Jochen Hinkel

List of Publications by Year
in descending order

104	10,553	46918 47	33814 99
papers	citations	h-index	g-index

109	109	109	10809
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Coastal flood damage and adaptation costs under 21st century sea-level rise. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3292-3297.	3.3	878
2	â€œIndicators of vulnerability and adaptive capacityâ€: Towards a clarification of the scienceâ€“policy interface. Global Environmental Change, 2011, 21, 198-208.	3.6	790
3	Future response of global coastal wetlands to sea-level rise. Nature, 2018, 561, 231-234.	13.7	615
4	Resilience and Vulnerability: Complementary or Conflicting Concepts?. Ecology and Society, 2010, 15, .	1.0	584
5	Comparison of Frameworks for Analyzing Social-ecological Systems. Ecology and Society, 2013, 18, .	1.0	478
6	Sea-level rise and its possible impacts given a â€˜beyond 4Â°C worldâ€™ in the twenty-first century. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 161-181.	1.6	451
7	Assessing the impacts of 1.5â€ŠÂ°C global warming â€“ simulation protocol of the Inter-Sectoral Impact Model Intercomparison Project (ISIMIP2b). Geoscientific Model Development, 2017, 10, 4321-4345.	1.3	410
8	Projections of global-scale extreme sea levels and resulting episodic coastal flooding over the 21st Century. Scientific Reports, 2020, 10, 11629.	1.6	280
9	Global coastal wetland change under sea-level rise and related stresses: The DIVA Wetland Change Model. Global and Planetary Change, 2016, 139, 15-30.	1.6	256
10	Ocean Solutions to Address Climate Change and Its Effects on Marine Ecosystems. Frontiers in Marine Science, 2018, 5, .	1.2	248
11	Understanding extreme sea levels for broad-scale coastal impact and adaptation analysis. Nature Communications, 2017, 8, 16075.	5.8	233
12	A New Global Coastal Database for Impact and Vulnerability Analysis to Sea-Level Rise. Journal of Coastal Research, 2008, 244, 917-924.	0.1	221
13	Mediterranean UNESCO World Heritage at risk from coastal flooding and erosion due to sea-level rise. Nature Communications, 2018, 9, 4161.	5.8	204
14	A global analysis of erosion of sandy beaches and sea-level rise: An application of DIVA. Global and Planetary Change, 2013, 111, 150-158.	1.6	197
15	A global analysis of subsidence, relative sea-level change and coastal flood exposure. Nature Climate Change, 2021, 11, 338-342.	8.1	193
16	Integrating knowledge to assess coastal vulnerability to sea-level rise: The development of the DIVA tool. Global Environmental Change, 2009, 19, 384-395.	3.6	190
17	Gridded population projections for the coastal zone under the Shared Socioeconomic Pathways. Global and Planetary Change, 2016, 145, 57-66.	1.6	184
18	The ability of societies to adapt to twenty-first-century sea-level rise. Nature Climate Change, 2018, 8, 570-578.	8.1	160

