Detlef P. van Vuuren

List of Publications by Year
in descending order

406 papers	67,265 citations	1238 110 h-index	893 242 g-index
437 all docs	437 docs citations	437 times ranked	46698 citing authors

#	Article	IF	Citations
1	Improving material projections in Integrated Assessment Models: The use of a stock-based versus a flow-based approach for the iron and steel industry. Energy, 2022, 239, 122434.	8.8	8
2	Integrated assessment of the role of bioenergy within the EU energy transition targets to 2050. GCB Bioenergy, 2022, 14, 157-172.	5.6	13
3	The Belt and Road Initiative (BRI): What Will it Look Like in the Future?. Technological Forecasting and Social Change, 2022, 175, 121306.	11.6	24
4	Global implications of cropâ€based bioenergy with carbon capture and storage for terrestrial vertebrate biodiversity. GCB Bioenergy, 2022, 14, 307-321.	5.6	18
5	Can global models provide insights into regional mitigation strategies? A diagnostic model comparison study of bioenergy in Brazil. Climatic Change, 2022, 170, 1.	3.6	7
6	Efficiency improvement and technology choice for energy and emission reductions of the residential sector. Energy, 2022, 243, 122994.	8.8	18
7	Defining a sustainable development target space for 2030 and 2050. One Earth, 2022, 5, 142-156.	6.8	54
8	The contribution of bioenergy to the decarbonization of transport: a multi-model assessment. Climatic Change, 2022, 170, 1.	3.6	4
9	Climate change impacts on the energy system: a model comparison. Environmental Research Letters, 2022, 17, 034036.	5.2	3
10	Good practice policies to bridge the emissions gap in key countries. Global Environmental Change, 2022, 73, 102472.	7.8	18
11	Translating Global Integrated Assessment Model Output into Lifestyle Change Pathways at the Country and Household Level. Energies, 2022, 15, 1650.	3.1	7
12	Integration of future water scarcity and electricity supply into prospective LCA: Application to the assessment of water desalination for the steel industry. Journal of Industrial Ecology, 2022, 26, 1182-1194.	5.5	7
13	Quantifying synergies and trade-offs in the global water-land-food-climate nexus using a multi-model scenario approach. Environmental Research Letters, 2022, 17, 045004.	5.2	11
14	Using Decomposition Analysis to Determine the Main Contributing Factors to Carbon Neutrality across Sectors. Energies, 2022, 15, 132.	3.1	8
15	Navigating the political: An analysis of political calibration of integrated assessment modelling in light of the 1.5ÂÂ°C goal. Environmental Science and Policy, 2022, 133, 193-202.	4.9	35
16	Global biomass supply modeling for long-run management of the climate system. Climatic Change, 2022, 172, .	3.6	8
17	Using large ensembles of climate change mitigation scenarios for robust insights. Nature Climate Change, 2022, 12, 428-435.	18.8	28
18	Development of chemical emission scenarios using the Shared Socio-economic Pathways. Science of the Total Environment, 2022, 836, 155530.	8.0	5

