

Veronika Eyring

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128
papers

14,838
citations

51
h-index

121
g-index

166
ext. papers

18,550
ext. citations

7.4
avg, IF

6.09
L-index

#	Paper	IF	Citations
128	Overview of the Coupled Model Intercomparison Project Phase 6 (CMIP6) experimental design and organization. <i>Geoscientific Model Development</i> , 2016 , 9, 1937-1958	6.3	2373
127	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
126	The Scenario Model Intercomparison Project (ScenarioMIP) for CMIP6. <i>Geoscientific Model Development</i> , 2016 , 9, 3461-3482	6.3	814
125	Mortality from ship emissions: a global assessment. <i>Environmental Science & Technology</i> , 2007 , 41, 8512-8	10.3	671
124	Transport impacts on atmosphere and climate: Shipping. <i>Atmospheric Environment</i> , 2010 , 44, 4735-4771	5.3	549
123	Pre-industrial to end 21st century projections of tropospheric ozone from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 2063-2090	6.8	420
122	Emissions from international shipping: 1. The last 50 years. <i>Journal of Geophysical Research</i> , 2005 , 110,		388
121	Assessment of temperature, trace species, and ozone in chemistry-climate model simulations of the recent past. <i>Journal of Geophysical Research</i> , 2006 , 111,		374
120	Global air quality and climate. <i>Chemical Society Reviews</i> , 2012 , 41, 6663-83	58.5	334
119	The Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP): overview and description of models, simulations and climate diagnostics. <i>Geoscientific Model Development</i> , 2013 , 6, 179-206	6.3	304
118	Global premature mortality due to anthropogenic outdoor air pollution and the contribution of past climate change. <i>Environmental Research Letters</i> , 2013 , 8, 034005	6.2	279
117	Tropospheric ozone changes, radiative forcing and attribution to emissions in the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 3063-3085	6.8	273
116	Multimodel projections of stratospheric ozone in the 21st century. <i>Journal of Geophysical Research</i> , 2007 , 112,		266
115	Evaluation of Climate Models		264
114	Chemistry-Climate Model Simulations of Twenty-First Century Stratospheric Climate and Circulation Changes. <i>Journal of Climate</i> , 2010 , 23, 5349-5374	4.4	242
113	Impact of stratospheric ozone on Southern Hemisphere circulation change: A multimodel assessment. <i>Journal of Geophysical Research</i> , 2010 , 115,		239
112	Preindustrial to present-day changes in tropospheric hydroxyl radical and methane lifetime from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 5277-5298	6.8	234

111	Ozone database in support of CMIP5 simulations: results and corresponding radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 11267-11292	6.8	221
110	Analysis of present day and future OH and methane lifetime in the ACCMIP simulations. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 2563-2587	6.8	209
109	Atmospheric composition change: ClimateChemistry interactions. <i>Atmospheric Environment</i> , 2009 , 43, 5138-5192	5.3	206
108	Long-term ozone changes and associated climate impacts in CMIP5 simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 5029-5060	4.4	200
107	Taking climate model evaluation to the next level. <i>Nature Climate Change</i> , 2019 , 9, 102-110	21.4	200
106	Multi-model assessment of stratospheric ozone return dates and ozone recovery in CCMVal-2 models. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 9451-9472	6.8	179
105	Emissions from international shipping: 2. Impact of future technologies on scenarios until 2050. <i>Journal of Geophysical Research</i> , 2005 , 110,		176
104	Global model simulations of the impact of ocean-going ships on aerosols, clouds, and the radiation budget. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 5061-5079	6.8	169
103	Context for interpreting equilibrium climate sensitivity and transient climate response from the CMIP6 Earth system models. <i>Science Advances</i> , 2020 , 6, eaba1981	14.3	142
102	Mitigating the health impacts of pollution from oceangoing shipping: an assessment of low-sulfur fuel mandates. <i>Environmental Science & Technology</i> , 2009 , 43, 4776-82	10.3	137
101	A climate model projection weighting scheme accounting for performance and interdependence. <i>Geophysical Research Letters</i> , 2017 , 44, 1909	4.9	135
100	Review of the formulation of present-generation stratospheric chemistry-climate models and associated external forcings. <i>Journal of Geophysical Research</i> , 2010 , 115,		134
99	Multimodel climate and variability of the stratosphere. <i>Journal of Geophysical Research</i> , 2011 , 116,		122
98	AerChemMIP: quantifying the effects of chemistry and aerosols in CMIP6. <i>Geoscientific Model Development</i> , 2017 , 10, 585-607	6.3	119
97	A Strategy for Process-Oriented Validation of Coupled ChemistryClimate Models. <i>Bulletin of the American Meteorological Society</i> , 2005 , 86, 1117-1134	6.1	118
96	Satellite measurements of NO ₂ from international shipping emissions. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	117
95	CMIP5 Scientific Gaps and Recommendations for CMIP6. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 95-105	6.1	109
94	Multi-model simulations of the impact of international shipping on Atmospheric Chemistry and Climate in 2000 and 2030. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 757-780	6.8	104

