

# CrossRef Workshop on Good Practice Publishing Vilnius, Lithuania June 2015



# The problem:

- How can we identify funders from published documents?
- Publishers put funding information
  - in different places
  - embedded in text rather than tagged and searchable
  - tagged but in a non-standard way
  - using different names and abbreviations

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?

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-  [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<sup>1,2\*</sup>, Christina Pawliczek<sup>2,5</sup>, Bernhard W. Müller<sup>3</sup>, Elke R. Gizewski<sup>4,6</sup>, Henrik Walter<sup>7</sup>

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## 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

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**Competing Interests:** The authors have declared that no competing interests exist.

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## 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) [19]

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

Salah Boudjadi<sup>1,2</sup>, Julie C Carrier<sup>1,2</sup> and Jean-François Beaulieu<sup>1\*</sup>

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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:

<http://www.biomarkerres.org/content/1/1/16>

Received: 11 December 2012

Accepted: 1 March 2013

Published: 7 March 2013

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## Abstract

## 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.

# Can we extract this funder information from the XML text?

- **Not easily**

In this example the information is tagged as a footnote



```
<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>
```

# ... even when tagged, still not easily

- No standardization
- This publishers uses
  - “Grant-sponsor” and “Grant-num”
- Other publishers may use different tags

```
...
<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>
```

# And other problems

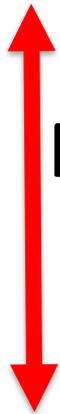
- Different abbreviations
  - National Institutes of Health
  - N.I.H.
  - NIH
- Misspellings
- Translations
- ... etc...

# Why does this matter?

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

# The solution: FundRef links

- Funders record where they spend their money



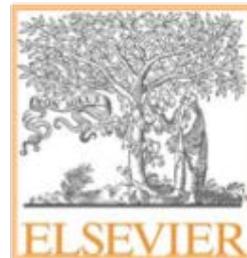
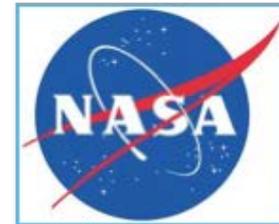
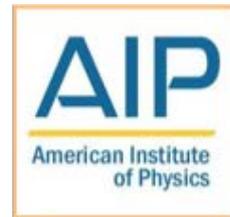
**FundRef links these processes**



- Publishers publish the outcomes of research

# History: where FundRef came from

- Pilot project with publishers and funders
  - 2012 to 2013
- Go-ahead granted March 2013

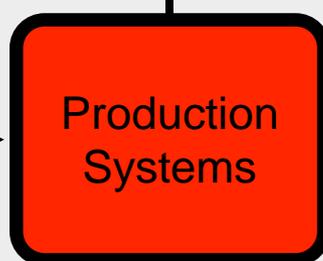
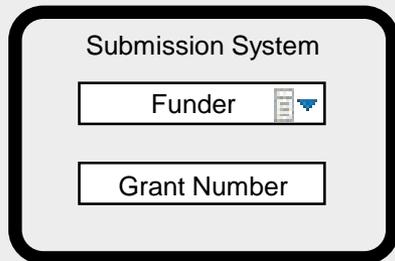
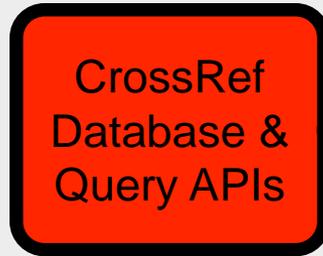


# FundRef Registry

- Agreed taxonomy of funding bodies
  - 8800 names
  - Updated monthly
  - Donated by the Elsevier SciVal curated list, with additions from other publishers
- The list is freely available for anyone to use
  - [www.crossref.org/fundref/fundref\\_registry.html](http://www.crossref.org/fundref/fundref_registry.html)
- Grant numbers are free text
  - Because too many to track

# How it works

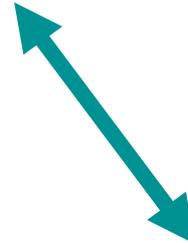
- Funding and grant number information is included in the article metadata
  - Submitted to CrossRef with DOI data



