

François G Schmitt

List of Publications by Year in descending order

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133
papers

3,472
citations

182225

30
h-index

190340

53
g-index

147
all docs

147
docs citations

147
times ranked

3027
citing authors

#	ARTICLE	IF	CITATIONS
1	Morphological traits, niche-environment interaction and temporal changes in diatoms. <i>Progress in Oceanography</i> , 2022, 201, 102747.	1.5	10
2	Copepod swimming activity and turbulence intensity: study in the Agiturb turbulence generator system. <i>European Physical Journal Plus</i> , 2022, 137, 1.	1.2	1
3	Reactive scalars in incompressible turbulence with strongly out of equilibrium chemistry. <i>Journal of Fluid Mechanics</i> , 2022, 938, .	1.4	0
4	An algorithm for the direct estimation of the parameters of the SIR epidemic model from the I(t) dynamics. <i>European Physical Journal Plus</i> , 2022, 137, 57.	1.2	3
5	Description of turbulent dynamics in the interstellar medium: multifractal-microcanonical analysis. <i>Astronomy and Astrophysics</i> , 2021, 649, A33.	2.1	7
6	Impact of the Nocturnal Low-Level Jet and Orographic Waves on Turbulent Motions and Energy Fluxes in the Lower Atmospheric Boundary Layer. <i>Boundary-Layer Meteorology</i> , 2021, 180, 527-542.	1.2	7
7	The Effects of Tidal Translation on Wave and Current Dynamics on a Barred Macrotidal Beach, Northern France. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 909.	1.2	2
8	Scaling Analysis of the China France Oceanography Satellite Along-track Wind and Wave Data. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC017119.	1.0	3
9	Scaling properties of the turbidity and streamflow time series at two different locations of an intra-Apennine stream: Case study. <i>Journal of Hydrology</i> , 2021, 603, 126943.	2.3	1
10	A quadratic Reynolds stress development for the turbulent Kolmogorov flow. <i>Physics of Fluids</i> , 2021, 33, .	1.6	2
11	Impact of turbulence on power production by a free-stream tidal turbine in real sea conditions. <i>Renewable Energy</i> , 2020, 147, 1932-1940.	4.3	29
12	Benefits of machine learning and sampling frequency on phytoplankton bloom forecasts in coastal areas. <i>Ecological Informatics</i> , 2020, 60, 101174.	2.3	14
13	Impact of Sea Breeze Dynamics on Atmospheric Pollutants and Their Toxicity in Industrial and Urban Coastal Environments. <i>Remote Sensing</i> , 2020, 12, 648.	1.8	20
14	Phytoplankton distribution from Western to Central English Channel, revealed by automated flow cytometry during the summer-fall transition. <i>Continental Shelf Research</i> , 2020, 195, 104056.	0.9	5
15	Fluctuations and correlations of reactive scalars near chemical equilibrium in incompressible turbulence. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	1
16	Climate Change and Risk Perceptions in Two French Coastal Communities. <i>Journal of Coastal Research</i> , 2020, 95, 875.	0.1	4
17	Small-Scale Prediction of Wind Energy in a Scale Invariant Framework. <i>Springer Proceedings in Physics</i> , 2019, , 297-303.	0.1	0
18	Nonlinear dynamics of the sea level time series in the eastern English Channel. <i>Natural Hazards</i> , 2018, 91, 267-285.	1.6	9

