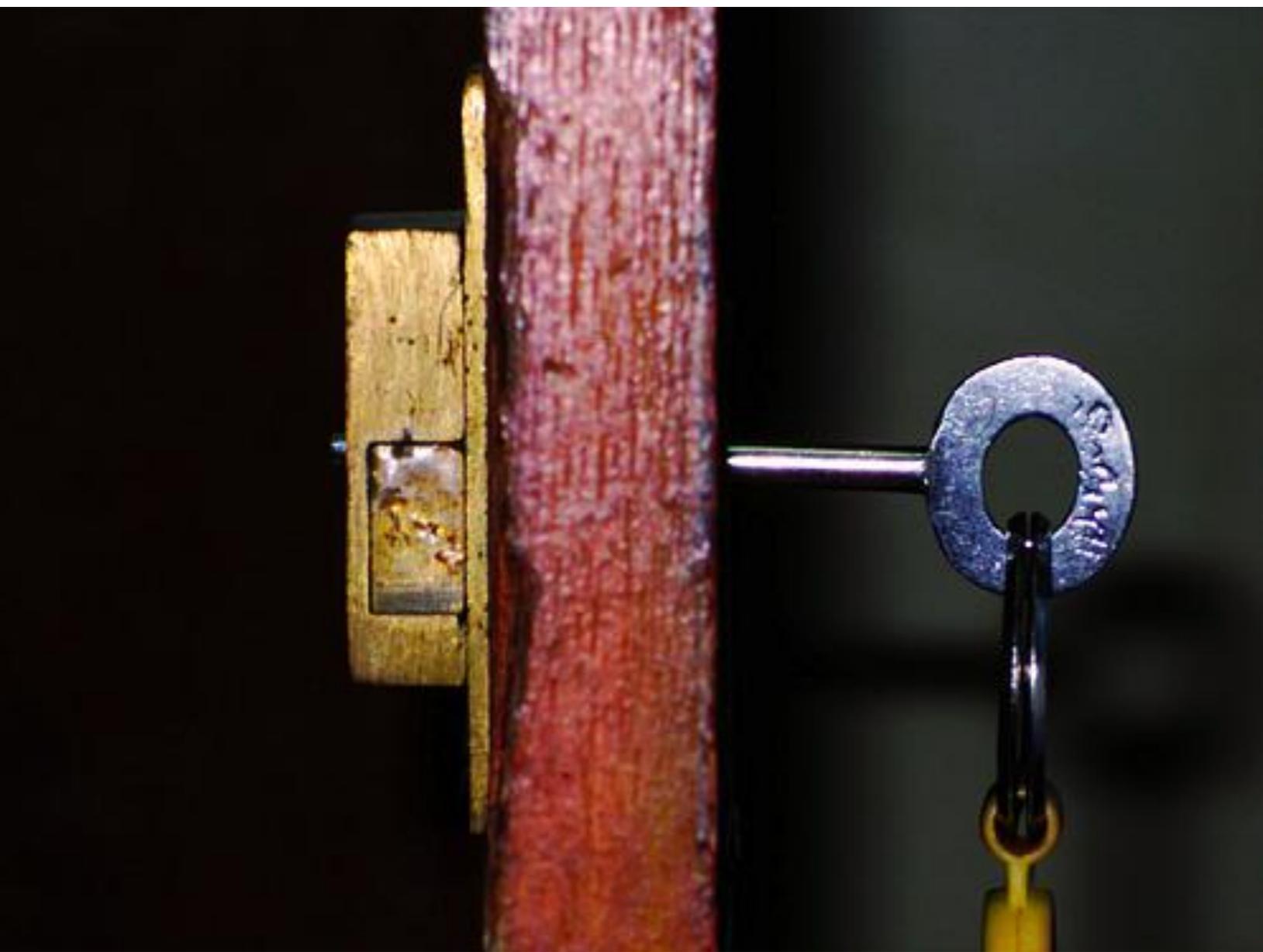
