

Detlef P. van Vuuren

List of Publications by Citations

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401
papers

46,410
citations

94
h-index

209
g-index

436
ext. papers

56,537
ext. citations

9.5
avg, IF

7.53
L-index

#	Paper	IF	Citations
401	The representative concentration pathways: an overview. <i>Climatic Change</i> , 2011 , 109, 5-31	4.5	4540
400	The next generation of scenarios for climate change research and assessment. <i>Nature</i> , 2010 , 463, 747-56	50.4	4304
399	The RCP greenhouse gas concentrations and their extensions from 1765 to 2300. <i>Climatic Change</i> , 2011 , 109, 213-241	4.5	2343
398	Historical (1850-2000) gridded anthropogenic and biomass burning emissions of reactive gases and aerosols: methodology and application. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 7017-7039	6.8	1724
397	The Shared Socioeconomic Pathways and their energy, land use, and greenhouse gas emissions implications: An overview. <i>Global Environmental Change</i> , 2017 , 42, 153-168	10.1	1479
396	A new scenario framework for climate change research: the concept of shared socioeconomic pathways. <i>Climatic Change</i> , 2014 , 122, 387-400	4.5	1160
395	The roads ahead: Narratives for shared socioeconomic pathways describing world futures in the 21st century. <i>Global Environmental Change</i> , 2017 , 42, 169-180	10.1	963
394	Harmonization of land-use scenarios for the period 1500-100: 600 years of global gridded annual land-use transitions, wood harvest, and resulting secondary lands. <i>Climatic Change</i> , 2011 , 109, 117-161	4.5	883
393	The Scenario Model Intercomparison Project (ScenarioMIP) for CMIP6. <i>Geoscientific Model Development</i> , 2016 , 9, 3461-3482	6.3	814
392	Biophysical and economic limits to negative CO2 emissions. <i>Nature Climate Change</i> , 2016 , 6, 42-50	21.4	684
391	Modeling global residential sector energy demand for heating and air conditioning in the context of climate change. <i>Energy Policy</i> , 2009 , 37, 507-521	7.2	646
390	Evolution of anthropogenic and biomass burning emissions of air pollutants at global and regional scales during the 1980-2010 period. <i>Climatic Change</i> , 2011 , 109, 163-190	4.5	623
389	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
388	Exploring global changes in nitrogen and phosphorus cycles in agriculture induced by livestock production over the 1900-2050 period. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 20882-7	11.5	545
387	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
386	Climate benefits of changing diet. <i>Climatic Change</i> , 2009 , 95, 83-102	4.5	532
385	Indicators for energy security. <i>Energy Policy</i> , 2009 , 37, 2166-2181	7.2	522

384	Persistent growth of CO2 emissions and implications for reaching climate targets. <i>Nature Geoscience</i> , 2014 , 7, 709-715	18.3	487
383	Scenarios towards limiting global mean temperature increase below 1.5 °C. <i>Nature Climate Change</i> , 2018 , 8, 325-332	21.4	456
382	Global drivers of future river flood risk. <i>Nature Climate Change</i> , 2016 , 6, 381-385	21.4	430
381	Land-use futures in the shared socio-economic pathways. <i>Global Environmental Change</i> , 2017 , 42, 331-345	10.1	399
380	Phosphorus demand for the 1970-2100 period: A scenario analysis of resource depletion. <i>Global Environmental Change</i> , 2010 , 20, 428-439	10.1	395
379	A new scenario framework for Climate Change Research: scenario matrix architecture. <i>Climatic Change</i> , 2014 , 122, 373-386	4.5	371
378	Global and regional evolution of short-lived radiatively-active gases and aerosols in the Representative Concentration Pathways. <i>Climatic Change</i> , 2011 , 109, 191-212	4.5	334
377	Scenarios of freshwater fish extinctions from climate change and water withdrawal. <i>Global Change Biology</i> , 2005 , 11, 1557-1564	11.4	329
376	Energy, land-use and greenhouse gas emissions trajectories under a green growth paradigm. <i>Global Environmental Change</i> , 2017 , 42, 237-250	10.1	326
375	Competition for land. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010 , 365, 2941-57	5.8	304
374	Renewable energy sources: Their global potential for the first-half of the 21st century at a global level: An integrated approach. <i>Energy Policy</i> , 2007 , 35, 2590-2610	7.2	301
373	Alternative pathways to the 1.5 °C target reduce the need for negative emission technologies. <i>Nature Climate Change</i> , 2018 , 8, 391-397	21.4	293
372	The role of technology for achieving climate policy objectives: overview of the EMF 27 study on global technology and climate policy strategies. <i>Climatic Change</i> , 2014 , 123, 353-367	4.5	284
371	Evaluating sustainability transitions pathways: Bridging analytical approaches to address governance challenges. <i>Global Environmental Change</i> , 2015 , 35, 239-253	10.1	281
370	A Global Analysis of Acidification and Eutrophication of Terrestrial Ecosystems. <i>Water, Air, and Soil Pollution</i> , 2002 , 141, 349-382	2.6	266
369	Emission pathways consistent with a 2 °C global temperature limit. <i>Nature Climate Change</i> , 2011 , 1, 413-418	11.4	234
368	Sharing a quota on cumulative carbon emissions. <i>Nature Climate Change</i> , 2014 , 4, 873-879	21.4	231
367	Global emissions pathways under different socioeconomic scenarios for use in CMIP6: a dataset of harmonized emissions trajectories through the end of the century. <i>Geoscientific Model Development</i> , 2019 , 12, 1443-1475	6.3	224