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19	Propelled microprobes in turbulence. <i>Physical Review Fluids</i> , 2018, 3, .	1.0	9
20	Investigation of Turbulence Behaviour in the Stable Boundary Layer Using Arbitrary-Order Hilbert Spectra. <i>Boundary-Layer Meteorology</i> , 2017, 163, 311-326.	1.2	22
21	Turbulence analysis and multiscale correlations between synchronized flow velocity and marine turbine power production. <i>Renewable Energy</i> , 2017, 112, 314-327.	4.3	32
22	Turbulence from 1870 to 1920: The birth of a noun and of a concept. <i>Comptes Rendus - Mecanique</i> , 2017, 345, 620-626.	2.1	5
23	Rapid light curves (RLC) or non-sequential steady-state light curves (N-SSLC): which fluorescence-based light response curve methodology robustly characterizes phytoplankton photosynthetic activity and acclimation status?. <i>Marine Biology</i> , 2017, 164, 1.	0.7	12
24	Extremal-point density of scaling processes: From fractional Brownian motion to turbulence in one dimension. <i>Physical Review E</i> , 2017, 96, 012215.	0.8	2
25	Copepods encounter rates from a model of escape jump behaviour in turbulence. <i>Journal of Plankton Research</i> , 2017, 39, 878-890.	0.8	11
26	$\frac{5}{3}$ Kolmogorov Turbulent Behaviour and Intermittent Sustainable Energies. , 2016, , .		1
27	Lagrangian model of copepod dynamics: Clustering by escape jumps in turbulence. <i>Physical Review E</i> , 2016, 93, 043117.	0.8	9
28	Multifractal anisotropic swimming: the optimal foraging behaviour of grouper larvae. <i>Journal of Fish Biology</i> , 2016, 88, 1835-1846.	0.7	0
29	Correlation between long-term marine temperature time series from the eastern and western English Channel: Scaling analysis using empirical mode decomposition. <i>Comptes Rendus - Geoscience</i> , 2016, 348, 343-349.	0.4	15
30	The Analyses of Turbulence Characteristics in the Atmospheric Surface Layer Using Arbitrary-Order Hilbert Spectra. <i>Boundary-Layer Meteorology</i> , 2016, 159, 391-406.	1.2	16
31	Study of Local Correlations of the Simultaneous wind Speed-irradiance Measurements Using the Time Dependent Intrinsic Correlation Method. <i>Journal of Applied Nonlinear Dynamics</i> , 2016, 5, 373-390.	0.1	6
32	Analysis and simulations of multifractal random walks. , 2015, , .		1
33	Taylor Law in Wind Energy Data. <i>Resources</i> , 2015, 4, 787-795.	1.6	6
34	Scaling Analysis of Ocean Surface Turbulent Heterogeneities from Satellite Remote Sensing: Use of 2D Structure Functions. <i>PLoS ONE</i> , 2015, 10, e0126975.	1.1	11
35	Intermittent particle dynamics in marine coastal waters. <i>Nonlinear Processes in Geophysics</i> , 2015, 22, 633-643.	0.6	3
36	Characterization of intermittency in zooplankton behaviour in turbulence. <i>European Physical Journal E</i> , 2015, 38, 108.	0.7	10

