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公丕俭

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EBSCO

Journal citations are the current state of Scholarly Measure

Journal Impact Factor 3.161

Elastic ice shells of synchronous moons: Implications for cracks on Europa and non-synchronous rotation of Titan

Peter M. Goldreich^{a,b}, Jonathan L. Mitchell^{c,b}

Abstract

A number of synchronous moons are thought to harbor water oceans beneath their outer ice shells. A subsurface ocean frictionally decouples the shell from the interior. This has led to proposals that a weak tidal or atmospheric torque might cause the shell to rotate differentially with respect to the synchronously rotating interior. Applications along these lines have been made to Europa and Titan. However, the shell is coupled to the ocean by an elastic torque. As a result of centrifugal and tidal forces, the ocean would assume an ellipsoidal shape with its long axis aligned toward the parent planet. Any displacement of the shell away from its equilibrium position would induce strains thereby increasing its elastic energy and giving rise to an elastic restoring torque. In the investigation reported on here, the elastic torque is compared with the tidal torque acting on Europa and the atmospheric torque acting on Titan.

References

Anderson, J. D., Schubert, G., Jacobson, R. A., Lau, E. L., Moore, W. B., Sjogren, W. L., Sep. 1998. Europa's Differentiated Internal Structure: Inferences from Four Galileo Encounters. *J. Geophys. Res.* 103, 2087-2099.

Greenberg, R., Hoppa, G., Helfenstein, P., McEwen, A., Pappalardo, R., Tufts, R., Ockert-Bell, M., Sullivan, R., Greeley, R., Belton, M. J. S., Denk, T., Clark, B. E., Burns, J., Veverka, J., Jan. 1998. Evidence for non-synchronous rotation of Europa. *Nature* 391, 368.

Ghatak, A., Mahadevan, L., Nov. 2003. Crack Street: The Cylindrical Wake of a Cylinder Tearing through a Thin Sheet. *Physical Review Letters* 91 (21), 215507.

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Greenberg, R., Hoppa, G. V., Tufts, B. R., Geissler, P., Riley, J., Kadel, S., Oct. 1999. Chaos on Europa. *Icarus* 141, 263-286.

Greenberg, R., Weidenschilling, S. J., May 1984. How fast do Galilean satellites spin? *Icarus* 25, 186-196.

Europa's Differentiated Internal Structure: Inferences from Four Galileo Encounters

J. D. Anderson, G. Schubert, R. A. Jacobson, E. L. Lau, W. B. Moore, W. L. Sjogren

Europa's internal structure is investigated using the gravimetric data from the Galileo spacecraft. The data are used to constrain the internal structure of Europa, and to infer the presence of a subsurface ocean. The results are compared with the predictions of models of Europa's internal structure. The data are consistent with a model of Europa that has a differentiated internal structure, with a core of silicate rock and a mantle of ice. The presence of a subsurface ocean is also inferred from the data. The results are compared with the predictions of models of Europa's internal structure. The data are consistent with a model of Europa that has a differentiated internal structure, with a core of silicate rock and a mantle of ice. The presence of a subsurface ocean is also inferred from the data.

Parameter	Value	Uncertainty
Core radius (km)	1000	± 100
Mantle radius (km)	1500	± 100
Core density (g/cm ³)	3.5	± 0.2
Mantle density (g/cm ³)	1.5	± 0.1
Ice shell thickness (km)	100	± 10
Subsurface ocean depth (km)	50	± 10

Terrestrial Sea Ice Morphology: Considerations for Europa

Robert Greeley and Robert Sullivan

Terrestrial sea ice morphology is compared with the morphology of Europa's ice shell. The results are compared with the predictions of models of Europa's internal structure. The data are consistent with a model of Europa that has a differentiated internal structure, with a core of silicate rock and a mantle of ice. The presence of a subsurface ocean is also inferred from the data.

1. INTRODUCTION

Most of the outer planet satellites are composed of ice and rock, and are thought to have differentiated internal structures. The results are compared with the predictions of models of Europa's internal structure. The data are consistent with a model of Europa that has a differentiated internal structure, with a core of silicate rock and a mantle of ice. The presence of a subsurface ocean is also inferred from the data.