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19	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. Environmental Science and Policy, 2022, 135, 104-116.	4.9	10
20	Scientific evidence on the political impact of the Sustainable Development Goals. Nature Sustainability, 2022, 5, 795-800.	23.7	121
21	IPCC emission scenarios: How did critiques affect their quality and relevance 1990â€“2022?. Global Environmental Change, 2022, 75, 102538.	7.8	20
22	Quantifying risks avoided by limiting global warming to 1.5 or 2ÂÂ°C above pre-industrial levels. Climatic Change, 2022, 172, .	3.6	11
23	Future global electricity demand load curves. Energy, 2022, 258, 124741.	8.8	20
24	Investment needs to achieve SDGs: An overview. , 2022, 1, e0000020.		8
25	An assessment of the performance of scenarios against historical global emissions for IPCC reports. Global Environmental Change, 2021, 66, 102199.	7.8	42
26	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.	5.1	72
27	Advancing a toolkit of diverse futures approaches for global environmental assessments. Ecosystems and People, 2021, 17, 191-204.	3.2	29
28	Ten new insights in climate science 2020 â€“ a horizon scan. Global Sustainability, 2021, 4, .	3.3	17
29	Air quality and health implications of 1.5 Â°Câ€“2 Â°C climate pathways under considerations of ageing population: a multi-model scenario analysis. Environmental Research Letters, 2021, 16, 045005.	5.2	19
30	Climate model projections from the Scenario Model Intercomparison ProjectÂ(ScenarioMIP) of CMIP6. Earth System Dynamics, 2021, 12, 253-293.	7.1	236
31	Assessing Chinaâ€™s efforts to pursue the 1.5Â°C warming limit. Science, 2021, 372, 378-385.	12.6	267
32	Identifying a Safe and Just Corridor for People and the Planet. Earth's Future, 2021, 9, e2020EF001866.	6.3	84
33	Critical adjustment of land mitigation pathways for assessing countriesâ€™ climate progress. Nature Climate Change, 2021, 11, 425-434.	18.8	61
34	Net-zero emission targets for major emitting countries consistent with the Paris Agreement. Nature Communications, 2021, 12, 2140.	12.8	233
35	Evaluating process-based integrated assessment models of climate change mitigation. Climatic Change, 2021, 166, 1.	3.6	33
36	On the optimality of 2Â°C targets and a decomposition of uncertainty. Nature Communications, 2021, 12, 2575.	12.8	14

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37	Integrated assessment model diagnostics: key indicators and model evolution. Environmental Research Letters, 2021, 16, 054046.	5.2	36
38	A framework for national scenarios with varying emission reductions. Nature Climate Change, 2021, 11, 472-480.	18.8	29
39	Regional variation in the effectiveness of methane-based and land-based climate mitigation options. Earth System Dynamics, 2021, 12, 513-544.	7.1	6
40	Energy system developments and investments in the decisive decade for the Paris Agreement goals. Environmental Research Letters, 2021, 16, 074020.	5.2	41
41	Costs of avoiding net negative emissions under a carbon budget. Environmental Research Letters, 2021, 16, 064071.	5.2	3
42	Trade-offs between water needs for food, utilities, and the environmentâ€"a nexus quantification at different scales. Environmental Research Letters, 2021, 16, 115003.	5.2	5
43	Transformative pathways â€" Using integrated assessment models more effectively to open up plausible and desirable low-carbon futures. Energy Research and Social Science, 2021, 80, 102220.	6.4	21
44	A race to zero - Assessing the position of heavy industry in a global net-zero CO2 emissions context. Energy and Climate Change, 2021, 2, 100051.	4.4	24
45	Global futures of trade impacting the challenge to decarbonize the international shipping sector. Energy, 2021, 237, 121547.	8.8	22
46	Decomposition analysis of per capita emissions: a tool for assessing consumption changes and technology changes within scenarios. Environmental Research Communications, 2021, 3, 015004.	2.3	11
47	Climate change impacts on renewable energy supply. Nature Climate Change, 2021, 11, 119-125.	18.8	218
48	Global and regional aggregate damages associated with global warming of 1.5 to 4ÂÂ°C above pre-industrial levels. Climatic Change, 2021, 168, 1.	3.6	16
49	Land-based implications of early climate actions without global net-negative emissions. Nature Sustainability, 2021, 4, 1052-1059.	23.7	27
50	Global roll-out of comprehensive policy measures may aid in bridging emissions gap. Nature Communications, 2021, 12, 6419.	12.8	37
51	Net zero-emission pathways reduce the physical and economic risks of climate change. Nature Climate Change, 2021, 11, 1070-1076.	18.8	39
52	Cost and attainability of meeting stringent climate targets without overshoot. Nature Climate Change, 2021, 11, 1063-1069.	18.8	102
53	The Impact of Socio-Economic Inertia and Restrictions on Net-Negative Emissions on Cost-Effective Carbon Price Pathways. Frontiers in Climate, 2021, 3, .	2.8	1
54	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.	3.6	112

