Hans Joachim Schellnhuber

List of Publications by Year
in descending order

173 papers	35,119 citations	22132 59 h-index	4770 169 g-index
180 all docs	180 docs citations	180 times ranked	30901 citing authors

#	Article	IF	Citations
1	A safe operating space for humanity. Nature, 2009, 461, 472-475.	13.7	8,638
2	Planetary Boundaries: Exploring the Safe Operating Space for Humanity. Ecology and Society, 2009, 14, .	1.0	3,867
3	Tipping elements in the Earth's climate system. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1786-1793.	3.3	2,599
4	ENVIRONMENT AND DEVELOPMENT: Sustainability Science. Science, 2001, 292, 641-642.	6.0	2,169
5	Trajectories of the Earth System in the Anthropocene. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8252-8259.	3.3	1,832
6	The Anthropocene: From Global Change to Planetary Stewardship. Ambio, 2011, 40, 739-761.	2.8	1,175
7	Climate tipping points â€" too risky to bet against. Nature, 2019, 575, 592-595.	13.7	1,162
8	A roadmap for rapid decarbonization. Science, 2017, 355, 1269-1271.	6.0	815
9	One-Dimensional SchrÃ¶dinger Equation with an Almost Periodic Potential. Physical Review Letters, 1983, 50, 1873-1876.	2.9	651
10	Indication of a Universal Persistence Law Governing Atmospheric Variability. Physical Review Letters, 1998, 81, 729-732.	2.9	599
11	Earth System Science for Global Sustainability: Grand Challenges. Science, 2010, 330, 916-917.	6.0	465
12	Near-real-time monitoring of global CO2 emissions reveals the effects of the COVID-19 pandemic. Nature Communications, 2020, 11, 5172.	5.8	420
13	Buildings as a global carbon sink. Nature Sustainability, 2020, 3, 269-276.	11.5	419
14	Social tipping dynamics for stabilizing Earthâ€™s climate by 2050. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 2354-2365.	3.3	394
15	â€˜Earth systemâ€™ analysis and the second Copernican revolution. Nature, 1999, 402, C19-C23.	13.7	386
16	How dead ends undermine power grid stability. Nature Communications, 2014, 5, 3969.	5.8	318
17	Why the right climate target was agreed in Paris. Nature Climate Change, 2016, 6, 649-653.	8.1	309
18	Feeding ten billion people is possible within four terrestrial planetary boundaries. Nature Sustainability, 2020, 3, 200-208.	11.5	306

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19	Quasiresonant amplification of planetary waves and recent Northern Hemisphere weather extremes. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5336-5341.	3.3	305
20	Three years to safeguard our climate. Nature, 2017, 546, 593-595.	13.7	305
21	City-level climate change mitigation in China. Science Advances, 2018, 4, eaaq0390.	4.7	287
22	Armed-conflict risks enhanced by climate-related disasters in ethnically fractionalized countries. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9216-9221.	3.3	280
23	Imprecise probability assessment of tipping points in the climate system. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5041-5046.	3.3	263
24	Evidence for a bimodal distribution in human communication. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18803-18808.	3.3	219
25	Impacts of climate change on future air quality and human health in China. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 17193-17200.	3.3	219
26	Quasi-resonant circulation regimes and hemispheric synchronization of extreme weather in boreal summer. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12331-12336.	3.3	218
27	The emergence and evolution of Earth System Science. Nature Reviews Earth & Environment, 2020, 1, 54-63.	12.2	213
28	Nonlinear detection of paleoclimate-variability transitions possibly related to human evolution. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20422-20427.	3.3	208
29	Power-law persistence and trends in the atmosphere: A detailed study of long temperature records. Physical Review E, 2003, 68, 046133.	0.8	204
30	Critical insolationâ€“CO2 relation for diagnosing past and future glacial inception. Nature, 2016, 529, 200-203.	13.7	185
31	Oceanic acidification affects marine carbon pump and triggers extended marine oxygen holes. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3017-3022.	3.3	162
32	Stratigraphic and Earth System approaches to defining the Anthropocene. Earth's Future, 2016, 4, 324-345.	2.4	162
33	Very early warning of next El NiÃ±o. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2064-2066.	3.3	158
34	Multisectoral climate impact hotspots in a warming world. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3233-3238.	3.3	149
35	Climate Change and the Integrity of Science. Science, 2010, 328, 689-690.	6.0	143
36	Efficient box-counting determination of generalized fractal dimensions. Physical Review A, 1990, 42, 1869-1874.	1.0	142

