



ALLmetrics.
Not Altmetrics.

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
 - 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^{ab}, Jonathan L. Mitchell^{ab}

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, 2083-2093

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., Ververka, J., Jan. 1998. Evidence for non-synchronous rotation of Europa. *Nature* 391, 368.

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

Greeley, R., Sullivan, R., Coon, M. D., Geissler, P. E., Tufts, B. R., Head, J. W., Pappalardo, R. T., Moore, J. M., Sep. 1998. Terrestrial Sea Ice Morphology: Constraints for Europa. *Icarus* 140, 203-209.

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* 58, 187-195.

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

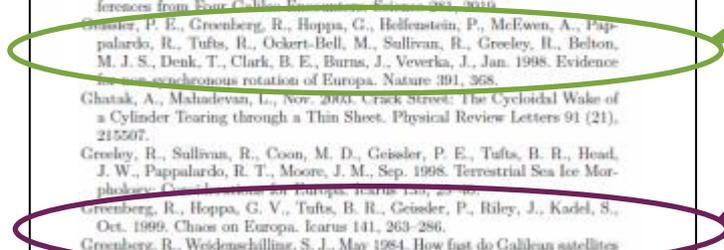
J. D. Anderson, G. Schubert, R. A. Jacobson, E. L. Lau, W. B. Moore, W. L. Sjogren

Galileo's three fly-by encounters of the jovian moon Europa with the Cassini-Huygens spacecraft have provided the first direct measurements of Europa's gravity field. The gravity field is consistent with a differentiated internal structure, with a rocky core and an outer ice shell. The core radius is estimated to be 1000 ± 100 km, and the core mass fraction is 0.35 ± 0.02. The ice shell is estimated to be 100 ± 20 km thick, and the ice shell mass fraction is 0.65 ± 0.02. The ice shell is estimated to be 100 ± 20 km thick, and the ice shell mass fraction is 0.65 ± 0.02. The ice shell is estimated to be 100 ± 20 km thick, and the ice shell mass fraction is 0.65 ± 0.02.

Terrestrial Sea Ice Morphology: Considerations for Europa

Paul E. Geissler and B. Russell Head

Galileo's three fly-by encounters of the jovian moon Europa with the Cassini-Huygens spacecraft have provided the first direct measurements of Europa's gravity field. The gravity field is consistent with a differentiated internal structure, with a rocky core and an outer ice shell. The core radius is estimated to be 1000 ± 100 km, and the core mass fraction is 0.35 ± 0.02. The ice shell is estimated to be 100 ± 20 km thick, and the ice shell mass fraction is 0.65 ± 0.02. The ice shell is estimated to be 100 ± 20 km thick, and the ice shell mass fraction is 0.65 ± 0.02.



