

Hans Joachim Schellnhuber

List of Publications by Citations

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169
papers

25,258
citations

55
h-index

158
g-index

180
ext. papers

29,982
ext. citations

9.9
avg, IF

6.78
L-index

#	Paper	IF	Citations
169	A safe operating space for humanity. <i>Nature</i> , 2009 , 461, 472-5	50.4	6399
168	Planetary Boundaries: Exploring the Safe Operating Space for Humanity. <i>Ecology and Society</i> , 2009 , 14,	4.1	2588
167	Tipping elements in the Earth's climate system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 1786-93	11.5	1960
166	Environment and development. Sustainability science. <i>Science</i> , 2001 , 292, 641-2	33.3	1836
165	Trajectories of the Earth System in the Anthropocene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 8252-8259	11.5	1184
164	The anthropocene: from global change to planetary stewardship. <i>Ambio</i> , 2011 , 40, 739-61	6.5	892
163	One-Dimensional Schrödinger Equation with an Almost Periodic Potential. <i>Physical Review Letters</i> , 1983 , 50, 1873-1876	7.4	594
162	A roadmap for rapid decarbonization. <i>Science</i> , 2017 , 355, 1269-1271	33.3	586
161	Indication of a Universal Persistence Law Governing Atmospheric Variability. <i>Physical Review Letters</i> , 1998 , 81, 729-732	7.4	524
160	Climate tipping points - too risky to bet against. <i>Nature</i> , 2019 , 575, 592-595	50.4	521
159	Environment and development. Earth system science for global sustainability: grand challenges. <i>Science</i> , 2010 , 330, 916-7	33.3	382
158	Earth system analysis and the second Copernican revolution. <i>Nature</i> , 1999 , 402, C19-C23	50.4	310
157	How dead ends undermine power grid stability. <i>Nature Communications</i> , 2014 , 5, 3969	17.4	252
156	Quasiresonant amplification of planetary waves and recent Northern Hemisphere weather extremes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 5336-41	11.5	239
155	Three years to safeguard our climate. <i>Nature</i> , 2017 , 546, 593-595	50.4	232
154	Armed-conflict risks enhanced by climate-related disasters in ethnically fractionalized countries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 9216-21	11.5	211
153	Imprecise probability assessment of tipping points in the climate system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 5041-6	11.5	208

152	Near-real-time monitoring of global CO emissions reveals the effects of the COVID-19 pandemic. <i>Nature Communications</i> , 2020 , 11, 5172	17.4	204
151	Evidence for a bimodal distribution in human communication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 18803-8	11.5	190
150	Social tipping dynamics for stabilizing Earth's climate by 2050. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 2354-2365	11.5	175
149	Nonlinear detection of paleoclimate-variability transitions possibly related to human evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 20422-7	11.5	173
148	Power-law persistence and trends in the atmosphere: a detailed study of long temperature records. <i>Physical Review E</i> , 2003 , 68, 046133	2.4	171
147	Quasi-resonant circulation regimes and hemispheric synchronization of extreme weather in boreal summer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 12331-6	11.5	170
146	City-level climate change mitigation in China. <i>Science Advances</i> , 2018 , 4, eaaq0390	14.3	168
145	Buildings as a global carbon sink. <i>Nature Sustainability</i> , 2020 , 3, 269-276	22.1	151
144	Feeding ten billion people is possible within four terrestrial planetary boundaries. <i>Nature Sustainability</i> , 2020 , 3, 200-208	22.1	140
143	Oceanic acidification affects marine carbon pump and triggers extended marine oxygen holes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 3017-22	11.5	133
142	Very early warning of next El Niño. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 2064-6	11.5	132
141	Critical insolation-CO ₂ relation for diagnosing past and future glacial inception. <i>Nature</i> , 2016 , 529, 200-350.4	35.4	126
140	Efficient box-counting determination of generalized fractal dimensions. <i>Physical Review A</i> , 1990 , 42, 1869-1874	2.6	126
139	Multisectoral climate impact hotspots in a warming world. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 3233-8	11.5	120
138	Climate change and the integrity of science. <i>Science</i> , 2010 , 328, 689-90	33.3	116
137	Improved El Niño forecasting by cooperativity detection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 11742-5	11.5	108
136	Stratigraphic and Earth System approaches to defining the Anthropocene. <i>Earth's Future</i> , 2016 , 4, 324-345	34.5	106
135	The emergence and evolution of Earth System Science. <i>Nature Reviews Earth & Environment</i> , 2020 , 1, 54-63	30.2	98

