

Michel den Elzen

List of Publications by Citations

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

112
papers

7,901
citations

43
h-index

88
g-index

121
ext. papers

9,314
ext. citations

7.3
avg, IF

6.03
L-index

#	Paper	IF	Citations
112	Paris Agreement climate proposals need a boost to keep warming well below 2 °C. <i>Nature</i> , 2016 , 534, 631-9	50.4	1652
111	RCP2.6: exploring the possibility to keep global mean temperature increase below 2°C. <i>Climatic Change</i> , 2011 , 109, 95-116	4.5	617
110	Stabilizing greenhouse gas concentrations at low levels: an assessment of reduction strategies and costs. <i>Climatic Change</i> , 2007 , 81, 119-159	4.5	536
109	Climate benefits of changing diet. <i>Climatic Change</i> , 2009 , 95, 83-102	4.5	532
108	The feasibility of low CO ₂ concentration targets and the role of bio-energy with carbon capture and storage (BECCS). <i>Climatic Change</i> , 2010 , 100, 195-202	4.5	224
107	Locked into Copenhagen pledges ¶ Implications of short-term emission targets for the cost and feasibility of long-term climate goals. <i>Technological Forecasting and Social Change</i> , 2015 , 90, 8-23	9.5	222
106	The key role of forests in meeting climate targets requires science for credible mitigation. <i>Nature Climate Change</i> , 2017 , 7, 220-226	21.4	218
105	Regional GHG reduction targets based on effort sharing: a comparison of studies. <i>Climate Policy</i> , 2014 , 14, 122-147	5.3	136
104	Greenhouse gas emissions from current and enhanced policies of China until 2030: Can emissions peak before 2030?. <i>Energy Policy</i> , 2016 , 89, 224-236	7.2	126
103	Temperature increase of 21st century mitigation scenarios. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 15258-62	11.5	121
102	Sharing the burden of financing adaptation to climate change. <i>Global Environmental Change</i> , 2009 , 19, 411-421	10.1	120
101	Long-term reduction potential of non-CO ₂ greenhouse gases. <i>Environmental Science and Policy</i> , 2007 , 10, 85-103	6.2	114
100	Taking stock of national climate policies to evaluate implementation of the Paris Agreement. <i>Nature Communications</i> , 2020 , 11, 2096	17.4	108
99	Exploring the ancillary benefits of the Kyoto Protocol for air pollution in Europe. <i>Energy Policy</i> , 2006 , 34, 444-460	7.2	106
98	Multi-gas Emissions Pathways to Meet Climate Targets. <i>Climatic Change</i> , 2006 , 75, 151-194	4.5	86
97	The Copenhagen Accord: abatement costs and carbon prices resulting from the submissions. <i>Environmental Science and Policy</i> , 2011 , 14, 28-39	6.2	83
96	Options for differentiation of future commitments in climate policy: how to realise timely participation to meet stringent climate goals?. <i>Climate Policy</i> , 2001 , 1, 465-480	5.3	82

95	Global and regional abatement costs of Nationally Determined Contributions (NDCs) and of enhanced action to levels well below 2 °C and 1.5 °C. <i>Environmental Science and Policy</i> , 2017 , 71, 30-40	6.2	73
94	Common but differentiated convergence (CDC): a new conceptual approach to long-term climate policy. <i>Climate Policy</i> , 2006 , 6, 181-199	5.3	73
93	Exploring fair and ambitious mitigation contributions under the Paris Agreement goals. <i>Environmental Science and Policy</i> , 2017 , 74, 49-56	6.2	72
92	Multi-gas emission envelopes to meet greenhouse gas concentration targets: Costs versus certainty of limiting temperature increase. <i>Global Environmental Change</i> , 2007 , 17, 260-280	10.1	69
91	The FAIR model: A tool to analyse environmental and costs implications of regimes of future commitments. <i>Environmental Modeling and Assessment</i> , 2005 , 10, 115-134	2	67
90	National post-2020 greenhouse gas targets and diversity-aware leadership. <i>Nature Climate Change</i> , 2015 , 5, 1098-1106	21.4	66
89	Abatement costs of post-Kyoto climate regimes. <i>Energy Policy</i> , 2005 , 33, 2138-2151	7.2	66
88	Implications of various effort-sharing approaches for national carbon budgets and emission pathways. <i>Climatic Change</i> , 2020 , 162, 1805-1822	4.5	64
87	Regional abatement action and costs under allocation schemes for emission allowances for achieving low CO ₂ -equivalent concentrations. <i>Climatic Change</i> , 2008 , 90, 243-268	4.5	63
86	Countries' contributions to climate change: effect of accounting for all greenhouse gases, recent trends, basic needs and technological progress. <i>Climatic Change</i> , 2013 , 121, 397-412	4.5	59
85	Analysing countries' contribution to climate change: scientific and policy-related choices. <i>Environmental Science and Policy</i> , 2005 , 8, 614-636	6.2	58
84	Net-zero emission targets for major emitting countries consistent with the Paris Agreement. <i>Nature Communications</i> , 2021 , 12, 2140	17.4	56
83	Assessing the INDCs' land use, land use change, and forest emission projections. <i>Carbon Balance and Management</i> , 2016 , 11, 26	3.6	56
82	Contribution of the G20 economies to the global impact of the Paris agreement climate proposals. <i>Climatic Change</i> , 2016 , 137, 655-665	4.5	55
81	Exploring IMAGE model scenarios that keep greenhouse gas radiative forcing below 3 W/m ² in 2100. <i>Energy Economics</i> , 2010 , 32, 1105-1120	8.3	54
80	Towards an equitable global climate change regime: compatibility with Article 2 of the Climate Change Convention and the link with sustainable development. <i>Climate Policy</i> , 2002 , 2, 211-230	5.3	53
79	The emissions gap between the Copenhagen pledges and the 2 °C climate goal: Options for closing and risks that could widen the gap. <i>Global Environmental Change</i> , 2011 , 21, 733-743	10.1	52
78	Peaking profiles for achieving long-term temperature targets with more likelihood at lower costs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 17931-6	11.5	51