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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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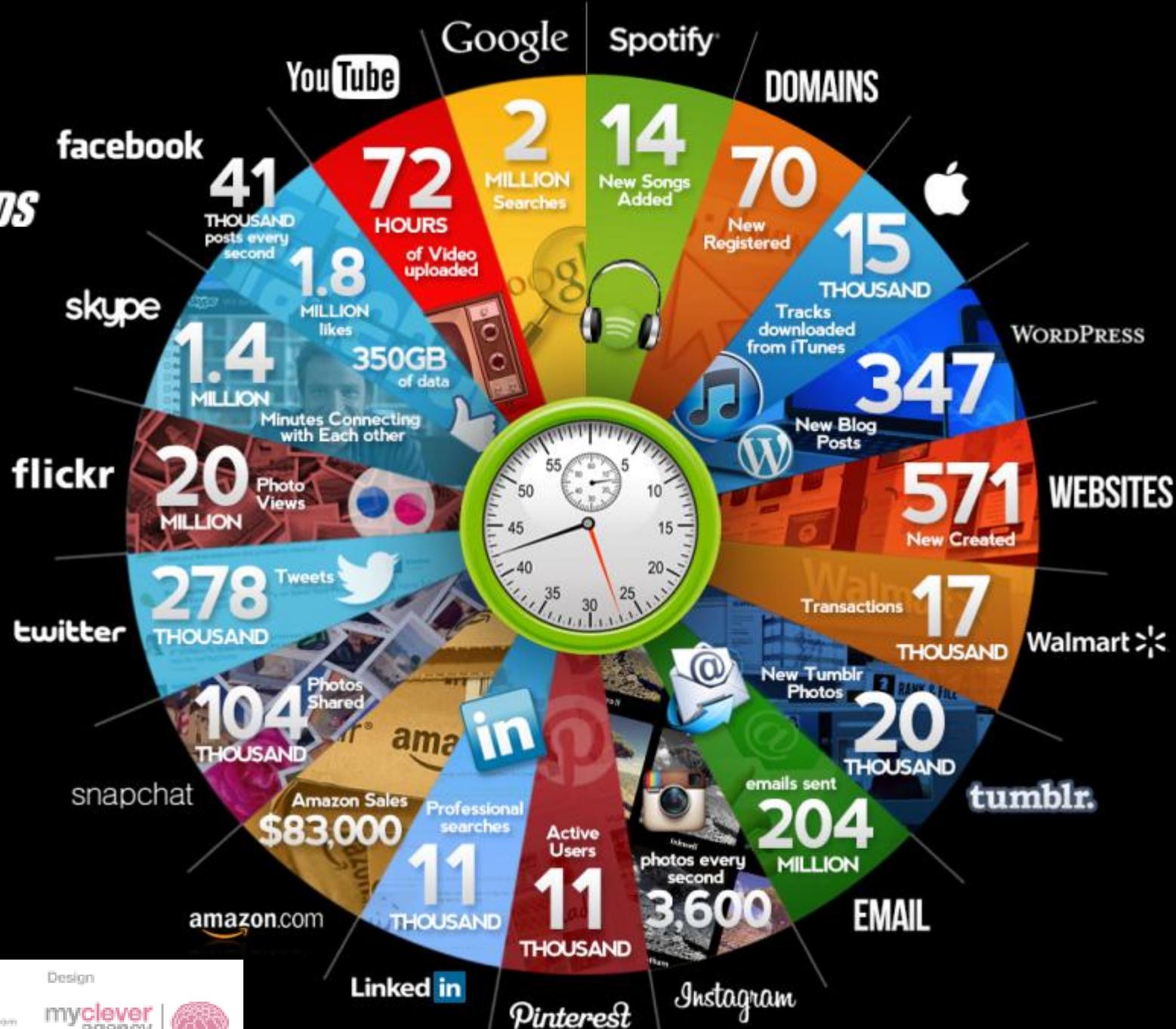
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Scholarly Data Exhaust



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1,932

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

Rajko Narves, Al Ghams, Andrea Tamas, Patricia Polanco, Fernando Gomez, Derek Benday, Lisa Gaudin, Sven Zanker, Myung Ho Uhm, Marisa Rubin-Zelcer, Matthew R. Roegner, Gilio Clerici, [...] Yaron Volosin [View all]

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

Narves, Rajko et al. Ghams, Al et al. Tamas, Andrea et al. Polanco, Patricia et al. Gomez, Fernando et al. Benday, Derek et al. Gaudin, Lisa et al. Zanker, Sven et al. Uhm, Myung Ho et al. Rubin-Zelcer, Marisa et al. Roegner, Matthew R. et al. Clerici, Gilio et al. Volosin, Yaron (2022) An adequately robust early TNF-α response is a hallmark of survival following trauma/hemorrhage. *PLoS ONE*, 17(12), e0264900. DOI: 10.1371/journal.pone.0264900

