Tobias Preis

List of Publications by Year
in descending order

59 papers	3,757 citations	172207 29 h-index	155451 55 g-index
62 all docs	62 docs citations	62 times ranked	2873 citing authors

#	ARTICLE	IF	CITATIONS
1	Quantifying Trading Behavior in Financial Markets Using Google Trends. Scientific Reports, 2013, 3, 1684.	1.6	644
2	GPU accelerated Monte Carlo simulation of the 2D and 3D Ising model. Journal of Computational Physics, 2009, 228, 4468-4477.	1.9	267
3	Quantifying Wikipedia Usage Patterns Before Stock Market Moves. Scientific Reports, 2013, 3, .	1.6	226
4	Complex dynamics of our economic life on different scales: insights from search engine query data. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 5707-5719.	1.6	207
5	Quantifying the Behavior of Stock Correlations Under Market Stress. Scientific Reports, 2012, 2, 752.	1.6	164
6	Quantifying the semantics of search behavior before stock market moves. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11600-11605.	3.3	144
7	Quantifying the Advantage of Looking Forward. Scientific Reports, 2012, 2, 350.	1.6	140
8	Linking agent-based models and stochastic models of financial markets. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8388-8393.	3.3	127
9	Switching processes in financial markets. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7674-7678.	3.3	120
10	Quantifying the Relationship Between Financial News and the Stock Market. Scientific Reports, 2013, 3, 3578.	1.6	119
11	The advantage of short paper titles. Royal Society Open Science, 2015, 2, 150266.	1.1	117
12	Quantifying crowd size with mobile phone and <i>Twitter</i> data. Royal Society Open Science, 2015, 2, 150162.	1.1	106
13	Adaptive nowcasting of influenza outbreaks using Â <i>Google</i> searches. Royal Society Open Science, 2014, 1, 140095.	1.1	85
14	Multi-agent-based Order Book Model of financial markets. Europhysics Letters, 2006, 75, 510-516.	0.7	81
15	Multi-GPU accelerated multi-spin Monte Carlo simulations of the 2D Ising model. Computer Physics Communications, 2010, 181, 1549-1556.	3.0	80
16	Using deep learning to quantify the beauty of outdoor places. Royal Society Open Science, 2017, 4, 170170.	1.1	78
17	DEPENDENCY NETWORK AND NODE INFLUENCE: APPLICATION TO THE STUDY OF FINANCIAL MARKETS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250181.	0.7	77
18	Switching Phenomena in a System with No Switches. Journal of Statistical Physics, 2010, 138, 431-446.	0.5	74

#	Article	IF	Citations
19	Quantifying the Digital Traces of Hurricane Sandy on Flickr. Scientific Reports, 2013, 3, 3141.	1.6	69
20	Using big data to predict collective behavior in the real world. Behavioral and Brain Sciences, 2014, 37, 92-93.	0.4	67
21	Quantifying the Impact of Scenic Environments on Health. Scientific Reports, 2015, 5, 16899.	1.6	67
22	Happiness is Greater in More Scenic Locations. Scientific Reports, 2019, 9, 4498.	1.6	63
23	Accelerated fluctuation analysis by graphic cards and complex pattern formation in financial markets. New Journal of Physics, 2009, 11, 093024.	1.2	46
24	Statistical analysis of financial returns for a multiagent order book model of asset trading. Physical Review E, 2007, 76, 016108.	0.8	44
25	Estimating suicide occurrence statistics using Google Trends. EPJ Data Science, 2016, 5, 32.	1.5	44
26	Quantifying International Travel Flows Using Flickr. PLoS ONE, 2015, 10, e0128470.	1.1	43
27	Quantifying Stock Return Distributions in Financial Markets. PLoS ONE, 2015, 10, e0135600.	1.1	35
28	Quantifying meta-correlations in financial markets. Europhysics Letters, 2012, 99, 38001.	0.7	32
29	The advantage of simple paper abstracts. Journal of Informetrics, 2016, 10, 1-8.	1.4	32
30	Econophysics â€" complex correlations and trend switchings in financial time series. European Physical Journal: Special Topics, 2011, 194, 5-86.	1.2	29
31	Fluctuation patterns in high-frequency financial asset returns. Europhysics Letters, 2008, 82, 68005.	0.7	27
32	Correlated randomness and switching phenomena. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 2880-2893.	1.2	26
33	GPU-computing in econophysics and statistical physics. European Physical Journal: Special Topics, 2011, 194, 87-119.	1.2	25
34	Quantifying scenic areas using crowdsourced data. Environment and Planning B: Urban Analytics and City Science, 2018, 45, 567-582.	1.0	24
35	Modelling human mobility patterns using photographic data shared online. Royal Society Open Science, 2015, 2, 150046.	1.1	23
36	Scenicness assessment of onshore wind sites with geotagged photographs and impacts on approval and cost-efficiency. Nature Energy, 2021, 6, 663-672.	19.8	19

