

СПИСОК
публикаций, в которых излагаются основные научные результаты диссертации
на соискание ученой степени доктора физико-математических наук
по научной специальности 1.3.1 Физика космоса, астрономия
на тему: Воздействие энергичных частиц на атмосферу Земли
опубликованных в рецензируемых изданиях

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№ п/п	Название публикации на языке оригинала (при иноязычном названии – перевод на англ. / русс. яз.)	Тип публикации	DOI	Наименование издания	ISSN издания	Выходные данные публикации и (Номер тома, Номер части тома, Номер журнала, Страницы размещены в журнале, Год)	Интернет-адрес публикации в журнале	Библиографическая база данных (eLIBRARY, Web of Science, Scopus и др.), в которой индексируется публикация	№ публикации в списке литературы диссертации	№ страницы диссертации и, на которой приводится ссылка на публикацию	Объем публикации и (печ.дл./авт. д. личн. вклад)*	Соавторы
1	Mesospheric Ozone Depletion Depending on Different	Статья	10.3390/atmos14081205	Atmosphere Q2	20724292	14(8), 1205 (2023)	https://www.mdpi.com/2073-4433/14/8/	eLIBRARY, Web of Science, Scopus	A1	7, 10, 14	12/9	Grankin D, Rozanov E.

	Levels of Geomagnetic Disturbances and Seasons								1205					
2	Development of a method for reconstructing the energy spectra of precipitating electrons from measurements in the atmosphere	Статья	10.3185/7/S0016794023600564	Geomagnetics and Aeronomy Q3	20724292	63, 5, 638-643 (2023)	https://sciencejournals.ru/list-issues/geoaer/	eLIBRARY, Web of Science, Scopus	A2	7, 14	6/1		Makhmutov V., Maurchev E., Bazilevskaya G.	
3	Energetic Electron Precipitation via Satellite and Balloon Observations: Their Role in Atmospheric Ionization	Статья	10.3390/rs13204161	Remote Sensing Q1	20724292	15(13), 3291 (2023)	https://www.mdpi.com/2072-4292/15/13/3291	eLIBRARY, Web of Science, Scopus	A3	7, 14	10/8		Bazilevskaya G, Makhmutov V, Mironov A, Bobrov N.	
4	Atmospheric Response to EEP during Geomagnetic Disturbances	Статья	10.3390/atmos14020273	Atmosphere Q2	20734433	14(2), 273 (2023)	https://www.mdpi.com/2073-4433/14/2/273	eLIBRARY, Web of Science, Scopus	A4	7, 14	13/9		Grankin D, Bazilevskaya G, Rozanov E, Egorova T	
5	On the Possibility of Modeling the IMF By-Weather	Статья	10.3390/atmos13060881	Atmosphere Q2	20734433	13(6), 881 (2022)	https://www.mdpi.com/2073-4433/13/6/	eLIBRARY, Web of Science, Scopus	A5	10, 15	17/6		Karagodin A, Rozanov E	

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	Coupling through GEC-Related Effects on Cloud Droplet Coalescence Rate					881							
6	September 2017 Solar Flares Effect on the Middle Atmosphere	Статья	10.3390/rs14112560	Remote Sensing Q1	20724292	14, 2560. (2022)	https://www.mdpi.com/2072-4292/14/11/2560	eLIBRARY, Web of Science, Scopus	A6	11, 15	9/4		Pikulina, P., Rozanov, E., Karagodin, A.
7	Exceptional middle latitude electron precipitation detected by balloon observations: implications for atmospheric composition	Статья	10.5194/acp-22-6703-2022	Atmospheric Chemistry and Physics Q1	1680-7324	22, 6703-6716 (2022)	https://acp.copernicus.org/articles/22/6703/2022/acp-22-6703-2022.html	eLIBRARY, Web of Science, Scopus	A7	7, 14	14/10		Sinnhuber M., Bazilevskaya G., Chilverd M., Funke B., Makhmurov V., Rozanov, E., Santee M. L., Sukhodolov T., and Ulich T.
8	Strongest directly observed Solar Proton Event of 23-Feb-1956: Revised reference for the cosmogenic-isotope method	Статья	10.2232/3/1.395.1319	Proceedings of Science	18248039	Vol. 395 (2022)	https://pos.sissa.it/395/1319/pdf	Web of Science, Scopus	A8	9, 15	8/1		Usoskin, I., Koldobskiy, S., Kovaltsov, G., Mishev, A.

