Detlef P. van Vuuren

List of Publications by Year
in descending order

406 papers	67,265 citations	1233 110 h-index	892 242 g-index
437 all docs	437 docs citations	437 times ranked	46698 citing authors

#	Article	IF	Citations
1	The representative concentration pathways: an overview. Climatic Change, 2011, 109, 5-31.	1.7	5,871
2	The next generation of scenarios for climate change research and assessment. Nature, 2010, 463, 747-756.	13.7	5,299
3	The Shared Socioeconomic Pathways and their energy, land use, and greenhouse gas emissions implications: An overview. Global Environmental Change, 2017, 42, 153-168.	3.6	2,966
4	The RCP greenhouse gas concentrations and their extensions from 1765 to 2300. Climatic Change, 2011, 109, 213-241.	1.7	2,948
5	The Scenario Model Intercomparison Project (ScenarioMIP) for CMIP6. Geoscientific Model Development, 2016, 9, 3461-3482.	1.3	2,084
6	Historical (1850â€"2000) gridded anthropogenic and biomass burning emissions of reactive gases and aerosols: methodology and application. Atmospheric Chemistry and Physics, 2010, 10, 7017-7039.	1.9	2,020
7	A new scenario framework for climate change research: the concept of shared socioeconomic pathways. Climatic Change, 2014, 122, 387-400.	1.7	1,698
8	The roads ahead: Narratives for shared socioeconomic pathways describing world futures in the 21st century. Global Environmental Change, 2017, 42, 169-180.	3.6	1,656
9	Harmonization of land-use scenarios for the period 1500â€"2100: 600Âyears of global gridded annual land-use transitions, wood harvest, and resulting secondary lands. Climatic Change, 2011, 109, 117-161.	1.7	1,080
10	Biophysical and economic limits to negative CO2 emissions. Nature Climate Change, 2016, 6, 42-50.	8.1	973
11	Modeling global residential sector energy demand for heating and air conditioning in the context of climate change. Energy Policy, 2009, 37, 507-521.	4.2	843
12	Scenarios towards limiting global mean temperature increase below 1.5 Â°C. Nature Climate Change, 2018, 8, 325-332.	8.1	795
13	RCP2.6: exploring the possibility to keep global mean temperature increase below 2Â°C. Climatic Change, 2011, 109, 95-116.	1.7	759
14	Exploring global changes in nitrogen and phosphorus cycles in agriculture induced by livestock production over the 1900â€"2050 period. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20882-20887.	3.3	742
15	Evolution of anthropogenic and biomass burning emissions of air pollutants at global and regional scales during the 1980â€"2010 period. Climatic Change, 2011, 109, 163-190.	1.7	740
16	Indicators for energy security. Energy Policy, 2009, 37, 2166-2181.	4.2	708
17	Global drivers of future river flood risk. Nature Climate Change, 2016, 6, 381-385.	8.1	661
18	Stabilizing greenhouse gas concentrations at low levels: an assessment of reduction strategies and costs. Climatic Change, 2007, 81, 119-159.	1.7	658