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55	When the Background Matters: Using Scenarios from Integrated Assessment Models in Prospective Life Cycle Assessment. Journal of Industrial Ecology, 2020, 24, 64-79.	5.5	134
56	Actors, decision-making, and institutions in quantitative system modelling. Technological Forecasting and Social Change, 2020, 151, 119480.	11.6	26
57	Implications of various effort-sharing approaches for national carbon budgets and emission pathways. Climatic Change, 2020, 162, 1805-1822.	3.6	131
58	Taking some heat off the NDCs? The limited potential of additional short-lived climate forcersâ€™ mitigation. Climatic Change, 2020, 163, 1443-1461.	3.6	16
59	The role of methane in future climate strategies: mitigation potentials and climate impacts. Climatic Change, 2020, 163, 1409-1425.	3.6	39
60	Understanding transition pathways by bridging modelling, transition and practice-based studies: Editorial introduction to the special issue. Technological Forecasting and Social Change, 2020, 151, 119665.	11.6	25
61	Aligning integrated assessment modelling with socio-technical transition insights: An application to low-carbon energy scenario analysis in Europe. Technological Forecasting and Social Change, 2020, 151, 119177.	11.6	45
62	Modelling global material stocks and flows for residential and service sector buildings towards 2050. Journal of Cleaner Production, 2020, 245, 118658.	9.3	98
63	Biomass residues as twenty-first century bioenergy feedstockâ€”a comparison of eight integrated assessment models. Climatic Change, 2020, 163, 1569-1586.	3.6	38
64	Projecting terrestrial biodiversity intactness with GLOBIO 4. Global Change Biology, 2020, 26, 760-771.	9.5	94
65	Afforestation for climate change mitigation: Potentials, risks and tradeâ€offs. Global Change Biology, 2020, 26, 1576-1591.	9.5	162
66	Challenges in producing policy-relevant global scenarios of biodiversity and ecosystem services. Global Ecology and Conservation, 2020, 22, e00886.	2.1	17
67	From global to national scenarios: Bridging different models to explore power generation decarbonisation based on insights from socio-technical transition case studies. Technological Forecasting and Social Change, 2020, 151, 119882.	11.6	12
68	Allocating planetary boundaries to large economies: Distributional consequences of alternative perspectives on distributive fairness. Global Environmental Change, 2020, 60, 102017.	7.8	64
69	Application of experience curves and learning to other fields. , 2020, , 49-62.		0
70	Scenario analysis for promoting clean cooking in Sub-Saharan Africa: Costs and benefits. Energy, 2020, 192, 116641.	8.8	38
71	Developing multiscale and integrative natureâ€“people scenarios using the Nature Futures Framework. People and Nature, 2020, 2, 1172-1195.	3.7	127
72	Implications of climate change mitigation strategies on international bioenergy trade. Climatic Change, 2020, 163, 1639-1658.	3.6	32