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37	Multiscale Analysis of Wind Velocity, Power Output and Rotation of a Windmill. Energy Procedia, 2015, 76, 193-199.	1.8	12
38	Long-term high frequency phytoplankton dynamics, recorded from a coastal water autonomous measurement system in the eastern English Channel. Continental Shelf Research, 2015, 109, 210-221.	0.9	10
39	Phytoplankton photosynthetic activity dynamics in a temperate macrotidal ecosystem (the Strait of Tj ETQq1 1 0.784314 rgBT /Over Marine Systems, 2015, 147, 61-75.	0.9	6
40	Multiscale and joint multiscale description of the atmospheric wind speed and the aggregate power output from a wind farm. Nonlinear Processes in Geophysics, 2014, 21, 379-392.	0.6	55
41	Continuous multifractal models with zero values: a continuous η -multifractal model. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P02008.	0.9	7
42	Pseudodiaptomus marinus Sato, 1913, a new invasive copepod in Lake Faro (Sicily): observations on the swimming behaviour and the sex-dependent responses to food. Zoological Studies, 2014, 53, .	0.3	24
43	Time dependent intrinsic correlation analysis of temperature and dissolved oxygen time series using empirical mode decomposition. Journal of Marine Systems, 2014, 130, 90-100.	0.9	79
44	High frequency variability of particle size distribution and its dependency on turbulence over the sea bottom during re-suspension processes. Continental Shelf Research, 2014, 77, 51-60.	0.9	21
45	Two-scale correlation and energy cascade in three-dimensional turbulent flows. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P05002.	0.9	2
46	Lagrangian cascade in three-dimensional homogeneous and isotropic turbulence. Journal of Fluid Mechanics, 2014, 741, .	1.4	8
47	The Scaling Properties of the Turbulent Wind Using Empirical Mode Decomposition and Arbitrary Order Hilbert Spectral Analysis. Research Topics in Wind Energy, 2014, , 43-49.	0.2	3
48	Short-term variability and control of phytoplankton photosynthetic activity in a macrotidal ecosystem (the Strait of Dover, eastern English Channel). Marine Biology, 2013, 160, 1661-1679.	0.7	7
49	Differences in feeding activity between females and males of <i>Temora longicornis</i> . Ecological Research, 2013, 28, 459-467.	0.7	6
50	Intermittency study of high frequency global solar radiation sequences under a tropical climate. Solar Energy, 2013, 98, 349-365.	2.9	38
51	Multifractal description of wind power fluctuations using arbitrary order Hilbert spectral analysis. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 4106-4120.	1.2	47
52	Spatio-temporal variability of phytoplankton photosynthetic activity in a macrotidal ecosystem (the Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.9	12
53	Variability of turbulent quantities in the tidal bottom boundary layer: Case study in the eastern English Channel. Continental Shelf Research, 2013, 58, 21-31.	0.9	24
54	Fluctuations of satellite-derived chlorophyll concentrations and optical indices at the Southern Yellow Sea. Aquatic Ecosystem Health and Management, 2012, 15, 168-175.	0.3	7

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55	Spectral fluorometric characterization of Haptophyte dynamics using the FluoroProbe: an application in the eastern English Channel for monitoring <i>Phaeocystis globosa</i> . <i>Journal of Plankton Research</i> , 2012, 34, 136-151.	0.8	34
56	Modeling of atmospheric wind speed sequence using a lognormal continuous stochastic equation. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2012, 109, 1-8.	1.7	66
57	Effect of temperature on <i>Temora longicornis</i> swimming behaviour: illustration of seasonal effects in a temperate ecosystem. <i>Aquatic Biology</i> , 2012, 16, 149-162.	0.5	24
58	Statistical analysis of polychaete population density: dynamics of dominant species and scaling properties in relative abundance fluctuations. <i>Nonlinear Processes in Geophysics</i> , 2012, 19, 45-52.	0.6	4
59	Effect of variable winds on current structure and Reynolds stresses in a tidal flow: analysis of experimental data in the eastern English Channel. <i>Ocean Science</i> , 2012, 8, 1025-1040.	1.3	18
60	Turbulence effects on the feeding dynamics in European sea bass (<i>Dicentrarchus labrax</i>) larvae. <i>Journal of Experimental Marine Biology and Ecology</i> , 2012, 416-417, 61-67.	0.7	10
61	Changes in the swimming behavior of <i>Eurytemora affinis</i> (Copepoda, Calanoida) in response to a sub-lethal exposure to nonylphenols. <i>Aquatic Toxicology</i> , 2011, 102, 228-231.	1.9	40
62	Scaling properties of pH fluctuations in coastal waters of the English Channel: pH as a turbulent active scalar. <i>Nonlinear Processes in Geophysics</i> , 2011, 18, 829-839.	0.6	12
63	Turbulence modeling based on non-Newtonian constitutive laws. <i>Journal of Physics: Conference Series</i> , 2011, 318, 042030.	0.3	0
64	Modeling turbulent-bounded flow using non-Newtonian viscometric functions. <i>Journal of Turbulence</i> , 2011, 12, N15.	0.5	3
65	Application of Arbitrary-Order Hilbert Spectral Analysis to Passive Scalar Turbulence. <i>Journal of Physics: Conference Series</i> , 2011, 318, 042003.	0.3	3
66	Mating and mate choice in <i>Pseudodiaptomus annandalei</i> (Copepoda: Calanoida). <i>Journal of Experimental Marine Biology and Ecology</i> , 2011, 402, 1-11.	0.7	25
67	Anisotropy and shift of search behavior in Malabar grouper (<i>Epinephelus malabaricus</i>) larvae in response to prey availability. <i>Hydrobiologia</i> , 2011, 666, 215-222.	1.0	11
68	Effects of animal density, volume, and the use of 2D/3D recording on behavioral studies of copepods. <i>Hydrobiologia</i> , 2011, 666, 197-214.	1.0	26
69	Direct evidence of tidally oriented behavior of the copepod <i>Eurytemora affinis</i> in the Seine estuary. <i>Ecological Research</i> , 2011, 26, 773-780.	0.7	27
70	Mating behaviour of <i>Pseudodiaptomus annandalei</i> (Copepoda, Calanoida) at calm and hydrodynamically disturbed waters. <i>Marine Biology</i> , 2011, 158, 1085-1094.	0.7	17
71	A discrete log-normal process to sequentially generate a multifractal time series. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011, 2011, P12013.	0.9	6
72	Arbitrary-order Hilbert spectral analysis for time series possessing scaling statistics: Comparison study with detrended fluctuation analysis and wavelet leaders. <i>Physical Review E</i> , 2011, 84, 016208.	0.8	84

