Juergen P Kropp

List of Publications by Year in descending order

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96 papers	4,689 citations	126901 33 h-index	106340 65 g-index
107 all docs	107 docs citations	107 times ranked	5594 citing authors

#	Article	IF	Citations
1	A Systematic Study of Sustainable Development Goal (SDG) Interactions. Earth's Future, 2017, 5, 1169-1179.	6.3	894
2	Extreme events and disasters: a window of opportunity for change? Analysis of organizational, institutional and political changes, formal and informal responses after mega-disasters. Natural Hazards, 2010, 55, 637-655.	3.4	292
3	Heat and drought 2003 in Europe: a climate synthesis. Annals of Forest Science, 2006, 63, 569-577.	2.0	253
4	The role of city size and urban form in the surface urban heat island. Scientific Reports, 2017, 7, 4791.	3.3	221
5	Closing Yield Gaps: How Sustainable Can We Be?. PLoS ONE, 2015, 10, e0129487.	2.5	192
6	Effects of changing population or density on urban carbon dioxide emissions. Nature Communications, 2019, 10, 3204.	12.8	157
7	On the influence of density and morphology on the Urban Heat Island intensity. Nature Communications, 2020, 11, 2647.	12.8	148
8	Food Surplus and Its Climate Burdens. Environmental Science & Technology, 2016, 50, 4269-4277.	10.0	139
9	Heating and cooling energy demand and related emissions of the German residential building stock under climate change. Energy Policy, 2011, 39, 4795-4806.	8.8	129
10	Embodied Greenhouse Gas Emissions in Diets. PLoS ONE, 2013, 8, e62228.	2.5	103
11	City density and CO2 efficiency. Energy Policy, 2016, 91, 352-361.	8.8	82
12	Relating SDG11 indicators and urban scaling â€“ An exploratory study. Sustainable Cities and Society, 2020, 52, 101853.	10.4	78
13	Food Self-Sufficiency across Scales: How Local Can We Go?. Environmental Science & Technology, 2014, 48, 9463-9470.	10.0	75
14	Variations in sustainable development goal interactions: Population, regional, and income disaggregation. Sustainable Development, 2021, 29, 285-299.	12.5	72
15	A Human Development Framework for CO2 Reductions. PLoS ONE, 2011, 6, e29262.	2.5	69
16	Linking components of vulnerability in theoretic frameworks and case studies. Sustainability Science, 2013, 8, 1-9.	4.9	57
17	Viability analysis of management frameworks for fisheries. Environmental Modeling and Assessment, 2006, 11, 69-79.	2.2	55
18	Sustainable water management - perspectives for tourism development in north-eastern Morocco. Tourism Management Perspectives, 2015, 16, 325-334.	5.2	54

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19	Diverging forest land use dynamics induced by armed conflict across the tropics. Global Environmental Change, 2019, 56, 86-94.	7.8	54
20	Urban Food Systems: How Regionalization Can Contribute to Climate Change Mitigation. Environmental Science & Technology, 2020, 54, 10551-10560.	10.0	54
21	A systematic analysis of Water-Energy-Food security nexus: A South Asian case study. Science of the Total Environment, 2020, 728, 138451.	8.0	54
22	Integrated methodology to assess windthrow impacts on forest stands under climate change. Forest Ecology and Management, 2011, 261, 1799-1810.	3.2	52
23	Evaluation of the performance of meteorological forest fire indices for German federal states. Forest Ecology and Management, 2013, 287, 123-131.	3.2	52
24	A systems model of SDG target influence on the 2030 Agenda for Sustainable Development. Sustainability Science, 2022, 17, 1459-1472.	4.9	49
25	Hungry cities: how local food self-sufficiency relates to climate change, diets, and urbanisation. Environmental Research Letters, 2019, 14, 094007.	5.2	46
26	Damage and protection cost curves for coastal floods within the 600 largest European cities. Scientific Data, 2018, 5, 180034.	5.3	45
27	Assessing Seasonality in the Surface Urban Heat Island of London. Journal of Applied Meteorology and Climatology, 2016, 55, 493-505.	1.5	44
28	Towards sectoral and standardised vulnerability assessments: the example of heatwave impacts on human health. Climatic Change, 2012, 112, 687-708.	3.6	42
29	The COVIDâ€19 Pandemic Not Only Poses Challenges, but Also Opens Opportunities for Sustainable Transformation. Earth's Future, 2021, 9, e2021EF001996.	6.3	42
30	Geocybernetics: Controlling a Complex Dynamical System Under Uncertainty. Die Naturwissenschaften, 1998, 85, 411-425.	1.6	40
31	Embodied crop calories in animal products. Environmental Research Letters, 2013, 8, 044044.	5.2	37
32	About the influence of elevation model quality and small-scale damage functions on flood damage estimation. Natural Hazards and Earth System Sciences, 2011, 11, 3327-3334.	3.6	35
33	Distance-weighted city growth. Physical Review E, 2013, 87, 042114.	2.1	35
34	Aerial and surface rivers: downwind impacts on water availability from land use changes in Amazonia. Hydrology and Earth System Sciences, 2018, 22, 911-927.	4.9	35
35	Reducing deforestation and improving livestock productivity: greenhouse gas mitigation potential of silvopastoral systems in CaquetÃ¡. Environmental Research Letters, 2019, 14, 114007.	5.2	34
36	The Size Distribution, Scaling Properties and Spatial Organization of Urban Clusters: A Global and Regional Percolation Perspective. ISPRS International Journal of Geo-Information, 2016, 5, 110.	2.9	32