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19	Land-use futures in the shared socio-economic pathways. Global Environmental Change, 2017, 42, 331-345.	3.6	645
20	Climate benefits of changing diet. Climatic Change, 2009, 95, 83-102.	1.7	640
21	Persistent growth of CO2 emissions and implications for reaching climate targets. Nature Geoscience, 2014, 7, 709-715.	5.4	615
22	Phosphorus demand for the 1970â€“2100 period: A scenario analysis of resource depletion. Global Environmental Change, 2010, 20, 428-439.	3.6	533
23	Energy, land-use and greenhouse gas emissions trajectories under a green growth paradigm. Global Environmental Change, 2017, 42, 237-250.	3.6	523
24	A new scenario framework for Climate Change Research: scenario matrix architecture. Climatic Change, 2014, 122, 373-386.	1.7	510
25	Global emissions pathways under different socioeconomic scenarios for use in CMIP6: a dataset of harmonized emissions trajectories through the end of the century. Geoscientific Model Development, 2019, 12, 1443-1475.	1.3	496
26	Alternative pathways to the 1.5â€‰Â°C target reduce the need for negative emission technologies. Nature Climate Change, 2018, 8, 391-397.	8.1	455
27	Bending the curve of terrestrial biodiversity needs an integrated strategy. Nature, 2020, 585, 551-556.	13.7	413
28	Harmonization of global land use change and management for the period 850â€“2100 (LUH2) for CMIP6. Geoscientific Model Development, 2020, 13, 5425-5464.	1.3	408
29	Scenarios of freshwater fish extinctions from climate change and water withdrawal. Global Change Biology, 2005, 11, 1557-1564.	4.2	394
30	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
31	Global and regional evolution of short-lived radiatively-active gases and aerosols in the Representative Concentration Pathways. Climatic Change, 2011, 109, 191-212.	1.7	393
32	Residual fossil CO2 emissions in 1.5â€“2â€‰Â°C pathways. Nature Climate Change, 2018, 8, 626-633.	8.1	380
33	Energy investment needs for fulfilling the Paris Agreement and achieving the Sustainable Development Goals. Nature Energy, 2018, 3, 589-599.	19.8	377
34	Renewable energy sources: Their global potential for the first-half of the 21st century at a global level: An integrated approach. Energy Policy, 2007, 35, 2590-2610.	4.2	373
35	Evaluating sustainability transitions pathways: Bridging analytical approaches to address governance challenges. Global Environmental Change, 2015, 35, 239-253.	3.6	373
36	Competition for land. Philosophical Transactions of the Royal Society B: Biological Sciences, 2010, 365, 2941-2957.	1.8	365

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37	The role of technology for achieving climate policy objectives: overview of the EMF 27 study on global technology and climate policy strategies. Climatic Change, 2014, 123, 353-367.	1.7	348
38	A Global Analysis of Acidification and Eutrophication of Terrestrial Ecosystems. Water, Air, and Soil Pollution, 2002, 141, 349-382.	1.1	320
39	Transport: A roadblock to climate change mitigation?. Science, 2015, 350, 911-912.	6.0	307
40	Drivers of declining CO2 emissions in 18 developed economies. Nature Climate Change, 2019, 9, 213-217.	8.1	307
41	Sharing a quota on cumulative carbon emissions. Nature Climate Change, 2014, 4, 873-879.	8.1	295
42	Bridging analytical approaches for low-carbon transitions. Nature Climate Change, 2016, 6, 576-583.	8.1	294
43	Future air pollution in the Shared Socio-economic Pathways. Global Environmental Change, 2017, 42, 346-358.	3.6	277
44	Locked into Copenhagen pledges â€" Implications of short-term emission targets for the cost and feasibility of long-term climate goals. Technological Forecasting and Social Change, 2015, 90, 8-23.	6.2	270
45	Reducing emissions from agriculture to meet the 2ÂÂ°C target. Global Change Biology, 2016, 22, 3859-3864.	4.2	267
46	Assessing Chinaâ€™s efforts to pursue the 1.5Â°C warming limit. Science, 2021, 372, 378-385.	6.0	267
47	A new scenario framework for climate change research: the concept of shared climate policy assumptions. Climatic Change, 2014, 122, 401-414.	1.7	266
48	Emission pathways consistent with a 2â€‰Â°C global temperature limit. Nature Climate Change, 2011, 1, 413-418.	8.1	262
49	The feasibility of low CO2 concentration targets and the role of bio-energy with carbon capture and storage (BECCS). Climatic Change, 2010, 100, 195-202.	1.7	251
50	Shared Socio-Economic Pathways of the Energy Sector â€" Quantifying the Narratives. Global Environmental Change, 2017, 42, 316-330.	3.6	247
51	Achievements and needs for the climate change scenario framework. Nature Climate Change, 2020, 10, 1074-1084.	8.1	245
52	Taking stock of national climate policies to evaluate implementation of the Paris Agreement. Nature Communications, 2020, 11, 2096.	5.8	241
53	Resource nexus perspectives towards the United Nations Sustainable Development Goals. Nature Sustainability, 2018, 1, 737-743.	11.5	236
54	Climate model projections from the Scenario Model Intercomparison ProjectÂ(ScenarioMIP) of CMIP6. Earth System Dynamics, 2021, 12, 253-293.	2.7	236