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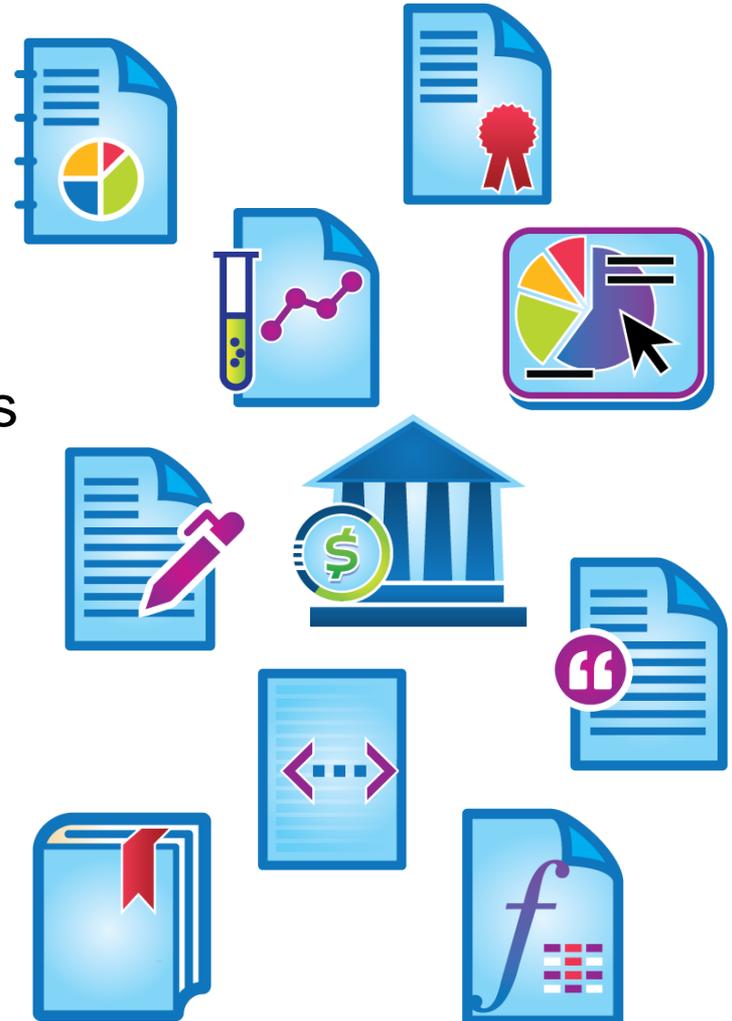
Abstract

AN ADEQUATELY ROBUST EARLY TNF-ALPHA RESPONSE IS A HALLMARK OF SURVIVAL FOLLOWING TRAUMA/HEMORRHAGE. Narves, Rajko et al. Ghams, Al et al. Tamas, Andrea et al. Polanco, Patricia et al. Gomez, Fernando et al. Benday, Derek et al. Gaudin, Lisa et al. Zanker, Sven et al. Uhm, Myung Ho et al. Rubin-Zelcer, Marisa et al. Roegner, Matthew R. et al. Clerici, Gilio et al. Volosin, Yaron (2022) An adequately robust early TNF-α response is a hallmark of survival following trauma/hemorrhage. *PLoS ONE*, 17(12), e0264900. DOI: 10.1371/journal.pone.0264900

