Joachim Peinke

List of Publications by Citations

398 papers	7,271 citations	40 h-index	71 g-index
429 ext. papers	8,295 ext. citations	2.5 avg, IF	5.99 L-index

#	Paper	IF	Citations
398	Turbulent cascades in foreign exchange markets. *Nature*, **1996**, 381, 767-770	50.4	479
397	Description of a Turbulent Cascade by a Fokker-Planck Equation. *Physical Review Letters*, **1997**, 78, 863-866	7.4	280
396	Analysis of data sets of stochastic systems. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1998**, 243, 275-280	2.3	208
395	Approaching complexity by stochastic methods: From biological systems to turbulence. *Physics Reports*, **2011**, 506, 87-162	27.7	207
394	Grand challenges in the science of wind energy. *Science*, **2019**, 366,	33.3	198
393	Structure functions in turbulence, in various flow configurations, at Reynolds number between 30 and 5000, using extended self-similarity. *Europhysics Letters*, **1996**, 34, 411-416	1.6	197
392	Experimental indications for Markov properties of small-scale turbulence. *Journal of Fluid Mechanics*, **2001**, 433, 383-409	3.7	176
391	Extracting model equations from experimental data. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2000**, 271, 217-222	2.3	154
390	How to quantify deterministic and random influences on the statistics of the foreign exchange market. *Physical Review Letters*, **2000**, 84, 5224-7	7.4	154
389	Turbulent character of wind energy. *Physical Review Letters*, **2013**, 110, 138701	7.4	142
388	Short term fluctuations of wind and solar power systems. *New Journal of Physics*, **2016**, 18, 063027	2.9	106
387	Long-term research challenges in wind energy – a research agenda by the European Academy of Wind Energy. *Wind Energy Science*, **2016**, 1, 1-39	3.2	103
386	Spontaneous oscillations and chaos in p-germanium. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1985**, 108, 407-412	2.3	94
385	Atmospheric turbulence and its influence on the alternating loads on wind turbines. *Wind Energy*, **2011**, 14, 301-316	3.4	92
384	Transition toward developed turbulence. *Physical Review Letters*, **1994**, 73, 3227-3230	7.4	89
383	Spatially resolved observation of current filament dynamics in semiconductors. *Solid State Communications*, **1987**, 63, 55-59	1.6	89
382	On a quantitative method to analyze dynamical and measurement noise. *Europhysics Letters*, **2003**, 61, 466-472	1.6	75

381	Statistical properties of a turbulent cascade. *Physica D: Nonlinear Phenomena*, **1997**, 102, 147-155	3.3	72
380	Evidence of Markov properties of high frequency exchange rate data. *Physica A: Statistical Mechanics and Its Applications*, **2001**, 298, 499-520	3.3	72
379	Small and large scale fluctuations in atmospheric wind speeds. *Stochastic Environmental Research and Risk Assessment*, **2007**, 21, 299-308	3.5	68
378	On the Statistics of Wind Gusts. *Boundary-Layer Meteorology*, **2003**, 108, 163-173	3.4	68
377	Encounter with Chaos **1992**,		68
376	How to improve the estimation of power curves for wind turbines. *Environmental Research Letters*, **2008**, 3, 015005	6.2	66
375	Characterization of wind turbulence by higher-order statistics. *Wind Energy*, **2012**, 15, 391-406	3.4	64
374	Comment on "Indispensable finite time corrections for Fokker-Planck equations from time series data". *Physical Review Letters*, **2002**, 89, 149401; author reply 149402	7.4	62
373	Self-organized synchronization and voltage stability in networks of synchronous machines. *European Physical Journal: Special Topics*, **2014**, 223, 2577-2592	2.3	57
372	Mapping stochastic processes onto complex networks. *Journal of Statistical Mechanics: Theory and Experiment*, **2009**, 2009, P07046	1.9	55
371	Reconstruction of complex dynamical systems affected by strong measurement noise. *Physical Review Letters*, **2006**, 97, 090603	7.4	55
370	An iterative procedure for the estimation of drift and diffusion coefficients of Langevin processes. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2005**, 346, 42-46	2.3	53
369	On the definition and handling of different drift and diffusion estimates. *New Journal of Physics*, **2008**, 10, 083034	2.9	50
368	The Markov–Einstein coherence length—a new meaning for the Taylor length in turbulence. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2006**, 359, 335-338	2.3	50
367	Defining a new class of turbulent flows. *Physical Review Letters*, **2010**, 104, 194501	7.4	48
366	Universality of small scale turbulence. *Physical Review Letters*, **2002**, 89, 124502	7.4	48
365	Turbulencelike behavior of seismic time series. *Physical Review Letters*, **2009**, 102, 014101	7.4	47
364	The impact of turbulent renewable energy production on power grid stability and quality. *European Physical Journal B*, **2017**, 90, 1	1.2	46