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73	Achievements and needs for the climate change scenario framework. Nature Climate Change, 2020, 10, 1074-1084.	18.8	245
74	Co-designing global target-seeking scenarios: A cross-scale participatory process for capturing multiple perspectives on pathways to sustainability. Global Environmental Change, 2020, 65, 102198.	7.8	36
75	Impacts of climate change on energy systems in global and regional scenarios. Nature Energy, 2020, 5, 794-802.	39.5	180
76	Co-benefits of black carbon mitigation for climate and air quality. Climatic Change, 2020, 163, 1519-1538.	3.6	22
77	Impact of methane and black carbon mitigation on forcing and temperature: a multi-model scenario analysis. Climatic Change, 2020, 163, 1427-1442.	3.6	15
78	Anticipating futures through models: the rise of Integrated Assessment Modelling in the climate science-policy interface since 1970. Global Environmental Change, 2020, 65, 102191.	7.8	99
79	Variability in historical emissions trends suggests a need for a wide range of global scenarios and regional analyses. Communications Earth & Environment, 2020, 1, .	6.8	19
80	Integrated Climate-Change Assessment Scenarios and Carbon Dioxide Removal. One Earth, 2020, 3, 166-172.	6.8	16
81	Progress and barriers in understanding and preventing indirect landâ€use change. Biofuels, Bioproducts and Biorefining, 2020, 14, 924-934.	3.7	33
82	EMF-33 insights on bioenergy with carbon capture and storage (BECCS). Climatic Change, 2020, 163, 1621-1637.	3.6	30
83	The climate change mitigation potential of bioenergy with carbon capture and storage. Nature Climate Change, 2020, 10, 1023-1029.	18.8	149
84	Improving Climate Change Mitigation Analysis: A Framework for Examining Feasibility. One Earth, 2020, 3, 325-336.	6.8	48
85	Bioenergy technologies in long-run climate change mitigation: results from the EMF-33 study. Climatic Change, 2020, 163, 1603-1620.	3.6	31
86	Bending the curve of terrestrial biodiversity needs an integrated strategy. Nature, 2020, 585, 551-556.	27.8	413
87	Comparing transformation pathways across major economies. Climatic Change, 2020, 162, 1787-1803.	3.6	27
88	Guidelines for Modeling and Reporting Health Effects of Climate Change Mitigation Actions. Environmental Health Perspectives, 2020, 128, 115001.	6.0	40
89	The Energy Modeling Forum (EMF)-30 study on short-lived climate forcers: introduction and overview. Climatic Change, 2020, 163, 1399-1408.	3.6	4
90	An overview of the Energy Modeling Forum 33rd study: assessing large-scale global bioenergy deployment for managing climate change. Climatic Change, 2020, 163, 1539-1551.	3.6	5

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91	Moving toward Net-Zero Emissions Requires New Alliances for Carbon Dioxide Removal. One Earth, 2020, 3, 145-149.	6.8	61
92	Taking stock of national climate policies to evaluate implementation of the Paris Agreement. Nature Communications, 2020, 11, 2096.	12.8	241
93	Actors and governance in the transition toward universal electricity access in Sub-Saharan Africa. Energy Policy, 2020, 143, 111572.	8.8	23
94	The costs of achieving climate targets and the sources of uncertainty. Nature Climate Change, 2020, 10, 329-334.	18.8	48
95	Assessment of Sectoral Greenhouse Gas Emission Reduction Potentials for 2030. Energies, 2020, 13, 943.	3.1	17
96	Global resource potential of seasonal pumped hydropower storage for energy and water storage. Nature Communications, 2020, 11, 947.	12.8	121
97	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.	2.3	28
98	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.	7.1	394
99	Life cycle environmental and cost comparison of current and future passenger cars under different energy scenarios. Applied Energy, 2020, 269, 115021.	10.1	114
100	The role of residential rooftop photovoltaic in long-term energy and climate scenarios. Applied Energy, 2020, 279, 115705.	10.1	50
101	Reply to: Why fossil fuel producer subsidies matter. Nature, 2020, 578, E5-E7.	27.8	3
102	Mapping the yields of lignocellulosic bioenergy crops from observations at the global scale. Earth System Science Data, 2020, 12, 789-804.	9.9	26
103	Harmonization of global land use change and management for the period 850â€“2100 (LUH2) for CMIP6. Geoscientific Model Development, 2020, 13, 5425-5464.	3.6	408
104	Integrating energy access, efficiency and renewable energy policies in sub-Saharan Africa: a model-based analysis. Environmental Research Letters, 2020, 15, 125010.	5.2	10
105	The role of the discount rate for emission pathways and negative emissions. Environmental Research Letters, 2019, 14, 104008.	5.2	80
106	Drivers of declining CO2 emissions in 18 developed economies. Nature Climate Change, 2019, 9, 213-217.	18.8	307
107	Integrated Solutions for the Water-Energy-Land Nexus: Are Global Models Rising to the Challenge?. Water (Switzerland), 2019, 11, 2223.	2.7	24
108	Not all carbon dioxide emission scenarios are equally likely: a subjective expert assessment. Climatic Change, 2019, 155, 545-561.	3.6	30

