




ALLmetrics. Not Altmetrics.

Stephan Buettgen

Director Analytic Product Sales

Bibliometrie 2014 in Regensburg, September 25th, 2014

 @StephanBuettgen or sbuettgen@ebsco.com

History



- **2012**
- Founded Plum Analytics – Andrea Michalek/Mike Buschman
- University of Pittsburgh – first customer
- **2013**
- Launched PlumX product
- Customers include universities, corporations, publishers
- **2014**
- EBSCO acquired Plum in January
- Customers now include funders - Autism Speaks
- Poised for growth as altmetrics come of age

Current state of Scholarly Measure

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 planet phase. 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., Spangor, W. L., Sep. 1998. Europa's Differentiated Internal Structure: Inferences from Four Galileo Encounters. *J. Geophys. Res.* 103, 19671-19680.

Greenberg, R., Greenberg, R., Hoppa, G., Holmstrom, 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.

Ghahok, A., Mahadevan, L., Nov. 2000. Crack Strain: The Cylindrical Wake of a Cylinder Tearing through a Thin Sheet. *Physical Review Letters* 91 (21), 215507.

Greeley, R., Sullivan, R., Coon, M. D., Gotsdiner, P. E., Tufts, B. R., Head, J. W., Pappalardo, R. T., Moore, J. M., Sep. 1998. Terrestrial Sea Ice Morphology: Constraints on Europa. *Imagis* 1(3), 203-210.

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

Greenberg, R., Weidenschilling, S. J., May 1984. How fast do Galilean satellites spin? *Imagis* 1(1), 187-195.

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

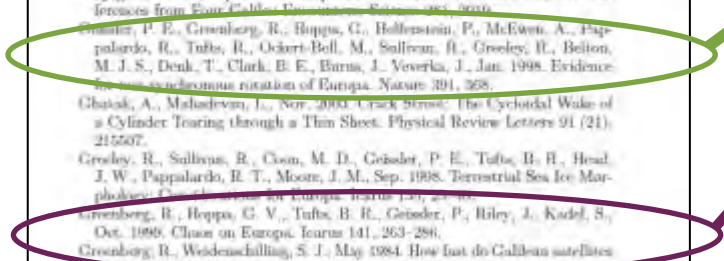
J. D. Anderson, G. Schubert, R. A. Jacobson, E. L. Lau, W. B. Moore, W. L. Spangor

Europa's differentiated internal structure is inferred from the four Galileo encounters with the moon. The Galileo spacecraft measured the Doppler shift of the radio signal from Europa, which is sensitive to the moon's rotation rate. The rotation rate is compared with the expected rate for a synchronously rotating body. The results show that Europa's rotation rate is significantly different from the expected rate, indicating that Europa has a differentiated internal structure. This is consistent with the presence of a subsurface ocean, which would decouple the outer ice shell from the interior. The ocean would assume an ellipsoidal shape with its long axis aligned toward the planet phase. 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.

Terrestrial Sea Ice Morphology: Constraints on Europa

R. Greeley, R. Sullivan, M. D. Coon, P. E. Gotsdiner, B. R. Tufts, J. W. Head, J. M. Moore, R. T. Pappalardo

Terrestrial sea ice morphology is compared with the morphology of Europa. The results show that the morphology of Europa is consistent with the presence of a subsurface ocean, which would decouple the outer ice shell from the interior. The ocean would assume an ellipsoidal shape with its long axis aligned toward the planet phase. 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.



Citation Metrics are lagging indicators







- Scopus = 2
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Photo credit: A. Wayne Vogl and Nicholas D. Pyenson / Smithsonian Institution.

Discovery of a sensory organ that coordinates lunge feeding in rorqual whales.