A man with dark hair and glasses, wearing a light pink button-down shirt and a black backpack strap, is looking down at a tablet computer he is holding with both hands. He is in a library or study area, with wooden bookshelves filled with books in the background. The lighting is warm and focused on the man.

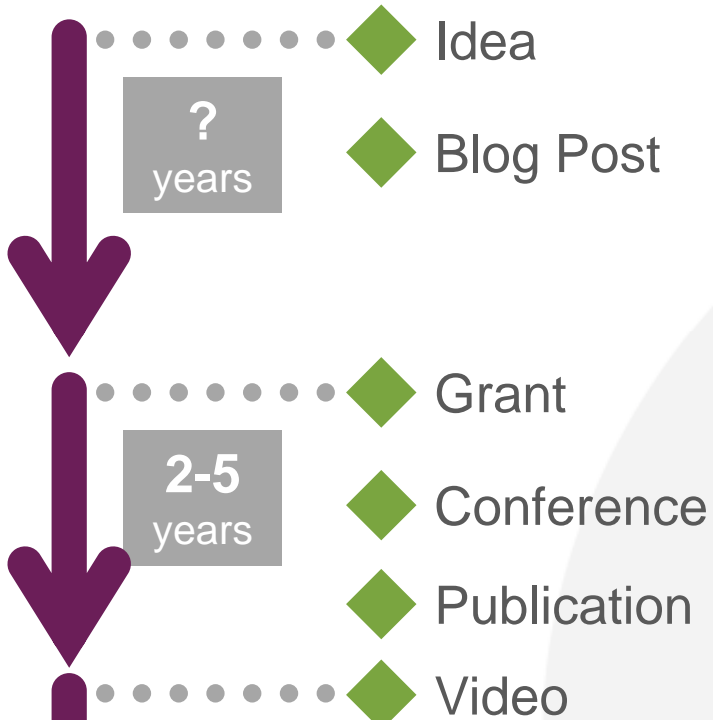
Researchers have Moved Online

学术交流渠道/分享/使用



Metrics timeline: From Idea to Impact

计量分析的演进：从 有想法到有影响力



从有想法到发表文章在同行评审的期刊至少需要2-5年

Before PlumX

从有想法到有显著引文数据需要5-10年

由于学术发表的惯性，文章发表后通常需要另外3-5年方可获得显著数量的引文数据

After PlumX

立即可用/视的计量

- click
- tweet
- presentation view
- dataset download
- PDF download
- bookmark
- save reference
- video play
- share
- citation counts
- citation counts

Our Approach to Altmetrics

- Citations
- Usage
- Captures
- Mentions
- Social Media



Altmetrics

Our Approach to Metrics






























PlumX所使用之计量分析

- Citations
- Usage
- Captures
- Mentions
- Social Media

ALLmetrics

Samples of PlumX Metrics Sources

计量来源范例

-  Amazon
-  Bit.ly
-  CrossRef
-  Delicious
-  Dryad
-  dSpace
-  EBSCO
-  ePrints
-  Facebook
-  figshare
-  Github
-  Goodreads
-  Google+
-  Medwave
-  Mendeley
-  PLOS
-  PubMed Central
-  Reddit
-  Research Blogging
-  Scopus
-  SlideShare
-  SourceForge
-  Stack Overflow
-  Twitter
-  USPTO
-  Vimeo
-  Wikipedia
-  Worldcat (OCLC)
-  YouTube

中文资源协议目标(大陆地区)



国家哲学社会科学学术期刊数据库
National Social Sciences Database

知乎



中国科技期刊开放获取平台
China Open Access Journals



中国科学院 机构知识库服务网格
CHINESE ACADEMY OF SCIENCES Institutional Repositories Grid



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All Types of Research Artifacts

各类型研究产出的计量数据源

- Articles
- Blog posts
- Book chapters
- Books
- Cases
- Clinical Trials
- Conference Papers
- Data Sets
- Figures
- Grants
- Interviews
- Letters
- Media
- Patents
- Posters
- Presentations
- Reports
- Source Code
- Theses / Dissertations
- Videos
- Web Pages





Not Copy Machine

魏均寰(云林科技大学)

Poster designed by Chun-Huan Wei awarded as
Best of the Best at 2012 RedDot Design Award
(Communication Design)

