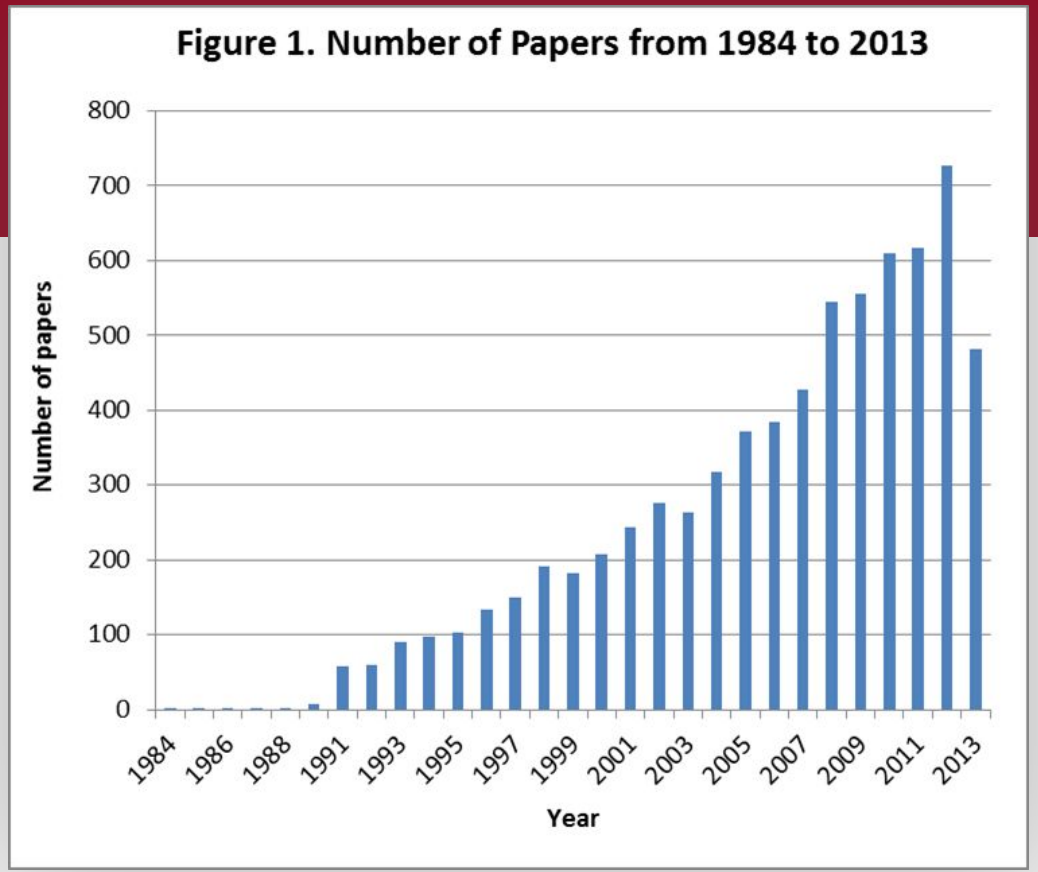
Published Research Metrics

Kevin Chiv



Problem:

Too many papers

Objective:

Create better metric for measuring impact factor of published research

MENU

nature
International journal of science

Letter | Published: 08 June 2000

Adhesive force of a single gecko foot-hair

Kellar Autumn, Yiching A. Liang, S. Tonia Hsieh, Wolfgang Zesch, Wai Pang Chan, Thomas W. Kenny, Ronald Fearing & Robert J. Full

Nature **405**, 681–685 (2000) | Download Citation

Abstract

Geckos are exceptional in their ability to climb rapidly up smooth vertical surfaces[1,2,3]. Microscopy has shown that a gecko's foot has nearly five hundred thousand keratinous hairs or setae. Each 30–130 μm long seta is only one-tenth the diameter of a human hair and contains hundreds of projections terminating in 0.2–0.5 μm spatula-shaped structures[2,4]. After nearly a century of anatomical description[2,4,5,6], here

