E V Rozanov

List of Publications by Year
in descending order

233 papers	11,535 citations	26567 56 h-index	42291 92 g-index
330 all docs	330 docs citations	330 times ranked	7375 citing authors

#	Article	IF	Citations
1	HEPPA III Intercomparison Experiment on Electron Precipitation Impacts: 1. Estimated Ionization Rates During a Geomagnetic Active Period in April 2010. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	16
2	Heppa III Intercomparison Experiment on Electron Precipitation Impacts: 2. Modelâ€Measurement Intercomparison of Nitric Oxide (NO) During a Geomagnetic Storm in April 2010. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	10
3	Igorâ€™ Leonidovich Karolâ€™: 70 Years in Science. Izvestiya - Atmospheric and Oceanic Physics, 2022, 58, 111-120.	0.2	0
4	September 2017 Solar Flares Effect on the Middle Atmosphere. Remote Sensing, 2022, 14, 2560.	1.8	8
5	Exceptional middle latitude electron precipitation detected by balloon observations: implications for atmospheric composition. Atmospheric Chemistry and Physics, 2022, 22, 6703-6716.	1.9	7
6	On the Possibility of Modeling the IMF By-Weather Coupling through GEC-Related Effects on Cloud Droplet Coalescence Rate. Atmosphere, 2022, 13, 881.	1.0	3
7	Ionospheric response to solar and magnetospheric protons during January 15â€“22, 2005: EAGLE whole atmosphere model results. Advances in Space Research, 2021, 67, 133-149.	1.2	6
8	A global environmental crisis 42,000 years ago. Science, 2021, 371, 811-818.	6.0	61
9	Toward the creation of an ontology for the coupling of atmospheric electricity with biological systems. International Journal of Biometeorology, 2021, 65, 31-44.	1.3	3
10	The response of mesospheric H₂O and CO to solar irradiance variability in models and observations. Atmospheric Chemistry and Physics, 2021, 21, 201-216.	1.9	6
11	Model physics and chemistry causing intermodel disagreement within the VolMIP-Tambora Interactive Stratospheric Aerosol ensemble. Atmospheric Chemistry and Physics, 2021, 21, 3317-3343.	1.9	33
12	Representativeness of the Arosa/Davos Measurements for the Analysis of the Global Total Column Ozone Behavior. Frontiers in Earth Science, 2021, 9, .	0.8	1
13	Atmosphereâ€“oceanâ€“aerosolâ€“chemistryâ€“climate model SOCOLv4.0: description and evaluation. Geoscientific Model Development, 2021, 14, 5525-5560.	1.3	16
14	The Effect of Forbush Decreases on the Polar-Night HOx Concentration Affecting Stratospheric Ozone. Frontiers in Earth Science, 2021, 8, .	0.8	7
15	Iodine chemistry in the chemistryâ€“climate model SOCOL-AERv2-I. Geoscientific Model Development, 2021, 14, 6623-6645.	1.3	12
16	Response to Comment on â€œA global environmental crisis 42,000 years agoâ€. Science, 2021, 374, eabi9756.	6.0	2
17	On Possible Causes of Positive Disturbance of Global Electronic Content during a Complex Heliogeophysical Event on September 2017. Cosmic Research, 2021, 59, 456-462.	0.2	0
18	Response to Comment on â€œA global environmental crisis 42,000 years agoâ€. Science, 2021, 374, eabh3655.	6.0	0

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19	Modeling the Sulfate Aerosol Evolution After Recent Moderate Volcanic Activity, 2008â€“2012. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035472.	1.2	7
20	The Influence of the Atmosphere on the Variability of the Electronic Concentration in the Ionosphere on January 2009. Russian Journal of Physical Chemistry B, 2021, 15, 928-932.	0.2	3
21	Atmospheric Effects during the Precipitation of Energetic Electrons. Bulletin of the Russian Academy of Sciences: Physics, 2021, 85, 1310-1313.	0.1	1
22	Application of CCM SOCOL-AERv2-BE to cosmogenic beryllium isotopes: description and validation for polar regions. Geoscientific Model Development, 2021, 14, 7605-7620.	1.3	7
23	Preface: Ozone Evolution in the Past and Future. Atmosphere, 2020, 11, 709.	1.0	4
24	Revisited Reference Solar Proton Event of 23 February 1956: Assessment of the Cosmogenicâ€Isotope Method Sensitivity to Extreme Solar Events. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027921.	0.8	31