Author(s): Nicholas D. Pyenson, Jeremy A. Goldbogen, A. Wayne Vogl, Gabor Szathmary, Richard L. Drake, Robert E. Shadwick

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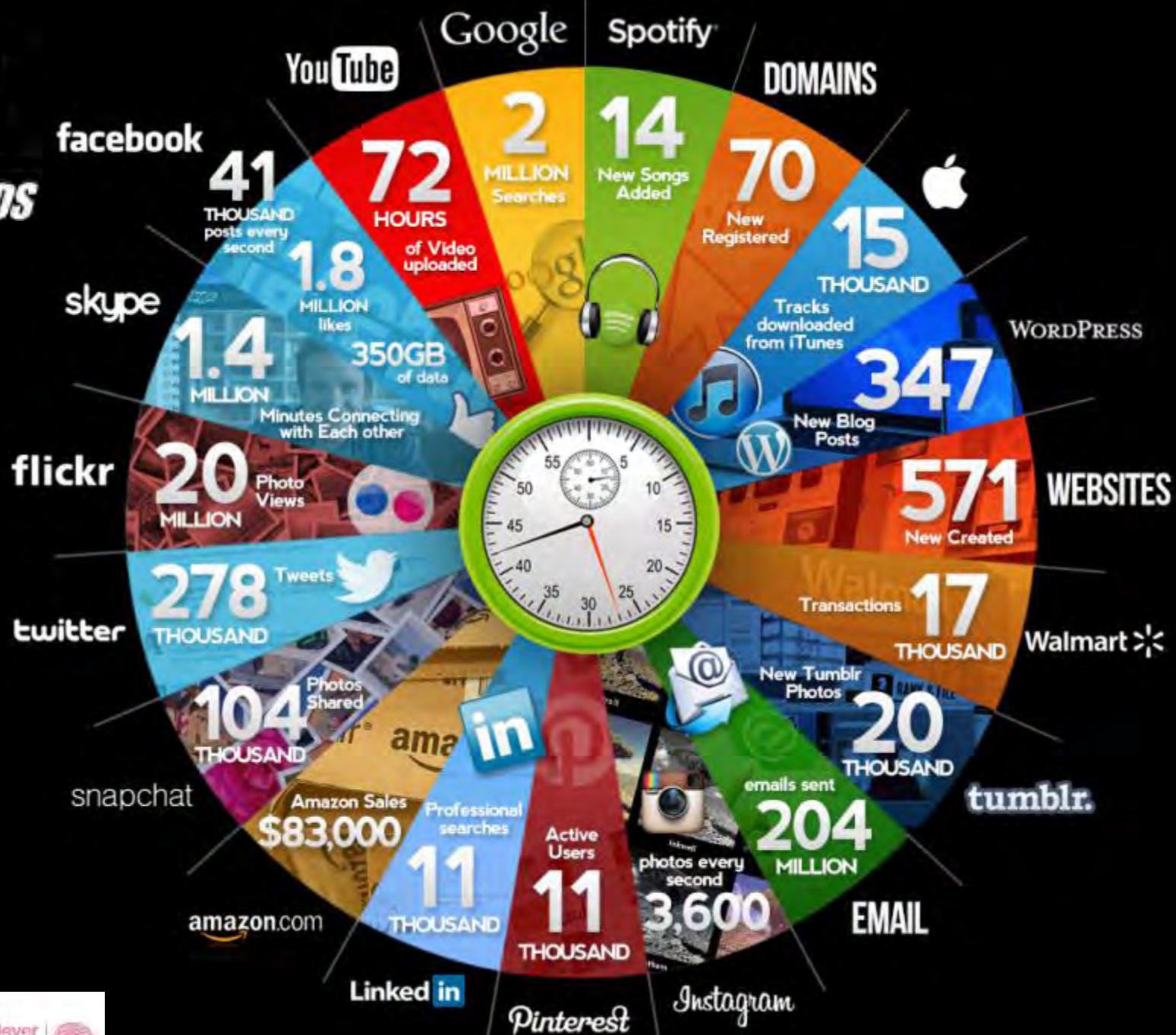
Article-level metrics and PlumX

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Scholarly Data Exhaust



New breakthrough in epigenetics: CNP-seq with just 10,000 cells!

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1,932

An Adequately Robust Early TNF- α Response Is a Hallmark of Survival Following Trauma/Hemorrhage

Regan Hovav, M. Ghara, Andrea Torres, Patricia Pflieger, Hendrik Gerner, David Bentley, Uwe Gress, Sven Zelen, Ming-Pei Tsai, Bernd Weber, Zoltan Szekely, Matthew R. Rosegold, Oskar Gervasi, [...] Viktor Valasek

D-Scholarship @ Pitt

AN ADEQUATELY ROBUST EARLY TNF-ALPHA RESPONSE IS A HALLMARK OF SURVIVAL FOLLOWING TRAUMA/HEMORRHAGE.