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73	Multifractal analysis of the dollar–yuan and euro–yuan exchange rates before and after the reform of the peg. <i>Quantitative Finance</i> , 2011, 11, 505-513.	0.9	30
74	Regional patterns of continental shelf polychaete diversity: examples for the North Sea, English Channel, Irish Sea and Outer Bristol Channel areas. <i>Italian Journal of Zoology</i> , 2011, 78, 324-332.	0.6	8
75	STATISTICAL STUDY OF BIVALVE HIGH FREQUENCY MICROCLOSING BEHAVIOR: SCALING PROPERTIES AND SHOT NOISE ANALYSIS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2011, 21, 3565-3576.	0.7	13
76	Swimming kinematics of <i>Eurytemora affinis</i> (Copepoda, Calanoida) reproductive stages and differential vulnerability to predation of larval <i>Dicentrarchus labrax</i> (Teleostei, Perciformes). <i>Journal of Plankton Research</i> , 2011, 33, 1095-1103.	0.8	29
77	Scaling of maximum probability density functions of velocity and temperature increments in turbulent systems. <i>Physics of Fluids</i> , 2011, 23, .	1.6	7
78	Predation of <i>Pseudodiaptomus annandalei</i> (Copepoda: Calanoida) by the grouper fish fry <i>Epinephelus coioides</i> under different hydrodynamic conditions. <i>Journal of Experimental Marine Biology and Ecology</i> , 2010, 393, 17-22.	0.7	34
79	Use of Lagrangian statistics for the analysis of the scale separation hypothesis in turbulent channel flow. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 3319-3327.	0.9	3
80	Differences in behavioral responses of <i>Eurytemora affinis</i> (Copepoda, Calanoida) reproductive stages to salinity variations. <i>Journal of Plankton Research</i> , 2010, 32, 805-813.	0.8	39
81	How does salinity influence the swimming speed of the estuarine calanoid copepod <i>Eurytemora affinis</i> ? Reply. <i>Journal of Plankton Research</i> , 2010, 32, 1227-1229.	0.8	12
82	The different aspects in motion of the three reproductive stages of <i>Pseudodiaptomus annandalei</i> (Copepoda, Calanoida). <i>Journal of Plankton Research</i> , 2010, 32, 423-440.	0.8	27
83	Second-order structure function in fully developed turbulence. <i>Physical Review E</i> , 2010, 82, 026319.	0.8	55
84	Use of Lagrangian Statistics for the Direct Analysis of the Turbulent Constitutive Equation. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2010, , 319-325.	0.2	0
85	Analysis of daily river flow fluctuations using empirical mode decomposition and arbitrary order Hilbert spectral analysis. <i>Journal of Hydrology</i> , 2009, 373, 103-111.	2.3	118
86	Symbolic dynamics and entropies of copepod behaviour under non-turbulent and turbulent conditions. <i>Journal of Marine Systems</i> , 2009, 77, 388-396.	0.9	14
87	Analysis of velocity fluctuations and their intermittency properties in the surf zone using empirical mode decomposition. <i>Journal of Marine Systems</i> , 2009, 77, 473-481.	0.9	46
88	An individual-based model to study the reproduction of egg bearing copepods: Application to <i>Eurytemora affinis</i> (Copepoda Calanoida) from the Seine estuary, France. <i>Ecological Modelling</i> , 2009, 220, 1073-1089.	1.2	27
89	Autocorrelation function of velocity increments time series in fully developed turbulence. <i>Europhysics Letters</i> , 2009, 86, 40010.	0.7	11
90	EMPIRICAL MODE DECOMPOSITION OF DAILY RIVER FLUCTUATIONS. , 2009, , .		0