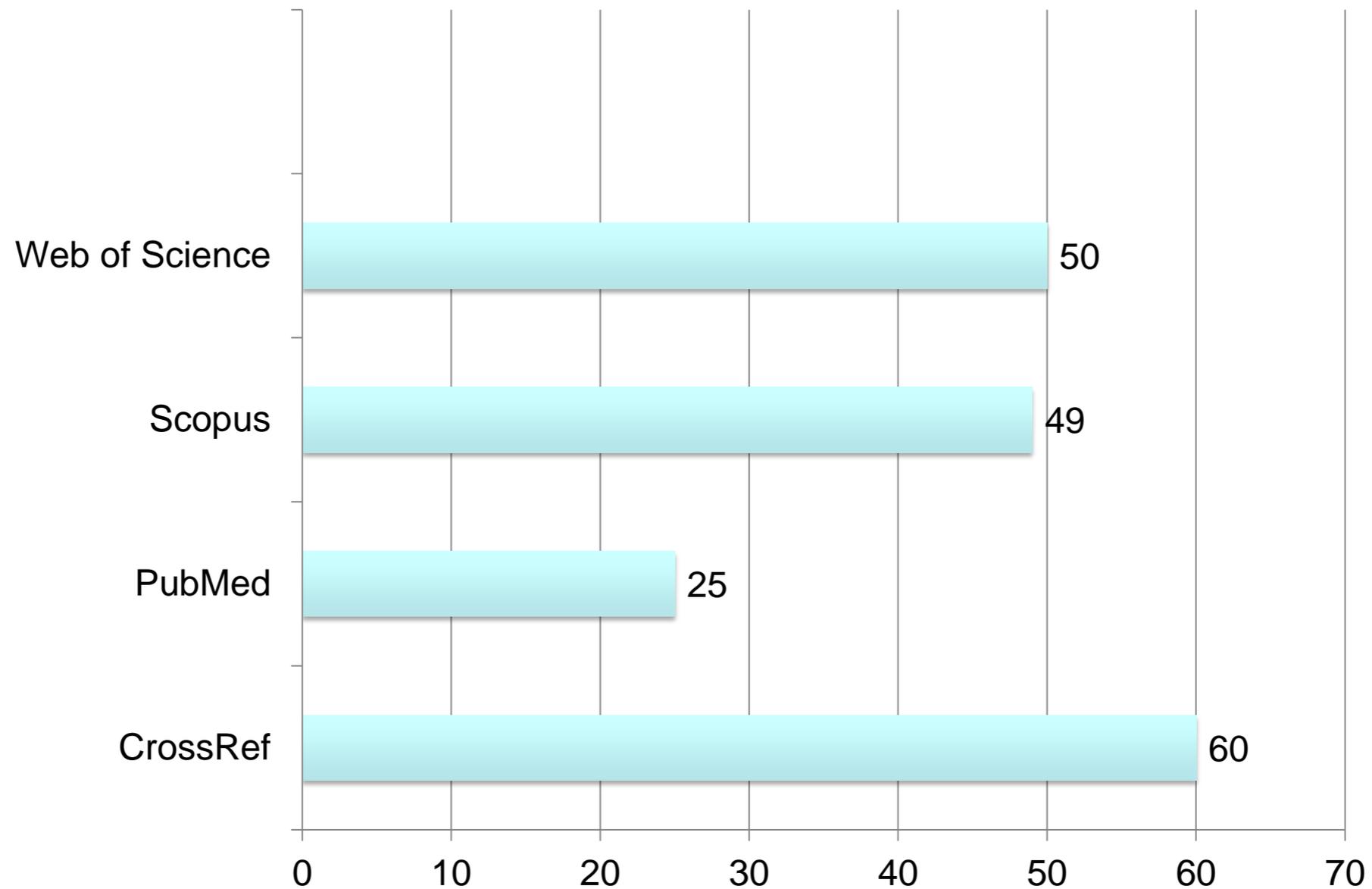


