



Métricas Modernas

En contexto

CRECS 2016

Olga Alarcón – Regional Sales Manager



Historia

• 2012

- Fundación Plum Analytics – Andrea Michalek/Mike Buschman
- University of Pittsburgh – primer cliente

• 2013

- Lanzamiento de PlumX
- Clientes: Universidades, Institutos de investigación, Editores, Financiadores de investigación

• 2014

- EBSCO adquiere Plum Analytics
- Fuerte inversión en desarrollo tecnológico

• 2015

- Rápido crecimiento
- +250 clientes en 35 países
- Continúa la inversión (Fuentes, Impacto...)

PlumX Metrics:
**Proporciona métricas
exhaustivas del Repositorio de
la Institución**

Repositorios Institucionales



- Las bibliotecas son a menudo responsables de hospedar los resultados de la investigación de su institución
- En muchos casos, los investigadores ven la labor de depositar su investigación en los repositorios como una carga administrativa – no ven la ventaja
- Plum: incentivo para el uso del repositorio



**Los investigadores
ya se han movido a
online**

“Mismo” artículo, diferentes lugares

PlumX complementa la Citación por impacto

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^{a,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 *Europa Clipper* Flybys. *JGR Planets* 105, 2081-2093

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

Ghatak, A., Mahadevan, L., Nov. 2000. Crack Stress: 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, 187-197.

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

Galileo's four flyby observations of Europa approach each other in a regular sequence, providing a unique opportunity to study the moon's internal structure. We use the Galileo spacecraft's radio science experiment to measure the moon's gravity field and compare it with the predictions of a differentiated internal structure. The results show that Europa has a differentiated internal structure, with a rocky core and an outer ice shell. The ice shell is estimated to be 100-150 km thick, and the core is estimated to be 1000-1500 km in radius.

The Galileo radio science experiment has provided a unique opportunity to study the moon's internal structure. We use the Galileo spacecraft's radio science experiment to measure the moon's gravity field and compare it with the predictions of a differentiated internal structure. The results show that Europa has a differentiated internal structure, with a rocky core and an outer ice shell. The ice shell is estimated to be 100-150 km thick, and the core is estimated to be 1000-1500 km in radius.

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Terrestrial Sea Ice Morphology Considerations for Europa

Jonathan L. Mitchell and Peter M. Goldreich
Department of Geological Sciences, Princeton University, Princeton, New Jersey 08542-0871
and
Department of Physics, Princeton University, Princeton, New Jersey 08542-0842

Abstract
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Desfase en la citación

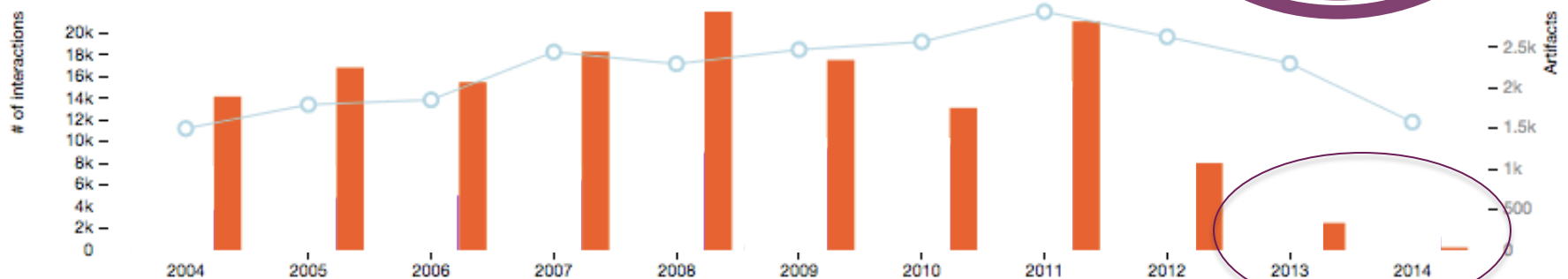
¿Y las publicaciones del año pasado y del anterior?

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Artifacts by Publication Year - University of Pittsburgh

Metrics by publication year



	Citations	Artifacts
2014	228	1575
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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

Respuesta a las grandes preguntas



¿Qué impacto ha tenido mi investigación en los últimos 12 meses?