93	Climate Model Intercomparisons: Preparing for the Next Phase. <i>Eos</i> , 2014 , 95, 77-78	1.5	100
92	Projected land photosynthesis constrained by changes in the seasonal cycle of atmospheric CO ₂ . <i>Nature</i> , 2016 , 538, 499-501	50.4	99
91	Long-term changes and variability in a transient simulation with a chemistry-climate model employing realistic forcing. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 2121-2145	6.8	95
90	ESMValTool (v1.0) – a community diagnostic and performance metrics tool for routine evaluation of Earth system models in CMIP. <i>Geoscientific Model Development</i> , 2016 , 9, 1747-1802	6.3	93
89	Emergent constraints on climate-carbon cycle feedbacks in the CMIP5 Earth system models. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 794-807	3.7	91
88	Shipping emissions: From cooling to warming of climate-and reducing impacts on health. <i>Environmental Science & Technology</i> , 2009 , 43, 9057-62	10.3	89
87	Quantitative performance metrics for stratospheric-resolving chemistry-climate models. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 5699-5713	6.8	81
86	Present-day and future global bottom-up ship emission inventories including polar routes. <i>Environmental Science & Technology</i> , 2010 , 44, 1333-9	10.3	69
85	The effect of future ambient air pollution on human premature mortality to 2100 using output from the ACCMIP model ensemble. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 9847-9862	6.8	65
84	The Tropical Tropopause Layer 1960–2100. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 1621-1637	6.8	65
83	Decline and recovery of total column ozone using a multimodel time series analysis. <i>Journal of Geophysical Research</i> , 2010 , 115,		64
82	Overview of the Coupled Model Intercomparison Project Phase 6 (CMIP6) experimental design and organisation		63
81	Projections of UV radiation changes in the 21st century: impact of ozone recovery and cloud effects. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 7533-7545	6.8	61
80	Climate model projections from the Scenario Model Intercomparison Project (ScenarioMIP) of CMIP6. <i>Earth System Dynamics</i> , 2021 , 12, 253-293	4.8	60
79	Multimodel assessment of the upper troposphere and lower stratosphere: Extratropics. <i>Journal of Geophysical Research</i> , 2010 , 115,		56
78	Multimodel assessment of the factors driving stratospheric ozone evolution over the 21st century. <i>Journal of Geophysical Research</i> , 2010 , 115,		56
77	Sensitivity of 21st century stratospheric ozone to greenhouse gas scenarios. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	48
76	Towards improved and more routine Earth system model evaluation in CMIP. <i>Earth System Dynamics</i> , 2016 , 7, 813-830	4.8	48

75	Assessment of near-future policy instruments for oceangoing shipping: impact on atmospheric aerosol burdens and the earth's radiation budget. <i>Environmental Science & Technology</i> , 2009 , 43, 5592-8	10.3	47
74	Global ship track distribution and radiative forcing from 1 year of AATSR data. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	46
73	Climate impact of biofuels in shipping: global model studies of the aerosol indirect effect. <i>Environmental Science & Technology</i> , 2011 , 45, 3519-25	10.3	45
72	Ship emitted NO ₂ in the Indian Ocean: comparison of model results with satellite data. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 7289-7301	6.8	45
71	Prospects and Caveats of Weighting Climate Models for Summer Maximum Temperature Projections Over North America. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 4509-4526	4.4	39
70	Attribution of observed changes in stratospheric ozone and temperature. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 599-609	6.8	34
69	Clear sky UV simulations for the 21st century based on ozone and temperature projections from Chemistry-Climate Models. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 1165-1172	6.8	32
68	Earth System Model Evaluation Tool (ESMValTool) v2.0 – an extended set of large-scale diagnostics for quasi-operational and comprehensive evaluation of Earth system models in CMIP. <i>Geoscientific Model Development</i> , 2020 , 13, 3383-3438	6.3	32
67	Earth System Model Evaluation Tool (ESMValTool) v2.0 – technical overview. <i>Geoscientific Model Development</i> , 2020 , 13, 1179-1199	6.3	31
66	ESD Reviews: Climate feedbacks in the Earth system and prospects for their evaluation. <i>Earth System Dynamics</i> , 2019 , 10, 379-452	4.8	31
65	Benchmarking CMIP5 models with a subset of ESA CCI Phase 2 data using the ESMValTool. <i>Remote Sensing of Environment</i> , 2017 , 203, 9-39	13.2	27
64	Impact of ship emissions on the microphysical, optical and radiative properties of marine stratus: a case study. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 4925-4942	6.8	27
63	Constraining Future Summer Austral Jet Stream Positions in the CMIP5 Ensemble by Process-Oriented Multiple Diagnostic Regression*. <i>Journal of Climate</i> , 2016 , 29, 673-687	4.4	26
62	Ozone database in support of CMIP5 simulations: results and corresponding radiative forcing		26
61	Evolving Obs4MIPs to Support Phase 6 of the Coupled Model Intercomparison Project (CMIP6). <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, ES131-ES133	6.1	24
60	Historical (1850–2000) gridded anthropogenic and biomass burning emissions of reactive gases and aerosols: methodology and application		24
59	Emergent constraints on equilibrium climate sensitivity in CMIP5: do they hold for CMIP6?. <i>Earth System Dynamics</i> , 2020 , 11, 1233-1258	4.8	21
58	Quantitative evaluation of ozone and selected climate parameters in a set of EMAC simulations. <i>Geoscientific Model Development</i> , 2015 , 8, 733-768	6.3	20