Photo: [Tawheed Manzoor](#)

- Links deliver the user to the publisher’s front door. Access control is up to the publisher.



Approximate Number of Records (millions)



91,236,652



CrossRef Members from the US Government

- Centers for Disease Control and Prevention (CDC)
- National Institute on Drug Abuse/RTI International
- National Institutes of Health Environmental Health Perspectives
- US Fish and Wildlife Service
- US Department of Energy Energy Technology Data Exchange
- US Department of Energy Oak Ridge National Laboratories Environmental Sciences Division
- US Department of Energy Office of Scientific and Technical Information
- US Department of Health and Human Services Office of Research, Development and Information
- US Department of Veterans Affairs Journal of Rehabilitation Research & Development
- US Department of Agriculture Forest Service

What is a CrossRef Affiliate?

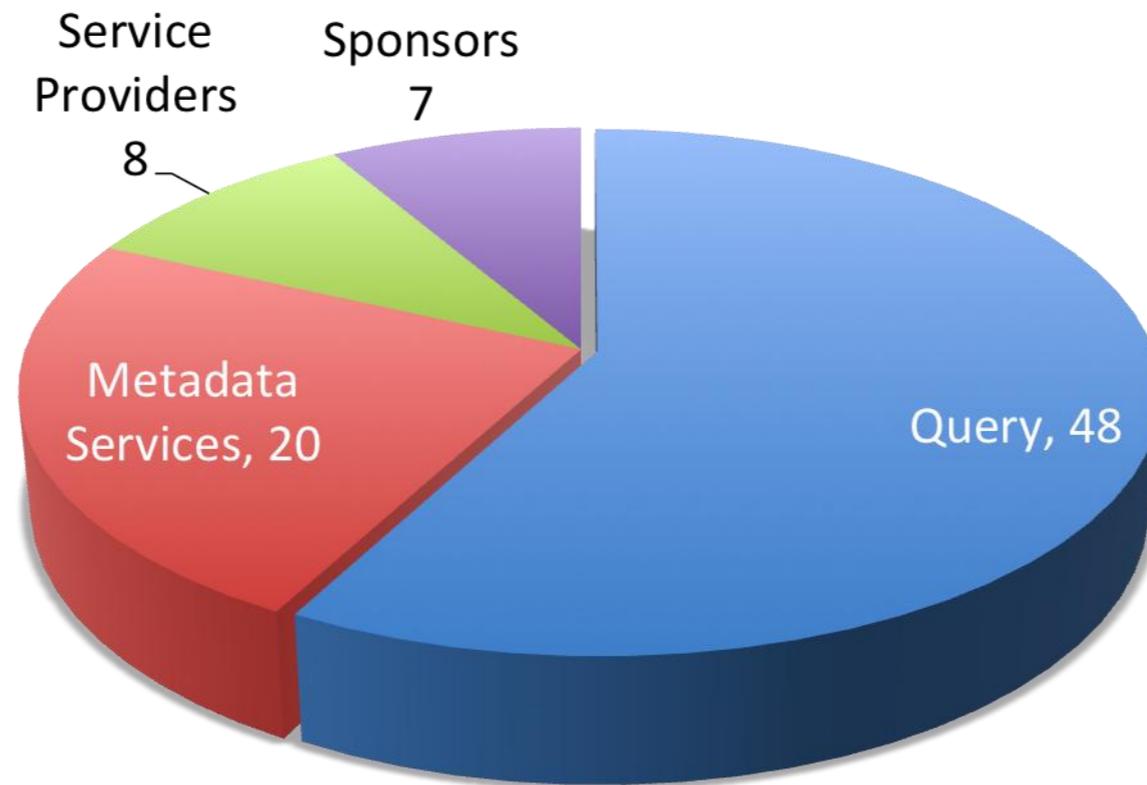
An organization that has a license to use CrossRef system interfaces to

- discover
- display
- retrieve

metadata and/or DOIs

83 Non-Publisher Affiliates

- Can query the system for DOIs and metadata
- Can get bulk updates of metadata
- Can act on behalf of members



What kinds of organizations can be CrossRef Affiliates?