Publisher

Deposited with the article metadata and DOI

**DOI**



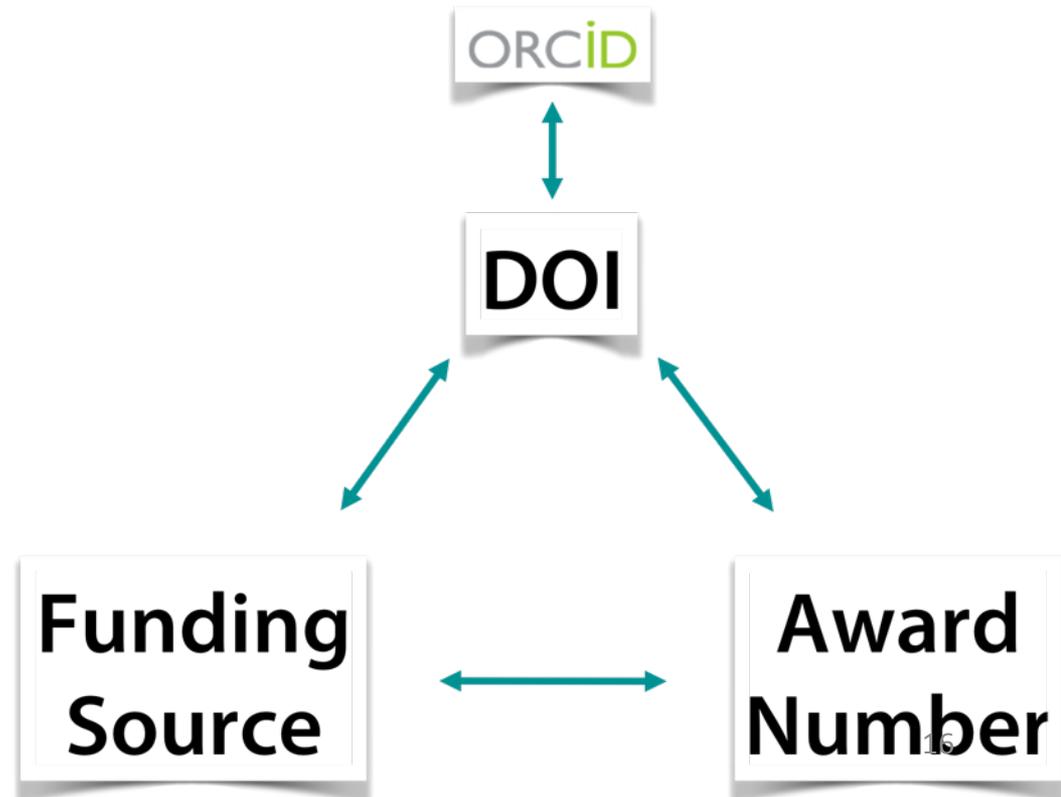
**Funding  
Source**



**Award  
Number**

# ... and further linking

- Link with ORCID
  - ORCID = unique author identifiers
- The DOI links
  - the researchers
  - their funders
  - their publications



# What is ORCID

<http://orcid.org/>

- Free registry for researchers/authors
  - Non profit organization of funders, publishers and associations
- Provides unique identification for authors
  - E. Dagiene / Eleonora Dagiene / Dagiene Eleonora Provides profile page
  - Will look for publications using CrossRef system
- Becoming embedded in submission systems
  - Included within metadata

# DISTINGUISH YOURSELF IN THREE EASY STEPS

ORCID provides a persistent digital identifier that distinguishes you from every other researcher and, through integration in key research workflows such as manuscript and grant submission, supports automated linkages between you and your professional activities ensuring that your work is recognized. [Find out more.](#)

1

**REGISTER** Get your unique ORCID identifier [Register now!](#)  
Registration takes 30 seconds.

2

**ADD YOUR  
INFO** Enhance your ORCID record with your  
professional information and link to your other  
identifiers (such as Scopus or ResearcherID or  
LinkedIn).

3

**USE YOUR  
ORCID ID** Include your ORCID identifier on your Webpage,  
when you submit publications, apply for grants, and  
in any research workflow to ensure you get credit  
for your work.



## LATEST NEWS

Mon, 2015-05-18  
FI000 and ORCID  
Partner to Launch  
Standard for Citing  
Peer Review  
Activities

Fri, 2015-05-15  
ORCID Announces  
Newly Formed  
Global Membership  
Team

## Pippa Smart



## Biography



Worked in publishing since 1986 for Blackwell, CABI, CUP. Worked with editors and publishers in the developing world with INASP. Publishing and editorial consultant since 2007.