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55	Bioenergy revisited: Key factors in global potentials of bioenergy. Energy and Environmental Science, 2010, 3, 258.	15.6	234
56	Net-zero emission targets for major emitting countries consistent with the Paris Agreement. Nature Communications, 2021, 12, 2140.	5.8	233
57	A proposal for a new scenario framework to support research and assessment in different climate research communities. Global Environmental Change, 2012, 22, 21-35.	3.6	228
58	Differences between carbon budget estimates unravelled. Nature Climate Change, 2016, 6, 245-252.	8.1	228
59	Scenarios in Global Environmental Assessments: Key characteristics and lessons for future use. Global Environmental Change, 2012, 22, 884-895.	3.6	225
60	Climate and socio-economic scenarios for climate change research and assessment: reconciling the new with the old. Climatic Change, 2014, 122, 415-429.	1.7	225
61	Climate change impacts on renewable energy supply. Nature Climate Change, 2021, 11, 119-125.	8.1	218
62	From Planetary Boundaries to national fair shares of the global safe operating space â€" How can the scales be bridged?. Global Environmental Change, 2016, 40, 60-72.	3.6	213
63	Exploring SSP land-use dynamics using the IMAGE model: Regional and gridded scenarios of land-use change and land-based climate change mitigation. Global Environmental Change, 2018, 48, 119-135.	3.6	202
64	Downscaling drivers of global environmental change: Enabling use of global SRES scenarios at the national and grid levels. Global Environmental Change, 2007, 17, 114-130.	3.6	201
65	Model projections for household energy use in developing countries. Energy, 2012, 37, 601-615.	4.5	199
66	Long-term model-based projections of energy use and CO2 emissions from the global steel and cement industries. Resources, Conservation and Recycling, 2016, 112, 15-36.	5.3	196
67	Land-use emissions play a critical role in land-based mitigation for Paris climate targets. Nature Communications, 2018, 9, 2938.	5.8	194
68	A special issue on the RCPs. Climatic Change, 2011, 109, 1-4.	1.7	192
69	Environmental co-benefits and adverse side-effects of alternative power sector decarbonization strategies. Nature Communications, 2019, 10, 5229.	5.8	188
70	High-resolution assessment of global technical and economic hydropower potential. Nature Energy, 2017, 2, 821-828.	19.8	186
71	Projecting Global Biodiversity Indicators under Future Development Scenarios. Conservation Letters, 2016, 9, 5-13.	2.8	182
72	Impacts of climate change on energy systems in global and regional scenarios. Nature Energy, 2020, 5, 794-802.	19.8	180

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73	The Economics of Low Stabilization: Model Comparison of Mitigation Strategies and Costs. Energy Journal, 2010, 31, 11-48.	0.9	179
74	A new scenario framework for climate change research: background, process, and future directions. Climatic Change, 2014, 122, 363-372.	1.7	169
75	Comparison of top-down and bottom-up estimates of sectoral and regional greenhouse gas emission reduction potentials. Energy Policy, 2009, 37, 5125-5139.	4.2	163
76	Assessing the land resourceâ€“food price nexus of the Sustainable Development Goals. Science Advances, 2016, 2, e1501499.	4.7	162
77	Afforestation for climate change mitigation: Potentials, risks and tradeâ€offs. Global Change Biology, 2020, 26, 1576-1591.	4.2	162
78	The role of negative CO2 emissions for reaching 2ÂÂ°Câ€”insights from integrated assessment modelling. Climatic Change, 2013, 118, 15-27.	1.7	159
79	Post-2020 climate agreements in the major economies assessed in the light of global models. Nature Climate Change, 2015, 5, 119-126.	8.1	158
80	Contribution of N₂O to the greenhouse gas balance of firstâ€generation biofuels. Global Change Biology, 2009, 15, 1-23.	4.2	157
81	Indirect land use change: review of existing models and strategies for mitigation. Biofuels, 2012, 3, 87-100.	1.4	155
82	Bioenergy in energy transformation and climate management. Climatic Change, 2014, 123, 477-493.	1.7	154
83	The implications of climate policy for the impacts of climate change on global water resources. Global Environmental Change, 2011, 21, 592-603.	3.6	152
84	A multi-model assessment of food security implications of climate change mitigation. Nature Sustainability, 2019, 2, 386-396.	11.5	152
85	Integrated assessment of biomass supply and demand in climate change mitigation scenarios. Global Environmental Change, 2019, 54, 88-101.	3.6	151
86	The climate change mitigation potential of bioenergy with carbon capture and storage. Nature Climate Change, 2020, 10, 1023-1029.	8.1	149
87	Impacts of future land cover changes on atmospheric CO2and climate. Global Biogeochemical Cycles, 2005, 19, n/a-n/a.	1.9	148
88	Future bio-energy potential under various natural constraints. Energy Policy, 2009, 37, 4220-4230.	4.2	147
89	Ecological footprints of Benin, Bhutan, Costa Rica and the Netherlands. Ecological Economics, 2000, 34, 115-130.	2.9	141
90	Climate policy through changing consumption choices: Options and obstacles for reducing greenhouse gas emissions. Global Environmental Change, 2014, 25, 5-15.	3.6	141