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37	Characterizing the Time-Perspective of Nations with Search Engine Query Data. PLoS ONE, 2014, 9, e95209.	1.1	18
38	Searching Choices: Quantifying Decision‑Making Processes Using Search Engine Data. Topics in Cognitive Science, 2016, 8, 685-696.	1.1	17
39	Sensing global tourism numbers with millions of publicly shared online photographs. Environment and Planning A, 2020, 52, 471-477.	2.1	16
40	Bubble trouble. Physics World, 2011, 24, 29-32.	0.0	14
41	Quantifying the link between art and property prices in urban neighbourhoods. Royal Society Open Science, 2016, 3, 160146.	1.1	14
42	Ã–konophysik. , 2011, , .		14
43	Quantifying the diversity of news around stock market moves. Journal of Network Theory in Finance, 2017, 3, 1-20.	0.7	12
44	Tracking Protests Using Geotagged Flickr Photographs. PLoS ONE, 2016, 11, e0150466.	1.1	11
45	Price-Time Priority and Pro Rata Matching in an Order Book Model of Financial Markets. New Economic Windows, 2011, , 65-72.	1.0	8
46	Using aircraft location data to estimate current economic activity. Scientific Reports, 2020, 10, 7576.	1.6	7
47	In search of art: rapid estimates of gallery and museum visits using Google Trends. EPJ Data Science, 2020, 9, .	1.5	7
48	Simulating the microstructure of financial markets. Journal of Physics: Conference Series, 2010, 221, 012019.	0.3	6
49	Measuring the size of a crowd using Instagram. Environment and Planning B: Urban Analytics and City Science, 2020, 47, 1690-1703.	1.0	6
50	Quantifying Regional Differences in the Length of Twitter Messages. PLoS ONE, 2015, 10, e0122278.	1.1	6
51	Quantifying the Search Behaviour of Different Demographics Using Google Correlate. PLoS ONE, 2016, 11, e0149025.	1.1	6
52	Trend Switching Processes in Financial Markets. , 2010, , 3-26.		5
53	Anticipating Stock Market Movements with Google and Wikipedia. NATO Science for Peace and Security Series C: Environmental Security, 2014, , 47-59.	0.1	5
54	Computer simulations of the Ising Model on Graphics Processing Units. European Physical Journal: Special Topics, 2012, 210, 133-145.	1.2	4

#	Article	IF	Citations
55	Early Signs of Financial Market Moves Reflected by Google Searches. , 2015, , 85-97.		3
56	Estimating tourism statistics with Wikipedia page views. , 2015, , .		2
57	Using big data to map the relationship between time perspectives and economic outputs. Behavioral and Brain Sciences, 2019, 42, e206.	0.4	2
58	Faster indicators of chikungunya incidence using Google searches. PLoS Neglected Tropical Diseases, 2022, 16, e0010441.	1.3	1
59	SWITCHING PHENOMENA. , 2010, , .		0