“Same” Article, Different Places

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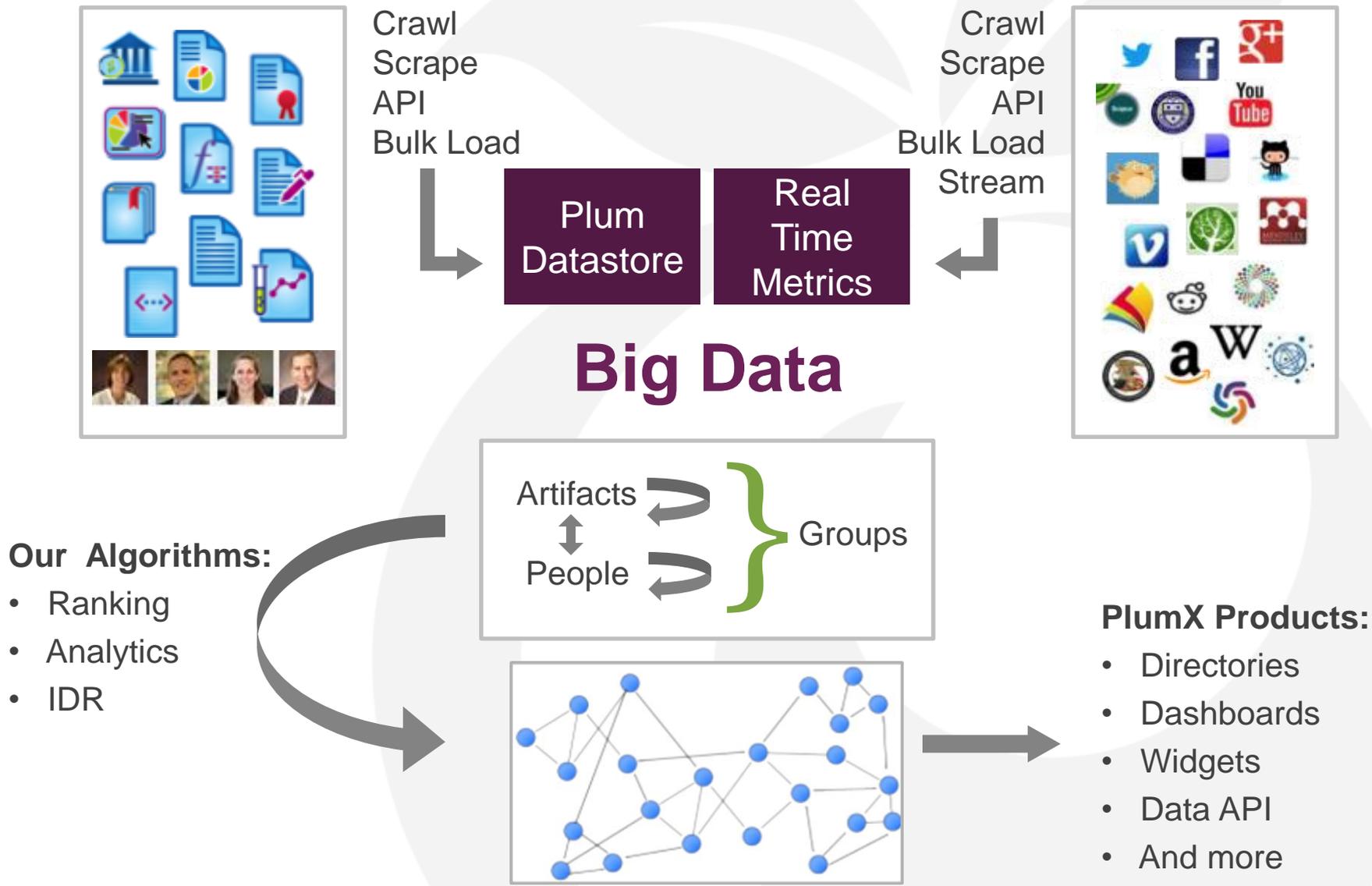
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The University of Pittsburgh's PlumX dashboard displays the research impact of researchers from a cross-section of departments throughout the university. Any contribution to the D-Scholarship Institutional Repository is available in PlumX. These contributions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

