Keywan Riahi

List of Publications by Year in Descending Order

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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.

198	37,400 citations	72	193
papers		h-index	g-index
230 ext. papers	45,337 ext. citations	12.7 avg, IF	7.09 L-index

#	Paper	IF	Citations
198	Defining a sustainable development target space for 2030 and 2050. <i>One Earth</i> , 2022 , 5, 142-156	8.1	1
197	Greenhouse gas emissions from global cities under SSP/RCP scenarios, 1990 to 2100. <i>Global Environmental Change</i> , 2022 , 73, 102478	10.1	7
196	Lift Energy Storage Technology: A solution for decentralized urban energy storage. <i>Energy</i> , 2022 , 12410	0 2 .9	2
195	Using large ensembles of climate change mitigation scenarios for robust insights. <i>Nature Climate Change</i> , 2022 , 12, 428-435	21.4	1
194	Role of energy storage in energy and water security in Central Asia. <i>Journal of Energy Storage</i> , 2022 , 50, 104587	7.8	1
193	Balancing smart irrigation and hydropower investments for sustainable water conservation in the Indus basin. <i>Environmental Science and Policy</i> , 2022 , 135, 147-161	6.2	0
192	Global roll-out of comprehensive policy measures may aid in bridging emissions gap. <i>Nature Communications</i> , 2021 , 12, 6419	17.4	6
191	Net zero-emission pathways reduce the physical and economic risks of climate change. <i>Nature Climate Change</i> , 2021 , 11, 1070-1076	21.4	2
190	Cost and attainability of meeting stringent climate targets without overshoot. <i>Nature Climate Change</i> , 2021 , 11, 1063-1069	21.4	11
189	Climate model projections from the Scenario Model Intercomparison Project[(ScenarioMIP) of CMIP6. <i>Earth System Dynamics</i> , 2021 , 12, 253-293	4.8	60
188	Accounting for finance is key for climate mitigation pathways. <i>Science</i> , 2021 , 372, 918-920	33.3	16
187	A framework for national scenarios with varying emission reductions. <i>Nature Climate Change</i> , 2021 , 11, 472-480	21.4	10
186	Energy system developments and investments in the decisive decade for the Paris Agreement goals. <i>Environmental Research Letters</i> , 2021 , 16, 074020	6.2	11
185	A multidimensional feasibility evaluation of low-carbon scenarios. <i>Environmental Research Letters</i> , 2021 , 16, 064069	6.2	8
184	Climate-Land-Energy-Water Nexus Models Across Scales: Progress, Gaps and Best Accessibility Practices. <i>Frontiers in Environmental Science</i> , 2021 , 9,	4.8	3
183	Transboundary cooperation a potential route to sustainable development in the Indus basin. <i>Nature Sustainability</i> , 2021 , 4, 331-339	22.1	17
182	Decent living gaps and energy needs around the world. <i>Environmental Research Letters</i> , 2021 , 16, 09500)6 .2	4

(2019-2020)

