Shaun Lovejoy

List of Publications by Year
in descending order

207	10,192	57681 46	54771 88
papers	citations	h-index	g-index

252	252	252	4809
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The fractional energy balance equation for climate projections throughÂ2100. Earth System Dynamics, 2022, 13, 81-107.	2.7	7
2	Fractional relaxation noises, motions and the fractional energy balance equation. Nonlinear Processes in Geophysics, 2022, 29, 93-121.	0.6	4
3	Life rather than climate influences diversity at scales greater than 40â€‰million years. Nature, 2022, 607, 307-312.	13.7	10
4	An observation-based scaling model for climate sensitivity estimates and global projections to 2100. Climate Dynamics, 2021, 56, 1105-1129.	1.7	18
5	The fractional energy balance equation. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 1964-1988.	1.0	12
6	Using regional scaling for temperature forecasts with the Stochastic Seasonal to Interannual Prediction System (StocSIPS). Climate Dynamics, 2021, 57, 727-756.	1.7	11
7	Longâ€Range Forecasting as a Past Value Problem: Untangling Correlations and Causality With Scaling. Geophysical Research Letters, 2021, 48, e2020GL092147.	1.5	13
8	The half-order energy balance equation â€“ Part 1: The homogeneous HEBE and long memories. Earth System Dynamics, 2021, 12, 469-487.	2.7	9
9	The half-order energy balance equation â€“ PartÂ2: The inhomogeneous HEBE and 2D energy balance models. Earth System Dynamics, 2021, 12, 489-511.	2.7	6
10	CloudSat Cloud Length, Thickness Distributions Again Confirm the 23/9 (2.55 D) Scaling, Stratified, Turbulence Model. , 2021, , .		0
11	AnÃ¡lise de flutuaÃ§Ãµes na precipitaÃ§Ã£o no macrotempo. Ribagua, 2019, 6, 101-110.	0.3	0
12	Topography of (exo)planets. Monthly Notices of the Royal Astronomical Society, 2019, 484, 787-793.	1.6	7
13	Predicting the global temperature with the Stochastic Seasonal to Interannual Prediction System (StocSIPS). Climate Dynamics, 2019, 53, 4373-4411.	1.7	15
14	Spiky fluctuations and scaling in high-resolution EPICA ice core dust fluxes. Climate of the Past, 2019, 15, 1999-2017.	1.3	7
15	Multifractal topography of several planetary bodies in the solar system. Icarus, 2019, 319, 14-20.	1.1	13
16	Weather, Macroweather, and the Climate. , 2019, , .		27
17	The biology of consciousness from the bottom up. Adaptive Behavior, 2018, 26, 91-109.	1.1	2
18	Regional Climate Sensitivityâ€•and Historicalâ€Based Projections to 2100. Geophysical Research Letters, 2018, 45, 4248-4254.	1.5	16

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19	Spectra, intermittency, and extremes of weather, macroweather and climate. Scientific Reports, 2018, 8, 12697.	1.6	23
20	Harnessing Butterflies: Theory and Practice of the Stochastic Seasonal to Interannual Prediction System (StocSIPS). , 2018, , 305-355.		12
21	How accurately do we know the temperature of the surface of the earth?. Climate Dynamics, 2017, 49, 4089-4106.	1.7	7
22	How scaling fluctuation analysis transforms our view of the climate. Past Global Change Magazine, 2017, 25, 136-137.	0.4	5
23	Mars' atmosphere: The sister planet, our statistical twin. Journal of Geophysical Research D: Atmospheres, 2016, 121, 11,968.	1.2	11
24	Giant natural fluctuation models and anthropogenic warming. Geophysical Research Letters, 2016, 43, 8670-8676.	1.5	2
25	Scaling regimes and linear/nonlinear responses of last millennium climate to volcanic and solar forcings. Earth System Dynamics, 2016, 7, 133-150.	2.7	40
26	3. Scaling Geocomplexity and Remote Sensing. , 2016, , 41-94.		0
27	Macroweather precipitation variability up to global and centennial scales. Water Resources Research, 2015, 51, 9490-9513.	1.7	13
28	On the scaling of the solar incident flux. Atmospheric Chemistry and Physics, 2015, 15, 7301-7306.	1.9	23
29	Using scaling for macroweather forecasting including the pause. Geophysical Research Letters, 2015, 42, 7148-7155.	1.5	16
30	Universal multifractal Martian topography. Nonlinear Processes in Geophysics, 2015, 22, 713-722.	0.6	12
31	A voyage through scales, a missing quadrillion and why the climate is not what you expect. Climate Dynamics, 2015, 44, 3187-3210.	1.7	76
32	The joint space-time statistics of macroweather precipitation, space-time statistical factorization and macroweather models. Chaos, 2015, 25, 075410.	1.0	16
33	Impacts of small scale rainfall variability in urban areas: a case study with 1D and 1D/2D hydrological models in a multifractal framework. Urban Water Journal, 2015, 12, 607-617.	1.0	33
34	Climate Closure. Eos, 2015, 96, .	0.1	11
35	The ScaLing Macroweather Model (SLIMM): using scaling to forecast global-scale macroweather from months to decades. Earth System Dynamics, 2015, 6, 637-658.	2.7	24
36	Using palaeo-climate comparisons to constrain future projections in CMIP5. Climate of the Past, 2014, 10, 221-250.	1.3	193