## ORCID ID

orcid.org/0000-0002-5528-4704

[View Public Profile](#)

[Get a QR Code for your iD](#)

Also known as

Country  
United Kingdom

Keywords  
training, consultant, STM publishing

Websites

[Education \(1\)](#)[Employment \(7\)](#)[Funding \(0\)](#)[Works \(19\)](#)

[+ Add works](#)

[Bulk edit](#)

[Sort](#)

**The big picture: scholarly publishing trends 2014**

Sci Ed

2014-08 | journal-article

DOI: [10.6087/kcse.2014.1.52](#), ISSN: 2288-8063

Source: CrossRef Metadata Search

Preferred source

 **What Editors Want: An Author's Guide to Scientific Journal Publishing**

Learn. Pub.

2014-04 | journal-article

DOI: [10.1087/20140212](#), ISSN: 0953-1513

Source: CrossRef Metadata Search

Preferred source

 **Books: A Living History**

2012-10 | journal-article

19

# FundRef

## Who adds funding information?

- Authors provide information during submission

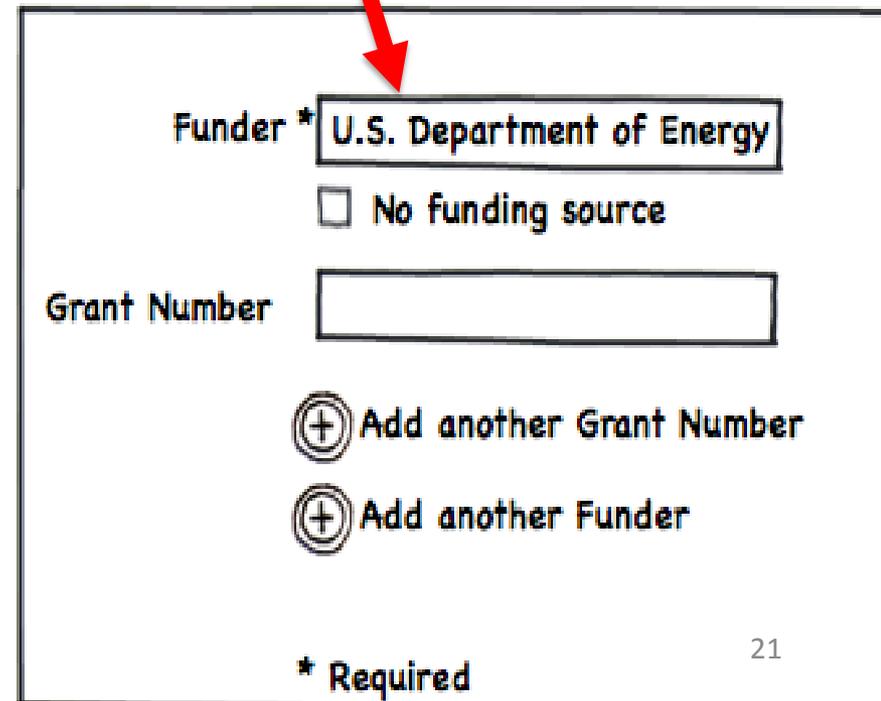
... Or ...

- Publishers add funder information after acceptance

# 1. Authors provide information at submission

- Authors need to provide the information
  - During submission process?
  - (Make sure your instructions are VERY clear)
  - “The information submitted here should match the information provided in the paper’s acknowledgement section.”