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109	Data for long-term marginal abatement cost curves of non-CO2 greenhouse gases. Data in Brief, 2019, 25, 104334.	1.0	6
110	Reconciling global sustainability targets and local action for food production and climate change mitigation. Global Environmental Change, 2019, 59, 101983.	7.8	36
111	Shared socio-economic pathways extended for the Baltic Sea: exploring long-term environmental problems. Regional Environmental Change, 2019, 19, 1073-1086.	2.9	42
112	First forcing estimates from the future CMIP6 scenarios of anthropogenic aerosol optical properties and an associated Twomey effect. Geoscientific Model Development, 2019, 12, 989-1007.	3.6	27
113	Future impacts of environmental factors on achieving the SDG target on child mortalityâ€"A synergistic assessment. Global Environmental Change, 2019, 57, 101925.	7.8	34
114	Long-term marginal abatement cost curves of non-CO2 greenhouse gases. Environmental Science and Policy, 2019, 99, 136-149.	4.9	40
115	A multi-model assessment of food security implications of climate change mitigation. Nature Sustainability, 2019, 2, 386-396.	23.7	152
116	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.	3.6	496
117	The scope for better industry representation in long-term energy models: Modeling the cement industry. Applied Energy, 2019, 240, 964-985.	10.1	56
118	Modeling forest plantations for carbon uptake with the LPJmL dynamic global vegetation model. Earth System Dynamics, 2019, 10, 617-630.	7.1	22
119	Improved modelling of lifestyle changes in Integrated Assessment Models: Cross-disciplinary insights from methodologies and theories. Energy Strategy Reviews, 2019, 26, 100420.	7.3	41
120	Environmental co-benefits and adverse side-effects of alternative power sector decarbonization strategies. Nature Communications, 2019, 10, 5229.	12.8	188
121	Societal Transformations in Models for Energy and Climate Policy: The Ambitious Next Step. One Earth, 2019, 1, 423-433.	6.8	113
122	Analysing interactions among Sustainable Development Goals with Integrated Assessment Models. Global Transitions, 2019, 1, 210-225.	4.1	126
123	Integrated scenarios to support analysis of the foodâ€"energyâ€"water nexus. Nature Sustainability, 2019, 2, 1132-1141.	23.7	79
124	Strong time dependence of ocean acidification mitigation by atmospheric carbon dioxide removal. Nature Communications, 2019, 10, 5592.	12.8	19
125	Looking under the hood: A comparison of techno-economic assumptions across national and global integrated assessment models. Energy, 2019, 172, 1254-1267.	8.8	107
126	Integrated assessment of biomass supply and demand in climate change mitigation scenarios. Global Environmental Change, 2019, 54, 88-101.	7.8	151

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127	National contributions to climate change mitigation from agriculture: allocating a global target. Climate Policy, 2018, 18, 1271-1285.	5.1	23
128	Scenarios towards limiting global mean temperature increase below 1.5 Â°C. Nature Climate Change, 2018, 8, 325-332.	18.8	795
129	Enhancing global climate policy ambition towards a 1.5â€‰Â°C stabilization: a short-term multi-model assessment. Environmental Research Letters, 2018, 13, 044039.	5.2	60
130	Comparing future patterns of energy system change in 2â€¯Â°C scenarios to expert projections. Global Environmental Change, 2018, 50, 201-211.	7.8	25
131	Alternative pathways to the 1.5â€‰Â°C target reduce the need for negative emission technologies. Nature Climate Change, 2018, 8, 391-397.	18.8	455
132	Biogeophysical Impacts of Landâ€Use Change on Climate Extremes in Lowâ€Emission Scenarios: Results From HAPPIâ€Land. Earth's Future, 2018, 6, 396-409.	6.3	31
133	Limited emission reductions from fuel subsidy removal except in energy-exporting regions. Nature, 2018, 554, 229-233.	27.8	125
134	Trade-offs and synergies between universal electricity access and climate change mitigation in Sub-Saharan Africa. Energy Policy, 2018, 114, 355-366.	8.8	56
135	Unpacking the nexus: Different spatial scales for water, food and energy. Global Environmental Change, 2018, 48, 22-31.	7.8	67
136	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.	7.8	202
137	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.	3.4	84
138	Scenarios for Demand Growth of Metals in Electricity Generation Technologies, Cars, and Electronic Appliances. Environmental Science & Technology, 2018, 52, 4950-4959.	10.0	137
139	Uncertain Environmental Footprint of Current and Future Battery Electric Vehicles. Environmental Science & Technology, 2018, 52, 4989-4995.	10.0	117
140	Pathways for agriculture and forestry to contribute to terrestrial biodiversity conservation: A global scenario-study. Biological Conservation, 2018, 221, 137-150.	4.1	72
141	Integrated assessment of international climate mitigation commitments outside the UNFCCC. Global Environmental Change, 2018, 48, 67-75.	7.8	36
142	Interactions between social learning and technological learning in electric vehicle futures. Environmental Research Letters, 2018, 13, 124004.	5.2	27
143	Resource nexus perspectives towards the United Nations Sustainable Development Goals. Nature Sustainability, 2018, 1, 737-743.	23.7	236
144	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.	3.6	61