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91	Statistical properties of turbidity, oxygen and pH fluctuations in the Seine river estuary (France). <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 6613-6623.	1.2	21
92	Nonlinear dynamics and intermittency in a long-term copepod time series. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2008, 13, 407-415.	1.7	9
93	Intermittent turbulence and copepod dynamics: Increase in encounter rates through preferential concentration. <i>Journal of Marine Systems</i> , 2008, 70, 263-272.	0.9	31
94	An amplitude-frequency study of turbulent scaling intermittency using Empirical Mode Decomposition and Hilbert Spectral Analysis. <i>Europhysics Letters</i> , 2008, 84, 40010.	0.7	123
95	Development and Environmental Conflicts in China. <i>China Perspectives</i> , 2008, 2008, 94-102.	0.4	5
96	Direct test of a nonlinear constitutive equation for simple turbulent shear flows using DNS data. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2007, 12, 1251-1264.	1.7	17
97	About Boussinesq's turbulent viscosity hypothesis: historical remarks and a direct evaluation of its validity. <i>Comptes Rendus - Mecanique</i> , 2007, 335, 617-627.	2.1	255
98	On causal stochastic equations for log-stable multiplicative cascades. <i>European Physical Journal B</i> , 2007, 58, 149-158.	0.6	11
99	Analysis of high frequency temperature time series in the Seine estuary from the Marel autonomous monitoring buoy. <i>Hydrobiologia</i> , 2007, 588, 59-68.	1.0	20
100	Analysis of Nonlinear Biophysical Time Series in Aquatic Environments: Scaling Properties and Empirical Mode Decomposition. , 2007, , 261-280.		1
101	Gusts in Intermittent Wind Turbulence and the Dynamics of their Recurrent Times. , 2007, , 73-79.		4
102	Lagrangian passive scalar intermittency in marine waters: theory and data analysis. , 2007, , 129-138.		0
103	Eulerian and Lagrangian Structure Function's Scaling Exponents in Turbulent Channel Flow. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2006, 61, 624-628.	0.7	2
104	Scaling of swimming sequences in copepod behavior: Data analysis and simulation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 364, 287-296.	1.2	30
105	Linking Eulerian and Lagrangian structure functions's scaling exponents in turbulence. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 368, 377-386.	1.2	17
106	A 5-year study of the influence of the northeast and southwest monsoons on copepod assemblages in the boundary coastal waters between the East China Sea and the Taiwan Strait. <i>Journal of Plankton Research</i> , 2006, 28, 943-958.	0.8	81
107	Experimental analysis of cumulants scaling properties in fully developed intermittent turbulence. , 2006, , .		0
108	Explicit predictability and dispersion scaling exponents in fully developed turbulence. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 342, 448-458.	0.9	14

