

Sergey Pulinets

List of Publications by Year in descending order

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128
papers

4,931
citations

136940

32
h-index

102480

66
g-index

158
all docs

158
docs citations

158
times ranked

1293
citing authors

#	ARTICLE	IF	CITATIONS
1	Lithosphere-Atmosphere-Ionosphere Coupling (LAIC) model - An unified concept for earthquake precursors validation. <i>Journal of Asian Earth Sciences</i> , 2011, 41, 371-382.	2.3	484
2	Pre-earthquake ionospheric anomalies registered by continuous GPS TEC measurements. <i>Annales Geophysicae</i> , 2004, 22, 1585-1593.	1.6	408
3	Seismo-ionospheric signatures prior to M _w 6.0 Taiwan earthquakes. <i>Geophysical Research Letters</i> , 2000, 27, 3113-3116.	4.0	250
4	Main phenomenological features of ionospheric precursors of strong earthquakes. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2003, 65, 1337-1347.	1.6	227
5	Quasielectrostatic model of atmosphere-thermosphere-ionosphere coupling. <i>Advances in Space Research</i> , 2000, 26, 1209-1218.	2.6	205
6	Ionospheric Precursors of Earthquakes; Recent Advances in Theory and Practical Applications. <i>Terrestrial, Atmospheric and Oceanic Sciences</i> , 2004, 15, 413.	0.6	182
7	The physical nature of thermal anomalies observed before strong earthquakes. <i>Physics and Chemistry of the Earth</i> , 2006, 31, 143-153.	2.9	167
8	Ionospheric precursors of earthquakes and Global Electric Circuit. <i>Advances in Space Research</i> , 2014, 53, 709-723.	2.6	142
9	Physical bases of the generation of short-term earthquake precursors: A complex model of ionization-induced geophysical processes in the lithosphere-atmosphere-ionosphere-magnetosphere system. <i>Geomagnetism and Aeronomy</i> , 2015, 55, 521-538.	0.8	137
10	Satellite thermal IR phenomena associated with some of the major earthquakes in 1999-2003. <i>Physics and Chemistry of the Earth</i> , 2006, 31, 154-163.	2.9	124
11	Physical mechanism of the vertical electric field generation over active tectonic faults. <i>Advances in Space Research</i> , 2009, 44, 767-773.	2.6	124
12	Seismic activity as a source of the ionospheric variability. <i>Advances in Space Research</i> , 1998, 22, 903-906.	2.6	115
13	Thermal, atmospheric and ionospheric anomalies around the time of the Colima M7.8 earthquake of 21 January 2003. <i>Annales Geophysicae</i> , 2006, 24, 835-849.	1.6	115
14	Atmosphere-ionosphere response to the M9 Tohoku earthquake revealed by multi-instrument space-borne and ground observations: Preliminary results. <i>Earthquake Science</i> , 2011, 24, 557-564.	0.9	112
15	Title is missing!. <i>Cosmic Research</i> , 2003, 41, 221-230.	0.6	93
16	Radon and metallic aerosols emanation before strong earthquakes and their role in atmosphere and ionosphere modification. <i>Advances in Space Research</i> , 1997, 20, 2173-2176.	2.6	82
17	Formation mechanism of great positive TEC disturbances prior to Wenchuan earthquake on May 12, 2008. <i>Advances in Space Research</i> , 2011, 48, 488-499.	2.6	79
18	Improvements of the International Reference Ionosphere model for the topside electron density profile. <i>Radio Science</i> , 2006, 41, .	1.6	78