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145	Transport electrification: the effect of recent battery cost reduction on future emission scenarios. Climatic Change, 2018, 151, 95-108.	3.6	27
146	Interactions between climate change mitigation and adaptation: The case of hydropower in Brazil. Energy, 2018, 164, 1161-1177.	8.8	45
147	Evaluating the use of biomass energy with carbon capture and storage in low emission scenarios. Environmental Research Letters, 2018, 13, 044014.	5.2	81
148	A methodology and implementation of automated emissions harmonization for use in Integrated Assessment Models. Environmental Modelling and Software, 2018, 105, 187-200.	4.5	32
149	Signal detection in global mean temperatures after â€œParisâ€: an uncertainty and sensitivity analysis. Climate of the Past, 2018, 14, 139-155.	3.4	7
150	AÂframework for modelling the complexities of food and water security under globalisation. Earth System Dynamics, 2018, 9, 103-118.	7.1	29
151	A Global Analysis of Future Water Deficit Based On Different Allocation Mechanisms. Water Resources Research, 2018, 54, 5803-5824.	4.2	42
152	Land-use emissions play a critical role in land-based mitigation for Paris climate targets. Nature Communications, 2018, 9, 2938.	12.8	194
153	Climate extremes, landâ€“climate feedbacks and land-use forcing at 1.5Â°C. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20160450.	3.4	46
154	Residual fossil CO2 emissions in 1.5â€“2â€‰Â°C pathways. Nature Climate Change, 2018, 8, 626-633.	18.8	380
155	Interaction of consumer preferences and climate policies in the global transition to low-carbon vehicles. Nature Energy, 2018, 3, 664-673.	39.5	122
156	Reducing global GHG emissions by replicating successful sector examples: the â€˜good practice policiesâ€™ scenario. Climate Policy, 2018, 18, 1103-1113.	5.1	22
157	Energy investment needs for fulfilling the Paris Agreement and achieving the Sustainable Development Goals. Nature Energy, 2018, 3, 589-599.	39.5	377
158	The roads ahead: Narratives for shared socioeconomic pathways describing world futures in the 21st century. Global Environmental Change, 2017, 42, 169-180.	7.8	1,656
159	Representation of variable renewable energy sources in TIMER, an aggregated energy system simulation model. Energy Economics, 2017, 64, 600-611.	12.1	41
160	Sensitivity of projected long-term CO2 emissions across the Shared Socioeconomic Pathways. Nature Climate Change, 2017, 7, 113-117.	18.8	85
161	Pathways for balancing CO2 emissions and sinks. Nature Communications, 2017, 8, 14856.	12.8	122
162	Low-emission pathways in 11 major economies: comparison of cost-optimal pathways and Paris climate proposals. Climatic Change, 2017, 142, 491-504.	3.6	41