Authors: Regan Hovav, M. Ghara, Andrea Torres, Patricia Pflieger, Hendrik Gerner, Hendrik Gerner and Bentley, David and Bentley, Uwe and Gress, Uwe and Zelen, Sven and Zelen, Ming-Pei and Tsai, Bernd and Weber, Zoltan and Szekely, Zoltan and Szekely, Zoltan and Rosegold, Matthew R. and Gervasi, Oskar and Valasek, Viktor

Abstract: An adequately robust early TNF- α response is a hallmark of survival following trauma/hemorrhage. We investigated the role of TNF- α in the early response to trauma/hemorrhage using a murine model of trauma/hemorrhage. We found that a robust early TNF- α response is associated with survival following trauma/hemorrhage. We also found that a robust early TNF- α response is associated with survival following trauma/hemorrhage. We also found that a robust early TNF- α response is associated with survival following trauma/hemorrhage.

PubMed

An adequately robust early TNF- α response is a hallmark of survival following trauma/hemorrhage

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“Same” Article, Different Places

Beyond the Journal Article...

- Articles
- Blog posts
- Book chapters
- Books
- Cases
- Clinical Trials
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Sample of Metrics Sources

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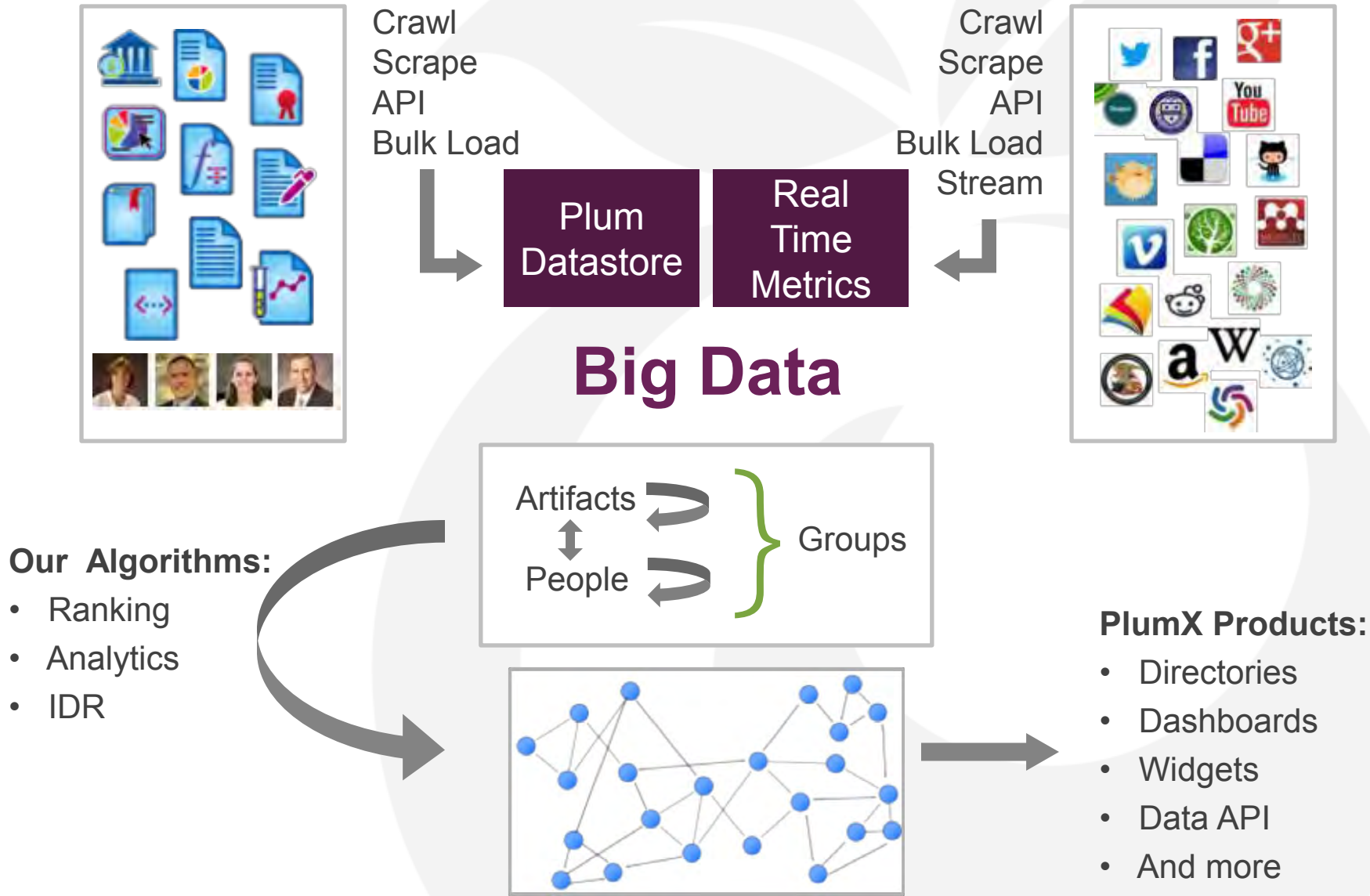
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My passion is connecting people to chemistry. Over the past decade I held many jobs and responsibilities including the direction of the development of scientific software applications for spectroscopy and general chemistry, directing marketing efforts, sales and business development collaborations for the company. I have almost... [+ More](#)