134	Impacts of climate change on future air quality and human health in China. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 17193-17200	11.5	96
133	Disentangling the effects of CO2 and short-lived climate forcer mitigation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 16325-30	11.5	96
132	The Tolerable Windows Approach: Theoretical and Methodological Foundations. <i>Climatic Change</i> , 1999 , 41, 303-331	4.5	93
131	Global climate models violate scaling of the observed atmospheric variability. <i>Physical Review Letters</i> , 2002 , 89, 028501	7.4	91
130	Urbanised territories as a specific component of the Global Carbon Cycle. <i>Ecological Modelling</i> , 2004 , 173, 295-312	3	85
129	Is the Indian summer monsoon stable against global change?. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	78
128	Tipping elements in the Earth System. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 20561-3	11.5	67
127	Floods in the IPCC TAR Perspective. <i>Natural Hazards</i> , 2004 , 31, 111-128	3	67
126	The limits to global-warming mitigation by terrestrial carbon removal. <i>Earth's Future</i> , 2017 , 5, 463-474	7.9	63
125	System crash as dynamics of complex networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 11726-11731	11.5	63
124	Energy systems transformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E549-58	11.5	62
123	Climate change decision-support and the tolerable windows approach. <i>Environmental Modeling and Assessment</i> , 1999 , 4, 217-234	2	62
122	The world's biggest gamble. <i>Earth's Future</i> , 2016 , 4, 465-470	7.9	59
121	Network analysis reveals strongly localized impacts of El Niño. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 7543-7548	11.5	58
120	Global warming: stop worrying, start panicking?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 14239-40	11.5	58
119	Syndromes of Global Change: a qualitative modelling approach to assist global environmental management. <i>Environmental Modeling and Assessment</i> , 1999 , 4, 295-314	2	56
118	Differences in flood hazard projections in Europe – their causes and consequences for decision making. <i>Hydrological Sciences Journal</i> , 2016 ,	3.5	56
117	A multi-model analysis of risk of ecosystem shifts under climate change. <i>Environmental Research Letters</i> , 2013 , 8, 044018	6.2	55

