Sergey Pulinets

List of Publications by Year
in descending order

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128	4,931	136950	102487
papers	citations	32 h-index	66 g-index

158	158	158	1293
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lithosphereâ€“Atmosphereâ€“Ionosphere Coupling (LAIC) model â€“ An unified concept for earthquake precursors validation. Journal of Asian Earth Sciences, 2011, 41, 371-382.	2.3	484
2	Pre-earthquake ionospheric anomalies registered by continuous GPS TEC measurements. Annales Geophysicae, 2004, 22, 1585-1593.	1.6	408
3	Seismo-ionospheric signatures prior to Mâ‰¥6.0 Taiwan earthquakes. Geophysical Research Letters, 2000, 27, 3113-3116.	4.0	250
4	Main phenomenological features of ionospheric precursors of strong earthquakes. Journal of Atmospheric and Solar-Terrestrial Physics, 2003, 65, 1337-1347.	1.6	227
5	Quasielectrostatic model of atmosphere-thermosphere-ionosphere coupling. Advances in Space Research, 2000, 26, 1209-1218.	2.6	205
6	Ionospheric Precursors of Earthquakes; Recent Advances in Theory and Practical Applications. Terrestrial, Atmospheric and Oceanic Sciences, 2004, 15, 413.	0.6	182
7	The physical nature of thermal anomalies observed before strong earthquakes. Physics and Chemistry of the Earth, 2006, 31, 143-153.	2.9	167
8	Ionospheric precursors of earthquakes and Global Electric Circuit. Advances in Space Research, 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. Geomagnetism and Aeronomy, 2015, 55, 521-538.	0.8	137
10	Satellite thermal IR phenomena associated with some of the major earthquakes in 1999â€“2003. Physics and Chemistry of the Earth, 2006, 31, 154-163.	2.9	124
11	Physical mechanism of the vertical electric field generation over active tectonic faults. Advances in Space Research, 2009, 44, 767-773.	2.6	124
12	Seismic activity as a source of the ionospheric variability. Advances in Space Research, 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. Annales Geophysicae, 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. Earthquake Science, 2011, 24, 557-564.	0.9	112
15	Title is missing!. Cosmic Research, 2003, 41, 221-230.	0.6	93
16	Radon and metallic aerosols emanation before strong earthquakes and their role in atmosphere and ionosphere modification. Advances in Space Research, 1997, 20, 2173-2176.	2.6	82
17	Formation mechanism of great positive TEC disturbances prior to Wenchuan earthquake on May 12, 2008. Advances in Space Research, 2011, 48, 488-499.	2.6	79
18	Improvements of the International Reference Ionosphere model for the topside electron density profile. Radio Science, 2006, 41, .	1.6	78