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37	The horizontal spaceâ€“time scaling and cascade structure of the atmosphere and satellite radiances. Atmospheric Research, 2014, 140-141, 95-114.	1.8	14
38	Return periods of global climate fluctuations and the pause. Geophysical Research Letters, 2014, 41, 4704-4710.	1.5	39
39	Scaling fluctuation analysis and statistical hypothesis testing of anthropogenic warming. Climate Dynamics, 2014, 42, 2339-2351.	1.7	61
40	Influence of small scale rainfall variability on standard comparison tools between radar and rain gauge data. Atmospheric Research, 2014, 138, 125-138.	1.8	64
41	On Mars too expect macroweather. Geophysical Research Letters, 2014, 41, 7694-7700.	1.5	14
42	Atmospheric waves as scaling, turbulent phenomena. Atmospheric Chemistry and Physics, 2014, 14, 3195-3210.	1.9	8
43	Torque Fluctuations In The Framework Of A Multifractal 23/9-Dimensional Turbulence Model. Journal of Physics: Conference Series, 2014, 555, 012038.	0.3	3
44	Multifractal Statistical Methods and Space-Time Scaling Laws for Turbulent Winds. Research Topics in Wind Energy, 2014, , 51-57.	0.2	0
45	Multifractal analysis of a semi-distributed urban hydrological model. Urban Water Journal, 2013, 10, 195-208.	1.0	18
46	Multifractal behaviour of longâ€term karstic discharge fluctuations. Hydrological Processes, 2013, 27, 3708-3717.	1.1	6
47	Do GCMs predict the climate ... or macroweather?. Earth System Dynamics, 2013, 4, 439-454.	2.7	35
48	Development and analysis of a simple model to represent the zero rainfall in a universal multifractal framework. Nonlinear Processes in Geophysics, 2013, 20, 343-356.	0.6	35
49	What Is Climate?. Eos, 2013, 94, 1-2.	0.1	50
50	Complexity and Extreme Events in Geosciences: An Overview. Geophysical Monograph Series, 2012, , 1-16.	0.1	9
51	Quasi-geostrophic turbulence and generalized scale invariance, a theoretical reply. Atmospheric Chemistry and Physics, 2012, 12, 327-336.	1.9	26
52	Joint horizontalâ€vertical anisotropic scaling, isobaric and isoheight wind statistics from aircraft data. Geophysical Research Letters, 2012, 39, .	1.5	15
53	Stochastic and scaling climate sensitivities: Solar, volcanic and orbital forcings. Geophysical Research Letters, 2012, 39, .	1.5	22
54	The global spaceâ€“time cascade structure of precipitation: Satellites, gridded gauges and reanalyses. Advances in Water Resources, 2012, 45, 37-50.	1.7	22