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19	Special case of ionospheric day-to-day variability associated with earthquake preparation. <i>Advances in Space Research</i> , 2007, 39, 970-977.	2.6	69
20	Variations of the ionospheric electron density during the Bhuj seismic event. <i>Annales Geophysicae</i> , 2004, 22, 4123-4131.	1.6	65
21	Verification of the concept of seismoionospheric coupling under quiet heliogeomagnetic conditions, using the Wenchuan (China) earthquake of May 12, 2008, as an example. <i>Geomagnetism and Aeronomy</i> , 2010, 50, 231-242.	0.8	64
22	Specific variations of air temperature and relative humidity around the time of Michoacan earthquake M8.1 Sept. 19, 1985 as a possible indicator of interaction between tectonic plates. <i>Tectonophysics</i> , 2007, 431, 221-230.	2.2	61
23	Natural radioactivity, earthquakes, and the ionosphere. <i>Eos</i> , 2007, 88, 217-218.	0.1	52
24	Strong earthquake prediction possibility with the help of topside sounding from satellites. <i>Advances in Space Research</i> , 1998, 21, 455-458.	2.6	51
25	Low-Latitude Atmosphere-Ionosphere Effects Initiated by Strong Earthquakes Preparation Process. <i>International Journal of Geophysics</i> , 2012, 2012, 1-14.	1.1	51
26	Seismo-ionospheric coupling appearing as equatorial electron density enhancements observed via DEMETER electron density measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8524-8542.	2.4	41
27	The synergy of earthquake precursors. <i>Earthquake Science</i> , 2011, 24, 535-548.	0.9	40
28	A nonlinear background removal method for seismo-ionospheric anomaly analysis under a complex solar activity scenario: A case study of the M9.0 Tohoku earthquake. <i>Advances in Space Research</i> , 2012, 50, 211-220.	2.6	39
29	Suspected seismo-ionospheric coupling observed by satellite measurements and GPS TEC related to the <i>M</i> 7.9 Wenchuan earthquake of 12 May 2008. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 10,305.	2.4	39
30	Ionospheric variability unrelated to solar and geomagnetic activity. <i>Advances in Space Research</i> , 2004, 34, 1926-1933.	2.6	37
31	A global empirical model of the ionospheric topside electron density. <i>Advances in Space Research</i> , 2004, 34, 2016-2020.	2.6	34
32	The ionospheric perturbations prior to the Chi-Chi and Chia-Yi earthquakes. <i>Journal of Geodynamics</i> , 2002, 33, 509-517.	1.6	32
33	Space technologies for short-term earthquake warning. <i>Advances in Space Research</i> , 2006, 37, 643-652.	2.6	31
34	A spatial analysis on seismo-ionospheric anomalies observed by DEMETER during the 2008 M8.0 Wenchuan earthquake. <i>Journal of Asian Earth Sciences</i> , 2015, 114, 414-419.	2.3	31
35	Intercosmos-19 observations of an additional topside ionization layer: the F3 layer. <i>Advances in Space Research</i> , 2001, 27, 1289-1292.	2.6	28
36	Ionospheric plasma modification in the vicinity of a spacecraft by powerful radio pulses in topside sounding. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1986, 48, 149-157.	0.9	26