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37	Improved El NiÃ±o forecasting by cooperativity detection. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11742-11745.	3.3	136
38	The Tolerable Windows Approach: Theoretical and Methodological Foundations. Climatic Change, 1999, 41, 303-331.	1.7	125
39	Disentangling the effects of CO ₂ and short-lived climate forcer mitigation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16325-16330.	3.3	114
40	Global Climate Models Violate Scaling of the Observed Atmospheric Variability. Physical Review Letters, 2002, 89, 028501.	2.9	112
41	Urbanised territories as a specific component of the Global Carbon Cycle. Ecological Modelling, 2004, 173, 295-312.	1.2	97
42	The limits to globalâ€warming mitigation by terrestrial carbon removal. Earth's Future, 2017, 5, 463-474.	2.4	92
43	Is the Indian summer monsoon stable against global change?. Geophysical Research Letters, 2005, 32, .	1.5	88
44	Tipping elements in the Earth System. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20561-20563.	3.3	87
45	Floods in the IPCC TAR Perspective. Natural Hazards, 2004, 31, 111-128.	1.6	86
46	Climate change decision-support and the tolerable windows approach. Environmental Modeling and Assessment, 1999, 4, 217-234.	1.2	80
47	System crash as dynamics of complex networks. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11726-11731.	3.3	80
48	Title is missing!. Environmental Modeling and Assessment, 1999, 4, 295-314.	1.2	79
49	Global warming: Stop worrying, start panicking?. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 14239-14240.	3.3	79
50	Statistical physics approaches to the complex Earth system. Physics Reports, 2021, 896, 1-84.	10.3	79
51	Network analysis reveals strongly localized impacts of El NiÃ±o. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7543-7548.	3.3	76
52	Chaosâ€“order transition in foraging behavior of ants. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8392-8397.	3.3	74
53	Differences in flood hazard projections in Europe â€“ their causes and consequences for decision making. Hydrological Sciences Journal, 0, , .	1.2	74
54	Role of quasiresonant planetary wave dynamics in recent boreal spring-to-autumn extreme events. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6862-6867.	3.3	73

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55	Energy systems transformation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E549-58.	3.3	70
56	The world's biggest gamble. Earth's Future, 2016, 4, 465-470.	2.4	70
57	A multi-model analysis of risk of ecosystem shifts under climate change. Environmental Research Letters, 2013, 8, 044018.	2.2	69
58	Communicating sentiment and outlook reverses inaction against collective risks. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17650-17655.	3.3	68
59	Long-term response of oceans to CO2 removal from the atmosphere. Nature Climate Change, 2015, 5, 1107-1113.	8.1	67
60	Physical and virtual carbon metabolism of global cities. Nature Communications, 2020, 11, 182.	5.8	62
61	Ocean acidification: a millennial challenge. Energy and Environmental Science, 2010, 3, 1883.	15.6	59
62	Long-term persistence enhances uncertainty about anthropogenic warming of Antarctica. Climate Dynamics, 2016, 46, 263-271.	1.7	59
63	All options, not silver bullets, needed to limit global warming to 1.5 Â°C: a scenario appraisal. Environmental Research Letters, 2021, 16, 064037.	2.2	58
64	Long-range power-law correlations in local daily temperature fluctuations. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 1331-1340.	0.6	56
65	Climbing the co-evolution ladder. Nature, 2004, 431, 913-913.	13.7	56
66	Habitable zone for Earth-like planets in the solar system. Planetary and Space Science, 2000, 48, 1099-1105.	0.9	53
67	Asynchronous exposure to global warming: freshwater resources and terrestrial ecosystems. Environmental Research Letters, 2013, 8, 034032.	2.2	52
68	Determination of habitable zones in extrasolar planetary systems: Where are Gaia's sisters?. Journal of Geophysical Research, 2000, 105, 1651-1658.	3.3	50
69	Long term persistence in the atmosphere: global laws and tests of climate models. Physica A: Statistical Mechanics and Its Applications, 2001, 302, 255-267.	1.2	48
70	Urban expansion and its contribution to the regional carbon emissions: Using the model based on the population density distribution. Ecological Modelling, 2008, 216, 208-216.	1.2	48
71	The elephant, the blind, and the intersectoral intercomparison of climate impacts: Fig. 1.. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3225-3227.	3.3	48
72	Closing the loop: Reconnecting human dynamics to Earth System science. Infrastructure Asset Management, 2017, 4, 151-157.	1.2	48