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55	Influence of the zero-rainfall on the assessment of the multifractal parameters. Advances in Water Resources, 2012, 45, 13-25.	1.7	29
56	Low-Frequency Weather and the Emergence of the Climate. Geophysical Monograph Series, 2012, , 231-254.	0.1	45
57	Haar wavelets, fluctuations and structure functions: convenient choices for geophysics. Nonlinear Processes in Geophysics, 2012, 19, 513-527.	0.6	65
58	The temporal cascade structure of reanalyses and global circulation models. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 1895-1913.	1.0	10
59	Assessing the high frequency quality of long rainfall series. Journal of Hydrology, 2012, 438-439, 39-51.	2.3	10
60	Vertical scaling of temperature, wind and humidity fluctuations: dropsondes from 13 km to the surface of the Pacific Ocean. International Journal of Remote Sensing, 2011, 32, 5891-5918.	1.3	13
61	Analyses multifractales et spatio-temporelles des prÃ©cipitations du modÃ¨le MÃ©so-NH et des donnÃ©es radar. Hydrological Sciences Journal, 2011, 56, 380-396.	1.2	25
62	Space-time cascades and the scaling of ECMWF reanalyses: Fluxes and fields. Journal of Geophysical Research, 2011, 116, .	3.3	23
63	Scaling Of Turbulence In The Atmospheric Surface-Layer: Which Anisotropy?. Journal of Physics: Conference Series, 2011, 318, 072008.	0.3	5
64	MULTIFRACTALS, GENERALIZED SCALE INVARIANCE AND COMPLEXITY IN GEOPHYSICS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 3417-3456.	0.7	81
65	On the simulation of continuous in scale universal multifractals, part I: Spatially continuous processes. Computers and Geosciences, 2010, 36, 1393-1403.	2.0	41
66	On the simulation of continuous in scale universal multifractals, Part II: Spaceâ€“time processes and finite size corrections. Computers and Geosciences, 2010, 36, 1404-1413.	2.0	27
67	No monsters, no miracles: in nonlinear sciences hydrology is not an outlier!. Hydrological Sciences Journal, 2010, 55, 965-979.	1.2	37
68	Horizontal cascade structure of atmospheric fields determined from aircraft data. Journal of Geophysical Research, 2010, 115, .	3.3	30
69	Towards a new synthesis for atmospheric dynamics: Spaceâ€“time cascades. Atmospheric Research, 2010, 96, 1-52.	1.8	91
70	The stochastic multiplicative cascade structure of deterministic numerical models of the atmosphere. Nonlinear Processes in Geophysics, 2009, 16, 607-621.	0.6	29
71	Scattering in thick multifractal clouds, Part II: Multiple scattering. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 3711-3727.	1.2	11
72	Scattering in thick multifractal clouds, Part I: Overview and single scattering. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 3695-3710.	1.2	12

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73	Nonlinear Geophysics: Why We Need It. Eos, 2009, 90, 455-456.	0.1	20
74	Reply to comment by Igor Esau on â€œDo stable atmospheric layers exist?â€• Geophysical Research Letters, 2009, 36, .	1.5	0
75	Atmospheric complexity or scale by scale simplicity?. Geophysical Research Letters, 2009, 36, .	1.5	33
76	Vertical cascade structure of the atmosphere and multifractal dropsonde outages. Journal of Geophysical Research, 2009, 114, .	3.3	20
77	Reinterpreting aircraft measurements in anisotropic scaling turbulence. Atmospheric Chemistry and Physics, 2009, 9, 5007-5025.	1.9	49
78	Anisotropic Scaling Models of Rock Density andÂtheÂEarthâ€™s Surface Gravity Field. Mathematical Geosciences, 2008, 40, 533-573.	1.4	5
79	Scaling turbulent atmospheric stratification. I: Turbulence and waves. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 277-300.	1.0	30
80	Scaling turbulent atmospheric stratification. II: Spatial stratification and intermittency from lidar data. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 301-315.	1.0	21
81	Scaling turbulent atmospheric stratification. III: Spaceâ€“time stratification of passive scalars from lidar data. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 317-335.	1.0	28
82	Do stable atmospheric layers exist?. Geophysical Research Letters, 2008, 35, .	1.5	29
83	The remarkable wide range spatial scaling of TRMM precipitation. Atmospheric Research, 2008, 90, 10-32.	1.8	72
84	Multifractal analysis of the evolution of simulated precipitation over France in a climate scenario. Comptes Rendus - Geoscience, 2008, 340, 431-440.	0.4	46
85	Turbulence, raindrops and thel^{1/2}number density law. New Journal of Physics, 2008, 10, 075017.	1.2	21
86	Singleâ€•and Multiscale Remote Sensing Techniques, Multifractals, and MODISâ€Đerived Vegetation and Soil Moisture. Vadose Zone Journal, 2008, 7, 533-546.	1.3	23
87	Anisotropic Scaling Models of Rock Density and the Earthâ€™s Surface Gravity Field. , 2008, , 151-193.		2
88	Is isotropic turbulence relevant in the atmosphere?. Geophysical Research Letters, 2007, 34, .	1.5	55
89	Scaling and multifractal fields in the solid earth and topography. Nonlinear Processes in Geophysics, 2007, 14, 465-502.	0.6	117
90	Anisotropic scaling of remotely sensed drainage basins: the differential anisotropy scaling technique. Nonlinear Processes in Geophysics, 2007, 14, 337-350.	0.6	3