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91	Pathways to achieve a set of ambitious global sustainability objectives by 2050: Explorations using the IMAGE integrated assessment model. Technological Forecasting and Social Change, 2015, 98, 303-323.	6.2	141
92	Land-use transition for bioenergy and climate stabilization: model comparison of drivers, impacts and interactions with other land use based mitigation options. Climatic Change, 2014, 123, 495-509.	1.7	140
93	Temperature increase of 21st century mitigation scenarios. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15258-15262.	3.3	139
94	Changes in Nature's Balance Sheet: Model-based Estimates of Future Worldwide Ecosystem Services. Ecology and Society, 2005, 10, .	1.0	138
95	Research priorities for negative emissions. Environmental Research Letters, 2016, 11, 115007.	2.2	138
96	Scenarios for Demand Growth of Metals in Electricity Generation Technologies, Cars, and Electronic Appliances. Environmental Science & Technology, 2018, 52, 4950-4959.	4.6	137
97	When the Background Matters: Using Scenarios from Integrated Assessment Models in Prospective Life Cycle Assessment. Journal of Industrial Ecology, 2020, 24, 64-79.	2.8	134
98	Making or breaking climate targets: The AMPERE study on staged accession scenarios for climate policy. Technological Forecasting and Social Change, 2015, 90, 24-44.	6.2	132
99	Multiscale scenarios for nature futures. Nature Ecology and Evolution, 2017, 1, 1416-1419.	3.4	131
100	Implications of various effort-sharing approaches for national carbon budgets and emission pathways. Climatic Change, 2020, 162, 1805-1822.	1.7	131
101	Long-term reduction potential of non-CO2 greenhouse gases. Environmental Science and Policy, 2007, 10, 85-103.	2.4	130
102	How well do integrated assessment models simulate climate change?. Climatic Change, 2011, 104, 255-285.	1.7	127
103	Projections of the availability and cost of residues from agriculture and forestry. GCB Bioenergy, 2016, 8, 456-470.	2.5	127
104	Developing multiscale and integrative natureâ€“people scenarios using the Nature Futures Framework. People and Nature, 2020, 2, 1172-1195.	1.7	127
105	Analysing interactions among Sustainable Development Goals with Integrated Assessment Models. Global Transitions, 2019, 1, 210-225.	1.6	126
106	Limited emission reductions from fuel subsidy removal except in energy-exporting regions. Nature, 2018, 554, 229-233.	13.7	125
107	Exploring the ancillary benefits of the Kyoto Protocol for air pollution in Europe. Energy Policy, 2006, 34, 444-460.	4.2	124
108	Pathways for balancing CO2 emissions and sinks. Nature Communications, 2017, 8, 14856.	5.8	122