孩子不再是父母的「拷贝机」！

现今社会在教育孩童成长的过程中，父母往往会以主观的想法教育孩童，并认为自己的想法对孩子是最好的人生规划，但孩子的潜力是充满无限的可能。作品「Not Copy Machine」即反应父母不该用既有的想法，局限孩子发展的潜能，应多关心孩子内心真正的想法与其梦想，从旁协助孩子开拓视野，确立人生发展的目标。

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PLUMx

Metrics

Categories



USAGE

(clicks, downloads, views,
library holdings, video plays)



CAPTURES

(bookmarks, code forks, favorites,
readers, watchers)



MENTIONS

(blog posts, comments, reviews,
Wikipedia links)



SOCIAL MEDIA

(+1s, likes, shares, tweets)



CITATIONS

(PubMed Central, Scopus,
patents)



USAGE

clicks, downloads,
views, library holdings,
video plays

-
- Is anyone reading our work?
 - Did anyone watch our videos?
 - Usage is the #1 stat researchers want to know after Citation counts
 - PlumX is the only product that includes Usage



CAPTURES

bookmarks, favorites,
readers, watchers

- Captures indicate that someone wants to come back to the work
- Early indicator of future citations



MENTIONS

blog posts, comments, reviews, Wikipedia links

-
- This category measures people truly engaging with your research
 - Automatically uncover the conversations about your research
 - Discover feedback, opinions, etc.



SOCIAL MEDIA

+1s, likes, shares,
tweets

- Social media measures how well a researcher is promoting their work
- This is especially important for early career researchers to measure and understand
- Track the buzz and attention around your research output



CITATIONS

PubMed Central, Scopus, patents

- Citations still a standard of long-term impact
- Including citations enables side-by-side analysis with other metrics categories

5 Categories in Action – Example Article



Why Do People Transmit Word-of-Mouth? The Effects of Recipient and Relationship Characteristics on Transmission Behaviors

Usage

Bitly - Clicks: 11
Bitly - Clicks: 1
RePEc - Abstract Views: 430
RePEc - Downloads: 181
SSRN - Abstract Views: 15860
SSRN - Downloads: 4390

Captures

Delicious - Bookmarks: 1
Mendeley - Readers: 19

Mentions

Facebook - Comments: 5

Social Media

Facebook - Likes: 160
Facebook - Shares: 72
Google+ - +1s: 91

Citations

RePEc - Cited by: 1

Ratings

SSRN - Rating: 918

Article level
metrics are the
building blocks
for PlumX

Researchers Need to Showcase their Impact

研究人员需要展示他们的影响力

- Give them 5 categories of metrics to tell their stories
 - Not just a single count with citations
提供5大计量分析，不仅仅只有传统的引用次数
- Tell the stories of research earlier
 - Citation counts take 3-5 years to accrue
 - PlumX gives comprehensive metrics in the first year
提早分享研究内容。一般引用次数需要3-5年的时间，PlumX能够在第一年就提供信息
- Help them create better grant applications
帮助研究人员更容易申请研究补助

Social Impact

PLUMX Groups Researchers

Home / Dorothy Bishop / SLI and Autism

SLI and Autism



Related Researchers: 

Related Groups: [Sample Profiles](#)

Publication Year: 2012

Stable URL: demo.plu.mx/a/15hMwLcMI2z_FrOnTGfGj2Gs6A8xwzcOIASsXJ1J5bw/
 URL: <http://www.youtube.com/watch?v=biP8EzLEz0U>

Clearcut cases of autism and specific language impairment are easy to distinguish, but some children don't fit neatly into these diagnostic ...

Mentions
 Facebook - Comments: 2

Social Media
 Facebook - Likes: 7
 Twitter - Tweets: 21
 YouTube - Likes: 3

Usage
 YouTube - Plays: 798



Dorothy Bishop

@deevybee



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How does communication differ in #autism & SLI? I try to explain in 4 mins
tinyurl.com/cpp89oe #RALLI #language

Reply Retweet Favorite More

CASE STUDIES

1

University of Pittsburgh

2

Pacifica Graduate Institute

3

**Oregon Health &
Science University**

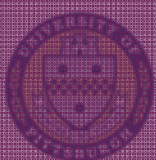
4

Autism Speaks

CASE STUDY

1

**University of
Pittsburgh**



University of Pittsburgh

The University of Pittsburgh provides the research impact of researchers from a cross-section of disciplines. Any contribution to the D-Scholar database, including preprints, peer-reviewed journal articles, and other research outputs, is tracked.