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37	The Nocturnal Positive Ionospheric Anomaly of Electron Density as a Short-Term Earthquake Precursor and the Possible Physical Mechanism of Its Formation. <i>Geomagnetism and Aeronomy</i> , 2018, 58, 559-570.	0.8	26
38	Transient Effects in Atmosphere and Ionosphere Preceding the 2015 M7.8 and M7.3 Gorkhaâ€“Nepal Earthquakes. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	26
39	Longitude features shown by topside sounder data and their importance in ionospheric mapping. <i>Advances in Space Research</i> , 1990, 10, 57-66.	2.6	24
40	Ionospheric foF2 variations prior to strong earthquakes in Taiwan area. <i>Advances in Space Research</i> , 2001, 27, 1305-1310.	2.6	24
41	Atmospheric and ionospheric coupling phenomena associated with large earthquakes. <i>European Physical Journal: Special Topics</i> , 2021, 230, 197-225.	2.6	24
42	Resonant heating of the ionospheric plasma by powerful radiopulses aboard the Intercosmos-19 and Cosmos-1809 satellites. <i>Planetary and Space Science</i> , 1990, 38, 173-180.	1.7	23
43	Variability of the Earth's Atmospheric Electric Field and Ion-Aerosols Kinetics in the Troposphere. <i>Studia Geophysica Et Geodaetica</i> , 1998, 42, 197-210.	0.5	22
44	Recent advances in topside profile modeling. <i>Advances in Space Research</i> , 2002, 29, 815-823.	2.6	21
45	Role of variations in galactic cosmic rays in tropical cyclogenesis: Evidence of Hurricane Katrina. <i>Doklady Earth Sciences</i> , 2008, 422, 1124-1128.	0.7	21
46	Variations of equatorial electrojet as possible seismo-ionospheric precursor at the occurrence of TEC anomalies before strong earthquake. <i>Advances in Space Research</i> , 2012, 49, 509-517.	2.6	21
47	Morphology of midlatitude electron density enhancement using total electron content measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1503-1517.	2.4	18
48	Deterministic Variability of the Ionosphere on the Eve of Strong (M \geq 6) Earthquakes in the Regions of Greece and Italy According to Long-Term Measurements Data. <i>Geomagnetism and Aeronomy</i> , 2019, 59, 493-508.	0.8	18
49	A Lithosphereâ€“Atmosphereâ€“Ionosphere Coupling Phenomenon Observed Before M 7.7 Jamaica Earthquake. <i>Pure and Applied Geophysics</i> , 2021, 178, 3869-3886.	1.9	17
50	Observation of fundamental magnetoplasma emissions excited in magnetosphere by modulated electron beams. <i>Advances in Space Research</i> , 1995, 15, 21-24.	2.6	16
51	Unusual longitude modification of the night-time midlatitude F2 region ionosphere in July 1980 over the array of tectonic faults in the Andes area: Observations and interpretation. <i>Geophysical Research Letters</i> , 1998, 25, 4133-4136.	4.0	16
52	Unique variations of the total electron content in the preparation period of Haitian earthquake (M7.9) on January 12, 2010. <i>Geomagnetism and Aeronomy</i> , 2010, 50, 686-689.	0.8	15
53	Multiparameter monitoring of short-term earthquake precursors and its physical basis. Implementation in the Kamchatka region. <i>E3S Web of Conferences</i> , 2016, 11, 00019.	0.5	15
54	Title is missing!. <i>Radiophysics and Quantum Electronics</i> , 2002, 45, 262-268.	0.5	14