366	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
365	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
364	Residual fossil CO ₂ emissions in 1.5°C pathways. <i>Nature Climate Change</i> , 2018 , 8, 626-633	21.4	219
363	Bridging analytical approaches for low-carbon transitions. <i>Nature Climate Change</i> , 2016 , 6, 576-583	21.4	218
362	Energy investment needs for fulfilling the Paris Agreement and achieving the Sustainable Development Goals. <i>Nature Energy</i> , 2018 , 3, 589-599	62.3	207
361	Energy and environment. Transport: A roadblock to climate change mitigation?. <i>Science</i> , 2015 , 350, 911-933	33.3	203
360	Reducing emissions from agriculture to meet the 2°C target. <i>Global Change Biology</i> , 2016 , 22, 3859-3864	11.4	203
359	Bioenergy revisited: Key factors in global potentials of bioenergy. <i>Energy and Environmental Science</i> , 2010 , 3, 258	35.4	203
358	Scenarios in Global Environmental Assessments: Key characteristics and lessons for future use. <i>Global Environmental Change</i> , 2012 , 22, 884-895	10.1	198
357	Differences between carbon budget estimates unravelled. <i>Nature Climate Change</i> , 2016 , 6, 245-252	21.4	183
356	A proposal for a new scenario framework to support research and assessment in different climate research communities. <i>Global Environmental Change</i> , 2012 , 22, 21-35	10.1	182
355	Downscaling drivers of global environmental change: Enabling use of global SRES scenarios at the national and grid levels. <i>Global Environmental Change</i> , 2007 , 17, 114-130	10.1	178
354	Climate and socio-economic scenarios for climate change research and assessment: reconciling the new with the old. <i>Climatic Change</i> , 2014 , 122, 415-429	4.5	177
353	Social tipping dynamics for stabilizing Earth's climate by 2050. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 2354-2365	11.5	175
352	Future air pollution in the Shared Socio-economic Pathways. <i>Global Environmental Change</i> , 2017 , 42, 346-358	10.1	175
351	A new scenario framework for climate change research: the concept of shared climate policy assumptions. <i>Climatic Change</i> , 2014 , 122, 401-414	4.5	170
350	Shared Socio-Economic Pathways of the Energy Sector [Quantifying the Narratives. <i>Global Environmental Change</i> , 2017 , 42, 316-330	10.1	165
349	Drivers of declining CO ₂ emissions in 18 developed economies. <i>Nature Climate Change</i> , 2019 , 9, 213-217	21.4	164