Artifact Summary



Tabs of Different Artifacts:
PlumX gathers metrics from over 20 types of research output.

Researchers box:

Researchers



Add Researcher Show All

Narrow by:

- Digital Collections
- Journals
- Schools and Programs
- University Centers, Institutes, and Research Centers

Add Subgroup Show All

- All (61177)
- Government Document (31043)
- Article (11883)
- Thesis / Dissertation (6209)
- Conference Paper (3552)
- Paper (3382)
- PrePrint (2306)
- Other (331)
- Book (600)
- Book Chapter (552)
- Report (342)
- Other (252)
- Letter (31)
- Video (26)
- Image (21)
- Presentation (12)
- Patent (7)
- Audio (7)
- Case (5)
- Syllabus (5)
- Interview (3)
- Poster (3)
- Code (2)
- Figure (1)
- Data (1)
- Web Page (1)

Export Data

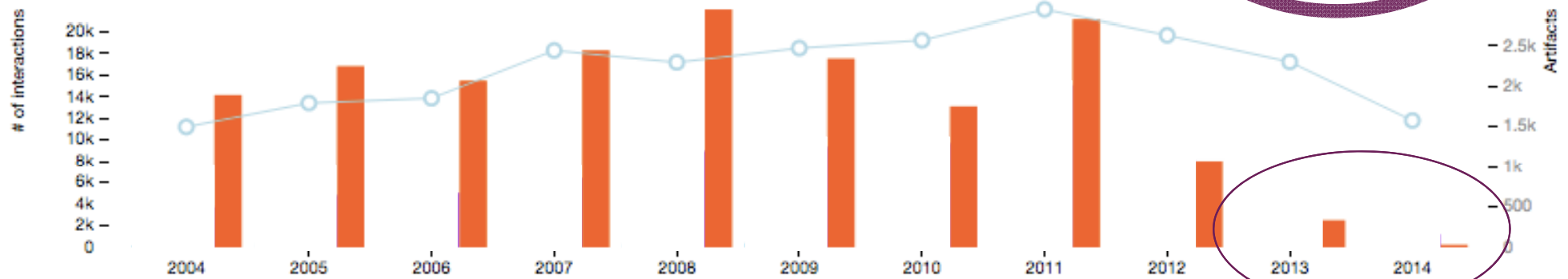
dashboards for their digital collections, the 26 journals they publish, and for every school, department, and research institute

PlumX Customer Data: Citations Lag

Research output from 2013 and 2014 will have few citations.

Artifacts by Publication Year - University of Pittsburgh

Metrics by publication year



	Citations	Artifacts
2014	228	1575
2013	2492	2297
2012	8015	2625
2011	21049	2934
2010	13086	2563
2009	17489	2467
2008	21950	2291
2007	18243	2438
2006	15457	1849
2005	16795	1790
2004	14132	1496

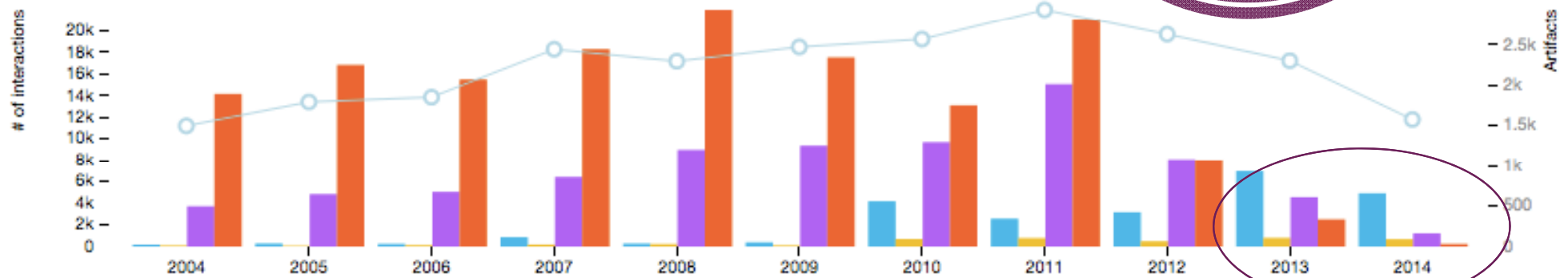
Other Metrics Categories Fill the Gap

Showcase impact in the past 12 to 24 months.