363	Atmospheric wind field conditions generated by active grids. *Experiments in Fluids*, **2011**, 51, 471-481	2.5	44
362	Reconstruction of dynamical equations for traffic flow. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2002**, 299, 287-291	2.3	43
361	Stochastic analysis of different rough surfaces. *European Physical Journal B*, **2004**, 41, 259-277	1.2	42
360	Markov analysis and Kramers-Moyal expansion of nonstationary stochastic processes with application to the fluctuations in the oil price. *Physical Review E*, **2007**, 75, 060102	2.4	41
359	A p-Ge semiconductor experiment showing chaos and hyperchaos. *Physica D: Nonlinear Phenomena*, **1989**, 35, 425-435	3.3	41
358	Spatial correlations of chaotic oscillations in the post-breakdown regime of p-Ge. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **1987**, 119, 419-424	2.3	40
357	Experimental Study on Influence of Pitch Motion on the Wake of a Floating Wind Turbine Model. *Energies*, **2014**, 7, 1954-1985	3.1	39
356	Wind tunnel experiments on wind turbine wakes in yaw: effects of inflow turbulence and shear. *Wind Energy Science*, **2018**, 3, 329-343	3.2	38
355	Classification of spontaneous oscillations at the onset of avalanche breakdown in p-type germanium. *Physical Review B*, **1991**, 43, 2255-2262	3.3	37
354	Analysis of non-stationary data for heart-rate fluctuations in terms of drift and diffusion coefficients. *Journal of Biological Physics*, **2006**, 32, 117-28	1.6	35
353	Normal Behaviour Models for Wind Turbine Vibrations: Comparison of Neural Networks and a Stochastic Approach. *Energies*, **2017**, 10, 1944	3.1	34
352	Fokker-Planck equation for the energy cascade in turbulence. *Physical Review E*, **1997**, 56, 6719-6722	2.4	34
351	Markovian power curves for wind turbines. *Wind Energy*, **2008**, 11, 219-232	3.4	34
350	Turbulence, a challenging problem for wind energy. *Physica A: Statistical Mechanics and Its Applications*, **2004**, 338, 187-193	3.3	34
349	Resonance imaging of dynamical filamentary current structures in a semiconductor. *Physica D: Nonlinear Phenomena*, **1988**, 32, 306-317	3.3	34
348	Disentangling the stochastic behavior of complex time series. *Scientific Reports*, **2016**, 6, 35435	4.9	34
347	Fully developed turbulent dynamo at low magnetic Prandtl numbers. *Journal of Turbulence*, **2006**, 7, N39	2.1	33
346	Positive and negative differential resistance in electrical conductors. *European Physical Journal B*, **1987**, 66, 65-73	1.2	33

345	Wind tunnel experiments on wind turbine wakes in yaw: redefining the wake width. *Wind Energy Science*, **2018**, 3, 257-273	3.2	33
344	The turbulent nature of the atmospheric boundary layer and its impact on the wind energy conversion process. *Journal of Turbulence*, **2012**, 13, N26	2.1	32
343	Multiscale reconstruction of time series. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2006**, 360, 234-237	2.3	32
342	Spatial and Temporal Current Instabilities in Germanium. *Physica Scripta*, **1987**, T19B, 505-510	2.6	32
341	Fluid-structure coupled computations of the NREL 5 MW wind turbine by means of CFD. *Renewable Energy*, **2018**, 129, 591-605	8.1	32
340	Insight into Rotational Effects on a Wind Turbine Blade Using Navier-Stokes Computations. *Energies*, **2014**, 7, 6798-6822	3.1	31
339	Hyperchaos in the Post-Breakdown Regime of p-Germanium. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **1985**, 40, 562-566	1.4	31
338	Wake to wake interaction of floating wind turbine models in free pitch motion: An eddy viscosity and mixing length approach. *Renewable Energy*, **2016**, 85, 666-676	8.1	30
337	Towards a stochastic multi-point description of turbulence. *New Journal of Physics*, **2010**, 12, 103046	2.9	30
336	Determination of electric transport properties in the pre- and post-breakdown regime ofp-germanium. *European Physical Journal B*, **1988**, 72, 225-233	1.2	30
335	Multi-scale generation of turbulence with fractal grids and an active grid. *Fluid Dynamics Research*, **2013**, 45, 061407	1.2	29
334	A note on three-point statistics of velocity increments in turbulence. *Europhysics Letters*, **1998**, 41, 153-158	1.8	29
333	Dynamics of disordered patterns in electroconvection of homeotropically aligned nematic liquid crystals. *Physical Review E*, **1998**, 58, 1983-1991	2.4	29
332	Formation of chevrons in the dielectric regime of electroconvection in nematic liquid crystals. *Physical Review E*, **1998**, 58, 2018-2026	2.4	29
331	Classification of current instabilities during low-temperature breakdown in germanium. *Applied Physics A: Solids and Surfaces*, **1989**, 48, 155-160		29
330	Stochastic analysis of surface roughness. *Europhysics Letters*, **2003**, 64, 579-585	1.6	28
329	Micro-scale wind resource assessment in complex terrain based on CFD coupled measurement from multiple masts. *Applied Energy*, **2019**, 238, 806-815	10.7	27
328	Regeneration of stochastic processes: an inverse method. *European Physical Journal B*, **2005**, 47, 411-415	1.2	27