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109	Interaction of consumer preferences and climate policies in the global transition to low-carbon vehicles. Nature Energy, 2018, 3, 664-673.	19.8	122
110	Global resource potential of seasonal pumped hydropower storage for energy and water storage. Nature Communications, 2020, 11, 947.	5.8	121
111	Scientific evidence on the political impact of the Sustainable Development Goals. Nature Sustainability, 2022, 5, 795-800.	11.5	121
112	Model projections for household energy use in India. Energy Policy, 2011, 39, 7747-7761.	4.2	120
113	Uncertain Environmental Footprint of Current and Future Battery Electric Vehicles. Environmental Science & Technology, 2018, 52, 4989-4995.	4.6	117
114	Long-term perspectives on world metal useâ€"a system-dynamics model. Resources Policy, 1999, 25, 239-255.	4.2	116
115	Pathways to achieve universal household access to modern energy by 2030. Environmental Research Letters, 2013, 8, 024015.	2.2	114
116	Life cycle environmental and cost comparison of current and future passenger cars under different energy scenarios. Applied Energy, 2020, 269, 115021.	5.1	114
117	Societal Transformations in Models for Energy and Climate Policy: The Ambitious Next Step. One Earth, 2019, 1, 423-433.	3.6	113
118	Global energy sector emission reductions and bioenergy use: overview of the bioenergy demand phase of the EMF-33 model comparison. Climatic Change, 2020, 163, 1553-1568.	1.7	112
119	The Future of Vascular Plant Diversity Under Four Global Scenarios. Ecology and Society, 2006, 11, .	1.0	111
120	Modeling Energy and Development: An Evaluation of Models and Concepts. World Development, 2008, 36, 2801-2821.	2.6	110
121	Looking under the hood: A comparison of techno-economic assumptions across national and global integrated assessment models. Energy, 2019, 172, 1254-1267.	4.5	107
122	Diagnostic indicators for integrated assessment models of climate policy. Technological Forecasting and Social Change, 2015, 90, 45-61.	6.2	104
123	Multi-gas scenarios to stabilize radiative forcing. Energy Economics, 2006, 28, 102-120.	5.6	103
124	WHAT DOES THE 2Â°C TARGET IMPLY FOR A GLOBAL CLIMATE AGREEMENT IN 2020? THE LIMITS STUDY ON DURBAN PLATFORM SCENARIOS. Climate Change Economics, 2013, 04, 1340008.	2.9	103
125	Cost and attainability of meeting stringent climate targets without overshoot. Nature Climate Change, 2021, 11, 1063-1069.	8.1	102
126	Oil and natural gas prices and greenhouse gas emission mitigation. Energy Policy, 2009, 37, 4797-4808.	4.2	100

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127	The Copenhagen Accord: abatement costs and carbon prices resulting from the submissions. Environmental Science and Policy, 2011, 14, 28-39.	2.4	100
128	Impact of future land use and land cover changes on atmospheric chemistryâ€climate interactions. Journal of Geophysical Research, 2010, 115, .	3.3	99
129	Anticipating futures through models: the rise of Integrated Assessment Modelling in the climate science-policy interface since 1970. Global Environmental Change, 2020, 65, 102191.	3.6	99
130	Assessing current and future techno-economic potential of concentrated solar power and photovoltaic electricity generation. Energy, 2015, 89, 739-756.	4.5	98
131	Simulating the Earth system response to negative emissions. Environmental Research Letters, 2016, 11, 095012.	2.2	98
132	Modelling global material stocks and flows for residential and service sector buildings towards 2050. Journal of Cleaner Production, 2020, 245, 118658.	4.6	98
133	An evaluation of the global potential of bioenergy production on degraded lands. GCB Bioenergy, 2012, 4, 130-147.	2.5	96
134	Global and regional abatement costs of Nationally Determined Contributions (NDCs) and of enhanced action to levels well below 2 Â°C and 1.5 Â°C. Environmental Science and Policy, 2017, 71, 30-40.	2.4	96
135	Multi-gas Emissions Pathways to Meet Climate Targets. Climatic Change, 2006, 75, 151-194.	1.7	95
136	Open discussion of negative emissions is urgently needed. Nature Energy, 2017, 2, 902-904.	19.8	94
137	Projecting terrestrial biodiversity intactness with GLOBIO 4. Global Change Biology, 2020, 26, 760-771.	4.2	94
138	Uncertainty in Carbon Capture and Storage (CCS) deployment projections: a cross-model comparison exercise. Climatic Change, 2014, 123, 461-476.	1.7	93
139	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
140	Scenarios of biodiversity loss in southern Africa in the 21st century. Global Environmental Change, 2008, 18, 296-309.	3.6	90
141	Aligning corporate greenhouse-gas emissions targets with climate goals. Nature Climate Change, 2015, 5, 1057-1060.	8.1	90
142	Exploring past and future changes in the ecological footprint for world regions. Ecological Economics, 2005, 52, 43-62.	2.9	88
143	Sensitivity of projected long-term CO2 emissions across the Shared Socioeconomic Pathways. Nature Climate Change, 2017, 7, 113-117.	8.1	85
144	Adaptation in integrated assessment modeling: where do we stand?. Climatic Change, 2010, 99, 383-402.	1.7	84