348	Model projections for household energy use in developing countries. <i>Energy</i> , 2012 , 37, 601-615	7.9	157
347	A special issue on the RCPs. <i>Climatic Change</i> , 2011 , 109, 1-4	4.5	150
346	Bending the curve of terrestrial biodiversity needs an integrated strategy. <i>Nature</i> , 2020 , 585, 551-556	50.4	149
345	The Economics of Low Stabilization: Model Comparison of Mitigation Strategies and Costs. <i>Energy Journal</i> , 2010 , 31,	3.5	145
344	From Planetary Boundaries to national fair shares of the global safe operating space [How can the scales be bridged?]. <i>Global Environmental Change</i> , 2016 , 40, 60-72	10.1	144
343	Harmonization of global land use change and management for the period 850-100 (LUH2) for CMIP6. <i>Geoscientific Model Development</i> , 2020 , 13, 5425-5464	6.3	143
342	Long-term model-based projections of energy use and CO2 emissions from the global steel and cement industries. <i>Resources, Conservation and Recycling</i> , 2016 , 112, 15-36	11.9	141
341	Bioenergy in energy transformation and climate management. <i>Climatic Change</i> , 2014 , 123, 477-493	4.5	138
340	Contribution of N2O to the greenhouse gas balance of first-generation biofuels. <i>Global Change Biology</i> , 2009 , 15, 1-23	11.4	137
339	Impacts of future land cover changes on atmospheric CO2 and climate. <i>Global Biogeochemical Cycles</i> , 2005 , 19, n/a-n/a	5.9	135
338	Post-2020 climate agreements in the major economies assessed in the light of global models. <i>Nature Climate Change</i> , 2015 , 5, 119-126	21.4	132
337	Indirect land use change: review of existing models and strategies for mitigation. <i>Biofuels</i> , 2012 , 3, 87-100		132
336	The role of negative CO2 emissions for reaching 2 °C [Insights from integrated assessment modelling. <i>Climatic Change</i> , 2013 , 118, 15-27	4.5	131
335	Future bio-energy potential under various natural constraints. <i>Energy Policy</i> , 2009 , 37, 4220-4230	7.2	131
334	Projecting Global Biodiversity Indicators under Future Development Scenarios. <i>Conservation Letters</i> , 2016 , 9, 5-13	6.9	128
333	A new scenario framework for climate change research: background, process, and future directions. <i>Climatic Change</i> , 2014 , 122, 363-372	4.5	126
332	The implications of climate policy for the impacts of climate change on global water resources. <i>Global Environmental Change</i> , 2011 , 21, 592-603	10.1	126
331	Exploring SSP land-use dynamics using the IMAGE model: Regional and gridded scenarios of land-use change and land-based climate change mitigation. <i>Global Environmental Change</i> , 2018 , 48, 119-135	10.1	125

330	Resource nexus perspectives towards the United Nations Sustainable Development Goals. <i>Nature Sustainability</i> , 2018 , 1, 737-743	22.1	125
329	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
328	Land-use transition for bioenergy and climate stabilization: model comparison of drivers, impacts and interactions with other land use based mitigation options. <i>Climatic Change</i> , 2014 , 123, 495-509	4.5	119
327	Comparison of top-down and bottom-up estimates of sectoral and regional greenhouse gas emission reduction potentials. <i>Energy Policy</i> , 2009 , 37, 5125-5139	7.2	117
326	Ecological footprints of Benin, Bhutan, Costa Rica and the Netherlands. <i>Ecological Economics</i> , 2000 , 34, 115-130	5.6	117
325	Assessing the land resource-food price nexus of the Sustainable Development Goals. <i>Science Advances</i> , 2016 , 2, e1501499	14.3	116
324	Long-term reduction potential of non-CO2 greenhouse gases. <i>Environmental Science and Policy</i> , 2007 , 10, 85-103	6.2	114
323	Climate policy through changing consumption choices: Options and obstacles for reducing greenhouse gas emissions. <i>Global Environmental Change</i> , 2014 , 25, 5-15	10.1	112
322	Making or breaking climate targets: The AMPERE study on staged accession scenarios for climate policy. <i>Technological Forecasting and Social Change</i> , 2015 , 90, 24-44	9.5	109
321	Changes in Nature's Balance Sheet: Model-based Estimates of Future Worldwide Ecosystem Services. <i>Ecology and Society</i> , 2005 , 10,	4.1	109
320	Taking stock of national climate policies to evaluate implementation of the Paris Agreement. <i>Nature Communications</i> , 2020 , 11, 2096	17.4	108
319	How well do integrated assessment models simulate climate change?. <i>Climatic Change</i> , 2011 , 104, 255-285	11.5	108
318	Exploring the ancillary benefits of the Kyoto Protocol for air pollution in Europe. <i>Energy Policy</i> , 2006 , 34, 444-460	7.2	106
317	Pathways to achieve a set of ambitious global sustainability objectives by 2050: Explorations using the IMAGE integrated assessment model. <i>Technological Forecasting and Social Change</i> , 2015 , 98, 303-323	9.5	104
316	Long-term perspectives on world metal use – system-dynamics model. <i>Resources Policy</i> , 1999 , 25, 239-255	5.2	102
315	Model projections for household energy use in India. <i>Energy Policy</i> , 2011 , 39, 7747-7761	7.2	101
314	Land-use emissions play a critical role in land-based mitigation for Paris climate targets. <i>Nature Communications</i> , 2018 , 9, 2938	17.4	99
313	High-resolution assessment of global technical and economic hydropower potential. <i>Nature Energy</i> , 2017 , 2, 821-828	62.3	99