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19	Special case of ionospheric day-to-day variability associated with earthquake preparation. Advances in Space Research, 2007, 39, 970-977.	2.6	69
20	Variations of the ionospheric electron density during the Bhuj seismic event. Annales Geophysicae, 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. Geomagnetism and Aeronomy, 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. Tectonophysics, 2007, 431, 221-230.	2.2	61
23	Natural radioactivity, earthquakes, and the ionosphere. Eos, 2007, 88, 217-218.	0.1	52
24	Strong earthquake prediction possibility with the help of topside sounding from satellites. Advances in Space Research, 1998, 21, 455-458.	2.6	51
25	Low-Latitude Atmosphere-Ionosphere Effects Initiated by Strong Earthquakes Preparation Process. International Journal of Geophysics, 2012, 2012, 1-14.	1.1	51
26	Seismoâ€ionospheric coupling appearing as equatorial electron density enhancements observed via DEMETER electron density measurements. Journal of Geophysical Research: Space Physics, 2014, 119, 8524-8542.	2.4	41
27	The synergy of earthquake precursors. Earthquake Science, 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. Advances in Space Research, 2012, 50, 211-220.	2.6	39
29	Suspected seismoâ€ionospheric coupling observed by satellite measurements and GPS TEC related to the M7.9 Wenchuan earthquake of 12 May 2008. Journal of Geophysical Research: Space Physics, 2014, 119, 10,305.	2.4	39
30	Ionospheric variability unrelated to solar and geomagnetic activity. Advances in Space Research, 2004, 34, 1926-1933.	2.6	37
31	A global empirical model of the ionospheric topside electron density. Advances in Space Research, 2004, 34, 2016-2020.	2.6	34
32	The ionospheric perturbations prior to the Chi-Chi and Chia-Yi earthquakes. Journal of Geodynamics, 2002, 33, 509-517.	1.6	32
33	Space technologies for short-term earthquake warning. Advances in Space Research, 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. Journal of Asian Earth Sciences, 2015, 114, 414-419.	2.3	31
35	Intercosmos-19 observations of an additional topside ionization layer: the F3 layer. Advances in Space Research, 2001, 27, 1289-1292.	2.6	28
36	Ionospheric plasma modification in the vicinity of a spacecraft by powerful radio pulses in topside sounding. Journal of Atmospheric and Solar-Terrestrial Physics, 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. Geomagnetism and Aeronomy, 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. Frontiers in Earth Science, 2021, 9, .	1.8	26
39	Longitude features shown by topside sounder data and their importance in ionospheric mapping. Advances in Space Research, 1990, 10, 57-66.	2.6	24
40	Ionospheric foF2 variations prior to strong earthquakes in Taiwan area. Advances in Space Research, 2001, 27, 1305-1310.	2.6	24
41	Atmospheric and ionospheric coupling phenomena associated with large earthquakes. European Physical Journal: Special Topics, 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. Planetary and Space Science, 1990, 38, 173-180.	1.7	23
43	Variability of the Earth's Atmospheric Electric Field and Ion-Aerosols Kinetics in the Troposphere. Studia Geophysica Et Geodaetica, 1998, 42, 197-210.	0.5	22
44	Recent advances in topside profile modeling. Advances in Space Research, 2002, 29, 815-823.	2.6	21
45	Role of variations in galactic cosmic rays in tropical cyclogenesis: Evidence of Hurricane Katrina. Doklady Earth Sciences, 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. Advances in Space Research, 2012, 49, 509-517.	2.6	21
47	Morphology of midlatitude electron density enhancement using total electron content measurements. Journal of Geophysical Research: Space Physics, 2016, 121, 1503-1517.	2.4	18
48	Deterministic Variability of the Ionosphere on the Eve of Strong (M â‰¥ 6) Earthquakes in the Regions of Greece and Italy According to Long-Term Measurements Data. Geomagnetism and Aeronomy, 2019, 59, 493-508.	0.8	18
49	A Lithosphereâ€“Atmosphereâ€“Ionosphere Coupling Phenomenon Observed Before M 7.7 Jamaica Earthquake. Pure and Applied Geophysics, 2021, 178, 3869-3886.	1.9	17
50	Observation of fundamental magnetoplasma emissions excited in magnetosphere by modulated electron beams. Advances in Space Research, 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. Geophysical Research Letters, 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. Geomagnetism and Aeronomy, 2010, 50, 686-689.	0.8	15
53	Multiparameter monitoring of short-term earthquake precursors and its physical basis. Implementation in the Kamchatka region. E3S Web of Conferences, 2016, 11, 00019.	0.5	15
54	Title is missing!. Radiophysics and Quantum Electronics, 2002, 45, 262-268.	0.5	14