- Government Agencies
- Discovery services
- Hosting platforms
- Secondary database publishers
- Library linking solutions providers
- Document delivery providers
- Reference management vendors
- Citation metrics providers
- Search engines
- Content aggregators
- Data entry and copyediting vendors

Why Affiliates join CrossRef

- Enhance services by linking directly to full-text
- Offer CrossRef linking to libraries or publishers as part of vendor services
- Expand publication coverage at a low cost
- Gain efficiencies of centralized linking agreements
- Provide increased discoverability to end users

Types of Affiliates

- CrossRef Service Provider
- Query Affiliate
- CrossRef Metadata Services (CMS) Affiliate
- End User Lookup Affiliate
- Library Affiliate

US Government CrossRef Query Affiliates

- US Department of Defense Army
- US Department of Energy Los Alamos National Library
MESUR
- Smithsonian Institute/NASA Astrophysics Data System
- US Department of Veterans Affairs, National Center for
PTSD

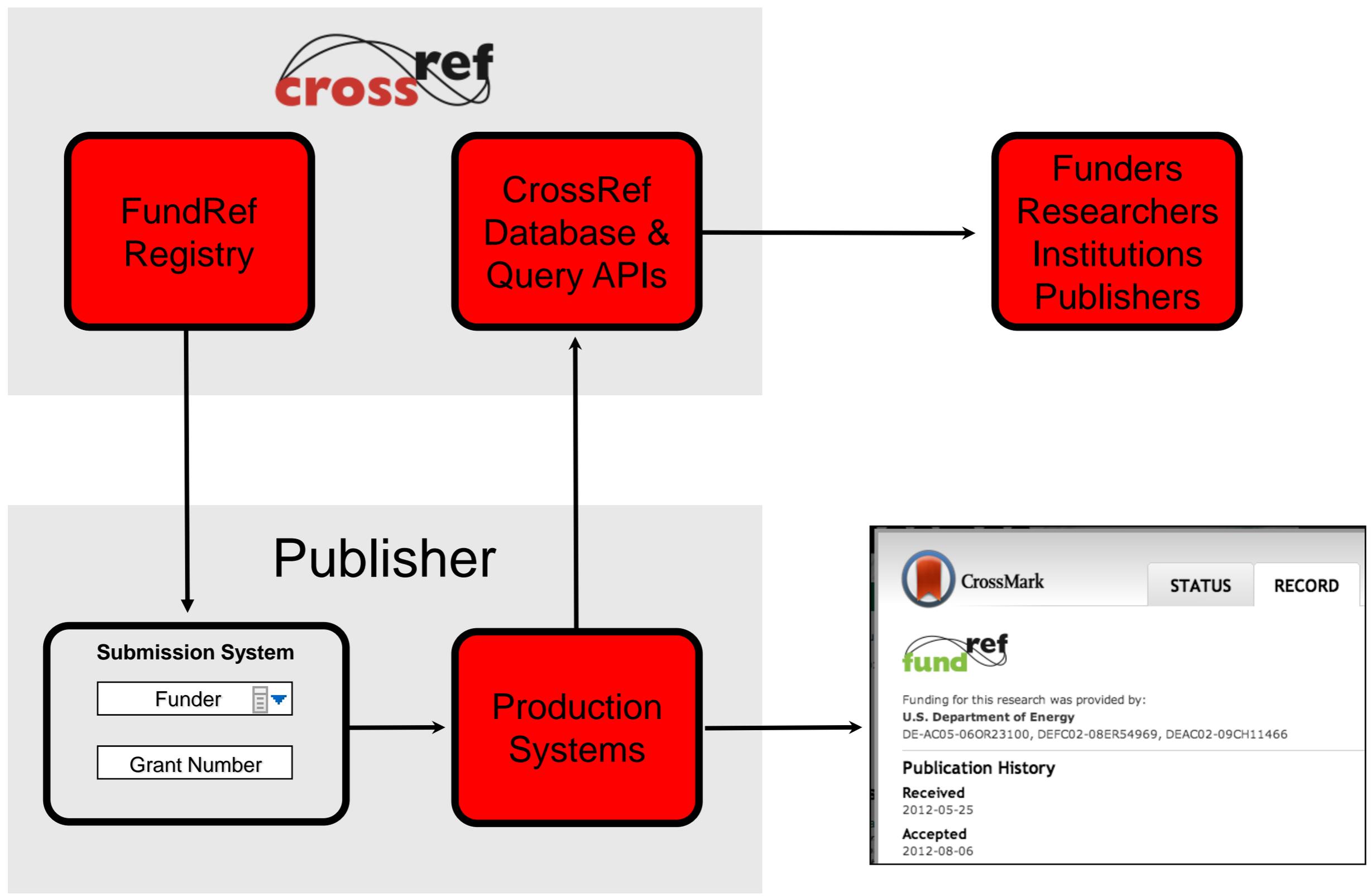
CrossRef has 2000 Library Affiliates

- Library Affiliates do substantial volume of querying at CrossRef
- Link Resolvers supplement library user metadata with CrossRef metadata and/or DOIs. The link resolver looks up institution's holdings to direct users to a licensed copy.
- Libraries join CrossRef as Publisher Members to assign DOIs to content.