116	Chaos-order transition in foraging behavior of ants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 8392-7	11.5	54
115	Role of quiresonant planetary wave dynamics in recent boreal spring-to-autumn extreme events. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 6862-7	11.5	51
114	Long-range power-law correlations in local daily temperature fluctuations. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1998 , 77, 1331-1340		50
113	Long-term persistence enhances uncertainty about anthropogenic warming of Antarctica. <i>Climate Dynamics</i> , 2016 , 46, 263-271	4.2	47
112	Long-term response of oceans to CO2 removal from the atmosphere. <i>Nature Climate Change</i> , 2015 , 5, 1107-1113	21.4	47
111	Habitable zone for Earth-like planets in the solar system. <i>Planetary and Space Science</i> , 2000 , 48, 1099-1105		47
110	Ocean acidification: a millennial challenge. <i>Energy and Environmental Science</i> , 2010 , 3, 1883	35.4	46
109	First-Principles Calculation of Diamagnetic Band Structure. <i>Physical Review Letters</i> , 1980 , 45, 276-279	7.4	46
108	Long term persistence in the atmosphere: global laws and tests of climate models. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 302, 255-267	3.3	45
107	The elephant, the blind, and the intersectoral intercomparison of climate impacts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 3225-7	11.5	43
106	Asynchronous exposure to global warming: freshwater resources and terrestrial ecosystems. <i>Environmental Research Letters</i> , 2013 , 8, 034032	6.2	43
105	Determination of habitable zones in extrasolar planetary systems: Where are Gaia's sisters?. <i>Journal of Geophysical Research</i> , 2000 , 105, 1651-1658		43
104	Analysis of rainfall records: possible relation to self-organized criticality. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998 , 254, 557-568	3.3	41
103	Development and illustrative outputs of the Community Integrated Assessment System (CIAS), a multi-institutional modular integrated assessment approach for modelling climate change. <i>Environmental Modelling and Software</i> , 2008 , 23, 592-610	5.2	38
102	Long-range correlations and trends in global climate models: Comparison with real data. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 294, 239-248	3.3	36
101	Physical and virtual carbon metabolism of global cities. <i>Nature Communications</i> , 2020 , 11, 182	17.4	35
100	Climbing the co-evolution ladder. <i>Nature</i> , 2004 , 431, 913	50.4	35
99	First-principles calculation of diamagnetic band structure. I. Reduction to a one-dimensional Schrödinger equation. <i>Physical Review B</i> , 1981 , 23, 5185-5190	3.3	35

98	Geocybernetics: Controlling a Complex Dynamical System Under Uncertainty. <i>Die Naturwissenschaften</i> , 1998 , 85, 411-425	2	34
97	Urban expansion and its contribution to the regional carbon emissions: Using the model based on the population density distribution. <i>Ecological Modelling</i> , 2008 , 216, 208-216	3	33
96	Closing the loop: Reconnecting human dynamics to Earth System science. <i>Infrastructure Asset Management</i> , 2017 , 4, 151-157	1.8	32
95	Climate impacts and adaptation options in agriculture: what we know and what we don't know. <i>Journal Fur Verbraucherschutz Und Lebensmittelsicherheit</i> , 2009 , 4, 145-150	2.3	31
94	Geoengineering: the good, the MAD, and the sensible. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 20277-8	11.5	31
93	Cascade of metal-insulator transitions for electrons in the Frenkel-Kontorova chain. <i>Physical Review Letters</i> , 1985 , 54, 588-590	7.4	31
92	Declining ocean chlorophyll under unabated anthropogenic CO ₂ emissions. <i>Environmental Research Letters</i> , 2011 , 6, 034035	6.2	30
91	Smallholder agriculture in Northeast Brazil: assessing heterogeneous human-environmental dynamics. <i>Regional Environmental Change</i> , 2006 , 6, 132-146	4.3	30
90	Comment on "Scaling of atmosphere and ocean temperature correlations in observations and climate models". <i>Physical Review Letters</i> , 2004 , 92, 039801; author reply 039802	7.4	30
89	A framework for the cross-sectoral integration of multi-model impact projections: land use decisions under climate impacts uncertainties. <i>Earth System Dynamics</i> , 2015 , 6, 447-460	4.8	29
88	First-principles calculation of diamagnetic band structure. II. Spectrum and wave functions. <i>Physical Review B</i> , 1981 , 23, 5191-5202	3.3	28
87	Statistical physics approaches to the complex Earth system. <i>Physics Reports</i> , 2021 , 896, 1-84	27.7	28
86	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1997 , 49, 249-262	3.3	27
85	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 94-107	3.3	27
84	The budget approach: A framework for a global transformation toward a low-carbon economy. <i>Journal of Renewable and Sustainable Energy</i> , 2010 , 2, 031003	2.5	26
83	Limits of photosynthesis in extrasolar planetary systems for earth-like planets. <i>Advances in Space Research</i> , 2001 , 28, 695-700	2.4	26
82	Earth System Analysis for Sustainability. <i>Environment</i> , 2005 , 47, 10-25	2.8	25
81	Climate impact research: beyond patchwork. <i>Earth System Dynamics</i> , 2014 , 5, 399-408	4.8	24