25	Natural Sources of Ionization and Their Impact on Atmospheric Electricity. Geophysical Research Letters, 2020, 47, e2020GL088619.	1.5	17
26	A machine learning examination of hydroxyl radical differences among model simulations for CCMI-1. Atmospheric Chemistry and Physics, 2020, 20, 1341-1361.	1.9	24
27	Attribution of Chemistry-Climate Model Initiative (CCMI) ozone radiative flux bias from satellites. Atmospheric Chemistry and Physics, 2020, 20, 281-301.	1.9	6
28	Ozone Layer Evolution in the Early 20th Century. Atmosphere, 2020, 11, 169.	1.0	9
29	Energetic electron precipitation and their atmospheric effect. E3S Web of Conferences, 2020, 196, 01005.	0.2	1
30	Study of the dependence of long-term stratospheric ozone trends on local solar time. Atmospheric Chemistry and Physics, 2020, 20, 8453-8471.	1.9	7
31	Ultraviolet Radiation modelling using output from the Chemistry Climate Model Initiative. , 2019, 19, 10087-10110.		5
32	Spectra of high energy electron precipitation and atmospheric ionization rates retrieval from balloon measurements. Science of the Total Environment, 2019, 693, 133242.	3.9	17
33	The dependence of four-peak longitudinal structure of the tropical electric field on the processes in the lower atmosphere and geomagnetic field configuration. Advances in Space Research, 2019, 64, 1854-1864.	1.2	7
34	Evaluating the Relationship between Interannual Variations in the Antarctic Ozone Hole and Southern Hemisphere Surface Climate in Chemistryâ€“Climate Models. Journal of Climate, 2019, 32, 3131-3151.	1.2	13
35	Identification of the mechanisms responsible for anomalies in the tropical lower thermosphere/ionosphere caused by the January 2009 sudden stratospheric warming. Journal of Space Weather and Space Climate, 2019, 9, A39.	1.1	11
36	Clear-sky ultraviolet radiation modelling using output from the Chemistry Climate Model Initiative. Atmospheric Chemistry and Physics, 2019, 19, 10087-10110.	1.9	22

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37	Global EAGLE Model as a Tool for Studying the Influence of the Atmosphere on the Electric Field in the Equatorial Ionosphere. Russian Journal of Physical Chemistry B, 2019, 13, 720-726.	0.2	5
38	Improved tropospheric and stratospheric sulfur cycle in the aerosolâ€“chemistryâ€“climate model SOCOL-AERv2. Geoscientific Model Development, 2019, 12, 3863-3887.	1.3	31
39	Reactive nitrogen (NO_{<i>y</i>}) and ozone responses to energetic electron precipitation during Southern Hemisphere winter. Atmospheric Chemistry and Physics, 2019, 19, 9485-9494.	1.9	5
40	The Response of the Ozone Layer to Quadrupled CO2 Concentrations: Implications for Climate. Journal of Climate, 2019, 32, 7629-7642.	1.2	17
41	The representation of ionospheric potential in the global chemistry-climate model SOCOL. Science of the Total Environment, 2019, 697, 134172.	3.9	7
42	Ionization of the Polar Atmosphere by Energetic Electron Precipitation Retrieved From Balloon Measurements. Geophysical Research Letters, 2019, 46, 990-996.	1.5	27
43	The Upper Stratospheric Solar Cycle Ozone Response. Geophysical Research Letters, 2019, 46, 1831-1841.	1.5	13
44	Tidal and Planetary Waves in the Lower Thermosphere and Ionosphere Simulated with the EAGLE Model for the January 2009 Sudden Stratospheric Warming Conditions. Izvestiya - Atmospheric and Oceanic Physics, 2019, 55, 178-187.	0.2	6
45	The influence of mixing on the stratospheric age of air changes in the 21st century. Atmospheric Chemistry and Physics, 2019, 19, 921-940.	1.9	29
46	Inter-model comparison of global hydroxyl radical (OH) distributions and their impact on atmospheric methane over the 2000â€“2016 period. Atmospheric Chemistry and Physics, 2019, 19, 13701-13723.	1.9	52
47	The effect of atmospheric nudging on the stratospheric residual circulation in chemistryâ€“climate models. Atmospheric Chemistry and Physics, 2019, 19, 11559-11586.	1.9	27
48	Impact of middle range energy electron precipitations on polar winter ozone losses. E3S Web of Conferences, 2019, 127, 01005.	0.2	0