9	Editorial: Atmospheric Electricity	Статья	10.3389/ feart.20 22.8535 84	Frontiers in Earth Science Q1	22966463	10:85358 4 (2022)	https://www.frontiersin.org/articles/10.3389/feart.2022.853584/full	eLIBRARY, Web of Science, Scopus	A9	10, 15	3/2	Füllekrug M, Kourtidis K and Mareev E.
10	Sensitivity of Surface Meteorology to Changes in Cloud Microphysics Associated with IMF B _y	Статья	10.1007/ 978-3- 030- 91467- 7_30	Springer Proceedings in Earth and Environment al Sciences	2524-3438 2524-342X	413-420 (2022)	https://link.springer.com/chapter/10.1007/978-3-030-91467-7_30	eLIBRARY, Web of Science, Scopus	A10	10, 15	8/4	Karagodin, A., Mironova, I., Rozanov, E.
11	Atmospheric Effects during the Precipitation of Energetic Electrons	Статья	10.3103/ S106287 3821110 228	Bulletin of the Russian Academy of Sciences: Physics Q3	85(11), pp. 1310-1313	85, 1310- 1313 (2021)	https://link.springer.com/article/10.3103/S1062873821110228	eLIBRARY, Web of Science, Scopus	A11	7, 14	4/2	Makhnutov V. S., Bazilevskaya G. A., Simhuber M., Rozanov E., Sukhodolov T., Gvozdevsky B. B., Svirzhevskya N. S
12	On Possible Causes of Positive Disturbance of Global Electronic Content during a Complex Heliogeophysical Event on September 2017	Статья	10.1134/ S001095 2521060 046	Cosmic Research Q3	00109525, 16083075	59(6), pp. 456-462 (2021)	https://link.springer.com/article/10.1134/S0010952521060046	eLIBRARY, Web of Science, Scopus	A12	10, 15	7/1	Klimenko, M.V., Klimenko, V.V., Bessarab, F.S., Rozanov, E.V.

	Stratospheric Ozone												
16	Polar winter mesospheric ozone depletion during energetic electron precipitation	Crarbya	10.1117/ 12.2603 373	Proceedings of SPIE - The International Society for Optical Engineering	0277786X1 996756X	11916 (2021)	https://doi.org/10.1117/12.2603373	eLIBRARY, Web of Science, Scopus	A16	7, 14	9/4	Grankin D. V., Rozanov E. V.	
17	Response of the upper atmosphere to irradiance increase after the solar flare on 6 September 2017	Crarbya	10.1117/ 12.2603 374	Proceedings of SPIE - The International Society for Optical Engineering	0277786X1 996756X	11916 (2021)	https://doi.org/10.1117/12.2603374	eLIBRARY, Web of Science, Scopus	A17	11, 15	5/2	Pkulina P. O., Rozanov E. V., Sukhodolov T. V., and Karagodin A. V.	
18	Energetic electron precipitation and their atmospheric effect	Crarbya	10.1051/ e3sconf/ 2020196 01005	E3S Web of Conferences	22671242	196, 01005 (2020)	https://www.e3s-conferences.org/articles/e3sconf/abstract/2020/56/e3sconf_strp_ep2020_01005.pdf	eLIBRARY, Web of Science, Scopus	A18	7, 14	7/6	Sinnhuber M., Rozanov E.	
19	Energetic Particle Precipitation during Extreme Space Weather	Crarbya	10.1051/ e3sconf/ 2020196 01006	E3S Web of Conferences	22671242	196, 01006 (2020)	https://www.e3s-conferences.org/articles/e3sconf/abstract/2020/56/e3sconf_strp_ep2020_01006.pdf	eLIBRARY, Web of Science, Scopus	A19	7, 14	7/4	Yakovchuk O.	