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55	Ground radon exhalation, an electrostatic contribution for upper atmospheric layers processes. <i>Radiation Measurements</i> , 2005, 40, 670-672.	1.4	14
56	Ionosphere Sounding for Pre-seismic Anomalies Identification (INSPIRE): Results of the Project and Perspectives for the Short-Term Earthquake Forecast. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	14
57	Investigation of Pre-Earthquake Ionospheric and Atmospheric Disturbances for Three Large Earthquakes in Mexico. <i>Geosciences (Switzerland)</i> , 2021, 11, 16.	2.2	14
58	The first results of the pilot project on complex diagnosing earthquake precursors on Sakhalin. <i>Geomagnetism and Aeronomy</i> , 2009, 49, 115-123.	0.8	13
59	Tropospheric and Ionospheric Anomalies Induced by Volcanic and Saharan Dust Events as Part of Geosphere Interaction Phenomena. <i>Geosciences (Switzerland)</i> , 2019, 9, 177.	2.2	13
60	Estimation of plasma density from wave data of cold electron plasma. <i>Advances in Space Research</i> , 1995, 15, 143-146.	2.6	12
61	Effect of mesoscale atmospheric vortex processes on the upper atmosphere and ionosphere of the Earth. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2012, 48, 871-878.	0.9	12
62	Approaches to studying the multiscale ionospheric structure using nanosatellites. <i>Geomagnetism and Aeronomy</i> , 2016, 56, 72-79.	0.8	12
63	Variation in natural short-period ionospheric noise, and acoustic and gravity waves revealed by the amplitude analysis of a VLF radio signal on the occasion of the Kraljevo earthquake ($M_w=5.4$). <i>Science of the Total Environment</i> , 2020, 710, 136406.	8.0	12
64	From Hector Mine M7.1 to Ridgecrest M7.1 Earthquake. A Look from a 20-Year Perspective. <i>Atmosphere</i> , 2021, 12, 262.	2.3	12
65	Characteristics of flux-time profiles, temporal evolution, and spatial distribution of radiation-belt electron precipitation bursts in the upper ionosphere before great and giant earthquakes. <i>Annals of Geophysics</i> , 2012, 55, .	1.0	12
66	Earthquake precursors. , 0, , 2-1-2-30.		12
67	The first real-time worldwide ionospheric predictions network: An advance in support of spaceborne experimentation, on-line model validation, and space weather. <i>Geophysical Research Letters</i> , 1998, 25, 449-452.	4.0	11
68	Synchronization of atmospheric indicators at the last stage of earthquake preparation cycle. <i>Research in Geophysics</i> , 2014, 4, .	0.7	11
69	Method for Cognitive Identification of Ionospheric Precursors of Earthquakes. <i>Geomagnetism and Aeronomy</i> , 2021, 61, 14-24.	0.8	11
70	The Global Electric Circuit and Global Seismicity. <i>Geosciences (Switzerland)</i> , 2021, 11, 491.	2.2	11
71	Ionospheric changes in response to IMF variations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1995, 57, 1415-1432.	0.9	9
72	Upper hybrid resonance related to a conducting satellite moving through the ionosphere. <i>Advances in Space Research</i> , 1990, 10, 173-175.	2.6	8

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73	Modelling bottom and topside electron density and TEC with profile data from topside ionograms. <i>Advances in Space Research</i> , 2001, 27, 31-34.	2.6	8
74	Algorithm for modeling electromagnetic channel of seismo-ionospheric coupling (SIC) and the variations in the electron concentration. <i>Acta Geophysica</i> , 2020, 68, 253-278.	2.0	8
75	Atmosphere-ionosphere coupling induced by volcanoes eruption and dust storms and role of GEC as the agent of geospheres interaction. <i>Advances in Space Research</i> , 2022, 69, 4319-4334.	2.6	8
76	Broad-band hectometric emission in the topside ionosphere created by ground-based transmitters. <i>Advances in Space Research</i> , 1990, 10, 177-180.	2.6	7
77	Responses to the preparation of strong Kamchatka earth-quakes in the lithosphereâ€“atmosphereâ€“ionosphere system, based on new data from integrated ground and iono-spheric monitoring. <i>E3S Web of Conferences</i> , 2020, 196, 03005.	0.5	7
78	Indoor Radon and Annual Effective Doses at a High Altitude Region in Central Mexico. <i>Journal of Applied Sciences</i> , 2005, 5, 1356-1362.	0.3	7
79	Results of the modeling of the topside electron density profile using the Chapman and Epstein functions. <i>Advances in Space Research</i> , 2002, 29, 871-876.	2.6	6
80	On the modulation of intensity of Alfvén resonances before earthquakes: Observations and model. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2010, 72, 1-6.	1.6	6
81	Earthquake science research with a microsatellite. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2003, 361, 169-173.	3.4	5
82	Reduction of the VLF Signal Phase Noise Before Earthquakes. <i>Atmosphere</i> , 2021, 12, 444.	2.3	5
83	Principles of organizing earthquake forecasting based on multiparameter sensor-WEB monitoring data. <i>E3S Web of Conferences</i> , 2020, 196, 03004.	0.5	5
84	Atmosphere response to pre-earthquake processes revealed by satellite and ground observations. Case study for few strong earthquakes in Xinjiang, China (2008-2014). <i>Annals of Geophysics</i> , 2020, 63, .	1.0	5
85	The waves observed in the ARAKS-North Experiment. <i>Advances in Space Research</i> , 1981, 1, 89-95.	2.6	4
86	Some Type of Broad-Band Emission in the Hectometric Frequency Range Observed Within the Ionosphere*. <i>Physica Scripta</i> , 1987, 35, 895-898.	2.5	4
87	The global distribution of ionospheric small-scale irregularities from topside sounding data. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1992, 54, 1303-1309.	0.9	4
88	Plasma wave radiation in the main ionospheric trough in the region of the terminator from the APEX satellite data. <i>Geomagnetism and Aeronomy</i> , 2006, 46, 717-723.	0.8	4
89	Ionosphere Disturbances Preceding Earthquakes according to the Data of Ground Based Station of the Vertical Ionospheric Sounding Wakkanaï. <i>Geomagnetism and Aeronomy</i> , 2018, 58, 686-692.	0.8	4
90	Detection of Ionospheric Disturbances above the Haiti Region on January 15, 2010, according to GPS Data Obtained in Quiet Geomagnetic Conditions. <i>Geomagnetism and Aeronomy</i> , 2019, 59, 743-751.	0.8	4