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326	Kolmogorov spectrum of renewable wind and solar power fluctuations. *European Physical Journal: Special Topics*, **2014**, 223, 2637-2644	2.3	26
325	Influence of periodic variations in water level on regional seismic activity around a large reservoir: Field data and laboratory model. *Physics of the Earth and Planetary Interiors*, **2006**, 156, 130-142	2.3	26
324	On the impact of non-Gaussian wind statistics on wind turbines an experimental approach. *Wind Energy Science*, **2017**, 2, 1-13	3.2	26
323	Propagation of wind-power-induced fluctuations in power grids. *Physical Review E*, **2019**, 99, 050301	2.4	25
322	Fully developed turbulence in the view of horizontal visibility graphs. *Journal of Statistical Mechanics: Theory and Experiment*, **2015**, 2015, P08031	1.9	25
321	Laser-cantilever anemometer: A new high-resolution sensor for air and liquid flows. *Review of Scientific Instruments*, **2005**, 76, 075110	1.7	25
320	Towards a Simplified DynamicWake Model Using POD Analysis. *Energies*, **2015**, 8, 895-920	3.1	24
319	Fatigue Load Estimation through a Simple Stochastic Model. *Energies*, **2014**, 7, 8279-8293	3.1	24
318	Conditional statistics of velocity fluctuations in turbulence. *Physica D: Nonlinear Phenomena*, **1998**, 113, 73-78	3.3	24
317	Experimental progress in the nonlinear behavior of semiconductors. *Applied Physics A: Solids and Surfaces*, **1989**, 48, 107-110		24
316	Stochastic Wake Modelling Based on POD Analysis. *Energies*, **2018**, 11, 612	3.1	23
315	Stochastic modeling and performance monitoring of wind farm power production. *Journal of Renewable and Sustainable Energy*, **2014**, 6, 033119	2.5	23
314	A classification scheme for turbulence based on the velocity-intermittency structure with an application to near-wall flow and with implications for bed load transport. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		23
313	Improved estimation of Fokker-Planck equations through optimization. *Physical Review E*, **2007**, 76, 056102	2.4	23
312	Dynamics of current filaments in p-type germanium under the influence of a transverse magnetic field. *Journal of Applied Physics*, **1991**, 70, 232-235	2.5	22
311	Insights into the periodic gust response of airfoils. *Journal of Fluid Mechanics*, **2019**, 876, 237-263	3.7	21
310	Improved multifractal box-counting algorithm, virtual phase transitions, and negative dimensions. *Physical Review E*, **1998**, 57, 5489-5493	2.4	21

309	Uniform Statistical Description of the Transition between Near and Far Field Turbulence in a Wake Flow. *Physical Review Letters*, **1999**, 83, 5495-5498	7.4	21
308	Imaging of spatio-temporal structures in semiconductors. *Solid-State Electronics*, **1989**, 32, 1365-1369	1.7	21
307	Observation of a Large-Scale Sheetlike Current Filament in a Thinn-GaAs Layer. *Journal of the Physical Society of Japan*, **1990**, 59, 420-423	1.5	21
306	Spatio-temporal instabilities in the electric breakdown of p-germanium. *Solid-State Electronics*, **1988**, 31, 817-820	1.7	21
305	Detailed analysis of the blade root flow of a horizontal axis wind turbine. *Wind Energy Science*, **2016** , 1, 89-100	3.2	21
304	The Fokker□Planck Approach to Complex Spatiotemporal Disordered Systems. *Annual Review of Condensed Matter Physics*, **2019**, 10, 107-132	19.7	21
303	The footprint of atmospheric turbulence in power grid frequency measurements. *Europhysics Letters*, **2018**, 121, 30001	1.6	20
302	Critical Dynamics near the Onset of Spontaneous Oscillations in p -Germanium. *Europhysics Letters*, **1989**, 9, 743-748	1.6	20
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300	Quasiperiodicity and Mode Locking of Undriven Spontaneous Oscillations in Germanium Crystals. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **1987**, 42, 841-845	1.4	20
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297	Extracting strong measurement noise from stochastic time series: applications to empirical data. *Physical Review E*, **2010**, 81, 041125	2.4	19
296	Increase of order in seismic processes around large reservoir induced by water level periodic variation. *Nonlinear Dynamics*, **2008**, 51, 399-407	5	19
295	A phenomenological model for the dynamic response of wind turbines to turbulent wind. *Journal of Wind Engineering and Industrial Aerodynamics*, **2004**, 92, 159-183	3.7	19
294	Evidence of Type-III Intermittency in the Electric Breakdown of p -Type Germanium. *Europhysics Letters*, **1991**, 14, 1-6	1.6	19
293	Dynamic wake development of a floating wind turbine in free pitch motion subjected to turbulent inflow generated with an active grid. *Renewable Energy*, **2017**, 112, 1-16	8.1	18
292	An engineering model for wind turbines under yawed conditions derived from high fidelity models. *Wind Energy*, **2018**, 21, 618-633	3.4	18