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2012	Open PHACTS: semantic interoperability for drug discovery.	Article	81	50	57	5	281
2008	Internet-based tools for communication and collaboration in chemistry.	Article	73	59		1	253
2008	A perspective of publicly accessible/open-access chemistry databases.	Article	65	51		1	26
2008	Computer-assisted structure verification and elucidation tools in NMR-based structure elucidation	Article	65	48		2	1
2011	Mobile apps for chemistry in the world of drug discovery.	Article	54	22	17	2	453
2010	Chemspider: An online chemical information resource	Article	54	67		2	139
2011	A quality alert and call for improved curation of public chemistry databases.	Article	48	38	4	1	121
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2010	Precompetitive preclinical ADME/Tox data: set it free on the web to facilitate computational model building and assist drug development.	Article	45	40	1	1	161
2013	Dispensing processes impact apparent biological activity as determined by computational and statistical analyses.	Article	44	15	101	11	10406
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2013	The ChEMBL database as linked open data.	Article	41	10	2		117
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2007	Major structural components in freshwater dissolved organic matter	Article	39	52			100
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Artifact / Article Level Metrics



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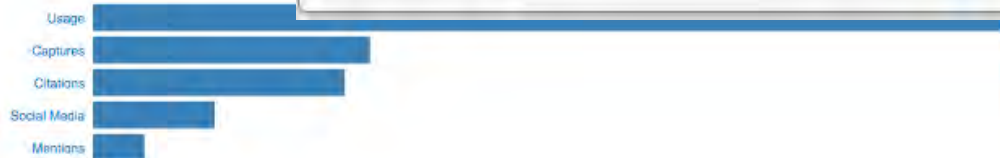
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My passion is connecting people to chemistry. Over the past decade, I have focused on spectroscopy and general chemistry, directing marketing efforts