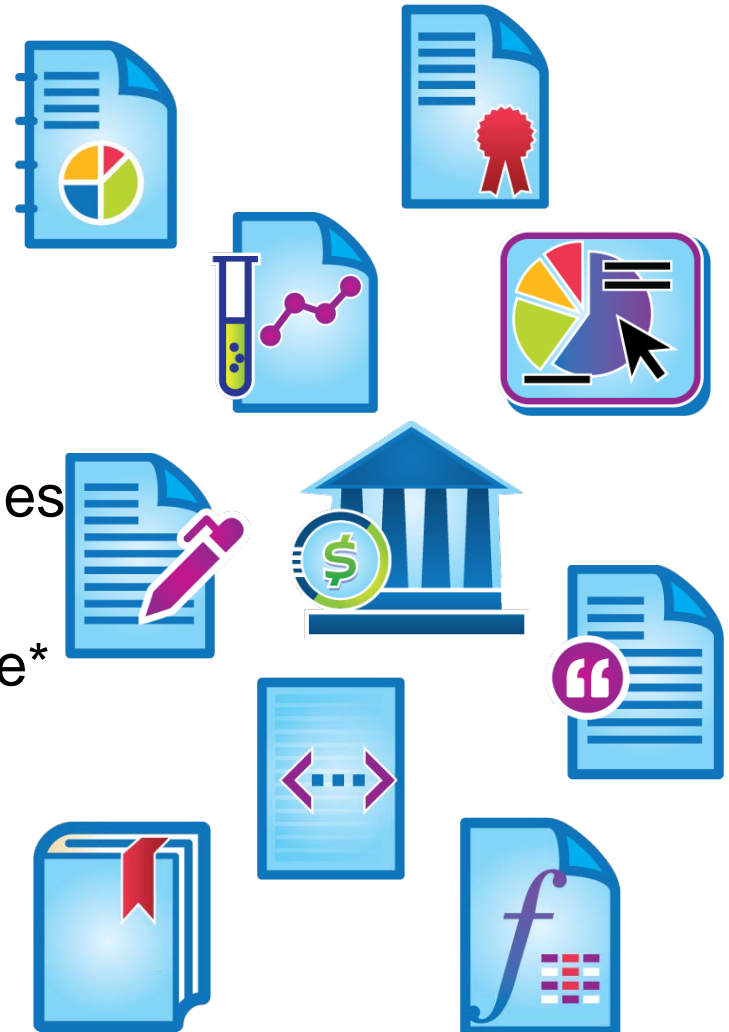
¿Qué puedo hacer para ganar visibilidad, diferenciarme, conseguir financiación?
































¿Tiene impacto mi actividad científica cuando no está reflejada en un artículo?

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PLUMX ALLmetrics

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- Mide como un investigador promueve su trabajo en el nuevo escenario.
 - Especialmente importante para los nuevos investigadores.
 - Monitoriza el nivel de atención que genera tu trabajo.



CITATIONS

PubMed Central, Scopus, patents

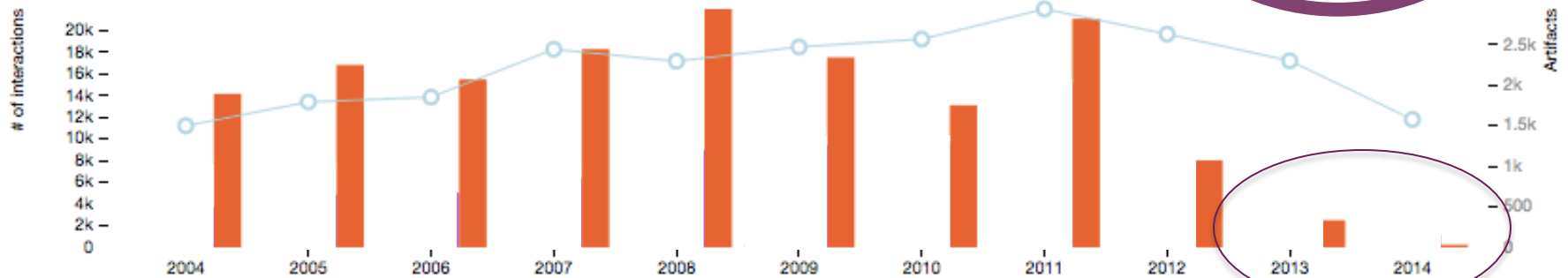
-
- El resultado final, impacto consolidado.
 - Permite comparativas con otras métricas

Desfase en la citación

¿Y las publicaciones del año pasado y del anterior?