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91	Percolating magmas in three dimensions. Nonlinear Processes in Geophysics, 2007, 14, 743-755.	0.6	2
92	The elliptical dimension of space-time atmospheric stratification of passive admixtures using lidar data. Physica A: Statistical Mechanics and Its Applications, 2007, 382, 597-615.	1.2	11
93	Scale, Scaling and Multifractals in Geophysics: Twenty Years on. , 2007, , 311-337.		35
94	MÃ©thodes multifractales appliquÃ©es Ã la prÃ©vision de pluie en utilisant des donnÃ©es radar. Houille Blanche, 2007, 93, 92-98.	0.3	12
95	Scaling Turbulent Atmospheric Stratification: A Turbulence/Wave Wind Model. , 2007, , 135-138.		0
96	Wind Extremes and Scales: Multifractal Insights and Empirical Evidence. , 2007, , 99-104.		3
97	Multifractals, cloud radiances and rain. Journal of Hydrology, 2006, 322, 59-88.	2.3	100
98	Multifractal large number of drops limit in rain. Journal of Hydrology, 2006, 328, 20-37.	2.3	32
99	Multifractal earth topography. Nonlinear Processes in Geophysics, 2006, 13, 541-570.	0.6	116
100	PREDETERMINATION OF FLOODS. , 2006, , 185-198.		5
101	ExtrÃªmes et multifractals en hydrologieÂ: rÃ©sultats, validations et perspectives. Houille Blanche, 2006, 92, 112-119.	0.3	7
102	Scaling vesicle distributions and volcanic eruptions. Bulletin of Volcanology, 2005, 67, 350-357.	1.1	36
103	23/9 dimensional anisotropic scaling of passive admixtures using lidar data of aerosols. Physical Review E, 2004, 70, 036307.	0.8	44
104	Fractal aircraft trajectories and nonclassical turbulent exponents. Physical Review E, 2004, 70, 036306.	0.8	31
105	Spaceâ€“time complexity and multifractal predictability. Physica A: Statistical Mechanics and Its Applications, 2004, 338, 173-186.	1.2	23
106	Bubble distributions and dynamics: The expansion-coalescence equation. Journal of Geophysical Research, 2004, 109, .	3.3	61
107	Uncertainty and predictability in geophysics: Chaos and multifractal insights. Geophysical Monograph Series, 2004, , 317-334.	0.1	25
108	Percolating magmas and explosive volcanism. Geophysical Research Letters, 2003, 30, .	1.5	27