This needs to come from the FundRef Registry



Funder \*

No funding source

Grant Number

Add another Grant Number

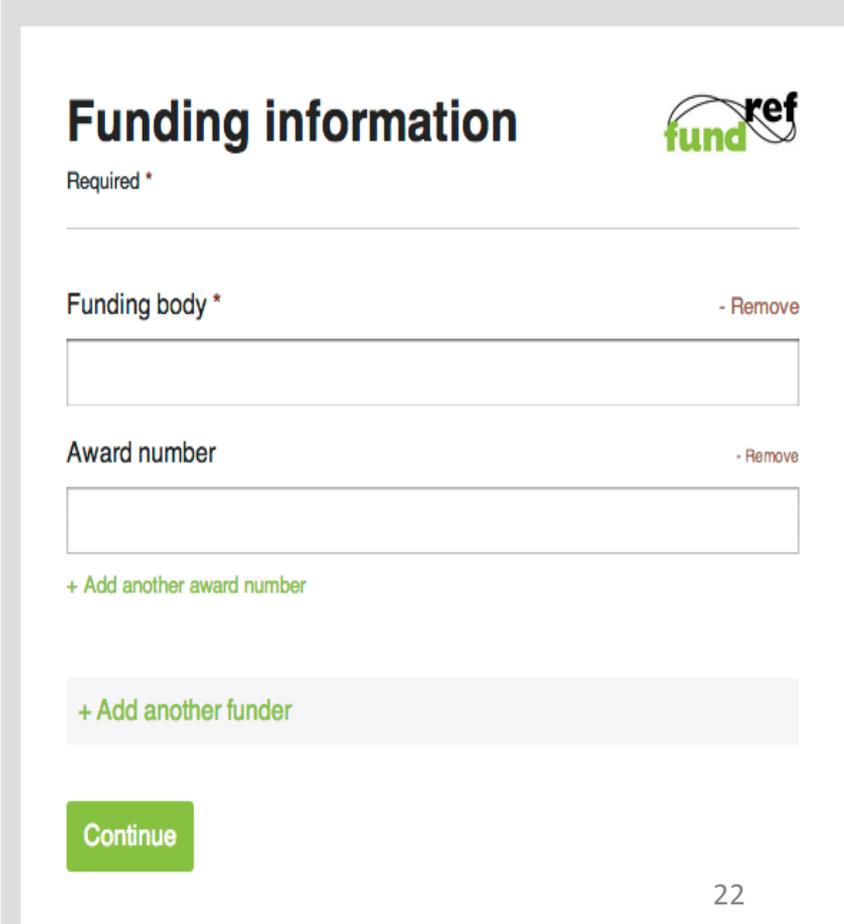
Add another Funder

\* Required

# Implementation widget

<http://labs.crossref.org/fundref-widget/>

- Add this widget to your submission pages
- It allows the author to choose funder names from the FundRef Registry



**Funding information** 

Required \*

Funding body \* - Remove

Award number - Remove

+ Add another award number

+ Add another funder

**Continue**

## 2. Publishers add funding information after acceptance

- Manually extract from the article
  - Match what the author says with the FundRef Registry
- Extract funding metadata from previously published articles and match using FundRef reconciliation service

# FundRef Reconciliation Service

<http://labs.crossref.org/fundref-reconciliation-service/>



## FundRef Reconciliation Service

### What?

The [FundRef](#) Reconciliation Service is designed to help publishers (or anybody) more easily clean-up their funder data and map it to the [FundRef Registry](#). It is built on [Open Refine](#) and [FundRef Metadata Search](#).

If you are impatient and want to see it working, then skip to the short [15-minute video tutorial](#).

Or read on...

### Why?

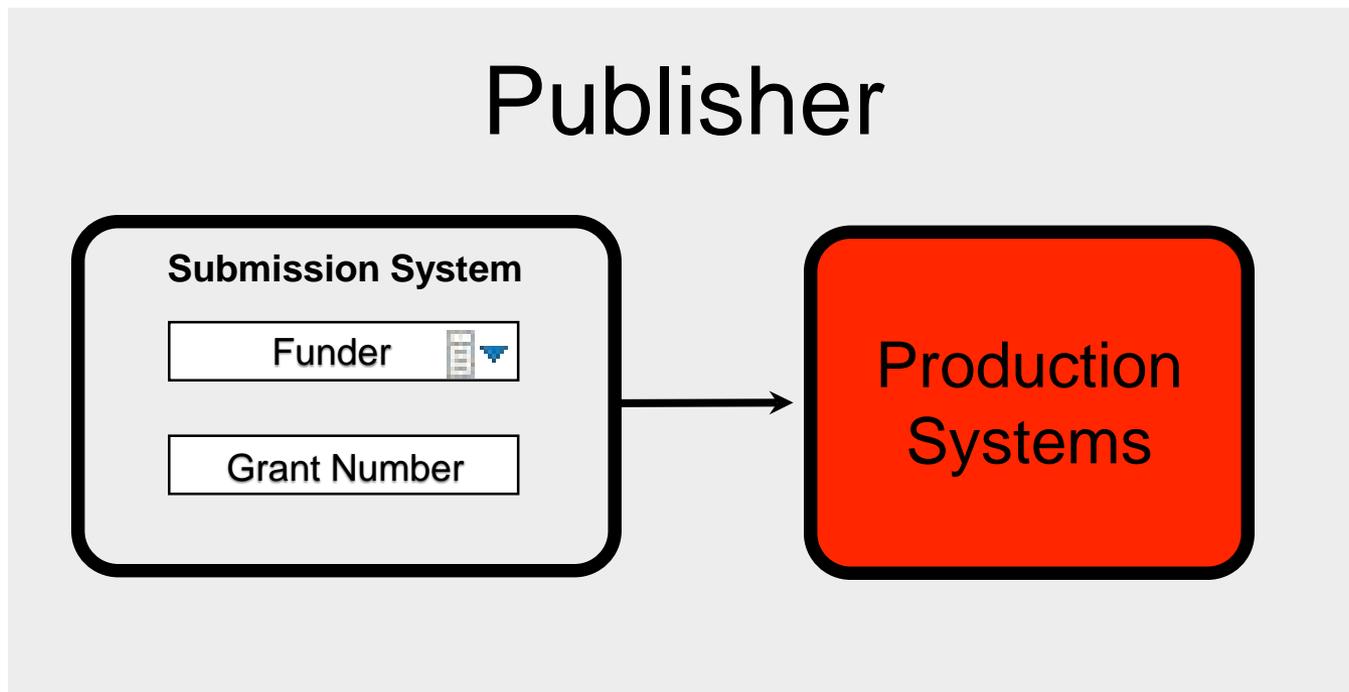
Some of our members have been collecting data related to the funding of publications for years. Ideally, we would like them to submit funder metadata for their backfiles into the FundRef system. However, we realize that there are at least two major barriers to doing this:

Useful video



# Finally ...

- Make sure that the funder information is integrated with the article metadata before deposit to CrossRef



# The technical stuff

- This is an example of what the metadata looks like

```
<fr:program name="fundref">  
  <fr:assertion name="funder_name">National Science Foundation  
    <fr:assertion name="funder_identifier">http://dx.doi.org/10.13039.100000001</fr:assertion>  
  </fr:assertion>  
  <fr:assertion name="award_number">psychoceramics-1152342</fr:assertion>  
</fr:program>
```

# **USING FUNDREF DATA: FINDING FUNDED PUBLICATIONS**

# Finding funded publications

<http://search.crossref.org/fundref>

Metadata Search  Sign in with ORCID

fundref<sup>beta</sup>  
search

[Help! - Example Queries](#) 

# Autofill helps find the right funder

Metadata Search  Sign in with ORCID

**fundref** beta  
search

 Lithua

Lietuvos Mokslo Taryba Lithuania

Lietuvos Valstybinis Mokslo ir Studiju Fondas Lithuania

# And you see the articles funded

## LIETUVOS MOKSLO TARYBA

### TYPE

Journal Article (56)

### YEAR

2015 (45)

2014 (11)

### PUBLICATION

Medicina (3)

Phys. Rev. A (3)

Physical Review A (3)

Solid State Ionics (3)

Applied Surface Science (2)

Food Chemistry (2)

J. Appl. Phys. (2)

J. Phys. Chem. A (2)

Journal of Applied Physics (2)

Optical Materials (2)

### CATEGORY

Surfaces, Coatings and Films (8)

Condensed Matter Physics (7)

Electronic, Optical and Magnetic Materials (7)

Atomic and Molecular Physics, and Optics (5)

Food Science (5)

Materials Science(all) (5)

SORT BY: **RELEVANCE** PUBLICATION YEAR

📄 DOWNLOAD AS CSV

PAGE 1 OF 56 RESULTS

Stable carbon fractionation in size-segregated aerosol particles produced by controlled biomass burning

**Journal Article** published **Jan 2015** in **Journal of Aerosol Science** volume **79** on pages **86** to **96**

Research funded by "Pollution Control in Biomass Combustion: from Pollutant Formation to Human Exposure" (BioMassPoll) (ATE05/2012) | Lietuvos Mokslo Taryba

Authors: A. Garbaras, A. Masalaite, I. Garbariene, D. Ceburnis, E. Krugly, V. Remeikis, E. Puida, K. Kvietkus, D. Martuzevicius

🔗 <http://dx.doi.org/10.1016/j.jaerosci.2014.10.005> ⌵ Actions

Effect of the photoinitiator presence and exposure conditions on laser-induced damage threshold of ORMOSIL (SZ2080)

**Journal Article** published **Jan 2015** in **Optical Materials** volume **39** on pages **224** to **231**

Research funded by Lietuvos Mokslo Taryba

Authors: Albertas Žukauskas, Gintarė Batavičiūtė, Mindaugas Ščiuka, Zigmas Balevičius, Andrius Melninkaitis, Mangirdas Malinauskas