77	Differentiating Future Commitments on the Basis of Countries' Relative Historical Responsibility for Climate Change: Uncertainties in the Brazilian Proposal in the Context of a Policy Implementation. <i>Climatic Change</i> , 2005 , 71, 277-301	4.5	51
76	Are the G20 economies making enough progress to meet their NDC targets?. <i>Energy Policy</i> , 2019 , 126, 238-250	7.2	47
75	Analysing the costs and benefits of climate policy: Value judgements and scientific uncertainties. <i>Global Environmental Change</i> , 2008 , 18, 412-424	10.1	46
74	Copenhagen Accord Pledges imply higher costs for staying below 2°C warming. <i>Climatic Change</i> , 2012 , 113, 551-561	4.5	43
73	Sharing the reduction effort to limit global warming to 2°C. <i>Climate Policy</i> , 2010 , 10, 247-260	5.3	43
72	Differentiation of countries' future commitments in a post-2012 climate regime: An assessment of the South-North Dialogue Proposal. <i>Environmental Science and Policy</i> , 2007 , 10, 185-203	6.2	43
71	Meeting radiative forcing targets under delayed participation. <i>Energy Economics</i> , 2009 , 31, S152-S162	8.3	40
70	The Triptych approach revisited: A staged sectoral approach for climate mitigation. <i>Energy Policy</i> , 2008 , 36, 1107-1124	7.2	39
69	Multi-Stage: A Rule-Based Evolution of Future Commitments under the Climate Change Convention. <i>International Environmental Agreements: Politics, Law and Economics</i> , 2006 , 6, 1-28	2	39
68	Greenhouse Gas Emissions in an Equity-, Environment- and Service-Oriented World: An IMAGE-Based Scenario for the 21st Century. <i>Technological Forecasting and Social Change</i> , 2000 , 63, 137-174	8.5	39
67	Emission allowances and mitigation costs of China and India resulting from different effort-sharing approaches. <i>Energy Policy</i> , 2012 , 46, 116-134	7.2	38
66	Postponing emission reductions from 2020 to 2030 increases climate risks and long-term costs. <i>Climatic Change</i> , 2010 , 99, 313-320	4.5	38
65	Responsibility for Past and Future Global Warming: Uncertainties in Attributing Anthropogenic Climate Change. <i>Climatic Change</i> , 2002 , 54, 29-73	4.5	38
64	Environmental effectiveness and economic consequences of fragmented versus universal regimes: what can we learn from model studies?. <i>International Environmental Agreements: Politics, Law and Economics</i> , 2009 , 9, 39-62	2	36
63	Assessing the ambition of post-2020 climate targets: a comprehensive framework. <i>Climate Policy</i> , 2018 , 18, 425-441	5.3	35
62	Implications of the international reduction pledges on long-term energy system changes and costs in China and India. <i>Energy Policy</i> , 2013 , 63, 1032-1041	7.2	35
61	Multi-model comparison of the economic and energy implications for China and India in an international climate regime. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2015 , 20, 1335-1359	3.9	33
60	Analyzing the Kyoto Protocol under the Marrakesh Accords: economic efficiency and environmental effectiveness. <i>Ecological Economics</i> , 2002 , 43, 141-158	5.6	33