CrossRef US Government Library Affiliates

- Federal Reserve Board
- NASA Jet Propulsion Laboratory
- National Institute of Standards and Technology (NIST)
- US Department of Agriculture National Agricultural Library
- US Department of Energy Argonne National Laboratory
- US Department of Energy Idaho National Lab
- US Department of Energy Library Lawrence Livermore National Laboratory
- US Agency for International Development
- US Department of Agriculture National Agriculture Service
- US Department of the Interior
- US Department of Justice
- US Patent & Trademark Office

Back to our regularly
scheduled
presentation...



CrossMark STATUS RECORD

fundref

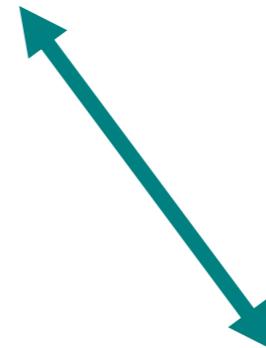
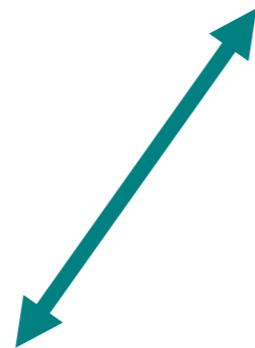
Funding for this research was provided by:
U.S. Department of Energy
DE-AC05-06OR23100, DEFC02-08ER54969, DEAC02-09CH11466

Publication History

Received
2012-05-25

Accepted
2012-08-06

DOI



Funding
Source



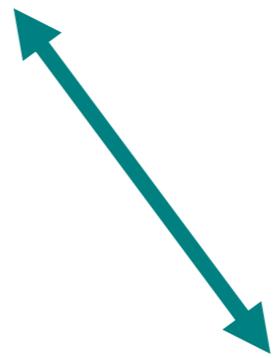
Award
Number

ORCID

DOI

Funding Source

Award Number



FundRef Registry

● 4000 funder names and ID numbers from curated Elsevier SciVal registry, donated to FundRef

● Hosted by CrossRef, available under CC0

● Will be added to and updated

● Publishers to use this list to ensure consistency

Look up funding data



CrossRef^{beta} metadata search



[Help! - Example Queries](#)

<http://search.crossref.org>

TYPE

Journal Article (11)

YEAR

1998 (4)

1997 (2)

1999 (1)

2002 (1)

2006 (1)

2012 (1)

2013 (1)

OA STATUS

Other (11)

PUBLICATION

Public Money and Management (7)

Annals Psychoceramics B (1)

Annals of Psychoceramics B (1)

Geriatric Nursing (1)

Journal of Consulting and Clinical Psychology (1)

Phys. Fluids (1)

Physics of Fluids (1)

CATEGORY

Business, Management and Accounting(all) (7)

Public Administration (7)

SORT BY: RELEVANCE PUBLICATION YEAR

PAGE 1 OF 11 RESULTS

Journal Article Characterization of the transport topology in patient-specific abdominal aortic aneurysm models

Published **2012** in **Physics of Fluids** , volume **24** , issue **8** , on page **081901**

Research funded by **National Institutes of Health**

Authors: Amirhossein Arzani, Shawn C. Shadden

<http://dx.doi.org/10.1063/1.4744984> [More](#)

Journal Article Juvenile drug court: Enhancing outcomes by integrating evidence-based treatments.