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55	Ground radon exhalation, an electrostatic contribution for upper atmospheric layers processes. Radiation Measurements, 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. Frontiers in Earth Science, 2021, 9, .	1.8	14
57	Investigation of Pre-Earthquake Ionospheric and Atmospheric Disturbances for Three Large Earthquakes in Mexico. Geosciences (Switzerland), 2021, 11, 16.	2.2	14
58	The first results of the pilot project on complex diagnosing earthquake precursors on Sakhalin. Geomagnetism and Aeronomy, 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. Geosciences (Switzerland), 2019, 9, 177.	2.2	13
60	Estimation of plasma density from wave data of cold electron plasma. Advances in Space Research, 1995, 15, 143-146.	2.6	12
61	Effect of mesoscale atmospheric vortex processes on the upper atmosphere and ionosphere of the Earth. Izvestiya - Atmospheric and Oceanic Physics, 2012, 48, 871-878.	0.9	12
62	Approaches to studying the multiscale ionospheric structure using nanosatellites. Geomagnetism and Aeronomy, 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 (Mwâ€¯=â€¯5.4). Science of the Total Environment, 2020, 710, 136406.	8.0	12
64	From Hector Mine M7.1 to Ridgecrest M7.1 Earthquake. A Look from a 20-Year Perspective. Atmosphere, 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. Annals of Geophysics, 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. Geophysical Research Letters, 1998, 25, 449-452.	4.0	11
68	Synchronization of atmospheric indicators at the last stage of earthquake preparation cycle. Research in Geophysics, 2014, 4, .	0.7	11
69	Method for Cognitive Identification of Ionospheric Precursors of Earthquakes. Geomagnetism and Aeronomy, 2021, 61, 14-24.	0.8	11
70	The Global Electric Circuit and Global Seismicity. Geosciences (Switzerland), 2021, 11, 491.	2.2	11
71	Ionospheric changes in response to IMF variations. Journal of Atmospheric and Solar-Terrestrial Physics, 1995, 57, 1415-1432.	0.9	9
72	Upper hybrid resonance related to a conducting satellite moving through the ionosphere. Advances in Space Research, 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. Advances in Space Research, 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. Acta Geophysica, 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. Advances in Space Research, 2022, 69, 4319-4334.	2.6	8
76	Broad-band hectometric emission in the topside ionosphere created by ground-based transmitters. Advances in Space Research, 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. E3S Web of Conferences, 2020, 196, 03005.	0.5	7
78	Indoor Radon and Annual Effective Doses at a High Altitude Region in Central Mexico. Journal of Applied Sciences, 2005, 5, 1356-1362.	0.3	7
79	Results of the modeling of the topside electron density profile using the Chapman and Epstein functions. Advances in Space Research, 2002, 29, 871-876.	2.6	6
80	On the modulation of intensity of AlfvÃ©n resonances before earthquakes: Observations and model. Journal of Atmospheric and Solar-Terrestrial Physics, 2010, 72, 1-6.	1.6	6
81	Earthquake science research with a microsatellite. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2003, 361, 169-173.	3.4	5
82	Reduction of the VLF Signal Phase Noise Before Earthquakes. Atmosphere, 2021, 12, 444.	2.3	5
83	Principles of organizing earthquake forecasting based on multiparameter sensor-WEB monitoring data. E3S Web of Conferences, 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). Annals of Geophysics, 2020, 63, .	1.0	5
85	The waves observed in the ARAKS-North Experiment. Advances in Space Research, 1981, 1, 89-95.	2.6	4
86	Some Type of Broad-Band Emission in the Hectometric Frequency Range Observed Within the Ionosphere*. Physica Scripta, 1987, 35, 895-898.	2.5	4
87	The global distribution of ionospheric small-scale irregularities from topside sounding data. Journal of Atmospheric and Solar-Terrestrial Physics, 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. Geomagnetism and Aeronomy, 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 Wakkanai. Geomagnetism and Aeronomy, 2018, 58, 686-692.	0.8	4
90	Detection of Ionospheric Disturbances above the Haiti Region on January 1â€“15, 2010, according to GPS Data Obtained in Quiet Geomagnetic Conditions. Geomagnetism and Aeronomy, 2019, 59, 743-751.	0.8	4

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91	The waves observed in the ARAKS-East experiment. Advances in Space Research, 1981, 1, 97-101.	2.6	3
92	Stimulated plasma resonances as an indicator of near-satellite plasma modification by powerful radio emission. Advances in Space Research, 1990, 10, 169-172.	2.6	3
93	The H.F. noises as indicator of the ionospheric trough location. Advances in Space Research, 1993, 13, 127-130.	2.6	3
94	Electromagnetic waves and electrostatic oscillations in an inhomogeneous plasma structure at the geomagnetic equator. Geomagnetism and Aeronomy, 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. Geomagnetism and Aeronomy, 2019, 59, 628-637.	0.8	3
96	Unitary Variation in the Seismic Regime of the Earth: Carnegie-Curve Matching. Geomagnetism and Aeronomy, 2020, 60, 787-792.	0.8	3
97	Ionospheric mapping using satellite data of natural HF noise. Advances in Space Research, 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. Physics and Chemistry of the Earth, 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. Doklady Earth Sciences, 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. Plasma Physics Reports, 2014, 40, 194-201.	0.9	2
102	Definition of disturbance and quietness with topside ionosonde data. Advances in Space Research, 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. Geomagnetism and Aeronomy, 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. Geomagnetism and Aeronomy, 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 â€“ 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 Distantsionnogo 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 â€œProgressâ€• , 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	ÐžÐ¦Ð•ÐÐšÐ•Ð'ÐžÐ—ÐœÐžÐ–ÐÐžÐ"Ðž ÐÐÐ—Ð'Ð˜Ð¢Ð˜Ð¯ Ð'Ð«Ð¡ÐžÐšÐžÐÐ•ÐÐ"Ð˜Ð§ÐÐžÐ"Ðž Ð"ÐÐœÐœÐ•Ð˜Ð—Ð›Ð£Ð•ÐÐ		
122	System for monitoring and forecasting emergencies: Structure development and prospects of creation. Sovremennye Problemy Distantsionnogo 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