59	Long-term reductions in costs of controlling regional air pollution in Europe due to climate policy. <i>Environmental Science and Policy</i> , 2002 , 5, 349-365	6.2	32
58	Long-Term Multi-Gas Scenarios to Stabilise Radiative Forcing - Exploring Costs and Benefits Within an Integrated Assessment Framework. <i>Energy Journal</i> , 2006 , SI2006,	3.5	32
57	Low-emission pathways in 11 major economies: comparison of cost-optimal pathways and Paris climate proposals. <i>Climatic Change</i> , 2017 , 142, 491-504	4.5	30
56	Are major economies on track to achieve their pledges for 2020? An assessment of domestic climate and energy policies. <i>Energy Policy</i> , 2014 , 67, 781-796	7.2	30
55	Meeting the EU 2°C climate target: global and regional emission implications. <i>Climate Policy</i> , 2006 , 6, 545-564	5.3	30
54	Exploring Climate Regimes for Differentiation of Future Commitments to Stabilise Greenhouse Gas Concentrations. <i>Integrated Assessment: an International Journal</i> , 2002 , 3, 343-359		29
53	The role of the land use, land use change and forestry sector in achieving Annex I reduction pledges. <i>Climatic Change</i> , 2012 , 115, 873-881	4.5	27
52	Methods for quantifying the benefits of sustainable development policies and measures (SD-PAMs). <i>Climate Policy</i> , 2008 , 8, 119-134	5.3	26
51	A review of successful climate change mitigation policies in major emitting economies and the potential of global replication. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 137, 110602	16.2	26
50	Long-term, consistent scenarios of emissions, deposition, and climate change in Europe. <i>Environmental Science and Policy</i> , 2002 , 5, 273-305	6.2	24
49	Implications of greenhouse gas emission mitigation scenarios for the main Asian regions. <i>Energy Economics</i> , 2012 , 34, S459-S469	8.3	23
48	National GHG emissions reduction pledges and 2°C: comparison of studies. <i>Climate Policy</i> , 2012 , 12, 356-377		22
47	Comparison of different climate regimes: the impact of broadening participation. <i>Energy Policy</i> , 2009 , 37, 5351-5362	7.2	22
46	Predictability, equitability and adequacy of post-2012 international climate financing proposals. <i>Environmental Science and Policy</i> , 2011 , 14, 615-627	6.2	22
45	Including adaptation costs and climate change damages in evaluating post-2012 burden-sharing regimes. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2010 , 15, 19-40	3.9	22
44	The impact of technology availability on the timing and costs of emission reductions for achieving long-term climate targets. <i>Climatic Change</i> , 2014 , 123, 559-569	4.5	21
43	Early action on Paris Agreement allows for more time to change energy systems. <i>Climatic Change</i> , 2017 , 144, 165-179	4.5	20
42	The effect of different mitigation strategies on international financing of adaptation. <i>Environmental Science and Policy</i> , 2009 , 12, 832-843	6.2	19

41	Wave of net zero emission targets opens window to meeting the Paris Agreement. <i>Nature Climate Change</i> , 2021 , 11, 820-822	21.4	19
40	Reduction targets and abatement costs of developing countries resulting from global and developed countries reduction targets by 2050. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2013 , 18, 491-512	3.9	18
39	Analysing comparable greenhouse gas mitigation efforts for Annex I countries. <i>Energy Policy</i> , 2009 , 37, 4114-4131	7.2	17
38	Analysing the greenhouse gas emission reductions of the mitigation action plans by non-Annex I countries by 2020. <i>Energy Policy</i> , 2013 , 56, 633-643	7.2	16
37	Evaluating the BonnMarrakesh agreement. <i>Climate Policy</i> , 2002 , 2, 111-117	5.3	16
36	The effect of different historical emissions datasets on emission targets of the sectoral mitigation approach Triptych. <i>Climate Policy</i> , 2010 , 10, 684-704	5.3	15
35	A quantitative minimax regret approach to climate change: Does discounting still matter?. <i>Ecological Economics</i> , 2010 , 70, 43-51	5.6	15
34	An evaluation of the level of ambition and implications of the Bush Climate Change Initiative. <i>Climate Policy</i> , 2002 , 2, 293-301	5.3	15
33	The image greenhouse model as a mathematical system. <i>Applied Mathematical Modelling</i> , 1994 , 18, 234-254	5.4	15
32	Common but differentiated convergence (CDC): a new conceptual approach to long-term climate policy		14
31	Meeting the EU 2°C climate target: global and regional emission implications		13
30	Reducing global GHG emissions by replicating successful sector examples: the good practice policies scenario. <i>Climate Policy</i> , 2018 , 18, 1103-1113	5.3	12
29	The effect of updated pledges and business-as-usual projections, and new agreed rules on expected global greenhouse gas emissions in 2020. <i>Environmental Science and Policy</i> , 2013 , 33, 308-319	6.2	12
28	Dealing with surplus emissions in the climate negotiations after Copenhagen: What are the options for compromise?. <i>Energy Policy</i> , 2010 , 38, 6615-6628	7.2	12
27	A model-based approach to the calculation of global warming potentials (GWP). <i>International Journal of Climatology</i> , 1992 , 12, 865-874	3.5	11
26	The EU 40 % greenhouse gas emission reduction target by 2030 in perspective. <i>International Environmental Agreements: Politics, Law and Economics</i> , 2016 , 16, 375-392	2	11
25	Evaluating the BonnMarrakesh agreement. <i>Climate Policy</i> , 2002 , 2, 111-117	5.3	10
24	The implications of carbon dioxide and methane exchange for the heavy mitigation RCP2.6 scenario under two metrics. <i>Environmental Science and Policy</i> , 2015 , 51, 77-87	6.2	9