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91	The waves observed in the ARAKS-East experiment. <i>Advances in Space Research</i> , 1981, 1, 97-101.	2.6	3
92	Stimulated plasma resonances as an indicator of near-satellite plasma modification by powerful radio emission. <i>Advances in Space Research</i> , 1990, 10, 169-172.	2.6	3
93	The H.F. noises as indicator of the ionospheric trough location. <i>Advances in Space Research</i> , 1993, 13, 127-130.	2.6	3
94	Electromagnetic waves and electrostatic oscillations in an inhomogeneous plasma structure at the geomagnetic equator. <i>Geomagnetism and Aeronomy</i> , 2008, 48, 631-641.	0.8	3
95	Effects in the Ionosphere after the Chilean Earthquake on February 27, 2010, According to Data of Ground-based Ionosondes. <i>Geomagnetism and Aeronomy</i> , 2019, 59, 628-637.	0.8	3
96	Unitary Variation in the Seismic Regime of the Earth: Carnegie-Curve Matching. <i>Geomagnetism and Aeronomy</i> , 2020, 60, 787-792.	0.8	3
97	Ionospheric mapping using satellite data of natural HF noise. <i>Advances in Space Research</i> , 1990, 10, 71-74.	2.6	2
98	Prevention project: a complex geophysical observatory in Mexico as a test facility for lithosphereâ€“atmosphereâ€“ionosphere coupling models. <i>Physics and Chemistry of the Earth</i> , 2004, 29, 657-662.	2.9	2
99	Application of the thermal effect of the atmosphere ionization for remote diagnostics of the radioactive pollution of the atmosphere. <i>Doklady Earth Sciences</i> , 2011, 441, 1560-1563.	0.7	2
100	PRE-EARTHQUAKES, an FP7 project for integrating observations and knowledges on earthquake precursors: Preliminary results and strategy. , 2012, , .		2
101	Nonlinear broadband doubling of the extraordinary wave frequency in inhomogeneous magnetoactive plasma. <i>Plasma Physics Reports</i> , 2014, 40, 194-201.	0.9	2
102	Definition of disturbance and quietness with topside ionosonde data. <i>Advances in Space Research</i> , 1995, 16, 143-146.	2.6	1
103	Plasma inhomogeneities in the topside ionosphere in the region of the geomagnetic equator and wave radiation according to the APEX satellite data. <i>Geomagnetism and Aeronomy</i> , 2009, 49, 210-218.	0.8	1
104	Space plasma environment at high and polar latitudes by the Cosmos 1809 satellite topside sounder data. , 2011, , .		1
105	Radiophysical techniques of short-term earthquake precursors and their congruence. The case of L'Aquila earthquake of 06 April 2009. , 2011, , .		1
106	Computation of the key parameters of radio signals propagating through a perturbed ionosphere in the land-satellite channel. <i>Geomagnetism and Aeronomy</i> , 2013, 53, 204-215.	0.8	1
107	Validation of Lithosphere-Atmosphere-Ionosphere coupling concept by geo space observation of natural and anthropogenic processes. , 2014, , .		1
108	The physical background and GPS TEC processing technology for identification of ionospheric anomalies forming over seismically active zones and leading to GNSS signals degradation. , 2015, , .		1