312	Environmental co-benefits and adverse side-effects of alternative power sector decarbonization strategies. <i>Nature Communications</i> , 2019 , 10, 5229	17.4	97
311	Pathways to achieve universal household access to modern energy by 2030. <i>Environmental Research Letters</i> , 2013 , 8, 024015	6.2	96
310	Projections of the availability and cost of residues from agriculture and forestry. <i>GCB Bioenergy</i> , 2016 , 8, 456-470	5.6	96
309	Research priorities for negative emissions. <i>Environmental Research Letters</i> , 2016 , 11, 115007	6.2	95
308	Integrated assessment of biomass supply and demand in climate change mitigation scenarios. <i>Global Environmental Change</i> , 2019 , 54, 88-101	10.1	93
307	The Future of Vascular Plant Diversity Under Four Global Scenarios. <i>Ecology and Society</i> , 2006 , 11,	4.1	91
306	Multiscale scenarios for nature futures. <i>Nature Ecology and Evolution</i> , 2017 , 1, 1416-1419	12.3	90
305	Impact of future land use and land cover changes on atmospheric chemistry-climate interactions. <i>Journal of Geophysical Research</i> , 2010 , 115,		90
304	WHAT DOES THE 2°C TARGET IMPLY FOR A GLOBAL CLIMATE AGREEMENT IN 2020? THE LIMITS STUDY ON DURBAN PLATFORM SCENARIOS. <i>Climate Change Economics</i> , 2013 , 04, 1340008	0.9	89
303	Multi-gas scenarios to stabilize radiative forcing. <i>Energy Economics</i> , 2006 , 28, 102-120	8.3	88
302	Multi-gas Emissions Pathways to Meet Climate Targets. <i>Climatic Change</i> , 2006 , 75, 151-194	4.5	86
301	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
300	Modeling Energy and Development: An Evaluation of Models and Concepts. <i>World Development</i> , 2008 , 36, 2801-2821	5.5	82
299	Diagnostic indicators for integrated assessment models of climate policy. <i>Technological Forecasting and Social Change</i> , 2015 , 90, 45-61	9.5	81
298	Scenarios for Demand Growth of Metals in Electricity Generation Technologies, Cars, and Electronic Appliances. <i>Environmental Science & Technology</i> , 2018 , 52, 4950-4959	10.3	80
297	An evaluation of the global potential of bioenergy production on degraded lands. <i>GCB Bioenergy</i> , 2012 , 4, 130-147	5.6	80
296	Oil and natural gas prices and greenhouse gas emission mitigation. <i>Energy Policy</i> , 2009 , 37, 4797-4808	7.2	79
295	Achievements and needs for the climate change scenario framework. <i>Nature Climate Change</i> , 2020 , 1-11	21.4	79