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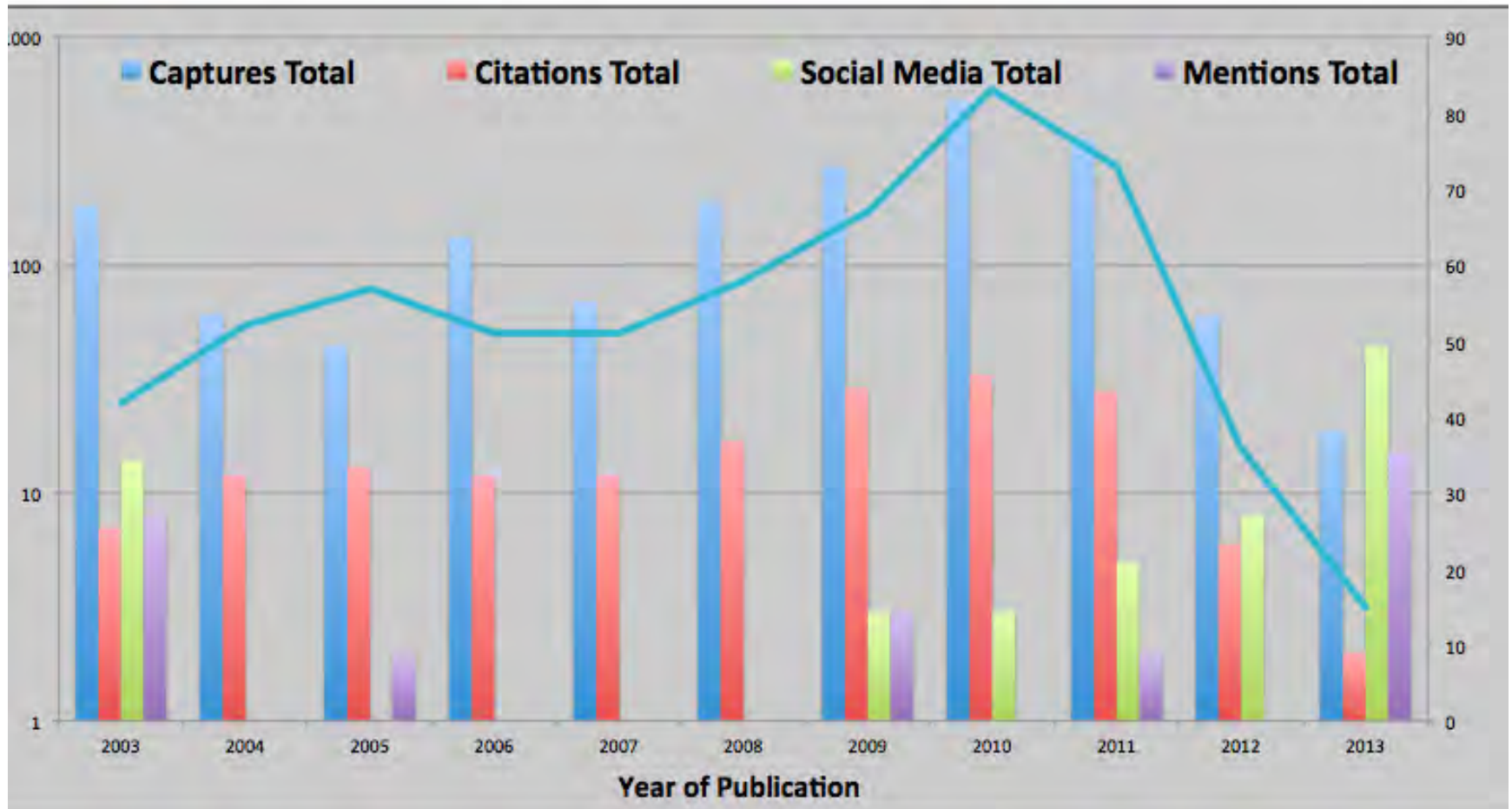
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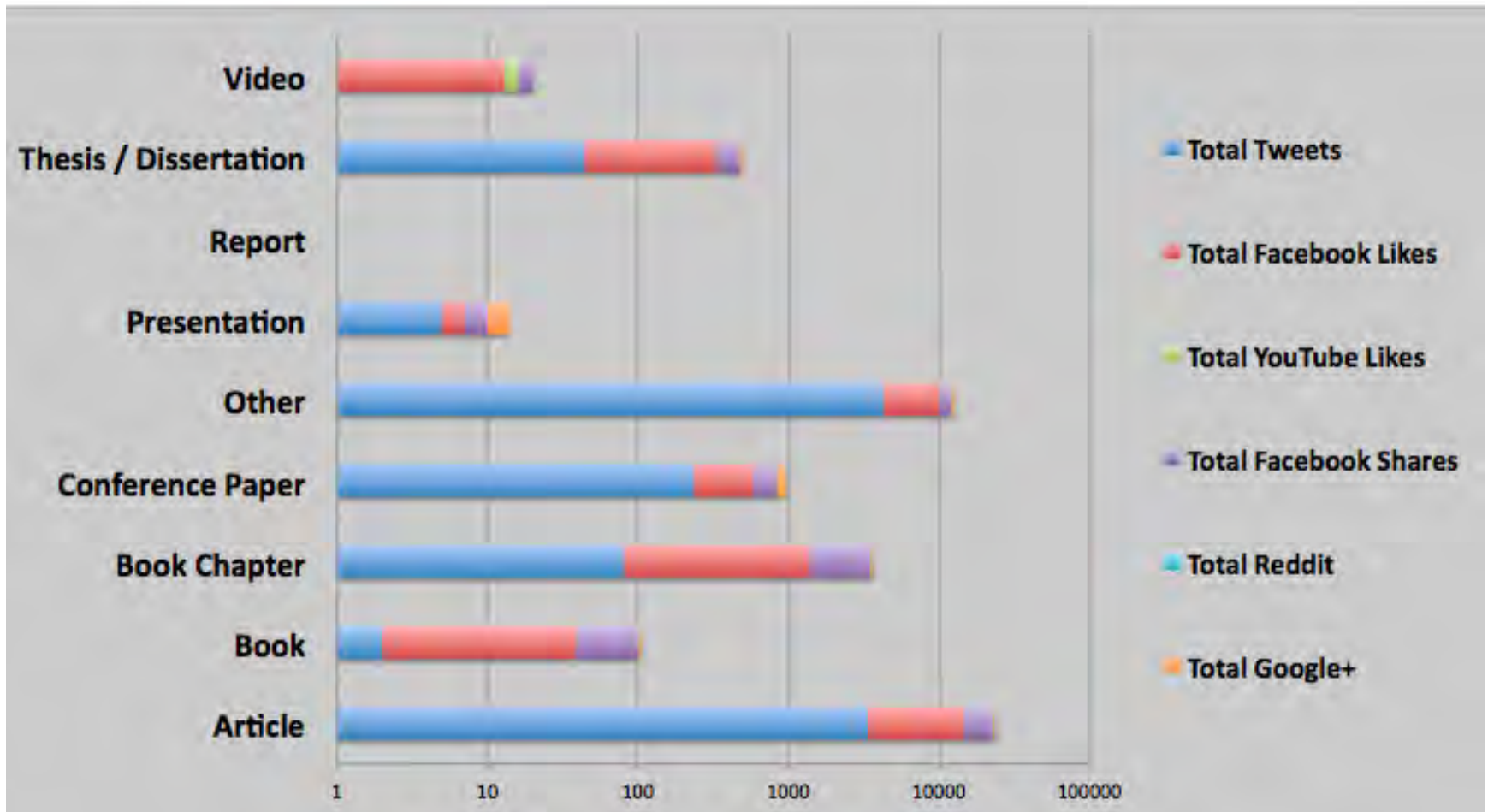
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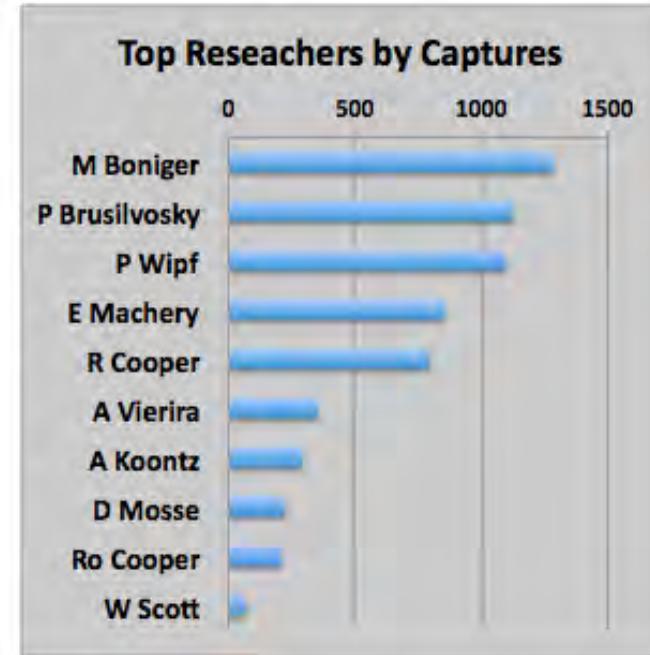
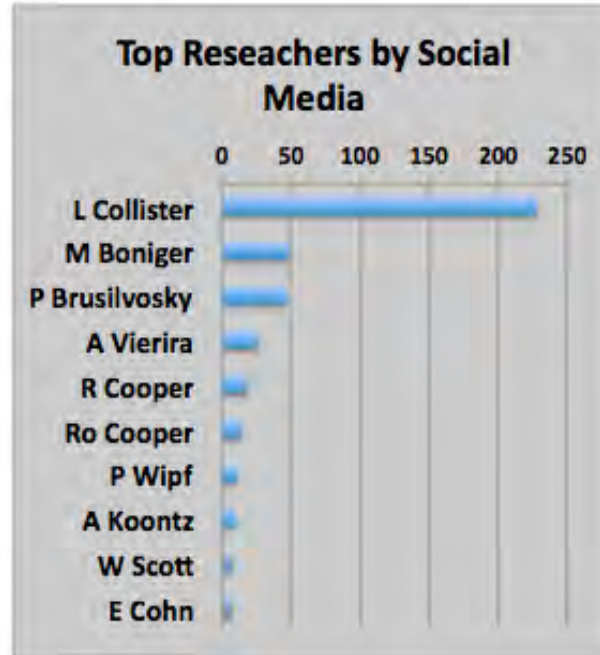
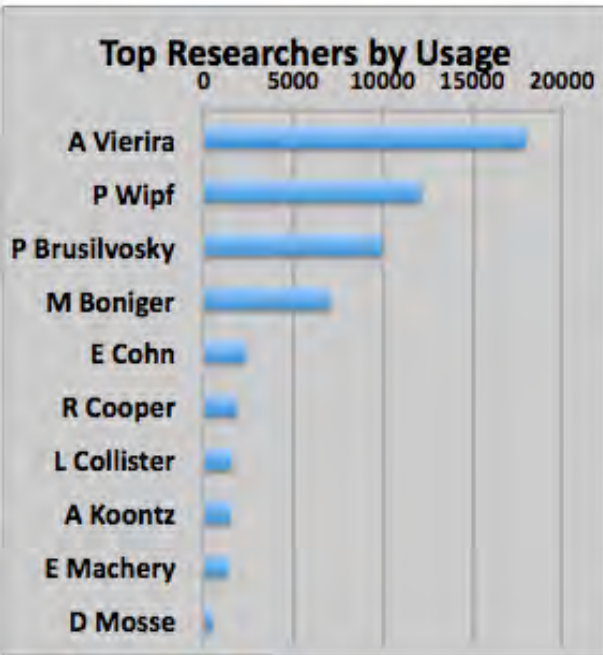
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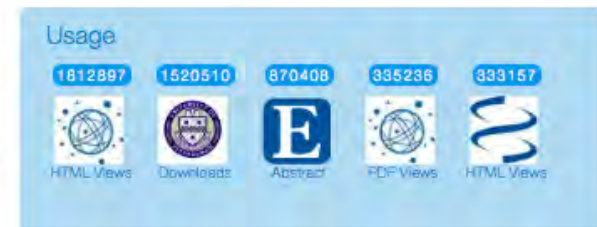
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The University of Pittsburgh's PlumX dashboard displays the research impact of researchers from a cross-section of departments throughout the university. Any contribution to the D-Scholarship Institutional Repository is available in PlumX. These contributions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

