

Sergey P Smyshlyaev

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

460
citations

687335

13
h-index

752679

20
g-index

34
all docs

34
docs citations

34
times ranked

559
citing authors

#	ARTICLE	IF	CITATIONS
1	Semi-annual variation of excited hydroxyl emission at mid-latitudes. <i>Annales Geophysicae</i> , 2021, 39, 255-265.	1.6	0
2	Validation of WRF-Chem Model and CAMS Performance in Estimating Near-Surface Atmospheric CO ₂ Mixing Ratio in the Area of Saint Petersburg (Russia). <i>Atmosphere</i> , 2021, 12, 387.	2.3	5
3	Interannual Variability and Trends in Sea Surface Temperature, Lower and Middle Atmosphere Temperature at Different Latitudes for 1980–2019. <i>Atmosphere</i> , 2021, 12, 454.	2.3	9
4	Numerical Modeling of Ozone Loss in the Exceptional Arctic Stratosphere Winter–Spring of 2020. <i>Atmosphere</i> , 2021, 12, 1470.	2.3	9
5	Effects of Ozone and Clouds on Temporal Variability of Surface UV Radiation and UV Resources over Northern Eurasia Derived from Measurements and Modeling. <i>Atmosphere</i> , 2020, 11, 59.	2.3	13
6	Numerical Modeling of the Natural and Manmade Factors Influencing Past and Current Changes in Polar, Mid-Latitude and Tropical Ozone. <i>Atmosphere</i> , 2020, 11, 76.	2.3	5
7	Case study of ozone anomalies over northern Russia in the 2015/2016 winter: measurements and numerical modelling. <i>Annales Geophysicae</i> , 2018, 36, 1495-1505.	1.6	13
8	Interannual and seasonal variations in ozone in different atmospheric layers over St. Petersburg based on observational data and numerical modeling. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2017, 53, 301-315.	0.9	9
9	Ozone over St. Petersburg: Comparison of experimental data and numerical simulation. <i>Atmospheric and Oceanic Optics</i> , 2017, 30, 263-268.	1.3	5
10	Evaluation of simulated photolysis rates and their response to solar irradiance variability. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6066-6084.	3.3	27
11	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. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2016, 52, 16-32.	0.9	8
12	Influence of wave activity on the composition of the polar stratosphere. <i>Geomagnetism and Aeronomy</i> , 2016, 56, 95-109.	0.8	24
13	Modeling the influence of methane emissions from arctic gas hydrates on regional variations in composition of the lower atmosphere. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2015, 51, 412-422.	0.9	5
14	Simulating indirect effects that thunderstorm activity has on atmospheric temperature. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2013, 49, 504-518.	0.9	4
15	Modeling the variability of gas and aerosol components in the stratosphere of polar regions. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2010, 46, 265-280.	0.9	20
16	Simulation of the impact of thunderstorm activity on atmospheric gas composition. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2010, 46, 451-467.	0.9	16
17	Simulation of the indirect impact that the 11-year solar cycle has on the gas composition of the atmosphere. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2010, 46, 623-634.	0.9	13
18	The model of the Earth system developed at the INM RAS. <i>Russian Journal of Numerical Analysis and Mathematical Modelling</i> , 2010, 25, .	0.6	7

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19	Evaluation of the chemical transport model Oslo CTM2 with focus on arctic winter ozone depletion. Journal of Geophysical Research, 2008, 113, .	3.3	58
20	Combined chemistry-climate model of the atmosphere. Izvestiya - Atmospheric and Oceanic Physics, 2007, 43, 399-412.	0.9	34
21	Comparison of recent modeled and observed trends in total column ozone. Journal of Geophysical Research, 2006, 111, .	3.3	31
22	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
23	Evolution of the NO _y -N ₂ O correlation in the Antarctic stratosphere during 1993 and 1995. Journal of Geophysical Research, 2003, 108, .	3.3	13
24	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
25	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
26	On the formation of HNO ₃ in the Antarctic mid to upper stratosphere in winter. Journal of Geophysical Research, 2001, 106, 23115-23125.	3.3	41
27	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
28	Sensitivity of model assessments of high-speed civil transport effects on stratospheric ozone resulting from uncertainties in the NO _x production from lightning. Journal of Geophysical Research, 1999, 104, 26401-26417.	3.3	11
29	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