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	Events							3sconf_stp ep2020_01 006.pdf	eLIBRARY, Web of Science, Scopus						
20	Natural Sources of Ionization and Their Impact on Atmospheric Electricity	Статья	10.1029/2020GL088619	Geophysical Research Letters Q1	1944-8007	47, e2020GL088619 (2020)	https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2020GL088619	eLIBRARY, Web of Science, Scopus	A20	10	9/2		Golubenko, K., Rozanov, E., ... Karagodin, A., Usoskin, I.		
21	Revised Reference Solar Proton Event of 23 February 1956: Assessment of the Cosmogenic-Isotope Method Sensitivity to Extreme Solar Events	Статья	10.1029/2020JA027921	Journal of Geophysical Research: Space Physics Q2	21699380, 21699402	125, e2020JA02792 (2020)	https://agupubs.onlinelibrary.wiley.com/doi/fu/10.1029/2020JA027921	eLIBRARY, Web of Science, Scopus	A21	9, 15	13/1		Usoskin, I.G., Koldobskiy S.A., Kovaltsov, G.A., Mishev, A.L.		
22	The representation of ionospheric potential in the global chemistry-climate model SOCOL	Статья	10.1016/j.scitote.2019.134172	Science of the Total Environment Q1	00489697, 18791026	Vol.697, 134172 (2019)	https://www.w.sciencedirect.com/science/article/pii/S004896971934149X	eLIBRARY, Web of Science, Scopus	A22	10, 15	8/3		Karagodin, A., Rozanov, E., Mareev, E., Volodin, E., Golubenko, K.		
23	Spectra of high energy electron	Статья	10.1016/j.scitote.2019.	Science of the Total	00489697, 18791026	Vol.693, 133242	https://www.w.sciencedi	eLIBRARY, Web of Science,	A23	7, 14	9/7		Bazilevskaya, G.; Kovaltsov, G.;		

	precipitation and atmospheric ionization rates retrieval from balloon measurements		07.048	Environment	Q1		(2019)	rect.com/science/article/pii/S0048969719331614	Scopus					Artamonov, A.; Rozanov, E.; Mishev, A.; Makhmurov, V.; Karagodin, A.; Golubenko, K.
24	Impact of middle range energy electron precipitations on polar winter ozone losses	Справка	10.1051/e3sconf/201912701005	E3S Web of Conferences		22671242	127, 01005 (2019)	https://www.w.e3s-conferences.org/articles/e3sconf/pdf/2019/53/ef2019_53/e3sconf_strp2019_01005.pdf	eLIBRARY, Web of Science, Scopus	A24	7, 14	6/3	Golubenko K., Rozanov E.	
25	Results of Russian Studies of the Middle Atmosphere in 2015–2018	Справка	10.1134/S0001433819060069	Izvestiya - Atmospheric and Ocean Physics	Q3	00014338, 1555628X	55(6), pp. 537-551 (2019)	https://link.springer.com/article/10.1134/S0001433819060069	eLIBRARY, Web of Science, Scopus	A25	9, 15	15/8	Krivolutsky A. A., Repnev A.I., Gruzdev, A.N., Tunyants, T.I.	
26	Ionization of the Polar Atmosphere by Energetic Electron Precipitation Retrieved From Balloon Measurements	Справка	10.1029/2018GL079421	Geophysical Research Letters	Q1	1944-8007 (online)	46, 990–996 (2019)	https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2018GL079421	eLIBRARY, Web of Science, Scopus	A26	7, 14	7/6	Artamonov, A. A., Bazilevskaya, G., Rozanov, E., Kovaltsov, G. A., Makhmurov, V. S., Mishev A. L., Karagodin A. V.	
27	Response of the total ozone	Справка	10.1016/j.jastp.2	Journal of Atmospheric		13646826	Vol.180, pp.153-	https://www	eLIBRARY, Web of	A27	7, 14	6/4	Karagodin A., Artamonov A.,	

	to energetic electron precipitation events		017.12.009	and Solar-Terrestrial Physics Q2		158 (2018)	w.sciedirect.com/science/article/pii/S1364682617306983	Science, Scopus					Konstantinova N
28	Calculation of atmospheric ionization induced by electrons with non-vertical precipitation: Updated model CRAC-EPII	Статья	10.1016/j.asr.2017.02.019	Advances in Space Research Q2	02731177, 18791948	59(9), pp. 2295-2300 (2017)	https://www.w.sciedirect.com/science/article/pii/S0273117717301163	eLIBRARY, Web of Science, Scopus	A28	7, 14	6/2		Artamonov, A., Kovaltsov, G., Plotnikov, E., Konstantinova, N.
29	Changes in the chemical composition of the atmosphere in the polar regions of the Earth after solar proton flares (3d modeling)	Статья	10.1134/S0016793217020074	Geomagnetism and Aeronomy Q3	0016-7932	57, pages 156-176 (2017)	https://link.springer.com/article/10.1134/S0016793217020074	eLIBRARY, Web of Science, Scopus	A29	9, 15	21/8		Krivolutsky, A.A., Vyushkova, T.Y.
30	Computation of electron precipitation atmospheric ionization: Updated model CRAC-EPII	Статья	10.2232/3/1.301.0086	Proceedings of Science	18248039	Vol. 30 (2018)	https://pos.sissa.it/301/086/pdf	eLIBRARY, Web of Science, Scopus	A30	14	8/3		Mishev, A Artamonov, A. Kovaltsov, G. Usoskin, I.
31	Foreword: Special issue	Статья	doi.org/10.1016/	Journal of Atmospheric	13646826	149, pp. 146-150	https://www	eLIBRARY, Web of	A31	7	5/2		Rozanov, E., Georgieva, K.,