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73	First-Principles Calculation of Diamagnetic Band Structure. Physical Review Letters, 1980, 45, 276-279.	2.9	47
74	Global patterns of daily CO2 emissions reductions in the first year of COVID-19. Nature Geoscience, 2022, 15, 615-620.	5.4	46
75	Analysis of rainfall records: possible relation to self-organized criticality. Physica A: Statistical Mechanics and Its Applications, 1998, 254, 557-568.	1.2	44
76	Earth System Analysis for Sustainability. Environment, 2005, 47, 10-25.	0.8	44
77	Development and illustrative outputs of the Community Integrated Assessment System (CIAS), a multi-institutional modular integrated assessment approach for modelling climate change. Environmental Modelling and Software, 2008, 23, 592-610.	1.9	44
78	Long-range correlations and trends in global climate models: Comparison with real data. Physica A: Statistical Mechanics and Its Applications, 2001, 294, 239-248.	1.2	41
79	Declining ocean chlorophyll under unabated anthropogenic CO ₂ emissions. Environmental Research Letters, 2011, 6, 034035.	2.2	41
80	Geocybernetics: Controlling a Complex Dynamical System Under Uncertainty. Die Naturwissenschaften, 1998, 85, 411-425.	0.6	40
81	Smallholder agriculture in Northeast Brazil: assessing heterogeneous human-environmental dynamics. Regional Environmental Change, 2006, 6, 132-146.	1.4	40
82	Geoengineering: The good, the MAD, and the sensible. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20277-20278.	3.3	40
83	Climate impacts and adaptation options in agriculture: what we know and what we donâ€™t know. Journal Fur Verbraucherschutz Und Lebensmittelsicherheit, 2009, 4, 145-150.	0.5	39
84	A framework for the cross-sectoral integration of multi-model impact projections: land use decisions under climate impacts uncertainties. Earth System Dynamics, 2015, 6, 447-460.	2.7	38
85	The budget approach: A framework for a global transformation toward a low-carbon economy. Journal of Renewable and Sustainable Energy, 2010, 2, .	0.8	37
86	Complexity-based approach for El NiÃ±o magnitude forecasting before the spring predictability barrier. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 177-183.	3.3	37
87	First-principles calculation of diamagnetic band structure. I. Reduction to a one-dimensional SchrÃ¶dinger equation. Physical Review B, 1981, 23, 5185-5190.	1.1	35
88	Reduction of biosphere life span as a consequence of geodynamics. Tellus, Series B: Chemical and Physical Meteorology, 2022, 52, 94.	0.8	33
89	Limits of photosynthesis in extrasolar planetary systems for earth-like planets. Advances in Space Research, 2001, 28, 695-700.	1.2	33
90	Comment on â€œScaling of Atmosphere and Ocean Temperature Correlations in Observations and Climate Modelsâ€• Physical Review Letters, 2004, 92, 039801; author reply 039802.	2.9	33

