Sergey P Smyshlyaev

List of Publications by Year
in descending order

29	460	687335 13	752679 20
papers	citations	h-index	g-index

34	34	34	559
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evaluation of the chemical transport model Oslo CTM2 with focus on arctic winter ozone depletion. Journal of Geophysical Research, 2008, 113, .	3.3	58
2	On the formation of HNO3in the Antarctic mid to upper stratosphere in winter. Journal of Geophysical Research, 2001, 106, 23115-23125.	3.3	41
3	Combined chemistry-climate model of the atmosphere. Izvestiya - Atmospheric and Oceanic Physics, 2007, 43, 399-412.	0.9	34
4	A two-dimensional model with input parameters from a general circulation model: Ozone sensitivity to different formulations for the longitudinal temperature variation. Journal of Geophysical Research, 1998, 103, 28373-28387.	3.3	31
5	Comparison of recent modeled and observed trends in total column ozone. Journal of Geophysical Research, 2006, 111, .	3.3	31
6	Evaluation of simulated photolysis rates and their response to solar irradiance variability. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6066-6084.	3.3	27
7	Influence of wave activity on the composition of the polar stratosphere. Geomagnetism and Aeronomy, 2016, 56, 95-109.	0.8	24
8	Transport Diagnostics of GCMs and Implications for 2D Chemistry-Transport Model of Troposphere and Stratosphere. Journals of the Atmospheric Sciences, 2000, 57, 673-699.	1.7	21
9	Modeling the variability of gas and aerosol components in the stratosphere of polar regions. Izvestiya - Atmospheric and Oceanic Physics, 2010, 46, 265-280.	0.9	20
10	Simulation of the impact of thunderstorm activity on atmospheric gas composition. Izvestiya - Atmospheric and Oceanic Physics, 2010, 46, 451-467.	0.9	16
11	A model study of total ozone evolution 1979-2000 - the role of individual natural and anthropogenic effects. Geophysical Research Letters, 2002, 29, 5-1-5-1.	4.0	14
12	Evolution of the NOy-N2O correlation in the Antarctic stratosphere during 1993 and 1995. Journal of Geophysical Research, 2003, 108, .	3.3	13
13	Simulation of the indirect impact that the 11-year solar cycle has on the gas composition of the atmosphere. Izvestiya - Atmospheric and Oceanic Physics, 2010, 46, 623-634.	0.9	13
14	Case study of ozone anomalies over northern Russia in the 2015/2016 winter: measurements and numerical modelling. Annales Geophysicae, 2018, 36, 1495-1505.	1.6	13
15	Effects of Ozone and Clouds on Temporal Variability of Surface UV Radiation and UV Resources over Northern Eurasia Derived from Measurements and Modeling. Atmosphere, 2020, 11, 59.	2.3	13
16	Sensitivity of model assessments of high-speed civil transport effects on stratospheric ozone resulting from uncertainties in the NOxproduction from lightning. Journal of Geophysical Research, 1999, 104, 26401-26417.	3.3	11
17	Interannual and seasonal variations in ozone in different atmospheric layers over St. Petersburg based on observational data and numerical modeling. Izvestiya - Atmospheric and Oceanic Physics, 2017, 53, 301-315.	0.9	9
18	Interannual Variability and Trends in Sea Surface Temperature, Lower and Middle Atmosphere Temperature at Different Latitudes for 1980â€“2019. Atmosphere, 2021, 12, 454.	2.3	9

#	Article	IF	Citations
19	Numerical Modeling of Ozone Loss in the Exceptional Arctic Stratosphere Winterâ€“Spring of 2020. Atmosphere, 2021, 12, 1470.	2.3	9
20	Analysis of the sensitivity of the composition and temperature of the stratosphere to the variability of spectral solar radiation fluxes induced by the 11-year cycle of solar activity. Izvestiya - Atmospheric and Oceanic Physics, 2016, 52, 16-32.	0.9	8
21	Analysis of SAGE II observations using data assimilation by the SUNY-SPB two-dimensional model and comparison to TOMS data. Journal of Geophysical Research, 2001, 106, 32327-32335.	3.3	7
22	The model of the Earth system developed at the INM RAS. Russian Journal of Numerical Analysis and Mathematical Modelling, 2010, 25, .	0.6	7
23	Modeling the influence of methane emissions from arctic gas hydrates on regional variations in composition of the lower atmosphere. Izvestiya - Atmospheric and Oceanic Physics, 2015, 51, 412-422.	0.9	5
24	Ozone over St. Petersburg: Comparison of experimental data and numerical simulation. Atmospheric and Oceanic Optics, 2017, 30, 263-268.	1.3	5
25	Validation of WRF-Chem Model and CAMS Performance in Estimating Near-Surface Atmospheric CO2 Mixing Ratio in the Area of Saint Petersburg (Russia). Atmosphere, 2021, 12, 387.	2.3	5
26	Numerical Modeling of the Natural and Manmade Factors Influencing Past and Current Changes in Polar, Mid-Latitude and Tropical Ozone. Atmosphere, 2020, 11, 76.	2.3	5
27	Simulating indirect effects that thunderstorm activity has on atmospheric temperature. Izvestiya - Atmospheric and Oceanic Physics, 2013, 49, 504-518.	0.9	4
28	Prognostic estimations of the atmospheric ozone content in the first half of the 21st century. Izvestiya - Atmospheric and Oceanic Physics, 2006, 42, 171-183.	0.9	0
29	Semi-annual variation of excited hydroxyl emission at mid-latitudes. Annales Geophysicae, 2021, 39, 255-265.	1.6	0