Artifacts by Publication Year - University of Pittsburgh

Download as...

Metrics by publication year



	Social Media	Mentions	Captures	Citations	Artifacts
2014	4901	669	1204	228	1575
2013	6954	790	4541	2492	2297
2012	3152	479	8067	8015	2625
2011	2555	773	15029	21049	2934
2010	4161	689	9685	13086	2563
2009	386	95	9361	17489	2467
2008	262	221	8968	21950	2291
2007	852	180	6394	18243	2438
2006	234	115	5025	15457	1849
2005	269	64	4816	16795	1790
2004	174	89	3701	14132	1496

Reeve Foundation
@ReeveFoundation

Individuals w/ tetraplegia could reliably operate brain-computer interface system to control 3D cursor movement ow.ly/hGLxY

6:16 PM - 15 Feb 2013

An Electrocorticographic Brain Interface in an Individual with...

Brain-computer interface (BCI) technology aims to help individuals with disability to control assistive devices and reanimate paralyzed limbs. Our study investigated the feasibility of an electroco...

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4 RETWEETS 1 FAVORITE

Rodrigo Maldonado
@RoyMT

@vigotess @gmaldonadoto Tal vez les interese, a mi me pareció impactante. El ARTICULO: plosone.org/article/info:d... EL VIDEO: youtu.be/yff20TIHv34

11:00 AM - 12 Feb 2013 Miguel Hidalgo, Distrito Federal, México

Paralyzed man moves robotic arm with his thoughts

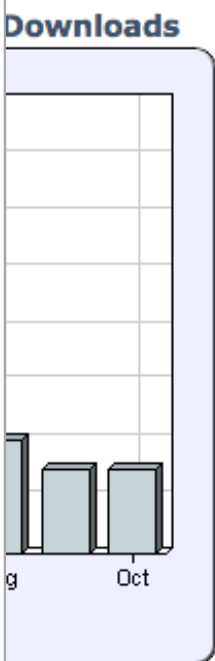


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Facebook - Shares: 12
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Google+ - +1s: 4
Twitter - Tweets: 33



5 metrics categories provide insight into ALL versions of the article

- IR
- publisher site
- open access repositories

CASE STUDY

2

**Pacifica Graduate
Institute**

PACIFICA

GRADUATE INSTITUTE

- Graduate degrees in psychology (研究所-心理学)
- Half the faculty is actively involved in research (半数的教授是从事科研)
- Books are the main output of faculty members (书是教授主要的研究成果/学术贡献)
- Want to showcase faculty work (希望呈现教授作品)

Home / Pacifica Graduate Institute

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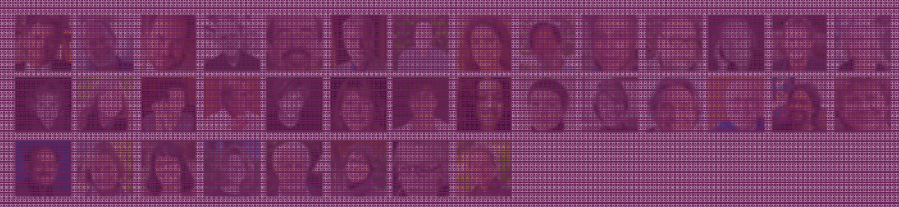
Pacifica Graduate Institute

The mission of Pacifica Graduate Institute is to foster creative learning and research in the fields of psychology and mythological studies, framed in the traditions of depth psychology.

By creating an educational environment with a spirit of free and open inquiry, consistent with the recognized values of academic freedom...