MENU

nature
International journal of science

Letter | Published: 08 June 2000

Adhesive force of a single gecko foot-hair

Kellar Autumn, Yiching A. Liang, S. Tonia Hsieh, Wolfgang Zesch, Wai Pang Chan, Thomas W. Kenny, Ronald Fearing & Robert J. Full

Nature **405**, 681–685 (2000) | Download Citation

Abstract

Geckos are exceptional in their ability to climb rapidly up smooth vertical surfaces[1,2,3]. Microscopy has shown that a gecko's foot has nearly five hundred thousand keratinous hairs or setae. Each 30–130 μm long seta is only one-tenth the diameter of a human hair and contains hundreds of projections terminating in 0.2–0.5 μm spatula-shaped structures[2,4]. After nearly a century of anatomical description[2,4,5,6], here

MENU

nature
International journal of science

Letter | Published: 08 June 2000

Adhesive force of a single gecko foot-hair

Kellar Autumn, Yiching A. Liang, S. Tonia Hsieh, Wolfgang Zesch, Wai Pang Chan, Thomas W. Kenny, Ronald Fearing & Robert J. Full

Nature **405**, 681–685 (2000) | Download Citation

Abstract

Geckos are exceptional in their ability to climb rapidly up smooth vertical surfaces[1,2,3]. Microscopy has shown that a gecko's foot has nearly five hundred thousand keratinous hairs or setae. Each 30–130 μm long seta is only one-tenth the diameter of a human hair and contains hundreds of projections terminating in 0.2–0.5 μm spatula-shaped structures[2,4]. After nearly a century of anatomical description[2,4,5,6], here

MENU

nature
International journal of science

Letter | Published: 08 June 2000

Adhesive force of a single gecko foot-hair

Kellar Autumn, Yiching A. Liang, S. Tonia Hsieh, Wolfgang Zesch, Wai Pang Chan, Thomas W. Kenny, Ronald Fearing & Robert J. Full

Nature **405**, 681–685 (2000) | Download Citation

Abstract

Geckos are exceptional in their ability to climb rapidly up smooth vertical surfaces[1,2,3]. Microscopy has shown that a gecko's foot has nearly five hundred thousand keratinous hairs or setae. Each 30–130 μm long seta is only one-tenth the diameter of a human hair and contains hundreds of projections terminating in 0.2–0.5 μm spatula-shaped structures[2,4]. After nearly a century of anatomical description[2,4,5,6], here

MENU

nature
International journal of science

Letter | Published: 08 June 2000

Adhesive force of a single gecko foot-hair

Kellar Autumn, Yiching A. Liang, S. Tonia Hsieh, Wolfgang Zesch, Wai Pang Chan, Thomas W. Kenny, Ronald Fearing & Robert J. Full

Nature **405**, 681–685 (2000) | Download Citation

Abstract

Geckos are exceptional in their ability to climb rapidly up smooth vertical surfaces[1,2,3]. Microscopy has shown that a gecko's foot has nearly five hundred thousand keratinous hairs or setae. Each 30–130 μm long seta is only one-tenth the diameter of a human hair and contains hundreds of projections terminating in 0.2–0.5 μm spatula-shaped structures[2,4]. After nearly a century of anatomical description[2,4,5,6], here

Online attention

Altmetric score (what's this?)

- Tweeted by **5**
- Blogged by **4**
- On **6** Facebook pages
- Mentioned in **2** Google+ posts
- Picked up by **1** news outlets
- **1** Video

- **791** readers on Mendeley
- **7** readers on Citeulike
- **1** readers on Connotea