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91	Cascade of Metal-Insulator Transitions for Electrons in the Frenkel-Kontorova Chain. Physical Review Letters, 1985, 54, 588-590.	2.9	31
92	Tipping the scales. Nature Climate Change, 2007, 1, 97-98.	8.1	31
93	Optimisation of reduction of global CO2 emission based on a simple model of the carbon cycle. Environmental Modeling and Assessment, 1999, 4, 23-33.	1.2	30
94	Reduction of biosphere life span as a consequence of geodynamics. Tellus, Series B: Chemical and Physical Meteorology, 2000, 52, 94-107.	0.8	30
95	Fuzzy logic based global assessment of the marginality of agricultural land use. Climate Research, 1997, 8, 135-150.	0.4	30
96	First-principles calculation of diamagnetic band structure. II. Spectrum and wave functions. Physical Review B, 1981, 23, 5191-5202.	1.1	29
97	Direct graphite furnace atomic absorption spectrometric determination of metals in sea water: application of palladium modifiers and a fractal approach to their analytical support. Analytica Chimica Acta, 1993, 279, 241-251.	2.6	29
98	Self-stabilization of the biosphere under global change: a tutorial geophysiological approach. Tellus, Series B: Chemical and Physical Meteorology, 1997, 49, 249-262.	0.8	29
99	Tragic triumph. Climatic Change, 2010, 100, 229-238.	1.7	29
100	Climate impact research: beyond patchwork. Earth System Dynamics, 2014, 5, 399-408.	2.7	29
101	Multifractal characterization of microbially induced magnesian calcite formation in Recent tidal flat sediments. Sedimentary Geology, 1997, 109, 37-51.	1.0	28
102	Modelling carbon dynamics from urban land conversion: fundamental model of city in relation to a local carbon cycle. Carbon Balance and Management, 2006, 1, 8.	1.4	28
103	Semiquantitative Assessment of Regional Climate Vulnerability: The North-Rhine Westphalia Study. Climatic Change, 2006, 76, 265-290.	1.7	26
104	Climate network percolation reveals the expansion and weakening of the tropical component under global warming. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E12128-E12134.	3.3	26
105	Multifractal analysis of the microdistribution of elements in sedimentary structures using images from scanning electron microscopy and energy dispersive X ray spectrometry. Journal of Geophysical Research, 1991, 96, 16223-16230.	3.3	25
106	Aggregation by attractive particle-cluster interaction. Journal of Physics A, 1991, 24, L1037-L1044.	1.6	25
107	Self-stabilization of the biosphere under global change: a tutorial geophysiological approach. Tellus, Series B: Chemical and Physical Meteorology, 2022, 49, 249.	0.8	25
108	Planetary habitability: is Earth commonplace in the Milky Way?. Die Naturwissenschaften, 2001, 88, 416-426.	0.6	25