49	Tidal and planetary waves in the lower thermosphere and ionosphere simulated with the EAGLE model for January 2009 sudden stratospheric warming conditions. , 2019, 55, 41-50.	0.0	0
50	Stratospheric ozone loss over the Eurasian continent induced by the polar vortex shift. Nature Communications, 2018, 9, 206.	5.8	69
51	Ozone sensitivity to varying greenhouse gases and ozone-depleting substances in CCMI-1 simulations. Atmospheric Chemistry and Physics, 2018, 18, 1091-1114.	1.9	56
52	Evidence for a continuous decline in lower stratospheric ozone offsetting ozone layer recovery. Atmospheric Chemistry and Physics, 2018, 18, 1379-1394.	1.9	214
53	Multi-model comparison of the volcanic sulfate deposition from the 1815 eruption of Mt.ÂTambora. Atmospheric Chemistry and Physics, 2018, 18, 2307-2328.	1.9	41
54	Implications of potential future grand solar minimum for ozone layer and climate. Atmospheric Chemistry and Physics, 2018, 18, 3469-3483.	1.9	18

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55	Contributions of Natural and Anthropogenic Forcing Agents to the Early 20th Century Warming. Frontiers in Earth Science, 2018, 6, .	0.8	15
56	Tropospheric ozone in CCMI models and Gaussian process emulation to understand biases in the SOCOLv3 chemistryâ€“climate model. Atmospheric Chemistry and Physics, 2018, 18, 16155-16172.	1.9	27
57	Large-scale tropospheric transport in the Chemistryâ€“Climate Model Initiative (CCMI) simulations. Atmospheric Chemistry and Physics, 2018, 18, 7217-7235.	1.9	32
58	Ionospheric Effects of the Sudden Stratospheric Warming in 2009: Results of Simulation with the First Version of the EAGLE Model. Russian Journal of Physical Chemistry B, 2018, 12, 760-770.	0.2	8
59	Global Variations in Critical Frequency of the F2 Layer in Various Models of Solar EUV Radiation. Russian Journal of Physical Chemistry B, 2018, 12, 771-775.	0.2	1
60	Effect of Precipitating Energetic Particles on the Ozone Layer and Climate. Russian Journal of Physical Chemistry B, 2018, 12, 786-790.	0.2	8
61	No robust evidence of future changes in major stratospheric sudden warmings: a multi-model assessment from CCMI. Atmospheric Chemistry and Physics, 2018, 18, 11277-11287.	1.9	41
62	Stratospheric Injection of Brominated Very Shortâ€Lived Substances: Aircraft Observations in the Western Pacific and Representation in Global Models. Journal of Geophysical Research D: Atmospheres, 2018, 123, 5690-5719.	1.2	36
63	Tropospheric jet response to Antarctic ozone depletion: An update with Chemistry-Climate Model Initiative (CCMI) models. Environmental Research Letters, 2018, 13, 054024.	2.2	38
64	The representation of solar cycle signals in stratospheric ozone â€“ PartÂ 2: Analysis of global models. Atmospheric Chemistry and Physics, 2018, 18, 11323-11343.	1.9	18
65	Estimates of ozone return dates from Chemistry-Climate Model Initiative simulations. Atmospheric Chemistry and Physics, 2018, 18, 8409-8438.	1.9	128
66	Revised historical solar irradiance forcing. Astronomy and Astrophysics, 2018, 615, A85.	2.1	48
67	The Response of the Ozone Layer to Quadrupled CO2 Concentrations. Journal of Climate, 2018, 31, 3893-3907.	1.2	32
68	Quantifying the effect of mixing on the mean age of air in CCMVal-2 and CCMI-1 models. Atmospheric Chemistry and Physics, 2018, 18, 6699-6720.	1.9	32
69	Revisiting the Mystery of Recent Stratospheric Temperature Trends. Geophysical Research Letters, 2018, 45, 9919-9933.	1.5	51
70	Stratospheric aerosol evolution after Pinatubo simulated with a coupled size-resolved aerosolâ€“chemistryâ€“climate model, SOCOL-AERv1.0. Geoscientific Model Development, 2018, 11, 2633-2647.	1.3	16
71	Decadal to multi-decadal scale variability of Indian summer monsoon rainfall in the coupled ocean-atmosphere-chemistry climate model SOCOL-MPIOM. Climate Dynamics, 2017, 49, 3551-3572.	1.7	44
72	Tropical circulation and precipitation response to ozone depletion and recovery. Environmental Research Letters, 2017, 12, 064011.	2.2	16