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Visualizing Impact: Widgets

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metrics by PlumX

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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.

Researchers


Recent Artifacts

- Prostaglandin E2 (PGE2) exerts biphasic effects on human tendon stem cells.
- The Library as Publisher
- A social scientific framework for social systems in online video games: Building a better looking for raid loot system in World of Warcraft
- Fiction Criticizing Reality: Abbas Kiarostami and the Cracked Windshield of Cinema
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Author Widget

PLUMX

Michael Pinsky 

Professor of Critical Care Medicine, Bioengineering, Anesthesiology, Cardiovascular Diseases, and Clinical & Translational Sciences

Artifact Summary

Article: 341	Letter: 5
Chapter: 82	Case: 5
Book: 58	Report: 2
Other: 14	Thesis / Dissertation: 1
Conference Paper: 7	

Recent Artifacts

- Robust model-based quantification of global ventricular torsion from spatially sparse three-dimensional time series data by orthogonal distance regression: evaluation in a canine animal model under different pacing regimes.
- Addressing education debt: student and teacher perceptions of successful teaching of low-income African American students
- Clinical use of respiratory changes in arterial pulse pressure to monitor the hemodynamic effects of PEEP.
- Effects of norepinephrine on the renal vasculature in normal and endotoxemic dogs.
- Informal caregiver burden among survivors of prolonged mechanical ventilation.

[see details](#)

The background features a dark purple color with a subtle, stylized pattern of 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 suggests a cluster or a group of elements.

Thank you