23	An integrated modeling approach to global carbon and nitrogen cycles: Balancing their budgets. <i>Global Biogeochemical Cycles</i> , 1997 , 11, 191-215	5.9	9
22	Costs and benefits of differences in the timing of greenhouse gas emission reductions. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2016 , 21, 1165-1179	3.9	8
21	Sharing developed countries' post-2012 greenhouse gas emission reductions based on comparable efforts. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2010 , 15, 433-465	3.9	8
20	Towards an equitable global climate change regime: compatibility with Article 2 of the Climate Change Convention and the link with sustainable development. <i>Climate Policy</i> , 2002 , 2, 211-230	5.3	8
19	The socio-economic impact of sea-level rise on the Netherlands: A study of possible scenarios. <i>Climatic Change</i> , 1992 , 20, 169-195	4.5	8
18	Strengthening the Montreal protocol: does it cool down the greenhouse?. <i>Science of the Total Environment</i> , 1992 , 113, 229-50	10.2	7
17	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1993 , 45, 301-320	3.3	7
16	Low Stabilization Scenarios and Implications for Major World Regions from an Integrated Assessment Perspective. <i>Energy Journal</i> , 2010 , 31,	3.5	7
15	Greenhouse gas emission scenarios in nine key non-G20 countries: An assessment of progress toward 2030 climate targets. <i>Environmental Science and Policy</i> , 2021 , 123, 67-81	6.2	7
14	Global roll-out of comprehensive policy measures may aid in bridging emissions gap. <i>Nature Communications</i> , 2021 , 12, 6419	17.4	6
13	An evaluation of the level of ambition and implications of the Bush Climate Change Initiative. <i>Climate Policy</i> , 2002 , 2, 293-301	5.3	4
12	The impact of surplus units from the first Kyoto period on achieving the reduction pledges of the Cancn Agreements. <i>Climatic Change</i> , 2012 , 114, 401-408	4.5	3
11	Twenty years of climate policy: G20 coverage and gaps. <i>Climate Policy</i> , 1-17	5.3	3
10	Regional energy diversity and sovereignty in different 2 °C and 1.5 °C pathways. <i>Energy</i> , 2021 , 239, 1221979	17.9	3
9	Sharing the Burden of Adaptation Financing: An Assessment of the Contributions of Countries. <i>SSRN Electronic Journal</i> ,	1	2
8	Targeted green recovery measures in a post-COVID-19 world enable the energy transition		2
7	Exploring the bargaining space within international climate negotiations based on political, economic and environmental considerations. <i>Energy Policy</i> , 2011 , 39, 7361-7371	7.2	1
6	Environmental effectiveness and economic consequences of fragmented versus universal regimes35-59		1

5	Costs, benefits and interlinkages between adaptation and mitigation235-254		1
4	Regional Low-Emission Pathways from Global Models. <i>SSRN Electronic Journal</i> ,	1	1
3	Developing scenarios in the context of the Paris Agreement and application in the integrated assessment model IMAGE: A framework for bridging the policy-modelling divide. <i>Environmental Science and Policy</i> , 2022 , 135, 104-116	6.2	1
2	A staged sectoral approach for climate mitigation183-207		
1	Modeling climate related feedback processes. <i>Journal of Environmental Science and Health Part A: Environmental Science and Engineering</i> , 1993 , 28, 2095-2151		