Published **2006** in **Journal of Consulting and Clinical Psychology** , volume **74** , issue **1** , on pages **42 to 54**

Research funded by **National Institute on Alcohol Abuse and Alcoholism | Substance Abuse and Mental Health Services Administration | National Institute on Drug Abuse | Agency for Healthcare Research and Quality**

Authors: Scott W. Henggeler, Colleen A. Halliday-Boykins, Phillippe B. Cunningham, Jeff Randall, Steven B. Shapiro, Jason E. Chapman

<http://dx.doi.org/10.1037/0022-006x.74.1.42> [More](#)

Journal Article The Global State of Psychoceramics Research

Published **3 Feb 2013** in **Annals of Psychoceramics B** , volume **2013** , on pages **1 to 8**

Research funded by **National Science Foundation | Basic Energy Sciences, Office of Science, U.S. Department of Energy**

Authors: Josiah Carberry

<http://dx.doi.org/10.5555/515151> [More](#)

TYPE

- Book Chapter (34)
- Journal Article (19)
- Book (1)

YEAR

- 1979 (29)
- 1999 (15)
- 2009 (5)
- 1997 (1)
- 1998 (1)
- 2001 (1)
- 2010 (1)
- 2012 (1)

OA STATUS

- Other (54)

PUBLICATION

- Lecture Notes in Mathematics (29)
- Algebraic Topology Waterloo 1978 (28)

SORT BY: **RELEVANCE** PUBLICATION YEAR

PAGE 1 OF 54 RESULTS

Journal Article **Characterization of the transport topology in patient-specific abdominal aortic aneurysm models**

Published **2012** in **Physics of Fluids**, volume **24**, issue **8**, on page **081901**

Research funded by National Institutes of Health

Authors: Amirhossein Arzani, Shawn C. Shadden

<http://dx.doi.org/10.1063/1.4744984> [More](#)

Journal Article **A general technique for assessing the numerical accuracy of solute transport models**

Published **Dec 1999** in **Water Resources Research**, volume **35**, issue **12**, on pages **3961** to **3966**

Research funded by

Authors: Feng Ruan, Dennis McLaughlin, Shuguang Li

<http://dx.doi.org/10.1029/1999wr900244> [More](#)



TYPE

Journal Article (1)

YEAR

2013 (1)

OA STATUS

Other (1)

PUBLICATION

Annals
Psychoceramics B (1)

Annals of
Psychoceramics B (1)

CATEGORY

FUNDER NAME

Basic Energy
Sciences, Office of
Science, U.S.
Department of Energy (1)

National Science
Foundation (1)

SOURCE

CrossRef (1)

Showing results for ORCID matching 0000-0002-1825-0097

SORT BY: **RELEVANCE** PUBLICATION YEAR PAGE 1 OF 1 RESULTS

Journal Article **The Global State of Psychoceramics Research**

Published **3 Feb 2013** in **Annals of Psychoceramics B** volume **2013** on pages **1 to 8**

Research funded by National Science Foundation | Basic Energy Sciences, Office of Science, U.S.
Department of Energy

Authors: Josiah Carberry

<http://dx.doi.org/10.5555/515151> [More](#)

Key Pilot Accomplishments



Industry-wide methodology for connecting scholarly publications to research funders demonstrated



Funder name and grant number metadata deposited to CrossRef



Scival funder taxonomy (contributed by Elsevier) used
Requirements for ongoing Funder Registry defined



CrossRef to run Funder Registry
FundRef Search created



Search

Search for funders by name.

Funder Name

Download as delimited file:

FundRef

↓

data

[Get list of funder names](#)