80	Optimisation of reduction of global CO ₂ emission based on a simple model of the carbon cycle. <i>Environmental Modeling and Assessment</i> , 1999 , 4, 23-33	2	24
79	Aggregation by attractive particle-cluster interaction. <i>Journal of Physics A</i> , 1991 , 24, L1037-L1044		24
78	Tragic triumph. <i>Climatic Change</i> , 2010 , 100, 229-238	4.5	23
77	Semiquantitative Assessment of Regional Climate Vulnerability: The North-Rhine Westphalia Study. <i>Climatic Change</i> , 2006 , 76, 265-290	4.5	23
76	Planetary habitability: is Earth commonplace in the Milky Way?. <i>Die Naturwissenschaften</i> , 2001 , 88, 416-26		23
75	Exact Treatment of Quantum States on a Fractal. <i>Europhysics Letters</i> , 1989 , 10, 73-78	1.6	23
74	Calculation of "Cantori". <i>Physical Review A</i> , 1986 , 33, 2856-2858	2.6	23
73	Modelling carbon dynamics from urban land conversion: fundamental model of city in relation to a local carbon cycle. <i>Carbon Balance and Management</i> , 2006 , 1, 8	3.6	22
72	Multifractal analysis of the microdistribution of elements in sedimentary structures using images from scanning electron microscopy and energy dispersive X ray spectrometry. <i>Journal of Geophysical Research</i> , 1991 , 96, 16223		21
71	Complexity-based approach for El Niño magnitude forecasting before the spring predictability barrier. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 177-183	11.5	21
70	Reduction of biosphere life span as a consequence of geodynamics. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 94-107	3.3	20
69	Fuzzy logic based global assessment of the marginality of agricultural land use. <i>Climate Research</i> , 1997 , 8, 135-150	1.6	20
68	Decomposing the effects of ocean warming on chlorophyll a concentrations into physically and biologically driven contributions. <i>Environmental Research Letters</i> , 2013 , 8, 014043	6.2	19
67	Multifractal characterization of microbially induced magnesian calcite formation in Recent tidal flat sediments. <i>Sedimentary Geology</i> , 1997 , 109, 37-51	2.8	19
66	Communicating sentiment and outlook reverses inaction against collective risks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 17650-17655	11.5	19
65	Self-stabilization of the biosphere under global change: a tutorial geophysiological approach. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1997 , 49, 249-262	3.3	18
64	Statistical significance of seasonal warming/cooling trends. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E2998-E3003	11.5	17
63	Electronic states on a fractal: Inverse-iteration method. <i>Physical Review B</i> , 1994 , 49, 14711-14714	3.3	17