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109	Resolution dependence of infrared imagery of active thermal features at Kilauea Volcano. International Journal of Remote Sensing, 2003, 24, 2323-2344.	1.3	14
110	Large particle number limit in rain. Physical Review E, 2003, 68, 025301.	0.8	15
111	Multifractal surfaces and terrestrial topography. Europhysics Letters, 2003, 62, 801-807.	0.7	26
112	THE MULTIFRACTAL SCALING OF CLOUD RADIANCES FROM 1M TO 1KM. Fractals, 2002, 10, 253-264.	1.8	37
113	DISCUSSION of â€œEvidence of chaos in the rainfall-runoff processâ€•Which chaos in the rainfall-runoff process?. Hydrological Sciences Journal, 2002, 47, 139-148.	1.2	65
114	MULTIFRACTAL CHARACTERIZATION OF REMOTELY SENSED VOLCANIC FEATURES: A CASE STUDY FROM KILAUEA VOLCANO, HAWAII. Fractals, 2002, 10, 265-274.	1.8	13
115	Un point de vue multifractal sur l'Ã©volution climatique. Houille Blanche, 2002, 88, 31-33.	0.3	1
116	Fractional Fokkerâ€“Planck equation for nonlinear stochastic differential equations driven by non-Gaussian LÃ©vy stable noises. Journal of Mathematical Physics, 2001, 42, 200-212.	0.5	159
117	The HYDROP experiment: an empirical method for the determination of the continuum limit in rain. Atmospheric Research, 2001, 59-60, 163-197.	1.8	14
118	Multifractals and resolution-independent remote sensing algorithms: The example of ocean colour. International Journal of Remote Sensing, 2001, 22, 1191-1234.	1.3	47
119	Multifractal Analysis of Line-Source Plume Concentration Fluctuations in Surface-Layer Flows. Journal of Applied Meteorology and Climatology, 2001, 40, 229-245.	1.7	21
120	Multifractal objective analysis: conditioning and interpolation. Stochastic Environmental Research and Risk Assessment, 2001, 15, 261-283.	1.9	17
121	Stratified multifractal magnetization and surface geomagnetic fields-I. Spectral analysis and modelling. Geophysical Journal International, 2001, 145, 112-126.	1.0	33
122	Stratified multifractal magnetization and surface geomagnetic fields-II. Multifractal analysis and simulations. Geophysical Journal International, 2001, 145, 127-144.	1.0	31
123	Universal multifractals and ocean patchiness: phytoplankton, physical fields and coastal heterogeneity. Journal of Plankton Research, 2001, 23, 117-141.	0.8	77
124	Direct Evidence of Multifractal Atmospheric Cascades from Planetary Scales down to 1 km. Physical Review Letters, 2001, 86, 5200-5203.	2.9	80
125	Multifractal absolute galactic luminosity distributions and the multifractal Hubble 3/2 law. Physica A: Statistical Mechanics and Its Applications, 2000, 287, 49-82.	1.2	4
126	MULTIFRACTAL FLUCTUATIONS IN FINANCE. International Journal of Theoretical and Applied Finance, 2000, 03, 361-364.	0.2	55

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127	The scale invariant generator technique for quantifying anisotropic scale invariance. Computers and Geosciences, 1999, 25, 963-978.	2.0	28
128	Multifractal analysis of foreign exchange data. Applied Stochastic Models and Data Analysis, 1999, 15, 29-53.	0.6	139
129	Multifractal analysis of foreign exchange data. , 1999, 15, 29.		2
130	Multifractal analysis of foreign exchange data. , 1999, 15, 29.		3
131	Copepod diffusion within multifractal phytoplankton fields. Journal of Marine Systems, 1998, 16, 69-83.	0.9	21
132	Multifractal analysis of daily river flows including extremes for basins of five to two million square kilometres, one day to 75 years. Journal of Hydrology, 1998, 208, 62-81.	2.3	170
133	Diffusion in one-dimensional multifractal porous media. Water Resources Research, 1998, 34, 3283-3291.	1.7	22
134	Multifractal Cascade Dynamics and Turbulent Intermittency. Fractals, 1997, 05, 427-471.	1.8	235
135	Universal Multifractals Do Exist!: Comments on â€œA Statistical Analysis of Mesoscale Rainfall as a Random Cascadeâ€• Journal of Applied Meteorology and Climatology, 1997, 36, 1296-1303.	1.7	113
136	Radiative Transfer in Multifractal Atmospheres: Fractional Integration, Multifractal Phase Transitions and Inversion Problems. The IMA Volumes in Mathematics and Its Applications, 1997, , 239-267.	0.5	3
137	The Morphology and Texture of Anisotropic Multifractals Using Generalized Scale Invariance. The IMA Volumes in Mathematics and Its Applications, 1997, , 269-311.	0.5	4
138	Multifractal analysis of phytoplankton biomass and temperature in the ocean. Geophysical Research Letters, 1996, 23, 3591-3594.	1.5	73
139	A scaling growth model for bubbles in basaltic lava flows. Earth and Planetary Science Letters, 1996, 139, 395-409.	1.8	76
140	Multifractal analysis and modeling of rainfall and river flows and scaling, causal transfer functions. Journal of Geophysical Research, 1996, 101, 26427-26440.	3.3	263
141	Causal space-time multifractal processes: Predictability and forecasting of rain fields. Journal of Geophysical Research, 1996, 101, 26333-26346.	3.3	137
142	Scalar multifractal radar observer's problem. Journal of Geophysical Research, 1996, 101, 26479-26491.	3.3	17
143	Multifractal intermittency of Eulerian and Lagrangian turbulence of ocean temperature and plankton fields. Nonlinear Processes in Geophysics, 1996, 3, 236-246.	0.6	60
144	Universal multifractal scaling of synthetic aperture radar images of sea-ice. IEEE Transactions on Geoscience and Remote Sensing, 1996, 34, 906-914.	2.7	21

