Alexander Michael Petersen

List of Publications by Citations

44 papers	2,670 citations	24 h-index	51 g-index
52 ext. papers	3,167 ext. citations	6 avg, IF	5.44 L-index

#	Paper	IF	Citations
44	Cross-correlations between volume change and price change. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 22079-84	11.5	540
43	Science of science. *Science*, **2018**, 359,	33.3	373
42	On the role of zealotry in the voter model. *Journal of Statistical Mechanics: Theory and Experiment*, **2007**, 2007, P08029-P08029	1.9	156
41	Reputation and impact in academic careers. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 15316-21	11.5	146
40	Languages cool as they expand: allometric scaling and the decreasing need for new words. *Scientific Reports*, **2012**, 2, 943	4.9	140
39	Quantitative and empirical demonstration of the Matthew effect in a study of career longevity. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 18-23	11.5	138
38	Persistence and uncertainty in the academic career. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 5213-8	11.5	88
37	Quantifying the impact of weak, strong, and super ties in scientific careers. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E4671-80	11.5	77
36	On the predictability of future impact in science. *Scientific Reports*, **2013**, 3, 3052	4.9	74
35	Statistical laws governing fluctuations in word use from word birth to word death. *Scientific Reports* , **2012**, 2, 313	4.9	73
34	The evolution of networks of innovators within and across borders: Evidence from patent data. *Research Policy*, **2015**, 44, 651-668	7.5	67
33	Bankruptcy risk model and empirical tests. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 18325-30	11.5	66
32	Methods for measuring the citations and productivity of scientists across time and discipline. *Physical Review E*, **2010**, 81, 036114	2.4	64
31	European policy. Is Europe evolving toward an integrated research area?. *Science*, **2013**, 339, 650-1	33.3	59
30	A triple helix model of medical innovation: Supply, demand, and technological capabilities in terms of Medical Subject Headings. *Research Policy*, **2016**, 45, 666-681	7.5	56
29	Market dynamics immediately before and after financial shocks: Quantifying the Omori, productivity, and Bath laws. *Physical Review E*, **2010**, 82, 036114	2.4	54
28	Statistical regularities in the rank-citation profile of scientists. *Scientific Reports*, **2011**, 1, 181	4.9	53

27	Exploiting citation networks for large-scale author name disambiguation. *EPJ Data Science*, **2014**, 3,	3.4	39
26	Discrepancy in scientific authority and media visibility of climate change scientists and contrarians. *Nature Communications*, **2019**, 10, 3502	17.4	35
25	The memory of science: Inflation, myopia, and the knowledge network. *Journal of Informetrics*, **2018**, 12, 656-678	3.1	34
24	Quantitative law describing market dynamics before and after interest-rate change. *Physical Review E*, **2010**, 81, 066121	2.4	33
23	On the distribution of career longevity and the evolution of home-run prowess in professional baseball. *Europhysics Letters*, **2008**, 83, 50010	1.6	26
22	Multiscale impact of researcher mobility. *Journal of the Royal Society Interface*, **2018**, 15,	4.1	25
21	Commentary: The case for caution in predicting scientists□future impact. *Physics Today*, **2013**, 66, 8-9	0.9	24
20	Methods to account for citation inflation in research evaluation. *Research Policy*, **2019**, 48, 1855-1865	7.5	23
19	A quantitative perspective on ethics in large team science. *Science and Engineering Ethics*, **2014**, 20, 923-45	3.1	21
18	Inequality and cumulative advantage in science careers: a case study of high-impact journals. *EPJ Data Science*, **2014**, 3,	3.4	20
17	Quantitative relations between risk, return and firm size. *Europhysics Letters*, **2009**, 85, 50003	1.6	19
16	Self-organization of meaning and the reflexive communication of information. *Social Science Information*, **2017**, 56, 4-27	0.6	16
15	The Z-index: A geometric representation of productivity and impact which accounts for information in the entire rank-citation profile. *Journal of Informetrics*, **2013**, 7, 823-832	3.1	16
14	Methods for detrending success metrics to account for inflationary and deflationary factors*. *European Physical Journal B*, **2011**, 79, 67-78	1.2	15
13	Quantifying the negative impact of brain drain on the integration of European science. *Science Advances*, **2017**, 3, e1602232	14.3	14
12	Scale-invariant properties of public-debt growth. *Europhysics Letters*, **2010**, 90, 38006	1.6	12
11	Cross-disciplinary evolution of the genomics revolution. *Science Advances*, **2018**, 4, eaat4211	14.3	10
10	Common scaling behavior in finance and macroeconomics. *European Physical Journal B*, **2010**, 76, 487-490	1.2	10

9	Megajournal mismanagement: Manuscript decision bias and anomalous editor activity at PLOS ONE. *Journal of Informetrics*, **2019**, 13, 100974	3.1	7
8	High-skilled labour mobility in Europe before and after the 2004 enlargement. *Journal of the Royal Society Interface*, **2017**, 14,	4.1	5
7	Renormalizing individual performance metrics for cultural heritage management of sports records. *Chaos, Solitons and Fractals*, **2020**, 136, 109821	9.3	3
6	A Triple Helix Model of Medical Innovation: Supply, Demand, and Technological Capabilities in Terms of Medical Subject Headings. *SSRN Electronic Journal*, **2016**,	1	3
5	On the Social and Cognitive Dimensions of Wicked Environmental Problems Characterized by Conceptual and Solution Uncertainty. *International Journal of Modeling, Simulation, and Scientific Computing*,	0.8	3
4	Methods to Account for Citation Inflation in Research Evaluation. *SSRN Electronic Journal*, **2018**,	1	2
3	Scholar Plot: Design and Evaluation of an Information Interface for Faculty Research Performance. *Frontiers in Research Metrics and Analytics*, **2019**, 4, 6	1.3	2
2	Grand challenges and emergent modes of convergence science. *Humanities and Social Sciences Communications*, **2021**, 8,	2.8	2
1	Statistical Laws Governing Fluctuations in Word Use from Word Birth to Word Death. *SSRN Electronic Journal*,	1	1