	on "Effects of the solar wind and interplanetary disturbances on the Earth's atmosphere and climate"		j:asp.2 016.08.0 12	and Solar- Terrestrial Physics Q2		(2016)	w.science direct.com/sc ience/articl e/pii/S1364 682616302 139	Science, Scopus					Tinsley B., Aylward A.
32	Energetic Particle Influence on the Earth's Atmosphere	Статья	10.1007/ s11214- 015- 0185-4	Space Science Reviews Q1	00386308, 15729672	194(1-4), pp. 1-96 (2015)	https://link.springer.com/article/10.1007/s11214-015-0185-4	eLIBRARY, Web of Science, Scopus	A32	7, 9, 14	96/70		Karen L. Aplin, Frank Arnold, Galina A. Bazilevskaya, R. Giles Harrison, Alexei A. Krivolutsky, Keri A. Nicoll, Eugene V. Rozanov, Esa Turune, Iya G. Usoskin
33	Aerosols over continental Portugal (1978-1993): Their sources and an impact on the regional climate	Статья	10.5194/ acp-15- 6407- 2015	Atmospheric Chemistry and Physics Q1	1680-7324	15, 6407- 6418 (2015)	https://acp.copernicus.org/articles/15/6407/2015/acp-15-6407-2015.pdf	eLIBRARY, Web of Science, Scopus	A33	11	12/2		Morozova A.
34	What is the solar influence on climate? Overview of activities	Статья	10.1186/ s40645- 014- 0024-3	Progress in Earth and Planetary Science Q1	21974284	1:24 (2014)	https://progearthplanet.sci.springeropen.com/articles/10.1186/s40645-014-0024-3	eLIBRARY, Web of Science, Scopus	A34	9, 15	12/3		Seppälä, A.; Matthes, K.; Randall, C.E

	during CAWSES-II					186/s40645 -014-0024- 3							
35	Possible effect of extreme solar energetic particle events of September- October 1989 on polar stratospheric aerosols: A case study	Статья	10.5194/ acp-13- 8543- 2013	Atmospheric Chemistry and Physics Q1	1680-7324	13(17), 8543- 8550 (2013)	https://acp.copernicus.org/articles/13/8543/2013/acp-13-8543-2013.pdf	eLIBRARY, Web of Science, Scopus	A35	9, 15	8/7		Usoskin I. G.
36	Possible effect of extreme solar energetic particle event of 20 January 2005 on polar stratospheric aerosols: Direct observational evidence	Статья	10.5194/ acp-12- 769- 2012	Atmospheric Chemistry and Physics Q1	1680-7324	12(2), 769-778 (2012)	https://acp.copernicus.org/articles/12/769/2012/acp-12-769-2012.pdf	eLIBRARY, Web of Science, Scopus	A36	9, 15	10/9		Usoskin, I. G., Kovaltsov, G. A., and Petelina, S. V.
37	The links between atmospheric vorticity, radiation belt electrons, and the solar wind	Статья	10.1016/ j.asr.201 1.03.043	Advances in Space Research Q2	02731177, 18791948	50(6), 783-790 (2012)	https://www.sciencedirect.com/science/article/pii/S0273117711002407	eLIBRARY, Web of Science, Scopus	A37	7, 9, 14	8/7		Tinsley, B., Zhou, L.
38	Ionization effect of solar particle GLE events in low and middle	Статья	10.5194/ acp-11- 1979- 2011,	Atmospheric Chemistry and Physics Q1	1680-7324	11(5), 1979- 1988 (2011)	https://acp.copernicus.org/articles/11/1979/2011/	eLIBRARY, Web of Science, Scopus	A38	8, 15	10/4		Usoskin I.G., Kovaltsov G.A. Tylka A.J., Dietrich, W.F.