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19	Sea-level rise scenarios and coastal risk management. Nature Climate Change, 2015, 5, 188-190.	8.1	159
20	Sea-level rise impact models and environmental conservation: A review of models and their applications. Ocean and Coastal Management, 2010, 53, 507-517.	2.0	144
21	Towards a Formal Framework of Vulnerability to Climate Change. Environmental Modeling and Assessment, 2009, 14, 1-16.	1.2	141
22	Economic motivation for raising coastal flood defenses in Europe. Nature Communications, 2020, 11, 2119.	5.8	125
23	Assessing risk of and adaptation to sea-level rise in the European Union: an application of DIVA. Mitigation and Adaptation Strategies for Global Change, 2010, 15, 703-719.	1.0	120
24	Meeting User Needs for Sea Level Rise Information: A Decision Analysis Perspective. Earth's Future, 2019, 7, 320-337.	2.4	112
25	What motivates coastal households to adapt pro-actively to sea-level rise and increasing flood risk?. Regional Environmental Change, 2013, 13, 897-909.	1.4	99
26	Assessment of vulnerability to climate change using indicators: a metaâ€analysis of the literature. Wiley Interdisciplinary Reviews: Climate Change, 2014, 5, 775-792.	3.6	99
27	Shifting perspectives on coastal impacts and adaptation. Nature Climate Change, 2014, 4, 752-755.	8.1	97
28	The use of scenarios as the basis for combined assessment of climate change mitigation and adaptation. Global Environmental Change, 2011, 21, 575-591.	3.6	91
29	A global assessment of the effects of climate policy on the impacts of climate change. Nature Climate Change, 2013, 3, 512-519.	8.1	91
30	The impacts of climate change across the globe: A multi-sectoral assessment. Climatic Change, 2016, 134, 457-474.	1.7	88
31	Application of the SES Framework for Model-based Analysis of the Dynamics of Social-Ecological Systems. Ecology and Society, 2014, 19, .	1.0	85
32	Economically robust protection against 21st century sea-level rise. Global Environmental Change, 2018, 51, 67-73.	3.6	85
33	Sea Level Change and Coastal Climate Services: The Way Forward. Journal of Marine Science and Engineering, 2017, 5, 49.	1.2	81
34	Spatial-temporal changes of coastal and marine disasters risks and impacts in Mainland China. Ocean and Coastal Management, 2017, 139, 125-140.	2.0	80
35	A comparison of two global datasets of extreme sea levels and resulting flood exposure. Earth's Future, 2017, 5, 379-392.	2.4	78
36	Governance of social dilemmas in climate change adaptation. Nature Climate Change, 2016, 6, 354-359.	8.1	77

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37	Stabilization of global temperature at 1.5Â°C and 2.0Â°C: implications for coastal areas. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20160448.	1.6	76
38	Sea-level rise impacts on Africa and the effects of mitigation and adaptation: an application of DIVA. Regional Environmental Change, 2012, 12, 207-224.	1.4	75
39	Quantifying Land and People Exposed to Seaâ€Level Rise with No Mitigation and 1.5Â°C and 2.0Â°C Rise in Global Temperatures to Year 2300. Earth's Future, 2018, 6, 583-600.	2.4	73
40	A diagnostic procedure for applying the social-ecological systems framework in diverse cases. Ecology and Society, 2015, 20, .	1.0	72
41	Clarifying vulnerability definitions and assessments using formalisation. International Journal of Climate Change Strategies and Management, 2013, 5, 54-70.	1.5	71
42	Climate clubs and the macro-economic benefits of international cooperation on climate policy. Nature Climate Change, 2019, 9, 542-546.	8.1	65
43	The effects of adaptation and mitigation on coastal flood impacts during the 21st century. An application of the DIVA and IMAGE models. Climatic Change, 2013, 117, 783-794.	1.7	64
44	Enhancing the Ostrom social-ecological system framework through formalization. Ecology and Society, 2014, 19, .	1.0	64
45	Trajectories of exposure and vulnerability of small islands to climate change. Wiley Interdisciplinary Reviews: Climate Change, 2017, 8, e478.	3.6	62
46	Spatial variations of sea-level rise and impacts: An application of DIVA. Climatic Change, 2016, 134, 403-416.	1.7	57
47	Transferring Williamson's discriminating alignment to the analysis of environmental governance of social-ecological interdependence. Ecological Economics, 2016, 128, 159-168.	2.9	53
48	Coastal flood risks in China through the 21st century â€“ An application of DIVA. Science of the Total Environment, 2020, 704, 135311.	3.9	52
49	Householdâ€Level Coastal Adaptation and Its Drivers: A Systematic Case Study Review. Risk Analysis, 2017, 37, 629-646.	1.5	49
50	Classifying knowledge on climate change impacts, adaptation, and vulnerability in Europe for informing adaptation research and decision-making: A conceptual meta-analysis. Global Environmental Change, 2011, 21, 1106-1116.	3.6	48
51	Climate change induced socio-economic tipping points: review and stakeholder consultation for policy relevant research. Environmental Research Letters, 2020, 15, 023001.	2.2	47
52	Framework for Highâ€End Estimates of Sea Level Rise for Stakeholder Applications. Earth's Future, 2019, 7, 923-938.	2.4	46
53	Future urban development exacerbates coastal exposure in the Mediterranean. Scientific Reports, 2020, 10, 14420.	1.6	46
54	Water-level attenuation in global-scale assessments of exposure to coastal flooding: a sensitivity analysis. Natural Hazards and Earth System Sciences, 2019, 19, 973-984.	1.5	45