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37	The decarbonisation of Europe powered by lifestyle changes. Environmental Research Letters, 2021, 16, 044057.	5.2	32
38	Comparison of storm damage functions and their performance. Natural Hazards and Earth System Sciences, 2015, 15, 769-788.	3.6	31
39	Climate-Driven or Human-Induced: Indicating Severe Water Scarcity in the Moulouya River Basin (Morocco). Water (Switzerland), 2012, 4, 959-982.	2.7	30
40	Building a unified sustainable development goal database: Why does sustainable development goal data selection matter?. Sustainable Development, 2022, 30, 1278-1293.	12.5	30
41	Multifractal characterization of microbially induced magnesian calcite formation in Recent tidal flat sediments. Sedimentary Geology, 1997, 109, 37-51.	2.1	28
42	Adjusting agricultural emissions for trade matters for climate change mitigation. Nature Communications, 2022, 13, .	12.8	28
43	Susceptibility of the European electricity sector to climate change. Energy, 2013, 59, 183-193.	8.8	27
44	Quantifying the effect of sea level rise and flood defence â€“ aÂpoint process perspective on coastal flood damage. Natural Hazards and Earth System Sciences, 2016, 16, 559-576.	3.6	27
45	Benchmarking urban eco-efficiency and urbanites' perception. Cities, 2018, 74, 109-118.	5.6	27
46	The efficient, the intensive, and the productive: Insights from urban Kaya scaling. Applied Energy, 2019, 236, 155-162.	10.1	27
47	Semiquantitative Assessment of Regional Climate Vulnerability: The North-Rhine Westphalia Study. Climatic Change, 2006, 76, 265-290.	3.6	26
48	An integrated and transferable climate change vulnerability assessment for regional application. Natural Hazards, 2012, 64, 1977-1999.	3.4	26
49	Damage functions for climate-related hazards: unification and uncertainty analysis. Natural Hazards and Earth System Sciences, 2016, 16, 1189-1203.	3.6	26
50	Climate change mitigation potential of community-based initiatives in Europe. Regional Environmental Change, 2019, 19, 927-938.	2.9	26
51	Cities as nuclei of sustainability?. Environment and Planning B: Urban Analytics and City Science, 2017, 44, 425-440.	2.0	24
52	A neural network approach to the analysis of city systems. Applied Geography, 1998, 18, 83-96.	3.7	23
53	Applying stochastic smallâ€scale damage functions to German winter storms. Geophysical Research Letters, 2012, 39, .	4.0	23
54	Costs of sea dikes â€“ regressions and uncertainty estimates. Natural Hazards and Earth System Sciences, 2017, 17, 765-779.	3.6	22

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55	Assessment of Management Options in Marine Fisheries by Qualitative Modelling Techniques. Marine Pollution Bulletin, 2001, 43, 215-224.	5.0	18
56	Quantifying long-range correlations in complex networks beyond nearest neighbors. Europhysics Letters, 2010, 90, 28002.	2.0	18
57	How changing sea level extremes and protection measures alter coastal flood damages. Water Resources Research, 2013, 49, 1199-1210.	4.2	18
58	Sea-level rise in Indonesia: on adaptation priorities in the agricultural sector. Regional Environmental Change, 2011, 11, 893-904.	2.9	17
59	Context sensitivity of surface urban heat island at the local and regional scales. Sustainable Cities and Society, 2021, 74, 103146.	10.4	17
60	A qualitative dynamical modelling approach to capital accumulation in unregulated fisheries. Journal of Economic Dynamics and Control, 2006, 30, 2613-2636.	1.6	16
61	Interplay between Diets, Health, and Climate Change. Sustainability, 2020, 12, 3878.	3.2	16
62	Sectoral performance analysis of national greenhouse gas emission inventories by means of neural networks. Science of the Total Environment, 2019, 656, 80-89.	8.0	15
63	Association between population distribution and urban GDP scaling. PLoS ONE, 2021, 16, e0245771.	2.5	15
64	Increasing pressure, declining water and climate change in north-eastern Morocco. Journal of Coastal Conservation, 2013, 17, 379-388.	1.6	11
65	Singularity cities. Environment and Planning B: Urban Analytics and City Science, 2021, 48, 43-59.	2.0	11
66	Global Analysis and Distribution of Unbalanced Urbanization Processes: The Favela Syndrome. Gaia, 2001, 10, 109-120.	0.7	10
67	Towards a unified characterization of phenological phases: Fluctuations and correlations with temperature. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 680-688.	2.6	10
68	Feasibility of energy reduction targets under climate change: The case of the residential heating energy sector of the Netherlands. Energy, 2015, 90, 560-569.	8.8	10
69	Phenomenological pattern recognition in the dynamical structures of tidal sediments from the German Wadden Sea. Ecological Modelling, 1997, 103, 151-170.	2.5	9
70	Risiken, VulnerabilitÃt und Anpassungserfordernisse fÃ¼r klimaverletzliche Regionen. Raumforschung Und Raumordnung | Spatial Research and Planning, 2009, 67, .	2.0	9
71	Relating Climate Compatible Development and Human Livelihood. Energy Procedia, 2013, 40, 192-201.	1.8	9
72	Urban emission scaling â€" Research insights and a way forward. Environment and Planning B: Urban Analytics and City Science, 2019, 46, 1678-1683.	2.0	9