Show less

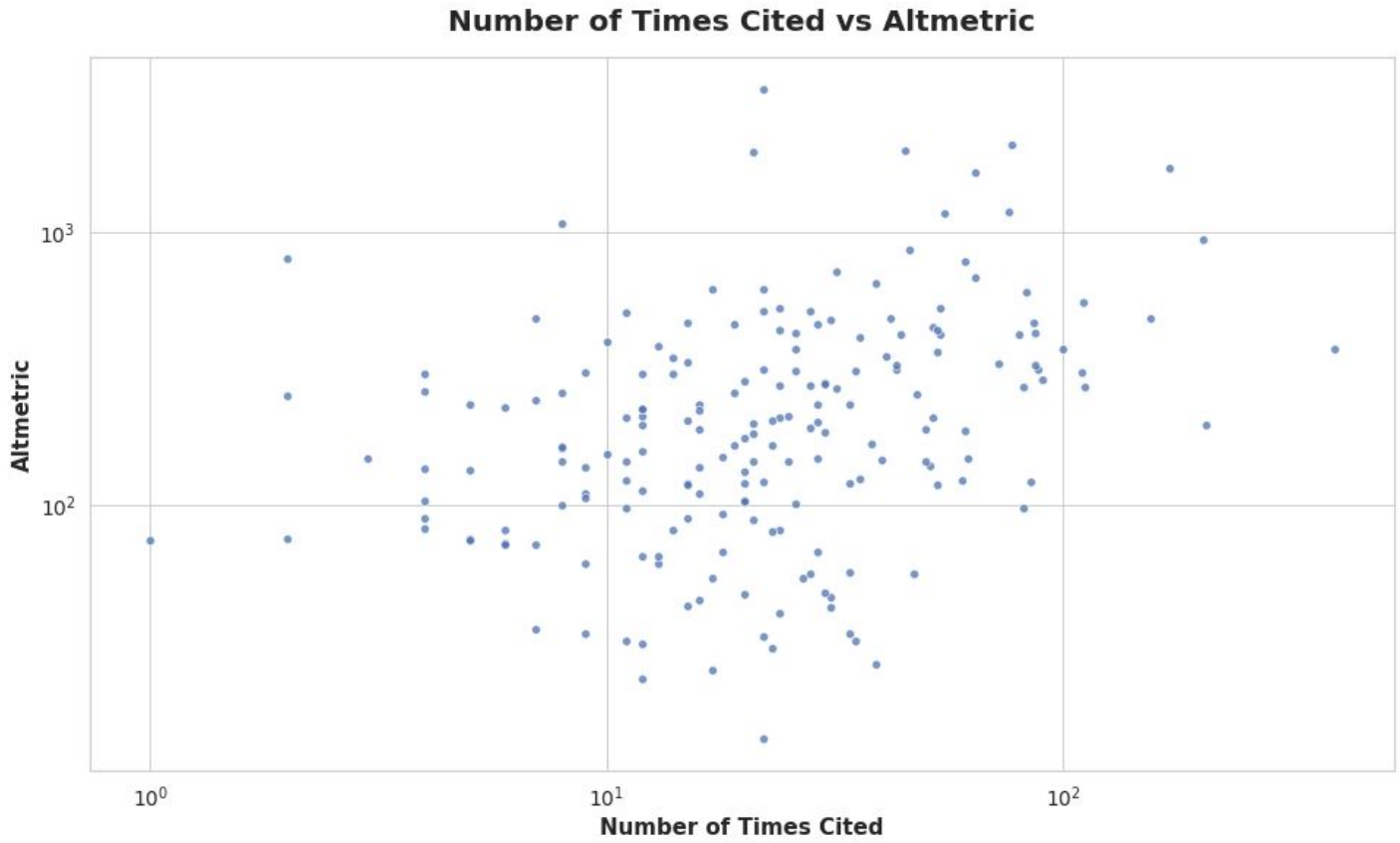
This Altmetric score means that the article is:

- in the 97th percentile (ranked 4,974th) of the 207,307 tracked articles of a similar age in all journals
- in the 56th percentile (ranked 450th) of the 1,029 tracked articles of a similar age in *Nature*

Dependent: Altmetric

Independent:

Number of citations, number of authors, & more


Number of Times Cited vs Altmetric
Altmetric
10^3
10^2
10^0
10^1
10^2
Number of Times Cited

K-Fold Cross Validation With 5 Different Regression Models

Best Linear Regression Model: OLS	
Key Features:	**Coefficients:**
Number of Times Cited	1.22
Number of Institutions Involved	1.05
Number of Authors	1.03
Number of References	0.99
Number of Years Since Published	0.62

Training Mean R^2:	Standard Deviation of Training R^2:	Test R^2:
0.56	.04	0.53

Recommendations

- Search for relevant top research institutions
- Follow high-profile individuals on Google Scholar
- Consider the date the paper was published

Thank You!