294	Uncertain Environmental Footprint of Current and Future Battery Electric Vehicles. <i>Environmental Science & Technology</i> , 2018 , 52, 4989-4995	10.3	74
293	The relationship between short-term emissions and long-term concentration targets. <i>Climatic Change</i> , 2011 , 104, 793-801	4.5	74
292	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
291	Land-based mitigation in climate stabilization. <i>Energy Economics</i> , 2012 , 34, 365-380	8.3	73
290	Adaptation in integrated assessment modeling: where do we stand?. <i>Climatic Change</i> , 2010 , 99, 383-402	4.5	73
289	Pathways for balancing CO emissions and sinks. <i>Nature Communications</i> , 2017 , 8, 14856	17.4	72
288	The use of scenarios as the basis for combined assessment of climate change mitigation and adaptation. <i>Global Environmental Change</i> , 2011 , 21, 575-591	10.1	72
287	A multi-model assessment of food security implications of climate change mitigation. <i>Nature Sustainability</i> , 2019 , 2, 386-396	22.1	71
286	Integrating Global Climate Change Mitigation Goals with Other Sustainability Objectives: A Synthesis. <i>Annual Review of Environment and Resources</i> , 2015 , 40, 363-394	17.2	71
285	Scenarios of biodiversity loss in southern Africa in the 21st century. <i>Global Environmental Change</i> , 2008 , 18, 296-309	10.1	71
284	Assessing current and future techno-economic potential of concentrated solar power and photovoltaic electricity generation. <i>Energy</i> , 2015 , 89, 739-756	7.9	70
283	Energy and emission scenarios for China in the 21st century—exploration of baseline development and mitigation options. <i>Energy Policy</i> , 2003 , 31, 369-387	7.2	70
282	Afforestation for climate change mitigation: Potentials, risks and trade-offs. <i>Global Change Biology</i> , 2020 , 26, 1576-1591	11.4	70
281	Interaction of consumer preferences and climate policies in the global transition to low-carbon vehicles. <i>Nature Energy</i> , 2018 , 3, 664-673	62.3	69
280	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
279	Assessing China's efforts to pursue the 1.5°C warming limit. <i>Science</i> , 2021 , 372, 378-385	33.3	69
278	Simulating the Earth system response to negative emissions. <i>Environmental Research Letters</i> , 2016 , 11, 095012	6.2	69
277	Climate change under aggressive mitigation: the ENSEMBLES multi-model experiment. <i>Climate Dynamics</i> , 2011 , 37, 1975-2003	4.2	68

276	Model-based scenarios for rural electrification in developing countries. <i>Energy</i> , 2012 , 38, 386-397	7.9	67
275	Exploring past and future changes in the ecological footprint for world regions. <i>Ecological Economics</i> , 2005 , 52, 43-62	5.6	67
274	Global energy sector emission reductions and bioenergy use: overview of the bioenergy demand phase of the EMF-33 model comparison. <i>Climatic Change</i> , 2018 , 163, 1553	4.5	67
273	Limited emission reductions from fuel subsidy removal except in energy-exporting regions. <i>Nature</i> , 2018 , 554, 229-233	50.4	66
272	Global travel within the 2°C climate target. <i>Energy Policy</i> , 2012 , 45, 152-166	7.2	66
271	Abatement costs of post-Kyoto climate regimes. <i>Energy Policy</i> , 2005 , 33, 2138-2151	7.2	66
270	Uncertainty in Carbon Capture and Storage (CCS) deployment projections: a cross-model comparison exercise. <i>Climatic Change</i> , 2014 , 123, 461-476	4.5	65
269	Research priorities in land use and land-cover change for the Earth system and integrated assessment modelling. <i>International Journal of Climatology</i> , 2010 , 30, 2118-2128	3.5	65
268	Analysing interactions among Sustainable Development Goals with Integrated Assessment Models. <i>Global Transitions</i> , 2019 , 1, 210-225	8.4	65
267	Implications of various effort-sharing approaches for national carbon budgets and emission pathways. <i>Climatic Change</i> , 2020 , 162, 1805-1822	4.5	64
266	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
265	Looking under the hood: A comparison of techno-economic assumptions across national and global integrated assessment models. <i>Energy</i> , 2019 , 172, 1254-1267	7.9	62
264	The Consistency of IPCC's SRES Scenarios to 1990-2000 Trends and Recent Projections. <i>Climatic Change</i> , 2006 , 75, 9-46	4.5	61
263	Climate model projections from the Scenario Model Intercomparison Project (ScenarioMIP) of CMIP6. <i>Earth System Dynamics</i> , 2021 , 12, 253-293	4.8	60
262	CO ₂ emission mitigation and fossil fuel markets: Dynamic and international aspects of climate policies. <i>Technological Forecasting and Social Change</i> , 2015 , 90, 243-256	9.5	58
261	Understanding the contribution of non-carbon dioxide gases in deep mitigation scenarios. <i>Global Environmental Change</i> , 2015 , 33, 142-153	10.1	57
260	A multi-model assessment of the co-benefits of climate mitigation for global air quality. <i>Environmental Research Letters</i> , 2016 , 11, 124013	6.2	57
259	An energy vision: the transformation towards sustainability Interconnected challenges and solutions. <i>Current Opinion in Environmental Sustainability</i> , 2012 , 4, 18-34	7.2	57