181	Taking stock of national climate policies to evaluate implementation of the Paris Agreement. <i>Nature Communications</i> , 2020 , 11, 2096	17.4	108	
180	The NExus Solutions Tool (NEST) v1.0: an open platform for optimizing multi-scale energy water and system transformations. <i>Geoscientific Model Development</i> , 2020 , 13, 1095-1121	6.3	19	
179	Global resource potential of seasonal pumped hydropower storage for energy and water storage. <i>Nature Communications</i> , 2020 , 11, 947	17.4	50	
178	Decarbonization pathways and energy investment needs for developing Asia in line with Well below IPIC. Climate Policy, 2020 , 20, 234-245	5.3	9	
177	Harmonization of global land use change and management for the period 850\(\bar{Q}\)100 (LUH2) for CMIP6. Geoscientific Model Development, 2020, 13, 5425-5464	6.3	143	
176	Reply to: Why fossil fuel producer subsidies matter. <i>Nature</i> , 2020 , 578, E5-E7	50.4	2	
175	Mountain Gravity Energy Storage: A new solution for closing the gap between existing short- and long-term storage technologies. <i>Energy</i> , 2020 , 190, 116419	7.9	26	
174	Achievements and needs for the climate change scenario framework. <i>Nature Climate Change</i> , 2020 , 1-1	1 21.4	79	
173	Impact of methane and black carbon mitigation on forcing and temperature: a multi-model scenario analysis. <i>Climatic Change</i> , 2020 , 163, 1427-1442	4.5	6	
172	Integrated Climate-Change Assessment Scenarios and Carbon Dioxide Removal. <i>One Earth</i> , 2020 , 3, 166	5- 8.7 12	2	
171	Comparing transformation pathways across major economies. <i>Climatic Change</i> , 2020 , 162, 1787-1803	4.5	16	
170	Taking some heat off the NDCs? The limited potential of additional short-lived climate forcers mitigation. <i>Climatic Change</i> , 2020 , 163, 1443-1461	4.5	8	
169	Harmonization of Global Land-Use Change and Management for the Period 850 2 100 (LUH2) for CMIP6 2020 ,		15	
168	Integrated Solutions for the Water-Energy-Land Nexus: Are Global Models Rising to the Challenge?. <i>Water (Switzerland)</i> , 2019 , 11, 2223	3	14	
167	A new scenario logic for the Paris Agreement long-term temperature goal. <i>Nature</i> , 2019 , 573, 357-363	50.4	153	
166	First forcing estimates from the future CMIP6 scenarios of anthropogenic aerosol optical properties and an associated Twomey effect. <i>Geoscientific Model Development</i> , 2019 , 12, 989-1007	6.3	18	
165	Air Quality Improvement Co-benefits of Low-Carbon Pathways toward Well Below the 2 LC Climate Target in China. <i>Environmental Science & Environmental </i>	10.3	40	
164	A multi-model assessment of food security implications of climate change mitigation. <i>Nature Sustainability</i> , 2019 , 2, 386-396	22.1	71	

163	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
162	A comparison of low carbon investment needs between China and Europe in stringent climate policy scenarios. <i>Environmental Research Letters</i> , 2019 , 14, 054017	6.2	12
161	Income inequality projections for the Shared Socioeconomic Pathways (SSPs). Futures, 2019 , 105, 27-39	3.6	28
160	The Nexus Solutions Tool (NEST): An open platform for optimizing multi-scale energy-water-land system transformations 2019 ,		3
159	Co-designing Indus Water-Energy-Land Futures. One Earth, 2019 , 1, 185-194	8.1	24
158	Analysing interactions among Sustainable Development Goals with Integrated Assessment Models. <i>Global Transitions</i> , 2019 , 1, 210-225	8.4	65
157	Balancing clean water-climate change mitigation trade-offs. <i>Environmental Research Letters</i> , 2019 , 14, 014009	6.2	29
156	The MESSAGE Integrated Assessment Model and the ix modeling platform (ixmp): An open framework for integrated and cross-cutting analysis of energy, climate, the environment, and sustainable development. <i>Environmental Modelling and Software</i> , 2019 , 112, 143-156	5.2	64
155	Scenarios towards limiting global mean temperature increase below 1.5 LC. <i>Nature Climate Change</i> , 2018 , 8, 325-332	21.4	456
154	Connecting the sustainable development goals by their energy inter-linkages. <i>Environmental Research Letters</i> , 2018 , 13, 033006	6.2	168
153	Limited emission reductions from fuel subsidy removal except in energy-exporting regions. <i>Nature</i> , 2018 , 554, 229-233	50.4	66
152	Climate extremes, land-climate feedbacks and land-use forcing at 1.5°C. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376,	3	38
151	Residual fossil CO2 emissions in 1.50 CC pathways. <i>Nature Climate Change</i> , 2018 , 8, 626-633	21.4	219
150	Inclusive climate change mitigation and food security policy under 1.5 LC climate goal. <i>Environmental Research Letters</i> , 2018 , 13, 074033	6.2	26
149	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
148	Comparison between seasonal pumped-storage and conventional reservoir dams from the water, energy and land nexus perspective. <i>Energy Conversion and Management</i> , 2018 , 166, 385-401	10.6	42
147	A low energy demand scenario for meeting the 1.5 LC target and sustainable development goals without negative emission technologies. <i>Nature Energy</i> , 2018 , 3, 515-527	62.3	428
146	Quantifying the potential for reservoirs to secure future surface water yields in the world largest river basins. <i>Environmental Research Letters</i> , 2018 , 13, 044026	6.2	14