Journal Title	Author	ISSN	Volume	Issue	Page	Year	Funder	Funder ID
The Journal of Chemical Physics								
Papajak								
00219606								
137								
10								
104314								
2012								
							U.S. Department of Energy	DE-FG02-86ER13579
							Basic Energy Sciences, Office of Science, U.S. Department of Energy	DE-SC0001198
http://dx.doi.org/10.1063/1.4742968								
Thermochemistry of radicals formed by hydrogen abstraction from 1-butanol, 2-methyl-1-propanol, and butanal								
Physics of Plasmas								
Heinrich								
1070664X								
19								
8								
083702								
2012								
							National Science Foundation	PHY-0903808, PHY-0923141
							National Aeronautics and Space Administration	NNX10AR54G
							U.S. Department of Energy	DE-FG01-04ER54795
http://dx.doi.org/10.1063/1.4742992								
Secondary dust density waves excited by nonlinear dust acoustic waves								
Physics of Fluids								
Murray								
10706631								
24								
8								
083303								
2012								
							National Aeronautics and Space Administration	NNX09AD07A
							U.S. Department of Energy	DE-FC26-07NT43098
http://dx.doi.org/10.1063/1.4744987								
Continuum representation of a continuous size distribution of particles engaged in rapid granular flow								
Journal of Applied Physics								
Kathan-Galipeau								
00218979								
112								
5								
052011								
2012								
							National Science Foundation	DMR-00-0805174
							U.S. Department of Energy	DE-FG02-07ER46417
							Basic Energy Sciences, Office of Science, U.S. Department of Energy	DE-SC0002334
http://dx.doi.org/10.1063/1.4746081								
Direct determination of the effect of strain on domain morphology in ferroelectric superlattices with scanning probe microscopy								

Search for funders by name.

Funder Name

Nat

Get list of funder names

- National Institutes of Health
- national
- national science
- national science foundation
- National Science Foundation

Search for funders by name.

Funder Name

Download as delimited file:

[Get list of funder names](#)

Journal Title	Author	ISSN	Volume	Issue	Page	Year	FundRef Funders	Grant number
Persistent Link								
Article Title								
Physics of Fluids	Arzani	10706631	24	8	081901	2012	National Institutes of Health	5R21HL108272
http://dx.doi.org/10.1063/1.4744984								
Characterization of the transport topology in patient-specific abdominal aortic aneurysm models								
Applied Physics Letters	Li	00036951	101	11	113116	2012	National Institutes of Health	R21CA132075
http://dx.doi.org/10.1063/1.4746747								
Near-field enhanced ultraviolet resonance Raman spectroscopy using aluminum bow-tie nano-antenna								
The Journal of Chemical Physics	Bhatt	00219606	137	10	104101	2012	National Institutes of Health	5R01 GM086238, U54 GM087519
http://dx.doi.org/10.1063/1.4748278								
An adaptive weighted ensemble procedure for efficient computation of free energies and first passage rates								
The Journal of Chemical Physics	Kuzma	00219606	137	10	104508	2012	National Institutes of Health	RO1 EB010208
http://dx.doi.org/10.1063/1.4751021								
Cluster formation restricts dynamic nuclear polarization of xenon in solid mixtures								
The Journal of Chemical Physics	Minh	00219606	137	10	104106	2012	National Science Foundation	CHE10-57953 2P50 GM-

Funders in data now

- Air Force Office of Scientific Research
- Air Force Research Laboratory (AFRL)
- Army Research Office
- Australian Research Council
- Basic Energy Sciences, Office of Science, U.S. Department of Energy
- Boeing
- Defense Threat Reduction Agency
- Glenn Research Center, NASA
- National Aeronautics and Space Administration
- National Institutes of Health
- National Nuclear Security Administration, U.S. Department of Energy
- National Science Foundation
- Office of Naval Research
- U.S. Department of Energy

Who does what now?

- **CrossRef**
 - Coordinate and manage FundRef
 - Maintain Funder Registry
 - Include FundRef data in metadata
 - Charter advisory group



Role of Publishers

- Modify systems to collect and display controlled funder information metadata;
- Work with manuscript tracking systems
- Work with production vendors
- Deposit funder and grant info to CrossRef with or after bibliographic metadata deposits



Role of Funders, Authors

- **Funders:**
 - Educate grant recipients
 - Explore ways to use FundRef data and DOIs
- **Authors:**
 - Supply accurate funder name(s) and award number(s)



Stakeholder Benefits

Researchers

Evaluate scholarly content based on standard funding information across publishers

**Research
Institutions**

Track productivity of researchers and funders supporting them

Publishers

Track funders supporting journal content

Funders

Demonstrate scholarly outcome from expenditures

Public

Monitor research spending and outcomes

FAQs

- Do agencies have to become CrossRef members to access or use FundRef data?

No

- Is there a way that the award numbers can be validated?

Not currently

- Can one sort on the agency and then search in the award field, say for a specific division at NSF?