258	The effects of adaptation and mitigation on coastal flood impacts during the 21st century. An application of the DIVA and IMAGE models. <i>Climatic Change</i> , 2013 , 117, 783-794	4.5	57
257	Misrepresentation of the IPCC CO2 emission scenarios. <i>Nature Geoscience</i> , 2010 , 3, 376-377	18.3	57
256	A comprehensive view on climate change: coupling of earth system and integrated assessment models. <i>Environmental Research Letters</i> , 2012 , 7, 024012	6.2	57
255	Impacts of climate change on energy systems in global and regional scenarios. <i>Nature Energy</i> , 2020 , 5, 794-802	62.3	57
254	Will climate change affect ectoparasite species ranges?. <i>Global Ecology and Biogeography</i> , 2006 , 15, 486-497	6.2	56
253	Net-zero emission targets for major emitting countries consistent with the Paris Agreement. <i>Nature Communications</i> , 2021 , 12, 2140	17.4	56
252	Modelling global material stocks and flows for residential and service sector buildings towards 2050. <i>Journal of Cleaner Production</i> , 2020 , 245, 118658	10.3	56
251	Aligning corporate greenhouse-gas emissions targets with climate goals. <i>Nature Climate Change</i> , 2015 , 5, 1057-1060	21.4	55
250	BEYOND 2020 STRATEGIES AND COSTS FOR TRANSFORMING THE EUROPEAN ENERGY SYSTEM. <i>Climate Change Economics</i> , 2013 , 04, 1340001	0.9	55
249	Life cycle environmental and cost comparison of current and future passenger cars under different energy scenarios. <i>Applied Energy</i> , 2020 , 269, 115021	10.7	54
248	Mapping the climate change challenge. <i>Nature Climate Change</i> , 2016 , 6, 663-668	21.4	54
247	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
246	Evaluating the use of biomass energy with carbon capture and storage in low emission scenarios. <i>Environmental Research Letters</i> , 2018 , 13, 044014	6.2	54
245	The role of decentralized systems in providing universal electricity access in Sub-Saharan Africa: A model-based approach. <i>Energy</i> , 2017 , 139, 184-195	7.9	53
244	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
243	The climate change mitigation potential of bioenergy with carbon capture and storage. <i>Nature Climate Change</i> , 2020 , 10, 1023-1029	21.4	53
242	When the Background Matters: Using Scenarios from Integrated Assessment Models in Prospective Life Cycle Assessment. <i>Journal of Industrial Ecology</i> , 2020 , 24, 64-79	7.2	53
241	Long-term water demand for electricity, industry and households. <i>Environmental Science and Policy</i> , 2016 , 55, 75-86	6.2	52

240	Sensitivity of projected long-term CO2 emissions across the Shared Socioeconomic Pathways. <i>Nature Climate Change</i> , 2017 , 7, 113-117	21.4	52
239	Global projections for anthropogenic reactive nitrogen emissions to the atmosphere: an assessment of scenarios in the scientific literature. <i>Current Opinion in Environmental Sustainability</i> , 2011 , 3, 359-369	7.2	52
238	The potential role of hydrogen in energy systems with and without climate policy. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 1655-1672	6.7	52
237	Societal Transformations in Models for Energy and Climate Policy: The Ambitious Next Step. <i>One Earth</i> , 2019 , 1, 423-433	8.1	52
236	Exploring the implications of lifestyle change in 2 °C mitigation scenarios using the IMAGE integrated assessment model. <i>Technological Forecasting and Social Change</i> , 2016 , 102, 309-319	9.5	51
235	THE DISTRIBUTION OF THE MAJOR ECONOMIES' EFFORT IN THE DURBAN PLATFORM SCENARIOS. <i>Climate Change Economics</i> , 2013 , 04, 1340009	0.9	51
234	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
233	Global resource potential of seasonal pumped hydropower storage for energy and water storage. <i>Nature Communications</i> , 2020 , 11, 947	17.4	50
232	Unpacking the nexus: Different spatial scales for water, food and energy. <i>Global Environmental Change</i> , 2018 , 48, 22-31	10.1	50
231	Pathways limiting warming to 1.5°C: a tale of turning around in no time?. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376,	3	50
230	The impact of near-term climate policy choices on technology and emission transition pathways. <i>Technological Forecasting and Social Change</i> , 2015 , 90, 73-88	9.5	49
229	Pathways for agriculture and forestry to contribute to terrestrial biodiversity conservation: A global scenario-study. <i>Biological Conservation</i> , 2018 , 221, 137-150	6.2	49
228	Global impacts of surface ozone changes on crop yields and land use. <i>Atmospheric Environment</i> , 2015 , 106, 11-23	5.3	49
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