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73	Atmospheric impacts of the strongest known solar particle storm of 775 AD. Scientific Reports, 2017, 7, 45257.	1.6	54
74	Modeling of the middle atmosphere response to 27-day solar irradiance variability. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 152-153, 50-61.	0.6	9
75	On the aliasing of the solar cycle in the lower stratospheric tropical temperature. Journal of Geophysical Research D: Atmospheres, 2017, 122, 9076-9093.	1.2	19
76	Formaldehyde in the Tropical Western Pacific: Chemical Sources and Sinks, Convective Transport, and Representation in CAMâ€Chem and the CCMI Models. Journal of Geophysical Research D: Atmospheres, 2017, 122, 11201-11226.	1.2	32
77	Deriving Global OH Abundance and Atmospheric Lifetimes for Longâ€Lived Gases: A Search for CH₃CCl₃ Alternatives. Journal of Geophysical Research D: Atmospheres, 2017, 122, 11,914.	1.2	26
78	Reconciling differences in stratospheric ozone composites. Atmospheric Chemistry and Physics, 2017, 17, 12269-12302.	1.9	35
79	Impacts of MtÂPinatubo volcanic aerosol on the tropical stratosphere in chemistryâ€"climate model simulations using CCMI and CMIP6 stratospheric aerosol data. Atmospheric Chemistry and Physics, 2017, 17, 13139-13150.	1.9	16
80	HEPPA-II modelâ€"measurement intercomparison project: EPP indirect effects during the dynamically perturbed NH winter 2008â€"2009. Atmospheric Chemistry and Physics, 2017, 17, 3573-3604.	1.9	55
81	Review of the global models used within phase 1 of the Chemistryâ€"Climate Model Initiative (CCMI). Geoscientific Model Development, 2017, 10, 639-671.	1.3	277
82	The PMIP4 contribution to CMIP6 â€" Part 3: The last millennium, scientific objective, and experimental design for the PMIP4 <i>past1000</i> simulations. Geoscientific Model Development, 2017, 10, 4005-4033.	1.3	155
83	Response of the AMOC to reduced solar radiation â€" the modulating role of atmospheric chemistry. Earth System Dynamics, 2016, 7, 877-892.	2.7	18
84	The Model Intercomparison Project on the climatic response to Volcanic forcing (VolMIP): experimental design and forcing input data for CMIP6. Geoscientific Model Development, 2016, 9, 2701-2719.	1.3	138
85	Solar signals in CMIPâ€5 simulations: effects of atmosphereâ€"ocean coupling. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 928-941.	1.0	52
86	Evaluation of simulated photolysis rates and their response to solar irradiance variability. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6066-6084.	1.2	27
87	The influence of Middle Range Energy Electrons on atmospheric chemistry and regional climate. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 149, 180-190.	0.6	57
88	Application of the models of the middle and upper atmosphere to simulation of total electron content perturbations caused by the 2009 stratospheric warming. Russian Journal of Physical Chemistry B, 2016, 10, 109-116.	0.2	4
89	Evaluation of the inter-annual variability of stratospheric chemical composition in chemistry-climate models using ground-based multi species time series. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 145, 61-84.	0.6	6
90	An upper-branch Brewerâ€"Dobson circulation index for attribution of stratospheric variability and improved ozone and temperature trend analysis. Atmospheric Chemistry and Physics, 2016, 16, 15485-15500.	1.9	5

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91	Multidecadal variations of the effects of the Quasi-Biennial Oscillation on the climate system. Atmospheric Chemistry and Physics, 2016, 16, 15529-15543.	1.9	10
92	The role of methane in projections of 21st century stratospheric water vapour. Atmospheric Chemistry and Physics, 2016, 16, 13067-13080.	1.9	26
93	Solar irradiance observations with PREMOS filter radiometers on the PICARD mission: In-flight performance and data release. Astronomy and Astrophysics, 2016, 588, A126.	2.1	8