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145	Scaling effects on vesicle shape, size and heterogeneity of lavas from Mount Etna. Journal of Volcanology and Geothermal Research, 1996, 74, 131-153.	0.8	65
146	Multifractal processes and self-organized criticality in the large-scale structure of the universe. Physica A: Statistical Mechanics and Its Applications, 1996, 225, 294-311.	1.2	13
147	Multifractal temperature and flux of temperature variance in fully developed turbulence. Europhysics Letters, 1996, 34, 195-200.	0.7	65
148	FROM SCALAR CASCADES TO LIE CASCADES: JOINT MULTIFRACTAL ANALYSIS OF RAIN AND CLOUD PROCESSES. , 1995, , 153-174.		21
149	Multifractals and rain. , 1995, , 61-103.		100
150	The <i>l</i>^{1/2} law and multifractal topography: theory and analysis. Nonlinear Processes in Geophysics, 1995, 2, 16-22.	0.6	23
151	Multifractal analysis of the Greenland Iceâ€Core Project climate data. Geophysical Research Letters, 1995, 22, 1689-1692.	1.5	79
152	Structures in turbulence and multifractal universality. , 1995, , 137-144.		6
153	Unified multifractal atmospheric dynamics tested in the tropics: part I, horizontal scaling and self criticality. Nonlinear Processes in Geophysics, 1994, 1, 105-114.	0.6	38
154	Unified multifractal atmospheric dynamics tested in the tropics: part II, vertical scaling and generalized scale invariance. Nonlinear Processes in Geophysics, 1994, 1, 115-123.	0.6	42
155	Mulifractal phase transitions: the origin of self-organized criticality in earthquakes. Nonlinear Processes in Geophysics, 1994, 1, 191-197.	0.6	22
156	EGS Richardson AGU Chapman NVAG3 Conference: Nonlinear Variability in Geophysics: scaling and multifractal processes. Nonlinear Processes in Geophysics, 1994, 1, 77-79.	0.6	12
157	Empirical study of multifractal phase transitions in atmospheric turbulence. Nonlinear Processes in Geophysics, 1994, 1, 95-104.	0.6	49
158	Multifractal objective analysis of seveso ground pollution. Toxicological and Environmental Chemistry, 1994, 43, 63-76.	0.6	8
159	UNIVERSAL MULTIFRACTALS IN SEISMICITY. Fractals, 1994, 02, 445-449.	1.8	8
160	Universal multifractal approach to intermittency in high energy physics. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1994, 61, 229-237.	1.5	10
161	Multifractal Analysis and Simulation of the Global Meteorological Network. Journal of Applied Meteorology and Climatology, 1994, 33, 1572-1586.	1.7	24
162	Universal multifractal indices for the ocean surface at far red wavelengths. Geophysical Research Letters, 1993, 20, 1167-1170.	1.5	18