	atmosphere		2011			11/acp-11-1979-2011.pdf							
39	Numerical model of cosmic ray induced ionization in the atmosphere CRAC:CRII	Старья	10.7529/ICRC2011/V11/0284	Proceedings of the 32nd International Cosmic Ray Conference, ICRC 2011	нет	https://www.w.elibrary.ru/item.asp?id=21882475	eLIBRARY, Web of Science, Scopus	A39	8, 9, 15	4/1		Usoskin, I., Kovaltsov, G.A.	
40	Cosmic ray induced ionization model CRAC:CRII: An extension to the upper atmosphere	Старья	10.1029/2009JD013142	Journal of Geophysical Research Atmospheres Q1	2169897X, 21698996	https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2009JD013142	eLIBRARY, Web of Science, Scopus	A40	8, 9, 15	6/2		Usoskin, I., Kovaltsov, G.A.	
41	Regional millennial trend in the cosmic ray induced ionization of the troposphere	Старья	10.1016/j.jastp.2009.10.003	Journal of Atmospheric and Solar-Terrestrial Physics Q2	13646826	https://www.sciencedirect.com/science/article/pii/S1364682609002594	eLIBRARY, Web of Science, Scopus	A41	9	7/3		Usoskin I.G., Korte M., Kovaltsov, G.A.	
42	Nature of decadal variations in the climatic data of the second half of the 20th century	Старья	10.1134/S1028334X09030155	Doklady Earth Sciences Q2	1028334X, 15318354	https://link.springer.com/article/10.1134/S1028334X09030155	eLIBRARY, Web of Science	A42	11	5/2		Barlyaeva, T.V., Ponyavin D	

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43	Variations of aerosol optical properties during the extreme solar event in January 2005	Статья	10.1029/2008GL035120	Geophysical Research Letters Q1	1944-8007	35, L18610, (2008)	https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2008GL035120	eLIBRARY, Web of Science, Scopus	A43	9, 15	5/4	Desorgher, L., Ussoskin I.G., Flückiger E.O., Bitikofer R.
44	Microphysical aerosol parameters from multiwavelength lidar	Статья	10.1364/JOSAA.22.000518	Journal of the Optical Society of America A: Optics and Image Science, and Vision Q1	1084-7529 (print) 1520-8532 (online)	22, 3, 518-528 (2005)	https://opg.optica.org/josaa/abstract.cfm?uri=josaa-22-3-518	eLIBRARY, Web of Science, Scopus	A44	9, 15	11/9	Böckmann, C., D.Müller, L.Schneidenhahn, R.Nessler
45	Increase in the aerosol content of the lower atmosphere after the solar proton flares in January and August 2002 according to data of lidar observations in Europe	Статья		Geomagnetics and Aeronomy Q3	0016-7932	45(2), 234-240 (2005)	https://www.elibrary.ru/item.asp?id=13490354	eLIBRARY, Web of Science, Scopus	A45	9, 15	6/5	Pudovkin M.I.
46	Variations of aerosol optical properties and solar proton events	Статья		European Space Agency, (Special Publication) ESA	03796566	2(561), 617-619 (2004)	https://www.elibrary.ru/item.asp?id=15037546	eLIBRARY, Web of Science, Scopus	A46	9, 15	3/2	Pudovkin, M.I., Böckmann, C.

47	The effect of solar activity on carbon dioxide concentration in the Lower Atmosphere	Статья	Geomagnetism and Aeronomy Q3	0016-7932	42(1), 128-138 (2002)	https://www.elibrary.ru/item.asp?id=13392037	ELIBRARY, Web of Science, Scopus	A47	11	4/4	
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Подтверждаю, что все основные научные результаты моей диссертации «Воздействие энергичных частиц на атмосферу Земли» опубликованы в вышеприведенных 47 публикациях, в том числе: в рецензируемых научных изданиях из перечня, утвержденного Минобрнауки РФ - «0» публикаций; в изданиях, индексируемых в наукометрических базах данных Web of Science и Scopus - «47» публикаций.

Вышеуказанные публикации прилагаются на электронном носителе.

18.08.2023



Миронова Ирина Александровна