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145	Pathways limiting warming to 1.5Â°C: a tale of turning around in no time?. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20160457.	1.6	84
146	Identifying a Safe and Just Corridor for People and the Planet. Earth's Future, 2021, 9, e2020EF001866.	2.4	84
147	Research priorities in land use and landâ€cover change for the Earth system and integrated assessment modelling. International Journal of Climatology, 2010, 30, 2118-2128.	1.5	83
148	The relationship between short-term emissions and long-term concentration targets. Climatic Change, 2011, 104, 793-801.	1.7	83
149	Land-based mitigation in climate stabilization. Energy Economics, 2012, 34, 365-380.	5.6	83
150	Model-based scenarios for rural electrification in developing countries. Energy, 2012, 38, 386-397.	4.5	83
151	Integrating Global Climate Change Mitigation Goals with Other Sustainability Objectives: A Synthesis. Annual Review of Environment and Resources, 2015, 40, 363-394.	5.6	83
152	Energy and emission scenarios for China in the 21st centuryâ€"exploration of baseline development and mitigation options. Energy Policy, 2003, 31, 369-387.	4.2	82
153	Evaluating the use of biomass energy with carbon capture and storage in low emission scenarios. Environmental Research Letters, 2018, 13, 044014.	2.2	81
154	The role of the discount rate for emission pathways and negative emissions. Environmental Research Letters, 2019, 14, 104008.	2.2	80
155	Integrated scenarios to support analysis of the foodâ€"energyâ€"water nexus. Nature Sustainability, 2019, 2, 1132-1141.	11.5	79
156	Climate change under aggressive mitigation: the ENSEMBLES multi-model experiment. Climate Dynamics, 2011, 37, 1975-2003.	1.7	75
157	An energy vision: the transformation towards sustainabilityâ€"interconnected challenges and solutions. Current Opinion in Environmental Sustainability, 2012, 4, 18-34.	3.1	75
158	Understanding the contribution of non-carbon dioxide gases in deep mitigation scenarios. Global Environmental Change, 2015, 33, 142-153.	3.6	75
159	Mapping the climate change challenge. Nature Climate Change, 2016, 6, 663-668.	8.1	75
160	A comprehensive view on climate change: coupling of earth system and integrated assessment models. Environmental Research Letters, 2012, 7, 024012.	2.2	74
161	Global travel within the 2Â°C climate target. Energy Policy, 2012, 45, 152-166.	4.2	74
162	CO2 emission mitigation and fossil fuel markets: Dynamic and international aspects of climate policies. Technological Forecasting and Social Change, 2015, 90, 243-256.	6.2	74