291	Electron-beam induced instability during filamentary current transport inn-GaAs. *European Physical Journal B*, **1990**, 81, 53-58	1.2	18
290	Hyperchaos and Julia Sets. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **1986**, 41, 819-822	1.4	18
289	Suppressing power output fluctuations of photovoltaic power plants. *Solar Energy*, **2017**, 157, 735-743	6.8	17
288	Scaling Properties of Traffic-flow Data. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **1997**, 52, 600-604	1.4	17
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286	Spontaneous resistance oscillations inp-germanium at low temperatures and their spatial correlation. *European Physical Journal B*, **1987**, 66, 515-521	1.2	17
285	Comparative study on the wake deflection behind yawed wind turbine models. *Journal of Physics: Conference Series*, **2017**, 854, 012032	0.3	16
284	Exploring the dynamics of balance data movement variability in terms of drift and diffusion. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2009**, 373, 811-816	2.3	16
283	Stochastic modelling of a wind turbine power output with special respect to turbulent dynamics. *Journal of Physics: Conference Series*, **2007**, 75, 012045	0.3	16
282	Anomalous statistics in turbulence, financial markets and other complex systems. *Annalen Der Physik*, **2004**, 13, 450-460	2.6	16
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278	Phase transitions in experimental systems. *Physica D: Nonlinear Phenomena*, **1991**, 50, 405-411	3.3	15
277	Gradual wavelet reconstruction of the velocity increments for turbulent wakes. *Physics of Fluids*, **2015**, 27, 025104	4.4	14
276	Wind tunnel tests on controllable model wind turbines in yaw **2016**,		14
275	On universal features of the turbulent cascade in terms of non-equilibrium thermodynamics. *Journal of Fluid Mechanics*, **2018**, 848, 117-153	3.7	14
274	RECONSTRUCTION OF THE DETERMINISTIC DYNAMICS OF STOCHASTIC SYSTEMS. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2004**, 14, 2005-2010	2	14

273	Stochastic modeling of fat-tailed probabilities of foreign exchange rates. *Complexity*, **2002**, 8, 34-42	1.6	14
272	Notizen: Comparison Between a Generic Reaction- Diffusion Model and a Synergetic Semiconductor System. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **1987**, 42, 655-656	1.4	14
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264	Detecting Hidden Units and Network Size from Perceptible Dynamics. *Physical Review Letters*, **2019**, 122, 158301	7.4	12
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260	Characterizing Wake Turbulence with Staring Lidar Measurements. *Journal of Physics: Conference Series*, **2015**, 625, 012006	0.3	12
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258	Anomalous fluctuations of vertical velocity of Earth and their possible implications for earthquakes. *Physical Review E*, **2010**, 82, 036105	2.4	12
257	Markov properties in presence of measurement noise. *Physical Review E*, **2007**, 76, 041109	2.4	12
256	Nowhere Differentiable Boundaries in Differentiable Systems. A Proposed Explanation. *Europhysics Letters*, **1991**, 14, 615-620	1.6	12

255	Different Types of Current Instabilities During Low-Temperature Avalanche Breakdown of p-Germanium. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **1987**, 42, 441-443	1.4	12
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248	Power performance of wind energy converters characterized as stochastic process: applications of the Langevin power curve. *Wind Energy*, **2011**, 14, 711-717	3.4	11
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246	Different cascade speeds for longitudinal and transverse velocity increments of small-scale turbulence. *Physical Review E*, **2004**, 70, 015302	2.4	11
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244	Fatigue load estimations of intermittent wind dynamics based on a Blade Element Momentum method. *Journal of Physics: Conference Series*, **2018**, 1037, 072040	0.3	11
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224	Brief communication: On the influence of vertical wind shear on the combined power output of two model wind turbines in yaw. *Wind Energy Science*, **2017**, 2, 439-442	3.2	9
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222	Stochastic nature of series of waiting times. *Physical Review E*, **2013**, 87, 062139	2.4	8
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216	Round-robin tests of porous disc models. *Journal of Physics: Conference Series*, **2019**, 1256, 012004	0.3	7
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