94	High solar cycle spectral variations inconsistent with stratospheric ozone observations. Nature Geoscience, 2016, 9, 206-209.	5.4	45
95	Solar signals in CMIPâ€5 simulations: the stratospheric pathway. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 2390-2403.	1.0	66
96	Global atmospheric sulfur budget under volcanically quiescent conditions: Aerosolâ€chemistryâ€climate model predictions and validation. Journal of Geophysical Research D: Atmospheres, 2015, 120, 256-276.	1.2	81
97	Drivers of the tropospheric ozone budget throughout the 21st century under the medium-high climate scenario RCP 6.0. Atmospheric Chemistry and Physics, 2015, 15, 5887-5902.	1.9	80
98	The impacts of volcanic aerosol on stratospheric ozone and the Northern Hemisphere polar vortex: separating radiative-dynamical changes from direct effects due to enhanced aerosol heterogeneous chemistry. Atmospheric Chemistry and Physics, 2015, 15, 11461-11476.	1.9	23
99	A perturbed parameter model ensemble to investigate Mt. Pinatubo's 1991 initial sulfur mass emission. Atmospheric Chemistry and Physics, 2015, 15, 11501-11512.	1.9	16
100	Solar signals in CMIPâ€5 simulations: the ozone response. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 2670-2689.	1.0	43
101	Southward shift of the northern tropical belt from 1945 to 1980. Nature Geoscience, 2015, 8, 969-974.	5.4	39
102	Energetic Particle Influence on the Earthâ€™s Atmosphere. Space Science Reviews, 2015, 194, 1-96.	3.7	183
103	Impact of solar versus volcanic activity variations on tropospheric temperatures and precipitation during the Dalton Minimum. Climate of the Past, 2014, 10, 921-938.	1.3	48
104	Volcanic forcing for climate modeling: a new microphysics-based data set covering years 1600â€“present. Climate of the Past, 2014, 10, 359-375.	1.3	70
105	The coupled atmosphereâ€“chemistryâ€“ocean model SOCOL-MPIOM. Geoscientific Model Development, 2014, 7, 2157-2179.	1.3	44
106	Evaluation of the ECHAM family radiation codes performance in the representation of the solar signal. Geoscientific Model Development, 2014, 7, 2859-2866.	1.3	20
107	Northern hemispheric winter warming pattern after tropical volcanic eruptions: Sensitivity to the ozone climatology. Journal of Geophysical Research D: Atmospheres, 2014, 119, 1340-1355.	1.2	20
108	Multimodel estimates of atmospheric lifetimes of longâ€lived ozoneâ€depleting substances: Present and future. Journal of Geophysical Research D: Atmospheres, 2014, 119, 2555-2573.	1.2	42

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109	Variability of Sun-like stars: reproducing observed photometric trends. Astronomy and Astrophysics, 2014, 569, A38.	2.1	82
110	Detection of Solar Rotational Variability in the Large Yield RAdiometer (LYRA) 190â€‰â€“â€‰222 nm Spectral Band. Solar Physics, 2013, 286, 289-301.	1.0	7
111	Impact of a potential 21st century â€œgrand solar minimumâ€• on surface temperatures and stratospheric ozone. Geophysical Research Letters, 2013, 40, 4420-4425.	1.5	38
112	Reconstruction of daily erythemal UV radiation values for the last century â€“ The benefit of modelled ozone. , 2013, , .		0
113	The SOCOL version 3.0 chemistryâ€“climate model: description, evaluation, and implications from an advanced transport algorithm. Geoscientific Model Development, 2013, 6, 1407-1427.	1.3	120
114	Influence of a Carrington-like event on the atmospheric chemistry, temperature and dynamics: revised. Environmental Research Letters, 2013, 8, 045010.	2.2	21
115	Modeling the stratospheric warming following the Mt. Pinatubo eruption: uncertainties in aerosol extinctions. Atmospheric Chemistry and Physics, 2013, 13, 11221-11234.	1.9	68
116	A global historical ozone data set and prominent features of stratospheric variability prior to 1979. Atmospheric Chemistry and Physics, 2013, 13, 9623-9639.	1.9	18
117	Montreal Protocol Benefits simulated with CCM SOCOL. Atmospheric Chemistry and Physics, 2013, 13, 3811-3823.	1.9	27
118	Recent variability of the solar spectral irradiance and its impact on climate modelling. Atmospheric Chemistry and Physics, 2013, 13, 3945-3977.	1.9	267