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73	Global drivers of minimum mortality temperatures in cities. Science of the Total Environment, 2019, 695, 133560.	8.0	9
74	Determining regional limits and sectoral constraints for water use. Hydrology and Earth System Sciences, 2014, 18, 4039-4052.	4.9	8
75	Climate change and potential distribution of potato (<i>Solanum tuberosum</i>) crop cultivation in Pakistan using Maxent. AIMS Agriculture and Food, 2021, 6, 663-676.	1.6	8
76	Climate Extremes are Becoming More Frequent, Co-occurring, and Persistent in Europe. Anthropocene Science, 2022, 1, 264-277.	2.9	8
77	Environmental implications and socioeconomic characterisation of Indian diets. Science of the Total Environment, 2020, 737, 139881.	8.0	7
78	Characterizing the development of sectoral gross domestic product composition. Physical Review E, 2013, 88, 012804.	2.1	6
79	Future heat adaptation and exposure among urban populations and why a prospering economy alone wonâ€™t save us. Scientific Reports, 2021, 11, 20309.	3.3	6
80	Predicting areas suitable for wheat and maize cultivation under future climate change scenarios in Pakistan. Climate Research, 2021, 83, 15-25.	1.1	5
81	Confidence Intervals for Flood Return Level Estimates Assuming Long-Range Dependence. , 2011, , 60-88.		5
82	Novel Approaches for Web-Based Access to Climate Change Adaptation Information â€“ MEDIATION Adaptation Platform and ci:grasp-2. IFIP Advances in Information and Communication Technology, 2013, , 489-499.	0.7	5
83	Investigations on the influence of pore-space geometry on concentration patterns and transportation properties of dissolved oxygen in a bioactive sandy sediment by a lattice Boltzmann automaton model. Hydrological Processes, 2001, 15, 81-96.	2.6	4
84	Climate impacts on human livelihoods: where uncertainty matters in projections of water availability. Earth System Dynamics, 2014, 5, 355-373.	7.1	4
85	Characteristic Multifractal Element Distributions in Recent Bioactive Marine Sediments. , 1994, , 369-375.		4
86	A Gini approach to spatial CO2 emissions. PLoS ONE, 2020, 15, e0242479.	2.5	4
87	Calcite formation in microbial mats: modeling and quantification of inhomogeneous distribution patterns by a cellular automaton model and multifractal measures. Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie, 1996, 85, 857-863.	1.3	3
88	Regional mapping of climate variability index and identifying socio-economic factors influencing farmerâ€™s perception in Bangladesh. Environment, Development and Sustainability, 2021, 23, 11050-11066.	5.0	3
89	Identifying climatic and non-climatic determinants of malnutrition prevalence in Bangladesh: A country-wide cross-sectional spatial analysis. Spatial and Spatio-temporal Epidemiology, 2021, 37, 100422.	1.7	3
90	Characterizing the sectoral development of cities. PLoS ONE, 2021, 16, e0254601.	2.5	3

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91	Presentation of uncertainties on web platforms for climate change information. Procedia Environmental Sciences, 2011, 7, 80-85.	1.4	2
92	Quantitative evidence for leapfrogging in urban growth. Environment and Planning B: Urban Analytics and City Science, 0, , 239980832199871.	2.0	2
93	Modeling Urban Morphology by Unifying Diffusion-Limited Aggregation and Stochastic Gravitation. Findings, 0, , .	0.0	2
94	Comment on â€˜High-income does not protect against hurricane lossesâ€™. Environmental Research Letters, 2017, 12, 098001.	5.2	1
95	Estimating investments in knowledge and planning activities for adaptation in developing countries: an empirical approach. Climate and Development, 2019, 11, 755-764.	3.9	1
96	Comparing Generic and Case Study Damage Functions: London Storm-Surge Example. Natural Hazards Review, 2020, 21, 06019003.	1.5	0