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145	Global exposure and vulnerability to multi-sector development and climate change hotspots. <i>Environmental Research Letters</i> , 2018 , 13, 055012	6.2	100
144	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
143	Global emissions pathways under different socioeconomic scenarios for use in CMIP6: a dataset of harmonized emissions trajectories through the end of the century 2018 ,		5
142	A Continental-Scale Hydroeconomic Model for Integrating Water-Energy-Land Nexus Solutions. <i>Water Resources Research</i> , 2018 , 54, 7511-7533	5.4	34
141	A methodology and implementation of automated emissions harmonization for use in Integrated Assessment Models. <i>Environmental Modelling and Software</i> , 2018 , 105, 187-200	5.2	23
140	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
139	Improving the behavioral realism of global integrated assessment models: An application to consumers Dehicle choices. <i>Transportation Research, Part D: Transport and Environment</i> , 2017 , 55, 322-34	4 2 ·4	97
138	Pathways for balancing CO emissions and sinks. <i>Nature Communications</i> , 2017 , 8, 14856	17.4	72
137	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
136	Understanding the origin of Paris Agreement emission uncertainties. <i>Nature Communications</i> , 2017 , 8, 15748	17.4	63
135	Improving poverty and inequality modelling in climate research. Nature Climate Change, 2017, 7, 857-86	21.4	50
134	Land-use futures in the shared socio-economic pathways. <i>Global Environmental Change</i> , 2017 , 42, 331-3	45 0.1	399
133	Future air pollution in the Shared Socio-economic Pathways. <i>Global Environmental Change</i> , 2017 , 42, 346-358	10.1	175
132	The marker quantification of the Shared Socioeconomic Pathway 2: A middle-of-the-road scenario for the 21st century. <i>Global Environmental Change</i> , 2017 , 42, 251-267	10.1	349
131	Shared Socio-Economic Pathways of the Energy Sector Quantifying the Narratives. <i>Global Environmental Change</i> , 2017 , 42, 316-330	10.1	165
130	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
129	Assessing the Feasibility of Global Long-Term Mitigation Scenarios. <i>Energies</i> , 2017 , 10, 89	3.1	37
128	Policy trade-offs between climate mitigation and clean cook-stove access in South Asia. <i>Nature Energy</i> , 2016 , 1,	62.3	56

127	Comparison and interactions between the long-term pursuit of energy independence and climate policies. <i>Nature Energy</i> , 2016 , 1,	62.3	36
126	Quantifying uncertainties influencing the long-term impacts of oil prices on energy markets and carbon emissions. <i>Nature Energy</i> , 2016 , 1,	62.3	29
125	Assessing the land resource-food price nexus of the Sustainable Development Goals. <i>Science Advances</i> , 2016 , 2, e1501499	14.3	116
124	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
123	Mapping the climate change challenge. <i>Nature Climate Change</i> , 2016 , 6, 663-668	21.4	54
122	Paris Agreement climate proposals need a boost to keep warming well below 2 LC. <i>Nature</i> , 2016 , 534, 631-9	50.4	1652
121	Differences between carbon budget estimates unravelled. <i>Nature Climate Change</i> , 2016 , 6, 245-252	21.4	183
120	Power-generation system vulnerability and adaptation to changes in climate and water resources. <i>Nature Climate Change</i> , 2016 , 6, 375-380	21.4	333
119	The Vulnerability, Impacts, Adaptation, and Climate Services (VIACS) Advisory Board for CMIP6 2016 ,		2
118	The Vulnerability, Impacts, Adaptation and Climate Services Advisory Board (VIACS AB v1.0) contribution to CMIP6. <i>Geoscientific Model Development</i> , 2016 , 9, 3493-3515	6.3	28
117	The Scenario Model Intercomparison Project (ScenarioMIP) for CMIP6. <i>Geoscientific Model Development</i> , 2016 , 9, 3461-3482	6.3	814
116	The Scenario Model Intercomparison Project (ScenarioMIP) for CMIP6 2016,		18
115	2 LC and SDGs: united they stand, divided they fall?. <i>Environmental Research Letters</i> , 2016 , 11, 034022	6.2	99
114	Energy sector water use implications of a 2 LC climate policy. <i>Environmental Research Letters</i> , 2016 , 11, 034011	6.2	58
113	Carbon budgets and energy transition pathways. Environmental Research Letters, 2016, 11, 075002	6.2	39
112	Climate and human development impacts on municipal water demand: A spatially-explicit global modeling framework. <i>Environmental Modelling and Software</i> , 2016 , 85, 266-278	5.2	21
111	Future aerosol emissions: a multi-model comparison. <i>Climatic Change</i> , 2016 , 138, 13-24	4.5	5
110	Long history of IAM comparisons. <i>Nature Climate Change</i> , 2015 , 5, 391-391	21.4	9