57	Global-mean temperature change from shipping toward 2050: improved representation of the indirect aerosol effect in simple climate models. <i>Environmental Science & Technology</i> , 2012 , 46, 8868-77	10.3	20
56	The potential to narrow uncertainty in projections of stratospheric ozone over the 21st century. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 9473-9486	6.8	20
55	Improving Antarctic Total Ozone Projections by a Process-Oriented Multiple Diagnostic Ensemble Regression. <i>Journals of the Atmospheric Sciences</i> , 2013 , 70, 3959-3976	2.1	19
54	Toward effective emissions of ships in global models. <i>Meteorologische Zeitschrift</i> , 2008 , 17, 117-129	3.1	19
53	The Scenario Model Intercomparison Project (ScenarioMIP) for CMIP6 2016 ,		18
52	Causal networks for climate model evaluation and constrained projections. <i>Nature Communications</i> , 2020 , 11, 1415	17.4	16
51	Evaluating stratospheric ozone and water vapour changes in CMIP6 models from 1850 to 2100. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 5015-5061	6.8	16
50	Dynamics and composition of the Asian summer monsoon anticyclone. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 5655-5675	6.8	14
49	Toward Standardized Data Sets for Climate Model Experimentation. <i>Eos</i> , 2018 , 99,	1.5	13
48	Impact of large solar zenith angles on lower stratospheric dynamical and chemical processes in a coupled chemistry-climate model. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 1981-1990	6.8	12
47	Process-level improvements in CMIP5 models and their impact on tropical variability, the Southern Ocean, and monsoons. <i>Earth System Dynamics</i> , 2018 , 9, 33-67	4.8	11
46	A community diagnostic tool for chemistry climate model validation. <i>Geoscientific Model Development</i> , 2012 , 5, 1061-1073	6.3	10
45	The impact of horizontal transport on the chemical composition in the tropopause region: lightning NOx and streamers. <i>Advances in Space Research</i> , 2004 , 33, 1058-1061	2.4	10
44	Analysis of present day and future OH and methane lifetime in the ACCMIP simulations		10
43	Quantifying Progress Across Different CMIP Phases With the ESMValTool. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD032321	4.4	10
42	Constraining Uncertainty in Projected Gross Primary Production With Machine Learning. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2019JG005619	3.7	10
41	Global chemistry-climate modeling and evaluation. <i>Eos</i> , 2012 , 93, 539-539	1.5	9
40	Observations for Model Intercomparison Project (Obs4MIPs): status for CMIP6. <i>Geoscientific Model Development</i> , 2020 , 13, 2945-2958	6.3	9