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31617



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Article

6215



Thesis

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2015	How do Somatic Markers Feature in Decision Making?	PrePrint			1		86
2015	The North China Nanolithic	Book Chapter					
2014	A new large-bodied oviraptorosaurian theropod dinosaur from the latest Cretaceous of western North America.	Article	10	4	1275	223	44401
2014	Scholarly Communication and Publishing Lunch and Learn Talk #8: Using Bibliometric (Publication and Citation) Indicators to Demonstrate Impact	Conference Paper			6		307
2014	Sex determination: why so many ways of doing it?	Article	65	3	121	2	16512
2014	CD4CD8α lymphocytes, a novel human regulatory T cell subset induced by colonic bacteria and deficient in patients with inflammatory bowel disease.	Article	29	2	35	5	8988
2014	Exact hybrid particle/population simulation of rule-based models of biochemical systems.	Article	17	3	7		3041
2014	Fluphenazine reduces proteotoxicity in C. elegans and mammalian models of alpha-1-antitrypsin deficiency.	Article	2	5	9	5	1273
2014	Genome-wide diet-gene interaction analyses for risk of colorectal cancer.	Article	21		226	56	10385
2014	Mycobacteriophages: windows into tuberculosis.	Article	13	3	77	10	5512
2014	Aflatoxin regulations and global pistachio trade: insights from social network analysis.	Article	2	1	14	5	1226
2014	Burden of total and cause-specific mortality related to tobacco smoking among adults aged ≥ 45 years in Asia: a pooled analysis of 21 cohorts.	Article	8	6	61		7030
2014	Ciliopathy is differentially distributed in the brain of a Bardet-Biedl syndrome mouse model.	Article	2	4	5		1251
2014	Combining experimental evolution with next-generation sequencing: a powerful tool to study adaptation from standing genetic variation.	Article	2	1	25	3	57
2014	Exploring the conformational transitions of biomolecular systems using a simple two-state anisotropic network model.	Article	1			3	3756