No

- What happens when a paper cites multiple awards? How do we see that?

We return those results

Get list of funder names

Journal Title	Author	ISSN	Volume	Issue	Page	Year	FundRef Funders	Grant number
Persistent Link								
Article Title								
Physics of Fluids	Arzani	10706631	24	8	081901	2012	National Institutes of Health	5R21HL108272
http://dx.doi.org/10.1063/1.4744984								
Characterization of the transport topology in patient-specific abdominal aortic aneurysm models								
Applied Physics Letters	Li	00036951	101	11	113116	2012	National Institutes of	

The Journal of Chemical Physics	Minh	00219606	137	10	104106	2012	National Science Foundation
---------------------------------	------	----------	-----	----	--------	------	-----------------------------

http://dx.doi.org/10.1063/1.4751284

National Institutes of Health

Implicit ligand theory: Rigorous binding free energies and thermodynamic expectations from molecular docking

IEEE Transactions on Nuclear Science	Rozler	00189499	58	5	2226	2011	U.S. Department of Energy	DE-SC0002138
--------------------------------------	--------	----------	----	---	------	------	---------------------------	--------------

http://dx.doi.org/10.1109/TNS.2011.2163190

National Institutes of Health

Collimator Interchange System for Adaptive Cardiac Imaging in C-SPECT

IEEE Transactions on Nuclear Science	Rozler	00189499	58	5	2226	2011	U.S. Department of Energy	DE-SC0002138
http://dx.doi.org/10.1109/TNS.2011.2163190							National Institutes of Health	HL081414
Collimator Interchange System for Adaptive Cardiac Imaging in C-SPECT								
IEEE Transactions on								SCF

Get list of funder names

Journal Title	Author	ISSN	Volume	Issue	Page	Year	FundRef Funders	Grant number
Persistent Link								
Article Title								
Physics of Fluids	Arzani	10706631	24	8	081901	2012	National Institutes of Health	5R21HL108272
http://dx.doi.org/10.1063/1.4744984								
Characterization of the transport topology in patient-specific abdominal aortic aneurysm models								
Applied Physics Letters	Li	00036951	101	11	113116	2012	National Institutes of	

The Journal of Chemical Physics	Minh	00219606	137	10	104106	2012	National Science Foundation
---------------------------------	------	----------	-----	----	--------	------	-----------------------------

http://dx.doi.org/10.1063/1.4751284

National Institutes of Health

Implicit ligand theory: Rigorous binding free energies and thermodynamic expectations from molecular docking

IEEE Transactions on Nuclear Science	Rozler	00189499	58	5	2226	2011	U.S. Department of Energy
--------------------------------------	--------	----------	----	---	------	------	---------------------------

http://dx.doi.org/10.1109/TNS.2011.2163190

National Institutes of Health

Collimator Interchange System for Adaptive Cardiac Imaging in C-SPECT

IEEE Transactions on Nuclear Science	Rozler	00189499	58	5	2226	2011	U.S. Department of Energy	DE-SC0002138	
http://dx.doi.org/10.1109/TNS.2011.2163190								National Institutes of Health	HL081414
Collimator Interchange System for Adaptive Cardiac Imaging in C-SPECT									
IEEE Transactions on									



Next Steps

Launching end of this month (May 2013)

No fees for FundRef Queries unless
you need an Affiliate Account



Want to know More About FundRef?

- ▶ Handout available
- ▶ The FundRef Factsheet with Workflow
- ▶ See FundRef page at:
www.crossref.org/fundref

P.S. Relationship to

- FundRef is a key part of a proposal to help agencies meet the Public Access mandate
- Distributed infrastructure in place to link to publically available scholarly documents
- Broad network
- Emphasis on preservation and persistence
- Complimentary to Agency-specific

P.P.S. Open Access Article Level Indicators

For release: 07 Feb 2013

NISO Launches New Initiative to Develop Standard for Open Access Metadata and Indicators

Interested participants from all library types, publishers, and funding agencies are encouraged to contact NISO

- Article level OA indicators will support discovery of OA content in hybrid journals.



FUNDER

Inter-connected network



cmeyer@crossref.org
@meyercarol