39	Earth System Model Evaluation Tool (ESMValTool) v2.0 diagnostics for emergent constraints and future projections from Earth system models in CMIP. <i>Geoscientific Model Development</i> , 2020 , 13, 4205-4228	6.3	9
38	Evaluating stratospheric ozone and water vapor changes in CMIP6 models from 1850-2100 2020 ,		8
37	Trace gas composition in the Asian summer monsoon anticyclone: a case study based on aircraft observations and model simulations. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 6091-6111	6.8	8
36	A model intercomparison analysing the link between column ozone and geopotential height anomalies in January. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 2519-2535	6.8	8
35	Climatologies of subtropical mixing derived from 3D models. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 1007-1021	6.8	8
34	Pre-industrial to end 21st century projections of tropospheric ozone from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP)		8
33	Tropospheric ozone changes, radiative forcing and attribution to emissions in the Atmospheric Chemistry and Climate Model Inter-comparison Project (ACCMIP)		8
32	The Tropical Tropopause Layer 1960-2100		8
31	ESMValTool (v1.0) a community diagnostic and performance metrics tool for routine evaluation of Earth System Models in CMIP		8
30	AerChemMIP: Quantifying the effects of chemistry and aerosols in CMIP6		7
29	Earth System Model Evaluation Tool (ESMValTool) v2.0 diagnostics for extreme events, regional and impact evaluation and analysis of Earth system models in CMIP		7
28	Ship track characteristics derived from geostationary satellite observations on the west coast of southern Africa. <i>Atmospheric Research</i> , 2010 , 95, 32-39	5.4	6
27	The Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP): overview and description of models, simulations and climate diagnostics 2012 ,		6
26	Interpretation of Mid-Stratospheric Arctic Ozone Measurements Using a Photochemical Box-Model. <i>Journal of Atmospheric Chemistry</i> , 1999 , 34, 281-290	3.2	6
25	Multi-model assessment of stratospheric ozone return dates and ozone recovery in CCMVal-2 models		5
24	Preindustrial to present day changes in tropospheric hydroxyl radical and methane lifetime from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP)		5
23	Impact of Accurate Photolysis Calculations on the Simulation of Stratospheric Chemistry. <i>Journal of Atmospheric Chemistry</i> , 2003 , 44, 225-240	3.2	4
22	Ship emitted NO ₂ in the Indian Ocean: comparison of model results with satellite data		4

21	Climate model projections from the Scenario Model Intercomparison Project (ScenarioMIP) of CMIP6		4
20	Earth System Model Evaluation Tool (ESMValTool) v2.0 diagnostics for extreme events, regional and impact evaluation, and analysis of Earth system models in CMIP. <i>Geoscientific Model Development</i> , 2021 , 14, 3159-3184	6.3	4
19	ESMValTool v2.0 Extended set of large-scale diagnostics for quasi-operational and comprehensive evaluation of Earth system models in CMIP 2019 ,		4
18	Projections of UV radiation changes in the 21st century: impact of ozone recovery and cloud effects		3
17	Global model simulations of the impact of ocean-going ships on aerosols, clouds, and the radiation budget		3
16	Spatially resolved evaluation of Earth system models with satellite column-averaged CO ₂ and CH ₄ . <i>Biogeosciences</i> , 2020 , 17, 6115-6144	4.6	3
15	Reflections and projections on a decade of climate science. <i>Nature Climate Change</i> , 2021 , 11, 279-285	21.4	3
14	Earth System Model Evaluation Tool (ESMValTool) v2.0 diagnostics for emergent constraints and future projections from Earth system models in CMIP 2020 ,		2
13	Quantitative performance metrics for stratospheric-resolving chemistry-climate models		2
12	Climate Impact of Transport. <i>Research Topics in Aerospace</i> , 2012 , 711-725		2
11	Atmospheric Composition Change: Climate-Chemistry Interactions 2012 , 309-365		1
10	Hemispheric ozone variability indices derived from satellite observations and comparison to a coupled chemistry-climate model. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 5105-5120	6.8	1
9	A harmonic substitute model sheds light upon the rotational tunnelling spectrum of infinitely many coupled methyl groups. <i>Physica B: Condensed Matter</i> , 1995 , 212, 379-390	2.8	1
8	A model intercomparison analysing the link between ozone and geopotential height anomalies in January		1
7	Nonlinear Causal Link Estimation Under Hidden Confounding with an Application to Time Series Anomaly Detection. <i>Lecture Notes in Computer Science</i> , 2019 , 261-273	0.9	1
6	Globale Sicht des Klimawandels 2017 , 7-16		1
5	The effect of future ambient air pollution on human premature mortality to 2100 using output from the ACCMIP model ensemble 2016 ,		1
4	Observations for Model Intercomparison Project (Obs4MIPs): Status for CMIP6 2019 ,		1

- 3 Climate feedbacks in the Earth system and prospects for their evaluation **2018**, 1
- 2 Global Chemistry-Climate Modelling with EMAC **2010**, 663-674
- 1 How Good are Chemistry-Climate Models?. *Research Topics in Aerospace*, **2012**, 763-779