62	Direct graphite furnace atomic absorption spectrometric determination of metals in sea water: application of palladium modifiers and a fractal approach to their analytical support. <i>Analytica Chimica Acta</i> , 1993 , 279, 241-251	6.6	17
61	Analyticity breaking of wave functions and fractal phase diagram for simple incommensurate systems. <i>Physica Status Solidi (B): Basic Research</i> , 1987 , 140, 509-519	1.3	17
60	Climate change: The necessary, the possible and the desirable Earth League climate statement on the implications for climate policy from the 5th IPCC Assessment. <i>Earth's Future</i> , 2014 , 2, 606-611	7.9	16
59	Introduction. Climate change and urban areas: research dialogue in a policy framework. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007 , 365, 2615-293	3	16
58	Climate network percolation reveals the expansion and weakening of the tropical component under global warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E12128-E12134	11.5	16
57	Geophysiology of mineral deposits - a model for a biological driving force of global changes through Earth history. <i>Terra Nova</i> , 1992 , 4, 351-362	3	15
56	Maximum number of habitable planets at the time of Earth's origin: new hints for panspermia?. <i>Origins of Life and Evolution of Biospheres</i> , 2003 , 33, 219-31	1.5	13
55	All options, not silver bullets, needed to limit global warming to 1.5 °C: a scenario appraisal. <i>Environmental Research Letters</i> , 2021 , 16, 064037	6.2	13
54	Abrupt monsoon transitions as seen in paleorecords can be explained by moisture-advection feedback. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E2348-9	11.5	13
53	Lack of scaling in global climate models. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 2275-2282	1.8	12
52	Biogenic Enhancement of Weathering and the Stability of the Ecosphere. <i>Geomicrobiology Journal</i> , 2003 , 20, 501-511	2.5	11
51	Electronic states on a fractal: Exact Green's-function renormalization approach. <i>Physical Review B</i> , 1991 , 44, 13213-13227	3.3	11
50	Fractional differentiation of devil's staircases. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992 , 191, 491-500	3.3	11
49	Simple extension of the Frenkel-Kontorova model: a different world. <i>European Physical Journal B</i> , 1990 , 80, 305-312	1.2	11
48	The Challenge of a 4°C World by 2100. <i>Hexagon Series on Human and Environmental Security and Peace</i> , 2016 , 267-283		10
47	Will the world run out of land? A Kaya-type decomposition to study past trends of cropland expansion. <i>Environmental Research Letters</i> , 2014 , 9, 024011	6.2	10
46	Tutorial Modelling of geosphereBiosphere interactions: the effect of percolation-type habitat fragmentation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 266, 186-196	3.3	10
45	Analytic evaluation of the multifractal properties of a Newtonian Julia set. <i>Physical Review Letters</i> , 1989 , 62, 1807-1810	7.4	10

44	Exactly solvable model for cantorus phase transitions. <i>Physical Review Letters</i> , 1990 , 65, 2551-2554	7.4	10
43	Crystal electrons in magnetic fields: General reduction of the dimensionality and properties of the wave functions. <i>Physical Review B</i> , 1982 , 25, 2358-2370	3.3	10
42	Reply to Screen and Simmonds: From means to mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E2328	11.5	9
41	Emission game—some applications of the theory of games to the problem of CO2 emission. <i>Environmental Modeling and Assessment</i> , 1999 , 4, 235-242	2	9
40	Corona and the climate: a comparison of two emergencies. <i>Global Sustainability</i> , 2020 , 3,	5.4	9
39	Strong time dependence of ocean acidification mitigation by atmospheric carbon dioxide removal. <i>Nature Communications</i> , 2019 , 10, 5592	17.4	9
38	Correction for Schellnhuber et al., Tipping elements in the Earth System. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 1254-1254	11.5	8
37	Alberta wildfire 2016: Apt contribution from anomalous planetary wave dynamics. <i>Scientific Reports</i> , 2018 , 8, 12375	4.9	7
36	Analytical study of Cantori: Gap structure, initial conditions, and dimensions. <i>Physical Review A</i> , 1988 , 38, 5888-5901	2.6	6
35	Obermair and Schellnhuber Respond:. <i>Physical Review Letters</i> , 1982 , 48, 1227-1227	7.4	6
34	Electronic states on a fractal: The consequences of self-energy variation. <i>Physical Review B</i> , 1997 , 55, 12956-12962	3.3	5
33	Exploring Options for Global Climate Policy. A New Analytical Framework. <i>Environment</i> , 2002 , 44, 22-34	2.8	5
32	Setting the tree-ring record straight. <i>Climate Dynamics</i> , 2020 , 55, 3017-3024	4.2	5
31	Medical ethics in the Anthropocene: how are €100 billion of German physicians' pension funds invested?. <i>Lancet Planetary Health</i> , 2019 , 3, e405-e406	9.8	4
30	Comment on "Global climate models violate scaling of the observed atmospheric variability". <i>Physical Review Letters</i> , 2004 , 92, 159803; author reply 159804	7.4	4
29	Technological Change for Atmospheric Stabilization: Introductory Overview to the Innovation Modeling Comparison Project. <i>Energy Journal</i> , 2006 , SI2006,	3.5	4
28	Confidence Intervals for Flood Return Level Estimates Assuming Long-Range Dependence 2011 , 60-88		4
27	Growth-zone scaling properties and fjord structure of aggregates grown by particle-cluster interaction. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992 , 191, 108-112	3.3	3