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163	The role of decentralized systems in providing universal electricity access in Sub-Saharan Africa â€" A model-based approach. Energy, 2017, 139, 184-195.	4.5	74
164	Abatement costs of post-Kyoto climate regimes. Energy Policy, 2005, 33, 2138-2151.	4.2	73
165	Global impacts of surface ozone changes on crop yields and land use. Atmospheric Environment, 2015, 106, 11-23.	1.9	73
166	Multi-gas emission envelopes to meet greenhouse gas concentration targets: Costs versus certainty of limiting temperature increase. Global Environmental Change, 2007, 17, 260-280.	3.6	72
167	A multi-model assessment of the co-benefits of climate mitigation for global air quality. Environmental Research Letters, 2016, 11, 124013.	2.2	72
168	Exploring the implications of lifestyle change in 2 Â°C mitigation scenarios using the IMAGE integrated assessment model. Technological Forecasting and Social Change, 2016, 102, 309-319.	6.2	72
169	Pathways for agriculture and forestry to contribute to terrestrial biodiversity conservation: A global scenario-study. Biological Conservation, 2018, 221, 137-150.	1.9	72
170	Decarbonising the critical sectors of aviation, shipping, road freight and industry to limit warming to 1.5â€"2Â°C. Climate Policy, 2021, 21, 455-474.	2.6	72
171	The Consistency of IPCC's SRES Scenarios to 1990â€"2000 Trends and Recent Projections. Climatic Change, 2006, 75, 9-46.	1.7	71
172	Regional abatement action and costs under allocation schemes for emission allowances for achieving low CO2-equivalent concentrations. Climatic Change, 2008, 90, 243-268.	1.7	67
173	BEYOND 2020 â€" STRATEGIES AND COSTS FOR TRANSFORMING THE EUROPEAN ENERGY SYSTEM. Climate Change Economics, 2013, 04, 1340001.	2.9	67
174	Unpacking the nexus: Different spatial scales for water, food and energy. Global Environmental Change, 2018, 48, 22-31.	3.6	67
175	Will climate change affect ectoparasite species ranges?. Global Ecology and Biogeography, 2006, 15, 486-497.	2.7	66
176	Misrepresentation of the IPCC CO2 emission scenarios. Nature Geoscience, 2010, 3, 376-377.	5.4	66
177	The potential role of hydrogen in energy systems with and without climate policy. International Journal of Hydrogen Energy, 2007, 32, 1655-1672.	3.8	65
178	Downscaling socioeconomic and emissions scenarios for global environmental change research: a review. Wiley Interdisciplinary Reviews: Climate Change, 2010, 1, 393-404.	3.6	64
179	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
180	The impact of near-term climate policy choices on technology and emission transition pathways. Technological Forecasting and Social Change, 2015, 90, 73-88.	6.2	64

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181	Allocating planetary boundaries to large economies: Distributional consequences of alternative perspectives on distributive fairness. Global Environmental Change, 2020, 60, 102017.	3.6	64
182	Global projections for anthropogenic reactive nitrogen emissions to the atmosphere: an assessment of scenarios in the scientific literature. Current Opinion in Environmental Sustainability, 2011, 3, 359-369.	3.1	63
183	Long-term water demand for electricity, industry and households. Environmental Science and Policy, 2016, 55, 75-86.	2.4	63
184	Exploring IMAGE model scenarios that keep greenhouse gas radiative forcing below 3W/m2 in 2100. Energy Economics, 2010, 32, 1105-1120.	5.6	62
185	Energy demand and emissions of the non-energy sector. Energy and Environmental Science, 2014, 7, 482-498.	15.6	62
186	A protocol for an intercomparison of biodiversity and ecosystem services models using harmonized land-use and climate scenarios. Geoscientific Model Development, 2018, 11, 4537-4562.	1.3	61
187	Moving toward Net-Zero Emissions Requires New Alliances for Carbon Dioxide Removal. One Earth, 2020, 3, 145-149.	3.6	61
188	Critical adjustment of land mitigation pathways for assessing countriesâ€™ climate progress. Nature Climate Change, 2021, 11, 425-434.	8.1	61
189	Enhancing global climate policy ambition towards a 1.5â€‰Â°C stabilization: a short-term multi-model assessment. Environmental Research Letters, 2018, 13, 044039.	2.2	60
190	THE DISTRIBUTION OF THE MAJOR ECONOMIES' EFFORT IN THE DURBAN PLATFORM SCENARIOS. Climate Change Economics, 2013, 04, 1340009.	2.9	59
191	A physically-based model of long-term food demand. Global Environmental Change, 2017, 45, 47-62.	3.6	59
192	Towards an equitable global climate change regime: compatibility with Article 2 of the Climate Change Convention and the link with sustainable development. Climate Policy, 2002, 2, 211-230.	2.6	58
193	Comparison and interactions between the long-term pursuit of energy independence and climate policies. Nature Energy, 2016, 1, .	19.8	58
194	Peaking profiles for achieving long-term temperature targets with more likelihood at lower costs. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17931-17936.	3.3	57
195	Greenhouse gas emission curves for advanced biofuel supply chains. Nature Climate Change, 2017, 7, 920-924.	8.1	57
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