Links: Website | Facebook | YouTube | LinkedIn

Researchers:



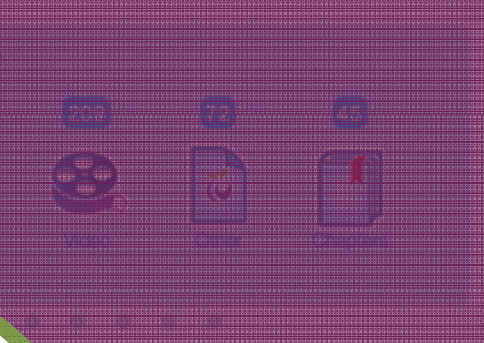
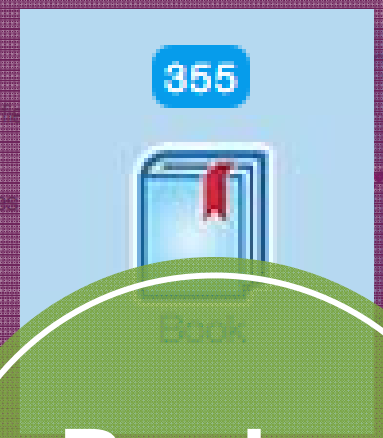
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All (100) | Book (355) | Article (228) | Video (139) | Other (73) | Book Chapter (45) | Conference Paper (35) | Manuscript (29) | Web Page (20) | Export Data

Thesis/Dissertation (4) | Story (2) | Letter (2) | Interview (2)

Filter... Analyze

Books
are their most common research artifact type



Books/Book Chapters Matter

书/书的章节也很重要

- Citation counts do not do books justice
 - Never have & never will
 - We need new book metrics

传统引用次数并不支持书籍，这公平吗？
我们需要书的计量。

- Important to Social Sciences and Humanities
- Books are often the seminal work from these faculty members

针对人文社科领域的研究人员尤其重要，因为他们大部分的研究产出皆为书籍类

PlumX Book Specific Metrics

PlumX对于书籍的计量分析来源



全球大学中有多少图书馆收藏这本书？

WIKIPEDIA

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amazon

这本书在Amazon中的书评以及评价如何？

goodreads

多少人在goodreads中收藏这本书？书评与评价如何？



该书在EBSCO电子书被浏览、下载、点击的次数？



Susan Rowland, Ph.D.

Chair of Engaged Humanities & the Creative Life
Pacifica Graduate Institute

Although this book may never get cited, we still can see usage, captures, and mentions.



Jung: A Feminist Revision

Usage

EBSCO - Abstract Views: 55
WorldCat - Holdings: 354

Captures

Goodreads - Readers: 22

Mentions

Amazon - Reviews: 2
Goodreads - Reviews: 3
Wikipedia - Links: 1

Ratings

Amazon - Rating: 5.0
Goodreads - Rating: 4.8

★★★★★ **Beautifully clear writing**, October 16, 2012

By [trailringer](#) "[The way we imagine our lives is ...](#)" (Port Townsend, WA USA) - [See all my reviews](#)

Verified Purchase ([What's this?](#))

This review is from: [Jung: A Feminist Revision \(Paperback\)](#)

I've been studying Jung for several years now, and I'm baffled as to why this book has not been on any of the reading lists for the various classes I've taken. Rowland's explanations of Jungian concepts, the various schools of feminist thought, and philosophy and psychology in general are clear and easy to grasp. She does not dumb down her writing -- this is no "pop psychology" book -- but her book still makes an excellent primer for those new to Jung's thought. For those struggling with Jung's misogynist aspects, as I am, this book is very helpful.

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PlumX links directly to
Amazon reviews and ratings



April rated it ★★★★★

Feb 28, 2012

Shelves: women-s-studies, jungian, favorites

The subtitle is missing... A Feminist Revisioning... an aMAZing book! Very helpful in understanding the women who worked with Jung to develop what became Jungian theories and practices. Very clear and concise. Also very helpful is how Rowland explains Jungian terms and difficult concepts in simple language that is accessible to general readers as well as advanced students.

like · comment · see review

goodreads



Colin rated it ★★★★★ · review of another edition

Jul 03, 2012

Great survey of the current literature on a revision and expansion of Jung's theories of gender relations with an emphasis on the feminine.

like · comment · see review

flag



Leslie rated it ★★★★★
Oct 15, 2014



Jihyun Lee marked it as to-read
Jul 28, 2014



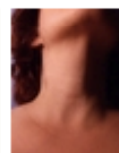
Charlotte rated it ★★★★★★
Jul 11, 2014



Kate Mccarthy rated it ★★★★★
Jun 15, 2014



Gabriel marked it as to-read
May 10, 2014



Adriana added it
May 06, 2014



Nina Noble marked it as to-read
Mar 18, 2014



Sarahveza marked it as to-read
Dec 01, 2013



Jessie marked it as to-read
Oct 06, 2013



Lauren added it
Jun 19, 2013



Elinor added it
Mar 16, 2013



Brenda Sandoval marked it as to-read
Aug 04, 2012



Wickstrom marked it as to-read
Dec 09, 2011



Duke DeLaet marked it as to-read
Dec 08, 2011



Momograce marked it as to-read
Sep 21, 2011

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WIKIPEDIA

Uncover the conversations
the author was not even
aware of.