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109	Relating Lagrangian passive scalar scaling exponents to Eulerian scaling exponents in turbulence. <i>European Physical Journal B</i> , 2005, 48, 129-137.	0.6	12
110	Describing space-time patterns in aquatic ecology using IBMs and scaling and multi-scaling approaches. <i>Nonlinear Analysis: Real World Applications</i> , 2005, 6, 705-730.	0.9	16
111	Multiscaling statistical procedures for the exploration of biophysical couplings in intermittent turbulence. Part II. Applications. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2005, 52, 1325-1343.	0.6	16
112	Multiscaling statistical procedures for the exploration of biophysical couplings in intermittent turbulence. Part I. Theory. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2005, 52, 1308-1324.	0.6	22
113	Eulerian and Lagrangian properties of biophysical intermittency in the ocean. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	20
114	Individual variability in the swimming behavior of the sub-tropical copepod <i>Oncaea venusta</i> (Copepoda: Tj ETQq0 0,0 rgBT /Overlock 10	0.9	48
115	A causal multifractal stochastic equation and its statistical properties. <i>European Physical Journal B</i> , 2003, 34, 85-98.	0.6	48
116	Direct investigation of the K-transport equation for a complex turbulent flow. <i>Journal of Turbulence</i> , 2003, 4, .	0.5	5
117	SCALING OF RETURN TIMES FOR A HIGH-RESOLUTION RAINFALL TIME SERIES. <i>Fractals</i> , 2002, 10, 285-290.	1.8	12
118	Turbulence intermittency, small-scale phytoplankton patchiness and encounter rates in plankton: where do we go from here?. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2001, 48, 1199-1215.	0.6	58
119	LDV Measurements of the Flow Field in the Nozzle Region of a Confined Double Annular Burner. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2001, 123, 228-236.	0.8	8
120	Multifractal random walk in copepod behavior. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 301, 375-396.	1.2	87
121	Experimental Study of the Constitutive Equation for an Axisymmetric Complex Turbulent Flow. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2000, 80, 815-825.	0.9	13
122	MULTIFRACTAL FLUCTUATIONS IN FINANCE. <i>International Journal of Theoretical and Applied Finance</i> , 2000, 03, 361-364.	0.2	55
123	Universal multifractal analysis as a tool to characterize multiscale intermittent patterns: example of phytoplankton distribution in turbulent coastal waters. <i>Journal of Plankton Research</i> , 1999, 21, 877-822.	0.8	136
124	Copepod diffusion within multifractal phytoplankton fields. <i>Journal of Marine Systems</i> , 1998, 16, 69-83.	0.9	21
125	Multifractal analysis of phytoplankton biomass and temperature in the ocean. <i>Geophysical Research Letters</i> , 1996, 23, 3591-3594.	1.5	73
126	Multifractal intermittency of Eulerian and Lagrangian turbulence of ocean temperature and plankton fields. <i>Nonlinear Processes in Geophysics</i> , 1996, 3, 236-246.	0.6	60

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127	Multifractal temperature and flux of temperature variance in fully developed turbulence. Europhysics Letters, 1996, 34, 195-200.	0.7	65
128	Scaling invariance of crack surfaces. Journal of Geophysical Research, 1995, 100, 5953-5973.	3.3	222
129	Multifractal analysis of the Greenland Ice Core Project climate data. Geophysical Research Letters, 1995, 22, 1689-1692.	1.5	79
130	Multifractal phase transitions: the origin of self-organized criticality in earthquakes. Nonlinear Processes in Geophysics, 1994, 1, 191-197.	0.6	22
131	Empirical study of multifractal phase transitions in atmospheric turbulence. Nonlinear Processes in Geophysics, 1994, 1, 95-104.	0.6	49
132	ESTIMATION OF UNIVERSAL FOR ATMOSPHERIC TURBULENT MULTIFRACTAL INDICES VELOCITY FIELDS. Fractals, 1993, 01, 568-575.	1.8	28
133	Empirical determination of universal multifractal exponents in turbulent velocity fields. Physical Review Letters, 1992, 68, 305-308.	2.9	81