Artifacts by Publication Year - University of Pittsburgh

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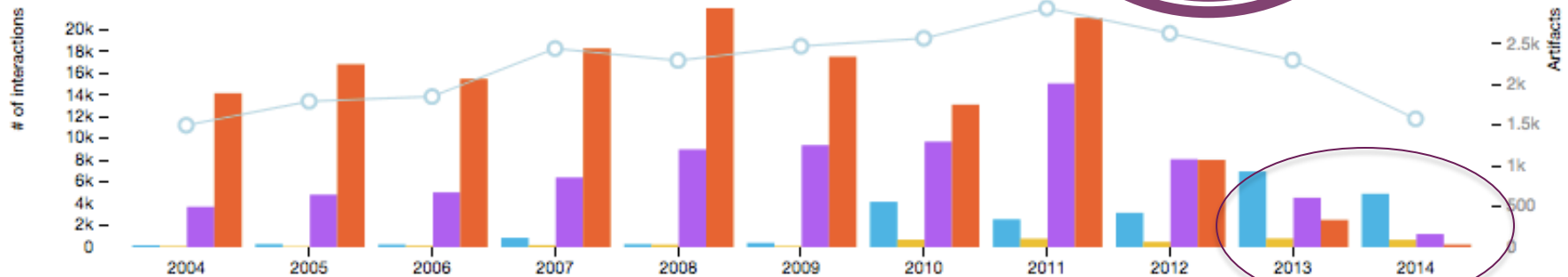
Otras métricas llenan el hueco

¿Impacto en los últimos 12 - 24 meses?

Artifacts by Publication Year - University of Pittsburgh

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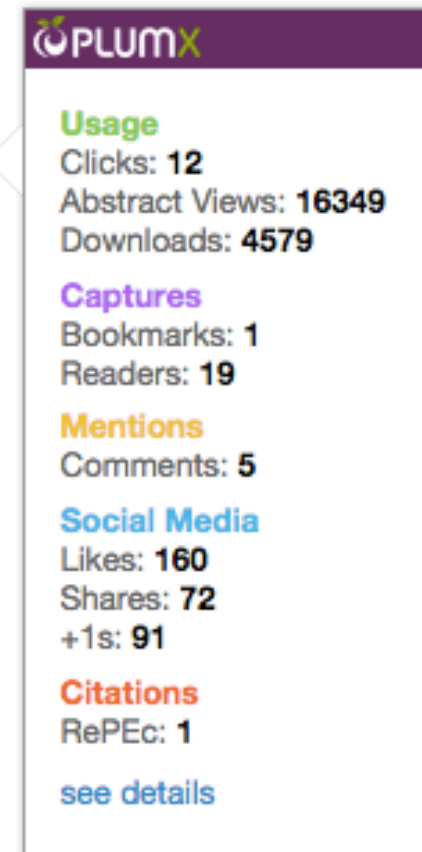
Metrics by publication year



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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

Visualización del Impacto: Plum Print

- Incluye las 5 categorías de métricas
- Los círculos cambian de tamaño dinámicamente en base a las métricas de cada categoría





University of Pittsburgh

The University of Pittsburgh's PlumX dashboard displays the research impact of researchers from a cross-section of departments throughout the university. Any contribution to the D-Scholarship Institutional Repository is available in PlumX. These contributions enable the per-institute and per-department views. Additionally metrics about the impact of articles in library published journals are also available.

Artifact Summary

31043	11883	6209	3552	3382
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Impact by Type: All



The background features a dark purple color with a pattern of stylized, overlapping leaves and circular shapes in a lighter shade of purple. The leaves are positioned at the top, and the circles are arranged in a way that they appear to be part of a larger, abstract design.

Gracias

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