WIKIPEDIA
The Free Encyclopedia

Article [Talk](#)

Spiritualism (beliefs)

From Wikipedia, the free encyclopedia

Carl Jung [\[edit\]](#)

Main article: Carl Jung

[Carl Jung](#)'s doctoral dissertation was not medical research but the investigation of a medium, his maternal cousin, H el ene Preiswerk.^[74] His mother, Emilie Preiswerk, was born into a family that regularly practised Spiritualism, the daughter of a man who held weekly seances with his dead first wife who instructed young Emilie to stand behind his chair to discourage ghosts. Jung showed a willingness to take Spiritualism seriously at this formative stage in his life and the early experiences with H el ene Preiswerk suggest a credence of Spiritualism as possible evidence of the supernatural.^[75]

75. ^ Rowland, Susan (1995). "Jung: A Feminist Revision". London, Polity. p. 200. ISBN 0-7456-2516-9.

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2.  Lesley University Library Sherrill Library Cambridge, MA 02138 United States	 Book	< 1 mile <input type="button" value="MAP IT"/>	 Library info  Ask a librarian  Add to favorites
3.  Harvard University Schlesinger Library Cambridge, MA 02138 United States	 Book	1 mile <input type="button" value="MAP IT"/>	 Library info  Add to favorites
4.  Harvard University Harvard College Library Cambridge, MA 02139 United States	 Book	2 miles <input type="button" value="MAP IT"/>	 Library info  Add to favorites
5.  MIT Libraries Massachusetts Institute of Technology Libraries Cambridge, MA 02139 United States	 Book	2 miles <input type="button" value="MAP IT"/>	 Library info  Ask a librarian  Add to favorites
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PlumX give a new way to tell the story

替代/补充计量提供图书馆一种新的
方法来”说故事(我的价值)”

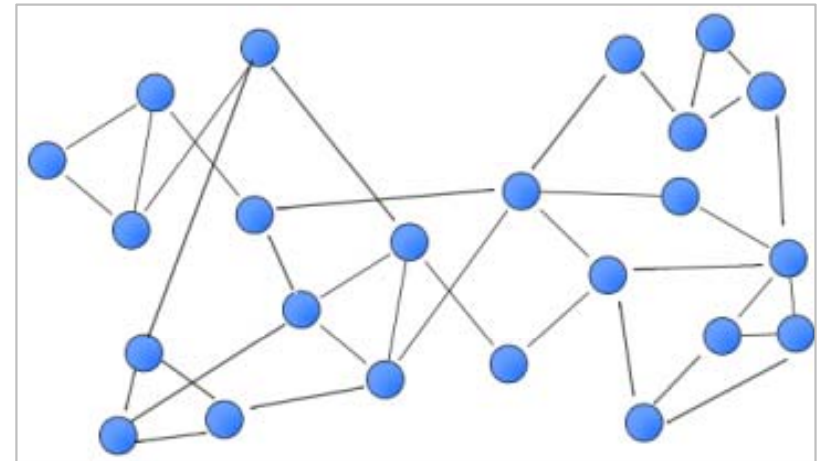
PlumX:针对大数据所设计

- 目标规模 - 追踪全球的研究人员, 他/她们的所有成果及 关于人与成果的完整计量.

>18 Million Researchers Worldwide

>120 Million Scholarly Articles

Map artifacts → people → groups



将大数据转换成对科研人员有用的信息

Performing Research

- 观察针对科研所做的推广与努力
- 发现其他相关的科研人员
- 全球有哪些地区/科研人员在对我的研究进行交流/互动?
- 下次我应该在哪儿发表我的学术成果?
- 我的合著者学术表现如何?

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Thank You

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