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164	Universal Multifractals: Theory and Observations for Rain and Clouds. Journal of Applied Meteorology and Climatology, 1993, 32, 223-250.	1.7	329
165	ESTIMATION OF UNIVERSAL FOR ATMOSPHERIC TURBULENT MULTIFRACTAL INDICES VELOCITY FIELDS. Fractals, 1993, 01, 568-575.	1.8	28
166	Differential Rotation and Cloud Texture: Analysis Using Generalized Scale Invariance. Journals of the Atmospheric Sciences, 1993, 50, 538-554.	0.6	23
167	UNIVERSAL MULTIFRACTAL CHARACTERIZATION AND SIMULATION OF SPEECH. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1992, 02, 715-719.	0.7	0
168	Empirical determination of universal multifractal exponents in turbulent velocity fields. Physical Review Letters, 1992, 68, 305-308.	2.9	81
169	Scale invariance of basaltic lava flows and their fractal dimensions. Geophysical Research Letters, 1992, 19, 785-788.	1.5	22
170	Generalized scale invariance and differential rotation in cloud radiances. Physica A: Statistical Mechanics and Its Applications, 1992, 185, 121-128.	1.2	7
171	Hard and soft multifractal processes. Physica A: Statistical Mechanics and Its Applications, 1992, 185, 187-194.	1.2	106
172	On the Determination of Universal Multifractal Parameters in Turbulence. , 1992, , 463-478.		22
173	<title>Discrete-angle radiative transfer in a multifractal medium</title>. , 1991, 1558, 37.		6
174	<title>Universal multifractal theory and observations of land and ocean surfaces, and of clouds</title>. , 1991, , .		2
175	Continuous Multiplicative Cascade Models of Rain and Clouds. , 1991, , 185-207.		33
176	Extreme Variability of Climatological Data: Scaling and Intermittency. , 1991, , 241-250.		34
177	Radiative Transfer in Multifractal Clouds. , 1991, , 303-318.		8
178	Nonlinear Geodynamical Variability: Multiple Singularities, Universality and Observables. , 1991, , 41-82.		55
179	On the Determination of the Codimension Function. , 1991, , 99-109.		40
180	Multifractal Analysis Techniques and the Rain and Cloud Fields from 10â^'3 to 106m. , 1991, , 111-144.		43

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181	Fractals, Raindrops and Resolution Dependence of Rain Measurements. Journal of Applied Meteorology and Climatology, 1990, 29, 1167-1170.	1.7	57
182	Multifractals, universality classes and satellite and radar measurements of cloud and rain fields. Journal of Geophysical Research, 1990, 95, 2021-2034.	3.3	220
183	Discrete angle radiative transfer: 1. Scaling and similarity, universality and diffusion. Journal of Geophysical Research, 1990, 95, 11699-11715.	3.3	24
184	Discrete angle radiative transfer: 2. Renormalization approach for homogeneous and fractal clouds. Journal of Geophysical Research, 1990, 95, 11717-11728.	3.3	27
185	Discrete angle radiative transfer: 3. Numerical results and meteorological applications. Journal of Geophysical Research, 1990, 95, 11729-11742.	3.3	49
186	Generalised scale invariance and multiplicative processes in the atmosphere. Pure and Applied Geophysics, 1989, 130, 57-81.	0.8	32
187	Comment on â€œAre rain rate processes selfâ€similar?â€•by B. Kedem and L. S. Chiu. Water Resources Research, 1989, 25, 577-579.	1.7	10
188	Nonlinear Variability in Geophysics: Multifractal Simulations and Analysis. , 1989, , 49-79.		52
189	Multifractal analysis of resolution dependence in satellite imagery. Geophysical Research Letters, 1988, 15, 1373-1376.	1.5	36
190	Multifractal simulations and analysis of clouds by multiplicative processes. Atmospheric Research, 1988, 21, 337-361.	1.8	38
191	Functional Box-Counting and Multiple Elliptical Dimensions in Rain. Science, 1987, 235, 1036-1038.	6.0	188
192	Physical modeling and analysis of rain and clouds by anisotropic scaling multiplicative processes. Journal of Geophysical Research, 1987, 92, 9693-9714.	3.3	942
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