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55	A Mediterranean coastal database for assessing the impacts of sea-level rise and associated hazards. Scientific Data, 2018, 5, 180044.	2.4	44
56	Sea level rise risks and societal adaptation benefits in low-lying coastal areas. Scientific Reports, 2022, 12, .	1.6	44
57	Sea-level rise vulnerability in the countries of the Coral Triangle. Sustainability Science, 2010, 5, 207-222.	2.5	41
58	Avoiding the avoidable: Towards a European heat waves risk governance. International Journal of Disaster Risk Science, 2011, 2, 1-14.	1.3	41
59	DIVA: an iterative method for building modular integrated models. Advances in Geosciences, 0, 4, 45-50.	12.0	39
60	Sea-Level Rise Impacts and Responses: A Global Perspective. Coastal Research Library, 2013, , 117-149.	0.2	38
61	Coastal Migration due to 21st Century Seaâ€Level Rise. Earth's Future, 2021, 9, e2020EF001965.	2.4	36
62	Regionalisation of population growth projections in coastal exposure analysis. Climatic Change, 2018, 151, 413-426.	1.7	35
63	Uncertainty and Bias in Global to Regional Scale Assessments of Current and Future Coastal Flood Risk. Earth's Future, 2021, 9, e2020EF001882.	2.4	35
64	Methodological choices in solution-oriented adaptation research: a diagnostic framework. Regional Environmental Change, 2016, 16, 7-20.	1.4	34
65	Integrating new seaâ€level scenarios into coastal risk and adaptation assessments: An ongoing process. Wiley Interdisciplinary Reviews: Climate Change, 2021, 12, e706.	3.6	34
66	Multilevel water, biodiversity and climate adaptation governance: evaluating adaptive management in Lesotho. Environmental Science and Policy, 2010, 13, 637-647.	2.4	32
67	Global-scale climate impact functions: the relationship between climate forcing and impact. Climatic Change, 2016, 134, 475-487.	1.7	32
68	Effects of Scale and Input Data on Assessing the Future Impacts of Coastal Flooding: An Application of DIVA for the Emilia-Romagna Coast. Frontiers in Marine Science, 2016, 3, .	1.2	29
69	Land raising as a solution to seaâ€level rise: An analysis of coastal flooding on an artificial island in the Maldives. Journal of Flood Risk Management, 2020, 13, e12567.	1.6	29
70	Economy-wide effects of coastal flooding due to sea level rise: a multi-model simultaneous treatment of mitigation, adaptation, and residual impacts. Environmental Research Communications, 2020, 2, 015002.	0.9	28
71	Climate change adaptation strategies in the Mekong and Orange-Senqu basins: What determines the state-of-play?. Environmental Science and Policy, 2010, 13, 648-659.	2.4	26
72	Framing climate vulnerability and adaptation at multiple levels: Addressing climate risks or institutional barriers in Lesotho?. Climate and Development, 2010, 2, 161-175.	2.2	26