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163	A physically-based model of long-term food demand. Global Environmental Change, 2017, 45, 47-62.	7.8	59
164	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.	4.9	96
165	Low-carbon strategies towards 2050: Comparing ex-ante policy evaluation studies and national planning processes in Europe. Environmental Science and Policy, 2017, 78, 89-96.	4.9	15
166	High-resolution assessment of global technical and economic hydropower potential. Nature Energy, 2017, 2, 821-828.	39.5	186
167	Multiscale scenarios for nature futures. Nature Ecology and Evolution, 2017, 1, 1416-1419.	7.8	131
168	The role of decentralized systems in providing universal electricity access in Sub-Saharan Africa â€“ A model-based approach. Energy, 2017, 139, 184-195.	8.8	74
169	Early action on Paris Agreement allows for more time to change energy systems. Climatic Change, 2017, 144, 165-179.	3.6	27
170	Assessing inter-sectoral climate change risks: the role of ISIMIP. Environmental Research Letters, 2017, 12, 010301.	5.2	49
171	Open discussion of negative emissions is urgently needed. Nature Energy, 2017, 2, 902-904.	39.5	94
172	Greenhouse gas emission curves for advanced biofuel supply chains. Nature Climate Change, 2017, 7, 920-924.	18.8	57
173	Land-use futures in the shared socio-economic pathways. Global Environmental Change, 2017, 42, 331-345.	7.8	645
174	Future air pollution in the Shared Socio-economic Pathways. Global Environmental Change, 2017, 42, 346-358.	7.8	277
175	Shared Socio-Economic Pathways of the Energy Sector â€“ Quantifying the Narratives. Global Environmental Change, 2017, 42, 316-330.	7.8	247
176	Energy, land-use and greenhouse gas emissions trajectories under a green growth paradigm. Global Environmental Change, 2017, 42, 237-250.	7.8	523
177	The Shared Socioeconomic Pathways and their energy, land use, and greenhouse gas emissions implications: An overview. Global Environmental Change, 2017, 42, 153-168.	7.8	2,966
178	Modeling the Effects of Future Growing Demand for Charcoal in the Tropics. Frontiers in Environmental Science, 2017, 5, .	3.3	15
179	Alleviating inequality in climate policy costs: an integrated perspective on mitigation, damage and adaptation. Environmental Research Letters, 2016, 11, 074015.	5.2	17
180	The Scenario Model Intercomparison Project (ScenarioMIP) for CMIP6. Geoscientific Model Development, 2016, 9, 3461-3482.	3.6	2,084

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181	Research priorities for negative emissions. Environmental Research Letters, 2016, 11, 115007.	5.2	138
182	Simulating the Earth system response to negative emissions. Environmental Research Letters, 2016, 11, 095012.	5.2	98
183	Carbon budgets and energy transition pathways. Environmental Research Letters, 2016, 11, 075002.	5.2	53
184	Projections of the availability and cost of residues from agriculture and forestry. GCB Bioenergy, 2016, 8, 456-470.	5.6	127
185	How climate metrics affect global mitigation strategies and costs: a multi-model study. Climatic Change, 2016, 136, 203-216.	3.6	9
186	Bridging analytical approaches for low-carbon transitions. Nature Climate Change, 2016, 6, 576-583.	18.8	294
187	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.	7.8	213
188	Future aerosol emissions: a multi-model comparison. Climatic Change, 2016, 138, 13-24.	3.6	6
189	Socio-economic impacts of low-carbon power generation portfolios: Strategies with and without CCS for the Netherlands. Applied Energy, 2016, 183, 257-277.	10.1	21
190	Projecting Global Biodiversity Indicators under Future Development Scenarios. Conservation Letters, 2016, 9, 5-13.	5.7	182
191	Comparison and interactions between the long-term pursuit of energy independence and climate policies. Nature Energy, 2016, 1, .	39.5	58
192	Assessing the land resourceâ€"food price nexus of the Sustainable Development Goals. Science Advances, 2016, 2, e1501499.	10.3	162
193	A multi-model assessment of the co-benefits of climate mitigation for global air quality. Environmental Research Letters, 2016, 11, 124013.	5.2	72
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