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109	Statistical significance of seasonal warming/cooling trends. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2998-E3003.	3.3	24
110	Network-based forecasting of climate phenomena. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	24
111	Calculation of â€˜â€˜Cantoriâ€™â€™. Physical Review A, 1986, 33, 2856-2858.	1.0	23
112	Exact Treatment of Quantum States on a Fractal. Europhysics Letters, 1989, 10, 73-78.	0.7	23
113	Decomposing the effects of ocean warming on chlorophyll <i>a</i> concentrations into physically and biologically driven contributions. Environmental Research Letters, 2013, 8, 014043.	2.2	23
114	Climate Change as a Security Risk. , 0, , .		22
115	Socio-economic data for global environmental change research. Nature Climate Change, 2015, 5, 503-506.	8.1	20
116	Geophysiology of mineral deposits - a model for a biological driving force of global changes through Earth history. Terra Nova, 1992, 4, 351-362.	0.9	19
117	Electronic states on a fractal: Inverse-iteration method. Physical Review B, 1994, 49, 14711-14714.	1.1	19
118	Strong time dependence of ocean acidification mitigation by atmospheric carbon dioxide removal. Nature Communications, 2019, 10, 5592.	5.8	19
119	Corona and the climate: a comparison of two emergencies. Global Sustainability, 2020, 3, .	1.6	19
120	Climate change: The necessary, the possible and the desirable Earth League climate statement on the implications for climate policy from the 5th <scp>IPCC</scp> Assessment. Earth's Future, 2014, 2, 606-611.	2.4	18
121	Alberta wildfire 2016: Apt contribution from anomalous planetary wave dynamics. Scientific Reports, 2018, 8, 12375.	1.6	18
122	Analyticity breaking of wave functions and fractal phase diagram for simple incommensurate systems. Physica Status Solidi (B): Basic Research, 1987, 140, 509-519.	0.7	17
123	Introduction. Climate change and urban areas: research dialogue in a policy framework. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 2615-2629.	1.6	17
124	Sternâ€™s Review and Adamâ€™s fallacy. Climatic Change, 2008, 89, 207-218.	1.7	17
125	Maximum number of habitable planets at the time of Earth's origin: new hints for panspermia?. Origins of Life and Evolution of Biospheres, 2003, 33, 219-231.	0.8	16
126	Turn down the heat: regional climate change impacts on development. Regional Environmental Change, 2017, 17, 1563-1568.	1.4	16

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127	Lack of scaling in global climate models. Journal of Physics Condensed Matter, 2002, 14, 2275-2282.	0.7	15
128	Abrupt monsoon transitions as seen in paleorecords can be explained by moisture-advection feedback. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2348-9.	3.3	15
129	Will the world run out of land? A Kaya-type decomposition to study past trends of cropland expansion. Environmental Research Letters, 2014, 9, 024011.	2.2	14
130	Biogenic Enhancement of Weathering and the Stability of the Ecosphere. Geomicrobiology Journal, 2003, 20, 501-511.	1.0	13
131	Electronic states on a fractal: Exact Greenâ€™s-function renormalization approach. Physical Review B, 1991, 44, 13213-13227.	1.1	12
132	Tutorial Modelling of geosphereâ€“biosphere interactions: the effect of percolation-type habitat fragmentation. Physica A: Statistical Mechanics and Its Applications, 1999, 266, 186-196.	1.2	12
133	The Challenge of a 4Â°C World by 2100. Hexagon Series on Human and Environmental Security and Peace, 2016, , 267-283.	0.2	12
134	Setting the tree-ring record straight. Climate Dynamics, 2020, 55, 3017-3024.	1.7	12
135	Simple extension of the Frenkel-Kontorova model: a different world. European Physical Journal B, 1990, 80, 305-312.	0.6	11
136	Fractional differentiation of devil's staircases. Physica A: Statistical Mechanics and Its Applications, 1992, 191, 491-500.	1.2	11
137	Technological Change for Atmospheric Stabilization: Introductory overview to the Innovation Modeling Comparison Project. Energy Journal, 2006, 27, 1-16.	0.9	11
138	Crystal electrons in magnetic fields: General reduction of the dimensionality and properties of the wave functions. Physical Review B, 1982, 25, 2358-2370.	1.1	10
139	Analytic evaluation of the multifractal properties of a Newtonian Julia set. Physical Review Letters, 1989, 62, 1807-1810.	2.9	10
140	Exactly solvable model for cantorus phase transitions. Physical Review Letters, 1990, 65, 2551-2554.	2.9	10
141	Reply to Screen and Simmonds: From means to mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2328.	3.3	10
142	â€œEmission gameâ€• some applications of the theory of games to the problem of CO2 emission. Environmental Modeling and Assessment, 1999, 4, 235-242.	1.2	9
143	Medical ethics in the Anthropocene: how are â,¬100 billion of German physicians' pension funds invested?. Lancet Planetary Health, The, 2019, 3, e405-e406.	5.1	8
144	Reply to Smith et al.: Social tipping dynamics in a world constrained by conflicting interests. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10631-10632.	3.3	8