119	Forcing of stratospheric chemistry and dynamics during the Dalton Minimum. Atmospheric Chemistry and Physics, 2013, 13, 10951-10967.	1.9	20
120	Role of external factors in the evolution of the ozone layer and stratospheric circulation in 21st century. Atmospheric Chemistry and Physics, 2013, 13, 4697-4706.	1.9	34
121	Influence of the sunspot cycle on the Northern Hemisphere wintertime circulation from long upper-air data sets. Atmospheric Chemistry and Physics, 2013, 13, 6275-6288.	1.9	36
122	Climate and chemistry effects of a regional scale nuclear conflict. Atmospheric Chemistry and Physics, 2013, 13, 9713-9729.	1.9	26
123	The role of the solar irradiance variability in the evolution of the middle atmosphere during 2004â€“2009. Journal of Geophysical Research D: Atmospheres, 2013, 118, 3781-3793.	1.2	19
124	The place of the Sun among the Sun-like stars. Astronomy and Astrophysics, 2013, 552, A114.	2.1	12
125	Principal Possibility of the Successful Nowcast and Short-Term Forecast in the Middle Atmosphere Based on the Observed UV Irradiance. International Journal of Geophysics, 2012, 2012, 1-7.	0.4	0
126	The effectiveness of N₂O in depleting stratospheric ozone. Geophysical Research Letters, 2012, 39, .	1.5	46

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127	The sensitivity of stratospheric ozone changes through the 21st century to N₂O and CH₄. Atmospheric Chemistry and Physics, 2012, 12, 11309-11317.	1.9	61
128	Signature of the 27-day solar rotation cycle in mesospheric OH and H₂O observed by the Aura Microwave Limb Sounder. Atmospheric Chemistry and Physics, 2012, 12, 3181-3188.	1.9	35
129	Influence of a Carrington-like event on the atmospheric chemistry, temperature and dynamics. Atmospheric Chemistry and Physics, 2012, 12, 8679-8686.	1.9	16
130	Observed and simulated time evolution of HCl, ClONO₂, and HF total column abundances. Atmospheric Chemistry and Physics, 2012, 12, 3527-3556.	1.9	72
131	The benefit of modeled ozone data for the reconstruction of a 99â€‘year UV radiation time series. Journal of Geophysical Research, 2012, 117, .	3.3	3
132	The nature of Arctic polar vortices in chemistryâ€“climate models. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 1681-1691.	1.0	14
133	Influence of the Precipitating Energetic Particles on Atmospheric Chemistry and Climate. Surveys in Geophysics, 2012, 33, 483-501.	2.1	144
134	Climate change projections and stratosphereâ€“troposphere interaction. Climate Dynamics, 2012, 38, 2089-2097.	1.7	137
135	Influence of the Precipitating Energetic Particles on Atmospheric Chemistry and Climate. Space Sciences Series of ISSI, 2012, , 151-169.	0.0	0
136	Detection of Solar Rotational Variability in the Large Yield RAdiometer (LYRA) 190â€‰â€“â€‰222 nm Spectral Band. , 2012, , 289-301.		0
137	Multimodel climate and variability of the stratosphere. Journal of Geophysical Research, 2011, 116, .	3.3	139
138	Evaluation of radiation scheme performance within chemistry climate models. Journal of Geophysical Research, 2011, 116, .	3.3	77
139	Improved predictability of the troposphere using stratospheric final warmings. Journal of Geophysical Research, 2011, 116, .	3.3	70
140	Attribution of observed changes in stratospheric ozone and temperature. Atmospheric Chemistry and Physics, 2011, 11, 599-609.	1.9	40
141	Projections of UV radiation changes in the 21st century: impact of ozone recovery and cloud effects. Atmospheric Chemistry and Physics, 2011, 11, 7533-7545.	1.9	75
142	Composition changes after the "Halloween" solar proton event: the High Energy Particle Precipitation in the Atmosphere (HEPPA) model versus MIPAS data intercomparison study. Atmospheric Chemistry and Physics, 2011, 11, 9089-9139.	1.9	145
143	Modeling of the atmospheric response to a strong decrease of the solar activity. Proceedings of the International Astronomical Union, 2011, 7, 215-224.	0.0	11
144	A new approach to the long-term reconstruction of the solar irradiance leads to large historical solar forcing. Astronomy and Astrophysics, 2011, 529, A67.	2.1	255