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109	RECOGNITION AND INTERPRETATION OF THE SPATIAL IRREGULARITIES IONOSPHERE FOR FEBRUARY AND MARCH 2010 OVER THE SEISMIC ZONES OF SOUTH AMERICA BY RADIOPHYSICAL METHODS. Radio Communication Technology, 2021, , 7-23.	0.0	1
110	Thermal radiation effects in the atmosphere initiated by pre-earthquake processes. , 2020, , .		1
111	New assessment of linear instrumental ground resolution of Earth remote sensing spacecraft for perfect design of its optoelectronic equipment. Sovremennye Problemy Distantionnogo Zondirovaniya Zemli Iz Kosmosa, 2020, 17, 59-67.	0.5	1
112	Cloud anomalies and earthquakes. Geologiya I Geofizika Yuga Rossii, 2020, , .	0.3	1
113	Electrostatic Noise Spectrum at the Electron Cyclotron Frequency and Electromagnetic Emission in the Inhomogeneous Plasma of the Topside Ionosphere. Cosmic Research, 2005, 43, 192-198.	0.6	0
114	Wave emission during a plasma density jump in the auroral zone of the topside ionosphere according to the APEX satellite data. Geomagnetism and Aeronomy, 2007, 47, 739-749.	0.8	0
115	Electrostatic radiation of plasma in the upper ionosphere in the inhomogeneous geomagnetic field. Geomagnetism and Aeronomy, 2009, 49, 1254-1256.	0.8	0
116	Short timescale variations in ionosphere caused by irregular solar electromagnetic radiation. , 2012, , .		0
117	Electromagnetic effects in atmosphere, ionosphere and magnetosphere initiated by earthquake preparation process. , 2014, , .		0
118	Global Electric Circuit as a Medium for Inter-Geospheres Coupling. , 2018, , .		0
119	Complex Sounding of The Ionosphere in The Space Experiment on Board of The International Space Station and Transport Cargo "Progress", 2019, , .		0
120	Determination of Ionospheric Disturbances over Seismic Sources During Large Earthquakes of 2010 by Radiophysical Methods under Conditions of Quiet Geomagnetic Field. , 2019, , .		0
121	ÐžÐž Ð•ÐÐšÐ•Ð'ÐžÐ—ÐœÐžÐ—ÐÐžÐ“Ðž ÐÐÐ—Ð'Ð~ÐÐÐ~Ð~ Ð'Ð«Ð;ÐžÐšÐžÐÐÐ•ÐÐ“Ð~ÐšÐÐžÐ“Ðž Ð“ÐÐœÐœÐ•Ð~Ð—Ð•ÐšÐšÐ•ÐÐ		0
122	System for monitoring and forecasting emergencies: Structure development and prospects of creation. Sovremennye Problemy Distantionnogo Zondirovaniya Zemli Iz Kosmosa, 2017, 14, 41-51.	0.5	0
123	What is the meaning of a short-term earthquake forecast?. , 0, , .		0
124	Principles of physical-based short-term EQ forecast. , 0, , .		0
125	Multi-parameter exploration of pre-Eq phenomena. , 0, , .		0
126	Short-term physical precursors and their association with Earth inter-geospheres interaction. , 0, , .		0

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127	Monitoring of Physical Processes in Upper Atmosphere, Ionosphere and Magnetosphere in Ionosphere Space Missions. EPJ Web of Conferences, 2021, 254, 02010.	0.3	0
128	Mock-Up of Information Service for Automated Monitoring and Short-Term Forecasting of Severe Earthquakes in the Kamchatka-Sakhalin Region. Rocket-Space Device Engineering and Information Systems, 2021, 8, 3-15.	0.1	0