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145	<i>Exploring Options for</i>Global Climate Policy.<i>A New Analytical Framework</i>. Environment, 2002, 44, 22-34.	0.8	7
146	Obermair and Schellnhuber Respond:. Physical Review Letters, 1982, 48, 1227-1227.	2.9	6
147	Analytical study of Cantori: Gap structure, initial conditions, and dimensions. Physical Review A, 1988, 38, 5888-5901.	1.0	6
148	Electronic states on a fractal: The consequences of self-energy variation. Physical Review B, 1997, 55, 12956-12962.	1.1	6
149	Climate change: complexity in action. Physics World, 2004, 17, 31-35.	0.0	6
150	Balancing Health, Economy and Climate Risk in a Multi-Crisis. Energies, 2021, 14, 4067.	1.6	6
151	Comment on â€œGlobal Climate Models Violate Scaling of the Observed Atmospheric Variabilityâ€. Physical Review Letters, 2004, 92, 159803; author reply 159804.	2.9	5
152	Confidence Intervals for Flood Return Level Estimates Assuming Long-Range Dependence. , 2011, , 60-88.		5
153	Exact ground state of the Frenkel-Kontorova model with repeated parabolic potential. I. Basic results. Physical Review B, 1997, 56, 8623-8630.	1.1	4
154	Fairness and physics â€“ observing first principles in global climate policy. Global Change, Peace and Security, 2011, 23, 427-433.	0.8	4
155	Growth-zone scaling properties and fjord structure of aggregates grown by particle-cluster interaction. Physica A: Statistical Mechanics and Its Applications, 1992, 191, 108-112.	1.2	3
156	Climate impact on social systems: the risk assessment approach. Environmental Modeling and Assessment, 1999, 4, 287-294.	1.2	3
157	Vjushinet al.ÂReply:. Physical Review Letters, 2004, 92, .	2.9	3
158	Kyoto: no time to rearrange deckchairs on the Titanic. Nature, 2007, 450, 346-346.	13.7	3
159	Critical insolation-CO2 relation for diagnosing past and future glacial inception. Nature, 2016, 534, S19-S20.	13.7	3
160	Diamagnetic Band Structure Comparison of Secondâ€Order Perturbation with a Firstâ€Principles Calculation. Physica Status Solidi (B): Basic Research, 1981, 106, 537-544.	0.7	2
161	Crystal electrons in magnetic fields: Second-order perturbation for general periodic potentials. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1982, 1, 155-168.	0.4	2
162	Exact ground state of the Frenkel-Kontorova model with repeated parabolic potential. II. Numerical treatment. Physical Review B, 1997, 56, 8631-8637.	1.1	2

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163	Earth system analysis and management. Environmental Modeling and Assessment, 1999, 4, 201-207.	1.2	2
164	Forced versus coupled dynamics in Earth system modelling and prediction. Nonlinear Processes in Geophysics, 2005, 12, 311-320.	0.6	2
165	Reply to Schuiling: Last things last. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, .	3.3	2
166	How to determine the statistical significance of trends in seasonal records: application to Antarctic temperatures. Climate Dynamics, 0, , 1.	1.7	2
167	Convergence to the steady state for the reaction-diffusion kinetics of irradiation-produced defects. Physics Letters, Section A: General, Atomic and Solid State Physics, 1986, 116, 115-118.	0.9	1
168	Analytic fractal dimension of cantori. Physical Review Letters, 1987, 58, 1046-1046.	2.9	1
169	A safe operating space for humanity. , 0, .		1
170	Chaotic quantum motion in a space-time periodic potential: an exactly solvable model. Physica D: Nonlinear Phenomena, 1995, 82, 371-381.	1.3	0
171	The Earth System and Climate Science: Understanding a Very Complex Entity. , 2019, , 35-41.		0
172	Modeling carbon emissions from urban land conversion: gamma distribution model. , 2008, , .		0
173	Climate Change, Public Health, Social Peace. , 2020, , 225-238.		0