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109	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
108	A short note on integrated assessment modeling approaches: Rejoinder to the review of Making or breaking climate targets I The AMPERE study on staged accession scenarios for climate policy Technological Forecasting and Social Change, 2015, 99, 273-276	9.5	10
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 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
105	Carbon lock-in through capital stock inertia associated with weak near-term climate policies. <i>Technological Forecasting and Social Change</i> , 2015 , 90, 62-72	9.5	107
104	Mid- and long-term climate projections for fragmented and delayed-action scenarios. <i>Technological Forecasting and Social Change</i> , 2015 , 90, 257-268	9.5	33
103	Stranded on a low-carbon planet: Implications of climate policy for the phase-out of coal-based power plants. <i>Technological Forecasting and Social Change</i> , 2015 , 90, 89-102	9.5	93
102	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
101	Impact of short-lived non-CO 2 mitigation on carbon budgets for stabilizing global warming. <i>Environmental Research Letters</i> , 2015 , 10, 075001	6.2	44
100	Mitigation choices impact carbon budget size compatible with low temperature goals. <i>Environmental Research Letters</i> , 2015 , 10, 075003	6.2	23
99	Energy system transformations for limiting end-of-century warming to below 1.5 °C. <i>Nature Climate Change</i> , 2015 , 5, 519-527	21.4	541
98	Comparing future patterns of energy system change in 2 LC scenarios with historically observed rates of change. <i>Global Environmental Change</i> , 2015 , 35, 436-449	10.1	29
97	Zero emission targets as long-term global goals for climate protection. <i>Environmental Research Letters</i> , 2015 , 10, 105007	6.2	136
96	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
95	Energy security under de-carbonization scenarios: An assessment framework and evaluation under different technology and policy choices. <i>Energy Policy</i> , 2014 , 65, 743-760	7.2	125
94	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
93	A new scenario framework for Climate Change Research: scenario matrix architecture. <i>Climatic Change</i> , 2014 , 122, 373-386	4.5	371
92	A new scenario framework for climate change research: background, process, and future directions. <i>Climatic Change</i> , 2014 , 122, 363-372	4.5	126

91	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
90	Transport electrification: A key element for energy system transformation and climate stabilization. <i>Climatic Change</i> , 2014 , 123, 651-664	4.5	66
89	Non-Kyoto radiative forcing in long-run greenhouse gas emissions and climate change scenarios. <i>Climatic Change</i> , 2014 , 123, 511-525	4.5	16
88	Fossil resource and energy security dynamics in conventional and carbon-constrained worlds. <i>Climatic Change</i> , 2014 , 123, 413-426	4.5	99
87	Limited impact on decadal-scale climate change from increased use of natural gas. <i>Nature</i> , 2014 , 514, 482-5	50.4	151
86	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
85	Air-pollution emission ranges consistent with the representative concentration pathways. <i>Nature Climate Change</i> , 2014 , 4, 446-450	21.4	41
84	Household cooking with solid fuels contributes to ambient PM2.5 air pollution and the burden of disease. <i>Environmental Health Perspectives</i> , 2014 , 122, 1314-20	8.4	299
83	A hybrid modelling approach to develop scenarios for China's carbon dioxide emissions to 2050. Energy Policy, 2013 , 59, 614-632	7.2	31
82	Climate policies can help resolve energy security and air pollution challenges. <i>Climatic Change</i> , 2013 , 119, 479-494	4.5	105
81	Better air for better health: Forging synergies in policies for energy access, climate change and air pollution. <i>Global Environmental Change</i> , 2013 , 23, 1122-1130	10.1	79
80	Future capacity growth of energy technologies: are scenarios consistent with historical evidence?. <i>Climatic Change</i> , 2013 , 118, 381-395	4.5	83
79	Probabilistic cost estimates for climate change mitigation. <i>Nature</i> , 2013 , 493, 79-83	50.4	207
78	2020 emissions levels required to limit warming to below 2 LC. <i>Nature Climate Change</i> , 2013 , 3, 405-412	21.4	132
77	The effect of financial constraints on energy-climate scenarios. <i>Energy Policy</i> , 2013 , 59, 562-572	7.2	20
76	Impacts of considering electric sector variability and reliability in the MESSAGE model. <i>Energy Strategy Reviews</i> , 2013 , 1, 157-163	9.8	68
75	Future nuclear perspectives based on MESSAGE integrated assessment modeling. <i>Energy Strategy Reviews</i> , 2013 , 1, 223-232	9.8	13
74	Implications of alternative metrics for global mitigation costs and greenhouse gas emissions from agriculture. <i>Climatic Change</i> , 2013 , 117, 677-690	4.5	46