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145	Influence of Galactic Cosmic Rays on atmospheric composition and dynamics. Atmospheric Chemistry and Physics, 2011, 11, 4547-4556.	1.9	62
146	Simulation of changes in global ozone and atmospheric dynamics in the 21st century with the chemistry-climate model SOCOL. Izvestiya - Atmospheric and Oceanic Physics, 2011, 47, 301-312.	0.2	8
147	The atmospheric effects of October 2003 solar proton event simulated with the chemistryâ€"climate model SOCOL using complete and parameterized ion chemistry. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 356-365.	0.6	31
148	Sensitivity of the Earthâ€™s middle atmosphere to short-term solar variability and its dependence on the choice of solar irradiance data set. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 348-355.	0.6	22
149	Radiative transfer with scattering for domain-decomposed 3D MHD simulations of cool stellar atmospheres. Astronomy and Astrophysics, 2010, 517, A49.	2.1	118
150	The potential to narrow uncertainty in projections of stratospheric ozone over the 21st century. Atmospheric Chemistry and Physics, 2010, 10, 9473-9486.	1.9	25
151	Quantitative assessment of Southern Hemisphere ozone in chemistry-climate model simulations. Atmospheric Chemistry and Physics, 2010, 10, 1385-1400.	1.9	13
152	NLTE solar irradiance modeling with the COSI code. Astronomy and Astrophysics, 2010, 517, A48.	2.1	80
153	Multi-model assessment of stratospheric ozone return dates and ozone recovery in CCMVal-2 models. Atmospheric Chemistry and Physics, 2010, 10, 9451-9472.	1.9	215
154	Decline and recovery of total column ozone using a multimodel time series analysis. Journal of Geophysical Research, 2010, 115, .	3.3	74
155	Chemistryâ€"Climate Model Simulations of Twenty-First Century Stratospheric Climate and Circulation Changes. Journal of Climate, 2010, 23, 5349-5374.	1.2	280
156	Anthropogenic forcing of the Northern Annular Mode in CCMValâ€2 models. Journal of Geophysical Research, 2010, 115, .	3.3	32
157	Chemistryâ€climate model simulations of spring Antarctic ozone. Journal of Geophysical Research, 2010, 115, .	3.3	51
158	Multimodel assessment of the upper troposphere and lower stratosphere: Tropics and global trends. Journal of Geophysical Research, 2010, 115, .	3.3	171
159	Review of the formulation of presentâ€generation stratospheric chemistryâ€climate models and associated external forcings. Journal of Geophysical Research, 2010, 115, .	3.3	150
160	Stratosphereâ€troposphere coupling and annular mode variability in chemistryâ€climate models. Journal of Geophysical Research, 2010, 115, .	3.3	107
161	Multimodel assessment of the upper troposphere and lower stratosphere: Extratropics. Journal of Geophysical Research, 2010, 115, .	3.3	67
162	Evidence for changes in stratospheric transport and mixing over the past three decades based on multiple data sets and tropical leaky pipe analysis. Journal of Geophysical Research, 2010, 115, .	3.3	69

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163	Impact of stratospheric ozone on Southern Hemisphere circulation change: A multimodel assessment. Journal of Geophysical Research, 2010, 115, .	3.3	280
164	Multimodel assessment of the factors driving stratospheric ozone evolution over the 21st century. Journal of Geophysical Research, 2010, 115, .	3.3	66
165	The impact of geoengineering aerosols on stratospheric temperature and ozone. Environmental Research Letters, 2009, 4, 045108.	2.2	199
166	Comparison of Measured and Modeled Nocturnal Clear Sky Longwave Downward Radiation at Payerne, Switzerland. , 2009, , .		7
167	The PREMOS/PICARD instrument calibration. Metrologia, 2009, 46, S202-S206.	0.6	37
168	The CLIVAR C20C project: skill of simulating Indian monsoon rainfall on interannual to decadal timescales. Does GHG forcing play a role?. Climate Dynamics, 2009, 33, 615-627.	1.7	50
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