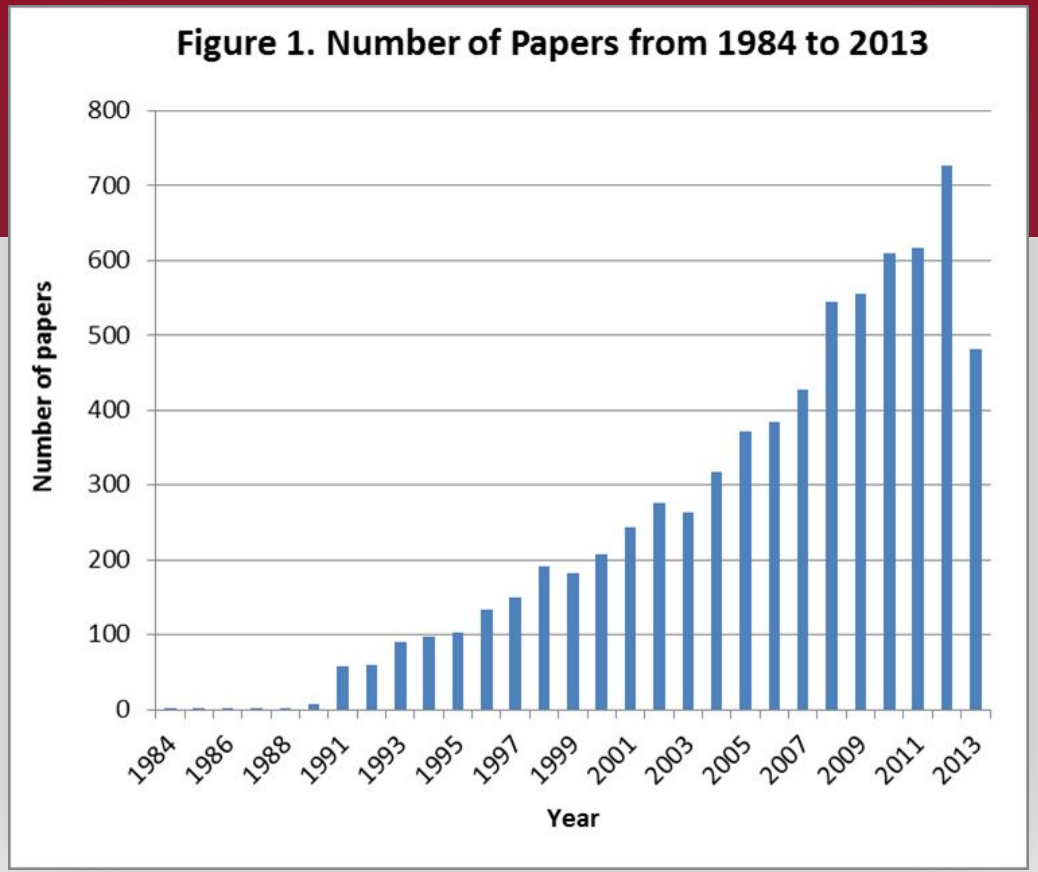
Published Research Metrics

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

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Online attention

Altmetric score (what's this?)

- Tweeted by **5**
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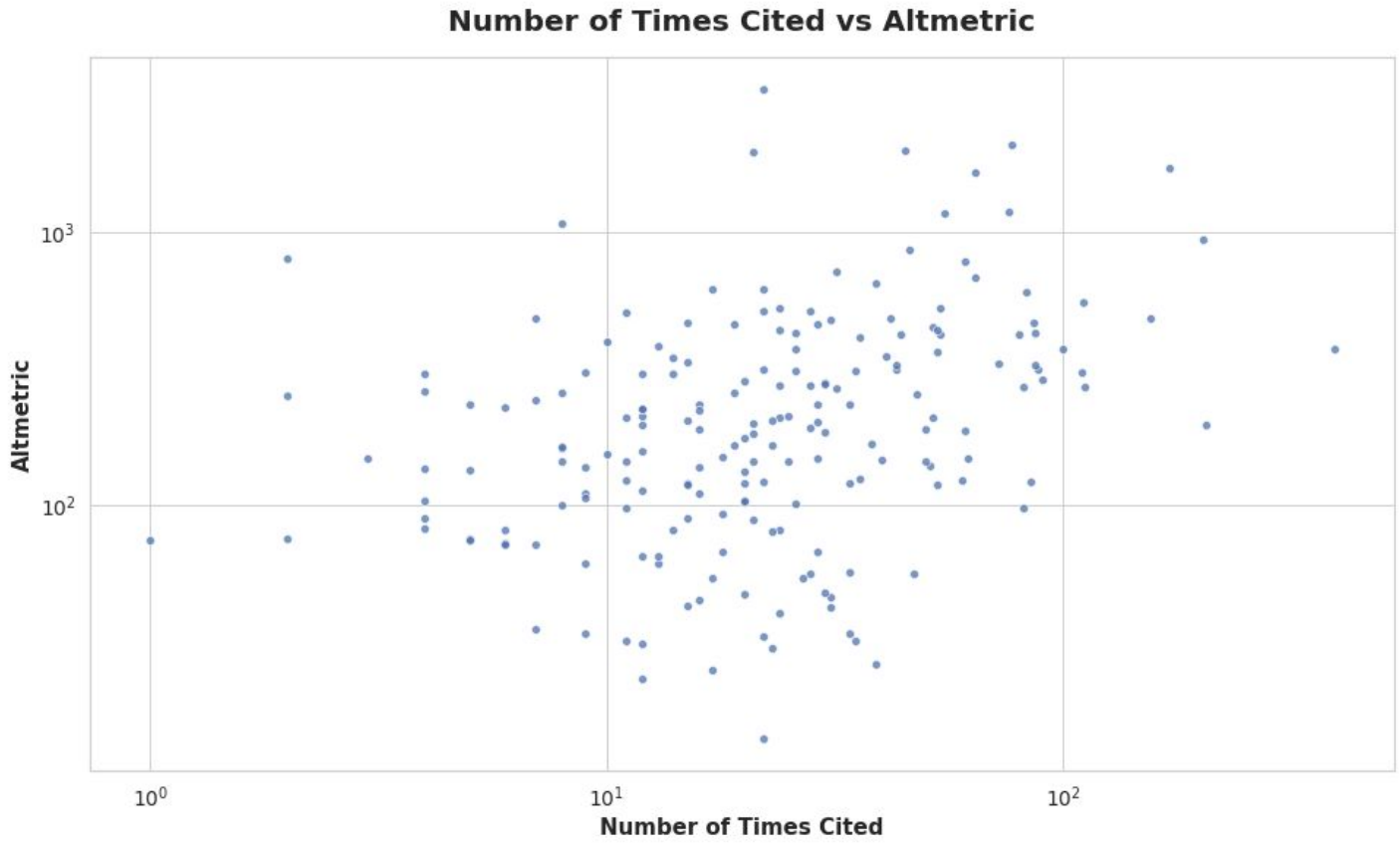
Dependent: Altmetric

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:	**Effect on Score:**
Number of Times Cited	0.47%
Number of Institutions Involved	0.15%
Number of Authors	0.1%
Number of References	-0.32%
Number of Years Since Published	-33.57%

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
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Thank You!