(2011-2013)

73	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
72	INTRODUCING THE LIMITS SPECIAL ISSUE. Climate Change Economics, 2013, 04, 1302002	0.9	9
71	THE DISTRIBUTION OF THE MAJOR ECONOMIES' EFFORT IN THE DURBAN PLATFORM SCENARIOS. <i>Climate Change Economics</i> , 2013 , 04, 1340009	0.9	51
70	ENERGY INVESTMENTS UNDER CLIMATE POLICY: A COMPARISON OF GLOBAL MODELS. <i>Climate Change Economics</i> , 2013 , 04, 1340010	0.9	50
69	Pathways to achieve universal household access to modern energy by 2030. <i>Environmental Research Letters</i> , 2013 , 8, 024015	6.2	96
68	The UN's 'Sustainable Energy for All' initiative is compatible with a warming limit of 2 LC. <i>Nature Climate Change</i> , 2013 , 3, 545-551	21.4	45
67	Risk Hedging Strategies Under Energy System and Climate Policy Uncertainties. <i>Profiles in Operations Research</i> , 2013 , 435-474	1	3
66	Land-based mitigation in climate stabilization. <i>Energy Economics</i> , 2012 , 34, 365-380	8.3	73
65	National GHG emissions reduction pledges and 2°C: comparison of studies. Climate Policy, 2012, 12, 356	5-3.757	22
64	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
63	Beyond Rio: Sustainable energy scenarios for the 21st century. <i>Natural Resources Forum</i> , 2012 , 36, 215-	2 <u>3.0</u>	4
62	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
61	Synergies in the Asian energy system: Climate change, energy security, energy access and air pollution. <i>Energy Economics</i> , 2012 , 34, S470-S480	8.3	44
60	Environmental Modeling and Methods for Estimation of the Global Health Impacts of Air Pollution. <i>Environmental Modeling and Assessment</i> , 2012 , 17, 613-622	2	51
59	Demography's role in sustainable development. <i>Science</i> , 2012 , 335, 918	33.3	8
58	The relationship between short-term emissions and long-term concentration targets. <i>Climatic Change</i> , 2011 , 104, 793-801	4.5	74
57	The representative concentration pathways: an overview. Climatic Change, 2011, 109, 5-31	4.5	4540
56	RCP 8.5A scenario of comparatively high greenhouse gas emissions. <i>Climatic Change</i> , 2011 , 109, 33-57	4.5	1707