🔗 <http://dx.doi.org/10.1016/j.optmat.2014.11.031> ⌵ Actions

Discovery and Characterization of Novel Selective Inhibitors of Carbonic Anhydrase IX

**Journal Article** published **26 Nov 2014** in **Journal of Medicinal Chemistry** volume **57** issue **22** on pages **9435** to **9446**

Research funded by Lietuvos Mokslo Taryba (LIG-09/2012) | European Cooperation in Science and Technology (TD0905) | European Commission (245721)

Authors: Virginija Dudutienė, Jurgita Matulienė, Alexey Smirnov, David D. Timm, Asta Zubrienė, Lina Baranauskienė, Vaida Morkūnaitė, Joana Smirnovienė, Vilma Michailovienė, Vaida Juozapaitienė, Aurelija Mickevičiūtė, Justina Kazokaitė, Sa ...

🔗 <http://dx.doi.org/10.1021/jm501003k> ⌵ Actions

You can also use CrossRef Metadata Search

<http://search.crossref.org/>

**crossref**  
metadata search

# Enter a grant number, find an article

Q R21CA132075

FundRef Link References

## TYPE

Journal Article (1)

## YEAR

2012 (1)

## OA STATUS

Other (1)

## PUBLICATION

Appl. Phys. Lett. (1)

Applied Physics Letters (1)

## CATEGORY

Physics and Astronomy  
(miscellaneous) (1)

## PUBLISHER

AIP Publishing (1)

## FUNDER NAME

National Institutes of Health (1)

## SOURCE

CrossRef (1)

SORT BY: **RELEVANCE** PUBLICATION YEAR

Near-field enhanced ultraviolet resonance Raman spectroscopy using alumin

**Journal Article** published **10 Sep 2012** in **Applied Physics Letters** volume **101** issue **11** on page 1

Research funded by National Institutes of Health (R21CA132075)

Authors: Ling Li, Shuang Fang Lim, Alexander A. Puretzky, Robert Riehn, H. D. Hallen

<http://dx.doi.org/10.1063/1.4746747> [Actions](#)

# Search for a DOI and get funder information



10.1063/1.4744984

Sign in with ORCID

## TYPE

Journal Article (1)

## YEAR

2012 (1)

## OA STATUS

Other (1)

## PUBLICATION

Phys. Fluids (1)

Physics of Fluids (1)

## CATEGORY

Condensed Matter Physics (1)

## PUBLISHER

AIP Publishing (1)

SORT BY: **RELEVANCE** PUBLICATION YEAR

PAGE 1 OF 1 RESULTS

Showing DOI matching **10.1063/1.4744984**

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

**Journal Article** published **1 Aug 2012** in **Physics of Fluids** volume **24** issue **8** on page **081901**

Research funded by National Institutes of Health (5R21HL108272)

Authors: Amirhossein Arzani, Shawn C. Shadden

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

# Or search by ORCID to find all articles from an author - with funder information



0000-0002-1825-0097

Sign in with ORCID

## TYPE

Journal Article (3)

## YEAR

2013 (2)

2008 (1)

## OA STATUS

Other (3)

## PUBLICATION

Annals of  
Psychoceramics B (2)

Annals of  
Psychoceramics B (2)

Journal of  
Psychoceramics (1)

## CATEGORY

## PUBLISHER

CrossRef (3)

SORT BY: RELEVANCE PUBLICATION YEAR

PAGE 1 OF 3 RESULTS

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

## The Global State of Psychoceramics Research

**Example Item** published **2013** in **Annals of Psychoceramics B** volume **2013** on pages **1** to **8**

Research funded by Basic Energy Sciences, Office of Science, U.S. Department of Energy (high-energy-metaphysics-SC0001091) | National Science Foundation (psychoceramics-1152342)

Authors: Josiah Carberry

Other IDs: 515151, 515151

<http://dx.doi.org/10.5555/515151> Actions

**PARTICIPATE**

# Who can use FundRef

- Any member of CrossRef
  - (Optional) Part of DOI deposit
- No charge

# Join up

- Publishers
  - Join FundRef and start implementing deposit
- Funders / universities
  - Start using the free search and lookup tools to identify funded articles
- Anyone else
  - Start using the free search and lookup tools to see where research funding is coming from!