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73	A review and classification of analytical methods for climate change adaptation. Wiley Interdisciplinary Reviews: Climate Change, 2015, 6, 171-188.	3.6	26
74	Mobilizing private finance for coastal adaptation: A literature review. Wiley Interdisciplinary Reviews: Climate Change, 2018, 9, e514.	3.6	26
75	Transformative narratives for climate action. Climatic Change, 2020, 160, 495-506.	1.7	25
76	Towards a diagnostic adaptation science. Regional Environmental Change, 2016, 16, 1-5.	1.4	23
77	Leveraging public adaptation finance through urban land reclamation: cases from Germany, the Netherlands and the Maldives. Climatic Change, 2020, 160, 671-689.	1.7	23
78	A framework for assessing the potential effectiveness of adaptation policies: Coastal risks and sea-level rise in the Maldives. Environmental Science and Policy, 2021, 115, 35-42.	2.4	23
79	The PIAM approach to modular integrated assessment modelling. Environmental Modelling and Software, 2009, 24, 739-748.	1.9	20
80	Conservation Organizations Need to Consider Adaptive Capacity: Why Local Input Matters. Conservation Letters, 2016, 9, 351-360.	2.8	19
81	Risks on global financial stability induced by climate change: the case of flood risks. Climatic Change, 2021, 166, 1.	1.7	17
82	Coastal Flooding in the Maldives Induced by Mean Sea-Level Rise and Wind-Waves: From Global to Local Coastal Modelling. Frontiers in Marine Science, 2021, 8, .	1.2	16
83	Uncertainty representations of mean sea-level change: a telephone game?. Climatic Change, 2019, 152, 393-411.	1.7	15
84	Multilevel governance of coastal flood risk reduction: A public finance perspective. Environmental Science and Policy, 2020, 112, 203-212.	2.4	15
85	Fiscal effects and the potential implications on economic growth of sea-level rise impacts and coastal zone protection. Climatic Change, 2020, 160, 283-302.	1.7	15
86	A typology of household-level adaptation to coastal flooding and its spatio-temporal patterns. SpringerPlus, 2014, 3, 466.	1.2	14
87	What drives relocation policies in the Maldives?. Climatic Change, 2020, 163, 931-951.	1.7	14
88	Financing and implementation of adaptation measures to climate change along the Spanish coast. Science of the Total Environment, 2020, 712, 135685.	3.9	11
89	The effectiveness of setback zones for adapting to sea-level rise in Croatia. Regional Environmental Change, 2020, 20, 1.	1.4	11
90	Regional economic analysis of flood defence heights at the German Baltic Sea coast: A multi-method cost-benefit approach for flood prevention. Climate Risk Management, 2021, 32, 100289.	1.6	11

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91	Global Investment Costs for Coastal Defense through the 21 st Century. , 2019, , .		11
92	Coastal flooding and mean sea-level rise allowances in atoll island. Scientific Reports, 2022, 12, 1281.	1.6	11
93	The potential of nature-based flood defences to leverage public investment in coastal adaptation: Cases from the Netherlands, Indonesia and Georgia. Ecological Economics, 2021, 179, 106828.	2.9	10
94	Unravelling the Importance of Uncertainties in Global-Scale Coastal Flood Risk Assessments under Sea Level Rise. Water (Switzerland), 2021, 13, 774.	1.2	10
95	Uncertainty, Decision Science, and Policy Making: A Manifesto for a Research Agenda. Critical Review, 2015, 27, 213-242.	0.1	9
96	A typology for analysing mitigation and adaptation win-win strategies. Climatic Change, 2020, 160, 539-564.	1.7	9
97	Frontiers of solution-oriented adaptation research. Regional Environmental Change, 2016, 16, 123-136.	1.4	8
98	Introduction to the special issue on adapting institutions to climate change. Journal of Institutional Economics, 2018, 14, 409-422.	1.3	6
99	Using quantitative dynamic adaptive policy pathways to manage climate change-induced coastal erosion. Climate Risk Management, 2021, 33, 100342.	1.6	6
100	Benefits of Climate-Change Mitigation for Reducing the Impacts of Sea-Level Rise in G-20 Countries. Journal of Coastal Research, 2019, 35, 884.	0.1	6
101	Comment on â€˜The Global Impacts of Extreme Sea-Level Rise: A Comprehensive Economic Assessmentâ€™. Environmental and Resource Economics, 2016, 64, 341-344.	1.5	5
102	A GLOBAL ANALYSIS OF COASTAL EROSION OF BEACHES DUE TO SEA-LEVEL RISE: AN APPLICATION OF DIVA. , 2011, , .		2
103	Vested interests, rather than adaptation considerations, explain varying post-tsunami relocation outcomes in Laamu atoll, Maldives. One Earth, 2021, , .	3.6	1
104	Global Climate Services: A Typology of Global Decisions Influenced by Climate Risk. Frontiers in Marine Science, 2021, 8, .	1.2	1