55	Harmonization of land-use scenarios for the period 1500\(\textit{1}\)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
54	Evolution of anthropogenic and biomass burning emissions of air pollutants at global and regional scales during the 1980\(\mathbb{Q}\)010 period. Climatic Change, 2011, 109, 163-190	4.5	623
53	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
52	The RCP greenhouse gas concentrations and their extensions from 1765 to 2300. <i>Climatic Change</i> , 2011 , 109, 213-241	4.5	2343
51	A special issue on the RCPs. Climatic Change, 2011, 109, 1-4	4.5	150
50	Emission pathways consistent with a 2 LC global temperature limit. <i>Nature Climate Change</i> , 2011 , 1, 413	-4184	234
49	The next generation of scenarios for climate change research and assessment. <i>Nature</i> , 2010 , 463, 747-5	i 6 50.4	4304
48	Misrepresentation of the IPCC CO2 emission scenarios. <i>Nature Geoscience</i> , 2010 , 3, 376-377	18.3	57
47	Mitigation implications of midcentury targets that preserve long-term climate policy options. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 1011-6	11.5	51
46	What do near-term observations tell us about long-term developments in greenhouse gas emissions?. <i>Climatic Change</i> , 2010 , 103, 635-642	4.5	18
45	Do governments have the right mix in their energy R&D portfolios?. Carbon Management, 2010, 1, 79-87	7 3.3	17
44	Historical (1850 1 000) 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
43	The feasibility of low CO2 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
42	Determinants of household energy consumption in India. <i>Energy Policy</i> , 2010 , 38, 5696-5707	7.2	171
41	Downscaling socioeconomic and emissions scenarios for global environmental change research: a review. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2010 , 1, 393-404	8.4	49
40	Gas hydrates: entrance to a methane age or climate threat?. <i>Environmental Research Letters</i> , 2009 , 4, 034007	6.2	60
39	Methanol production by gasification using a geographically explicit model. <i>Biomass and Bioenergy</i> , 2009 , 33, 745-751	5.3	52
38	Implications of delayed participation and technology failure for the feasibility, costs, and likelihood of staying below temperature targets reenhouse gas mitigation scenarios for the 21st century.	8.3	57

(2004-2009)

37	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
36	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
35	Long-term performance targets for nuclear energy. Part 2: Markets and learning rates. <i>International Journal of Global Energy Issues</i> , 2008 , 30, 77	0.3	5
34	Long-term performance targets for nuclear energy. Part 1: The global scenario context. <i>International Journal of Global Energy Issues</i> , 2008 , 30, 28	0.3	3
33	Internalizing externalities of electricity generation: An analysis with MESSAGE-MACRO. <i>Energy Policy</i> , 2007 , 35, 815-827	7.2	67
32	Regional, national, and spatially explicit scenarios of demographic and economic change based on SRES. <i>Technological Forecasting and Social Change</i> , 2007 , 74, 980-1029	9.5	126
31	Probabilistic temperature change projections and energy system implications of greenhouse gas emission scenarios. <i>Technological Forecasting and Social Change</i> , 2007 , 74, 936-961	9.5	14
30	Scenarios of long-term socio-economic and environmental development under climate stabilization. <i>Technological Forecasting and Social Change</i> , 2007 , 74, 887-935	9.5	771
29	Integrated assessment of uncertainties in greenhouse gas emissions and their mitigation: Introduction and overview. <i>Technological Forecasting and Social Change</i> , 2007 , 74, 873-886	9.5	28
28	Assessment of emissions scenarios revisited. Environmental Economics and Policy Studies, 2006, 7, 137-	17232	42
27	Global Supply of Biomass for Energy and Carbon Sequestration from Afforestation/Reforestation Activities. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2006 , 11, 1003-1021	3.9	15
26	The Role of Non-CO2 Greenhouse Gases in Climate Change Mitigation: Long-term Scenarios for the 21st Century. <i>Energy Journal</i> , 2006 , SI2006,	3.5	20
25	Importance of Technological Change and Spillovers in Long-Term Climate Policy. <i>Energy Journal</i> , 2006 , SI2006,	3.5	2
24	Long-term scenarios for black and organic carbon emissions. <i>Journal of Integrative Environmental Sciences</i> , 2005 , 2, 205-216		11
23	Towards fossil-based electricity systems with integrated CO2 capture: Implications of an illustrative long-term technology policy 2005 , 921-929		10
22	Technological learning for carbon capture and sequestration technologies. <i>Energy Economics</i> , 2004 , 26, 539-564	8.3	97
21	Prospects for carbon capture and sequestration technologies assuming their technological learning. <i>Energy</i> , 2004 , 29, 1309-1318	7.9	60

19	Achieving a Sustainable Global Energy System 2004 ,		7
18	Greenhouse Gas Emissions, Alternative Scenarios of 2004 , 67-76		
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