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2014	Rising tides or rising stars?: Dynamics of shared attention on Twitter during media events.	Article	19		115	1	5845
2014	The Personalized Advantage Index: translating research on prediction into individualized treatment recommendations. A demonstration.	Article	14	3	59	13	1872
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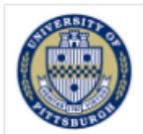
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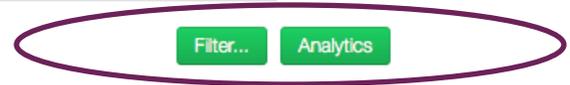
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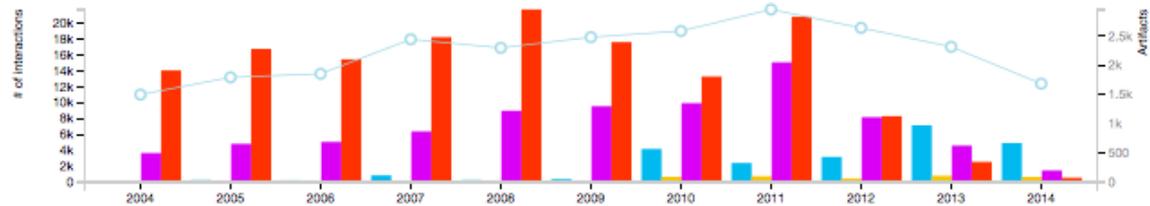
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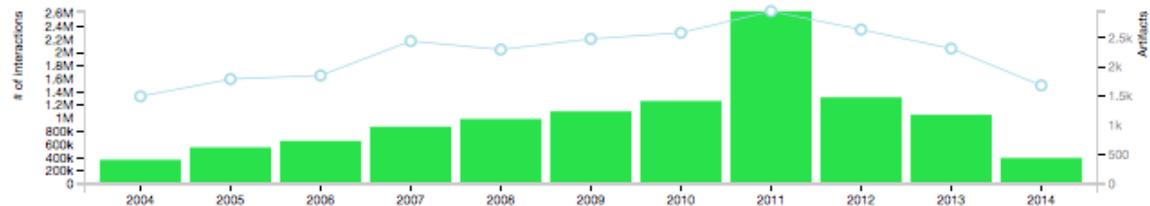
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2011	2426	759	5050	70785	2955
2010	4181	696	9928	13273	2586
2009	390	118	9544	17598	2481
2008	276	222	8977	1695	2298
2007	859	180	6383	18212	2444
2006	251	117	5068	15437	1855
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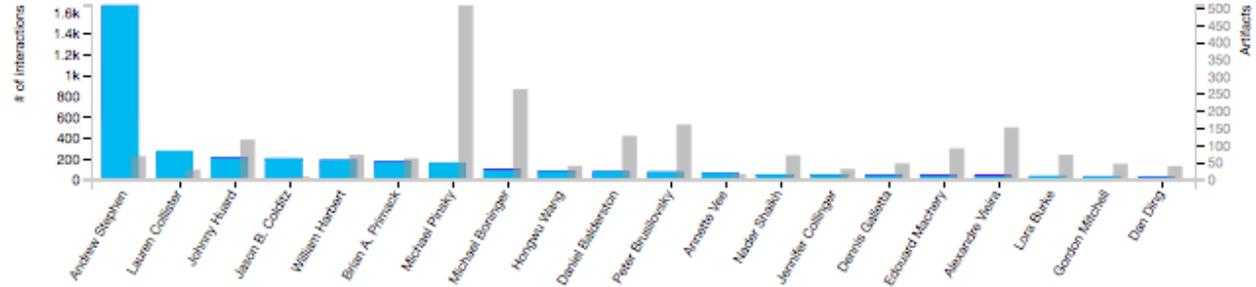
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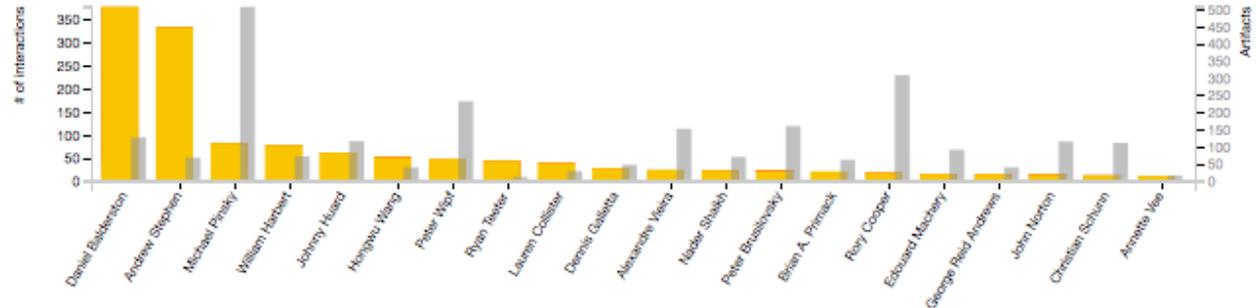
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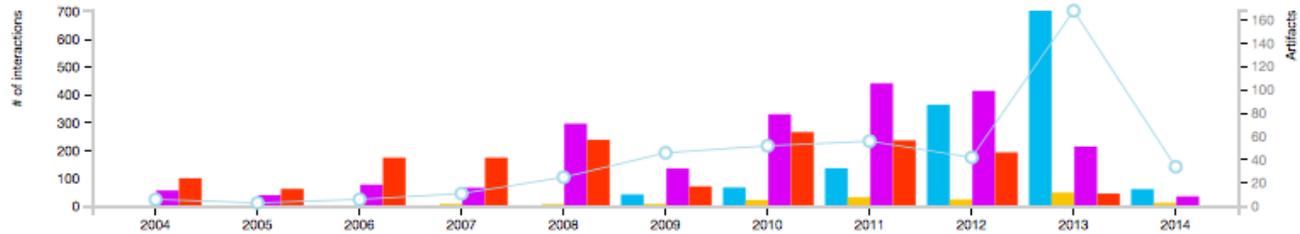
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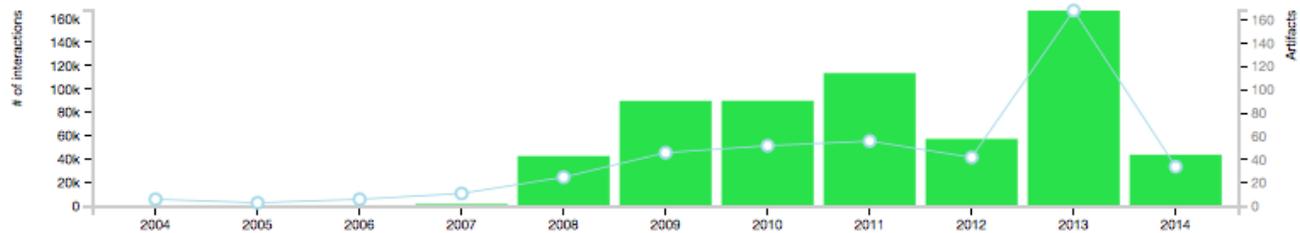
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Sample Profiles / Royal Society of Chemistry

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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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

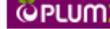


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Author Widget

 **Michael Pinsky** 

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

Artifact Summary

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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.

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