26	Network-based forecasting of climate phenomena. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3
25	Climate Change as a Security Risk		3
24	Critical insolation-CO2 relation for diagnosing past and future glacial inception. <i>Nature</i> , 2016 , 534, S19-S20.	30.4	3
23	Fairness and physics Observing first principles in global climate policy. <i>Global Change, Peace and Security</i> , 2011 , 23, 427-433	0.8	2
22	Reply to Schuiling: Last things last. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E1211-E1211	11.5	2
21	Exact ground state of the Frenkel-Kontorova model with repeated parabolic potential. II. Numerical treatment. <i>Physical Review B</i> , 1997 , 56, 8631-8637	3.3	2
20	Exact ground state of the Frenkel-Kontorova model with repeated parabolic potential. I. Basic results. <i>Physical Review B</i> , 1997 , 56, 8623-8630	3.3	2
19	Kyoto: no time to rearrange deckchairs on the Titanic. <i>Nature</i> , 2007 , 450, 346	50.4	2
18	Vjushin et al. Reply:. <i>Physical Review Letters</i> , 2004 , 92,	7.4	2
17	Forced versus coupled dynamics in Earth system modelling and prediction. <i>Nonlinear Processes in Geophysics</i> , 2005 , 12, 311-320	2.9	2
16	Climate impact on social systems: the risk assessment approach. <i>Environmental Modeling and Assessment</i> , 1999 , 4, 287-294	2	2
15	Earth system analysis and management. <i>Environmental Modeling and Assessment</i> , 1999 , 4, 201-207	2	2
14	Diamagnetic Band Structure Comparison of Second-Order Perturbation with a First-Principles Calculation. <i>Physica Status Solidi (B): Basic Research</i> , 1981 , 106, 537-544	1.3	2
13	Balancing Health, Economy and Climate Risk in a Multi-Crisis. <i>Energies</i> , 2021 , 14, 4067	3.1	2
12	Reply to Smith et al.: Social tipping dynamics in a world constrained by conflicting interests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 10631-10632	11.5	1
11	Convergence to the steady state for the reaction-diffusion kinetics of irradiation-produced defects. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1986 , 116, 115-118	2.3	1
10	Analytic fractal dimension of cantori. <i>Physical Review Letters</i> , 1987 , 58, 1046	7.4	1
9	Crystal electrons in magnetic fields: Second-order perturbation for general periodic potentials. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1982 , 1, 155-168		1

8	How to determine the statistical significance of trends in seasonal records: application to Antarctic temperatures. <i>Climate Dynamics</i> ,1	4.2	1
7	Global Economic Cost of Deaths Attributable to Ambient Air Pollution: Disproportionate Burden on the Ageing Population		1
6	A safe operating space for humanity		1
5	Prototyping Broad-Scale Climate and Ecosystem Classes by Means of Self-Organising Maps155-175		
4	Chaotic quantum motion in a space-time periodic potential: an exactly solvable model. <i>Physica D: Nonlinear Phenomena</i> , 1995 , 82, 371-381	3.3	
3	The Anthropocene: From Global Change to Planetary Stewardship (2011). <i>The Anthropocene: Politik - Economics - Society - Science</i> , 2021 , 145-174	0.3	
2	Climate Change, Public Health, Social Peace 2020 , 225-238		
1	The Earth System and Climate Science: Understanding a Very Complex Entity 2019 , 35-41		