

# Alexander Stepanov

## List of Publications by Year in descending order

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94  
papers

1,101  
citations

471509

17  
h-index

434195

31  
g-index

96  
all docs

96  
docs citations

96  
times ranked

431  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Origin of Persistent Radio and X-ray Emission from Brown Dwarf TVLM 513-46546. Universe, 2022, 8, 77.	2.5	3
2	X-Ray Emission From Ultracool Stars. Izvestiya Vysshikh Uchebnykh Zavedenij Radiofizika, 2021, 64, 419-429.	0.1	0
3	X-Ray Emission from Ultracool Stars. Radiophysics and Quantum Electronics, 2021, 64, 379-387.	0.5	1
4	Magnetic-Field Concentration and the Twisted Solar Coronal Loops. Geomagnetism and Aeronomy, 2021, 61, 1052-1056.	0.8	1
5	Photospheric Source of White-Light Flare Energy. Geomagnetism and Aeronomy, 2021, 61, 917-922.	0.8	0
6	Type-II Spicules as Important Sources of Both Heating and Sustain the Mass Loss of Solar Corona. Geomagnetism and Aeronomy, 2021, 61, 1116-1121.	0.8	1
7	On the Possibility of Heating the Solar Corona by Heat Fluxes from Coronal Magnetic Structures. Solar Physics, 2020, 295, 1.	2.5	7
8	On the Stabilization of a Twisted Magnetic Flux Tube. Astrophysical Journal, 2020, 901, 99.	4.5	10
9	Evolution of Electric Current and Resistance in the Flare Loop in the Course of Loop Shrinkage. Geomagnetism and Aeronomy, 2020, 60, 915-920.	0.8	3
10	Coronal Loops and Optical Radiation from Flaring Stars. Geomagnetism and Aeronomy, 2020, 60, 1067-1070.	0.8	1
11	Dynamic Model of Magnetic Flux Ropes. Geomagnetism and Aeronomy, 2019, 59, 806-809.	0.8	1
12	Flare Energy Release and Electron Acceleration to Relativistic Energies by Quasi-Stationary Electric Fields in the Lower Atmosphere of the Sun. Geomagnetism and Aeronomy, 2019, 59, 789-792.	0.8	3
13	Particle Acceleration by Induced Electric Fields in Course of Electric Current Oscillations in Coronal Magnetic Loops. Geomagnetism and Aeronomy, 2018, 58, 831-840.	0.8	3
14	Slowly Varying Component of Radio Emission from TVLM 513-46546 and Continuous Sources of High Energy Electrons in the Coronae of UltraCool Stars. Geomagnetism and Aeronomy, 2018, 58, 1144-1148.	0.8	1
15	On the Description of Transverse Wave Propagation Along Thin Magnetic Flux Tubes. Geomagnetism and Aeronomy, 2018, 58, 942-946.	0.8	2
16	Frequency rising sub-THz emission from solar flare ribbons. Astronomy and Astrophysics, 2018, 620, A95.	5.1	13
17	Prominence activation by increase in electric current. Journal of Atmospheric and Solar-Terrestrial Physics, 2018, 179, 149-153.	1.6	12
18	Acceleration and Storage of Energetic Electrons in Magnetic Loops in the Course of Electric Current Oscillations. Solar Physics, 2017, 292, 1.	2.5	9

#	ARTICLE	IF	CITATIONS
19	On the Origin of Intense Radio Emission from the Brown Dwarfs. Radiophysics and Quantum Electronics, 2017, 59, 867-875.	0.5	6
20	Modification of "Compressed" Atmospheres in Active Regions of Ultracool Stars. Geomagnetism and Aeronomy, 2017, 57, 859-863.	0.8	1
21	Generation of superDreicer electric fields in the solar chromosphere. Geomagnetism and Aeronomy, 2016, 56, 903-907.	0.8	1
22	The challenges of the models of solar flares. Geomagnetism and Aeronomy, 2016, 56, 952-971.	0.8	5
23	Time delays in the nonthermal radiation of solar flares according to observations of the CORONAS-F satellite. Cosmic Research, 2016, 54, 285-289.	0.6	0
24	Acoustic and Slow Sausage Oscillations in the Stratified Solar Photosphere: Hinode Observations and Phase Relationships. Solar Physics, 2016, 291, 3349-3356.	2.5	6
25	Rayleigh-Taylor Instability and Excitation of Super-Dreicer Electric Fields in the Solar Chromosphere. Solar Physics, 2016, 291, 3451-3459.	2.5	15
26	Accumulation of accelerated electrons in coronal loops and time delays of solar flare nonthermal emission. Geomagnetism and Aeronomy, 2015, 55, 979-982.	0.8	1
27	Frozen-In Magnetic Field Lines and Alfvén Wave Generation in Weakly Ionized Plasma. Solar Physics, 2015, 290, 1923-1929.	2.5	1
28	Particle Acceleration and Plasma Heating in the Chromosphere. Solar Physics, 2015, 290, 3559-3572.	2.5	18
29	Quasi-periodic pulsations and diagnostics of flaring plasma. Geomagnetism and Aeronomy, 2014, 54, 969-981.	0.8	2
30	On the Origin of Pulsations of Sub-THz Emission from Solar Flares. Solar Physics, 2014, 289, 3017-3032.	2.5	15
31	On the Origin of Pulsations of Sub-THz Emission from Solar Flares. , 2014, , 395-410.		0
32	Pulsations of non-thermal emissions from the solar flare of November 5, 1992 and the trap-plus-precipitation model. Bulletin of the Crimean Astrophysical Observatory, 2013, 109, 90-97.	0.1	0
33	Sub-terahertz emission from solar flares: The plasma mechanism of chromospheric emission. Astronomy Letters, 2013, 39, 650-659.	1.0	19
34	Time delay in pulsations of the nonthermal radiation of solar flares. Geomagnetism and Aeronomy, 2013, 53, 827-830.	0.8	0
35	Oscillating Magnetic Trap and Non-Thermal Emission from Solar Flares. Publication of the Astronomical Society of Japan, 2013, 65, S6.	2.5	4
36	Dynamics of accelerated electron beams and X rays in solar flares with sub-THz radiation. Geomagnetism and Aeronomy, 2012, 52, 1015-1020.	0.8	1

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37	Ambipolar diffusion and magnetic reconnection. <i>Astronomy Reports</i> , 2012, 56, 138-145.	0.9	6
38	Diagnostics of a flare on EQ Peg B from optical pulsations. <i>Astronomy Letters</i> , 2011, 37, 49-54.	1.0	8
39	On the origin of the high-Q high-frequency oscillations of magnetars. <i>Astronomy Letters</i> , 2011, 37, 276-280.	1.0	4
40	Pulsations of optical radiation during the flare of YZ CMi occurred on February 9, 2008. <i>Kinematics and Physics of Celestial Bodies</i> , 2011, 27, 154-159.	0.6	4
41	Energy Flux of Alfvén Waves in Weakly Ionized Plasma and Coronal Heating of the Sun. <i>Solar Physics</i> , 2011, 270, 205-211.	2.5	15
42	QUASI-PERIODIC OSCILLATIONS FROM STELLAR FLARES AND DIAGNOSTICS OF FLARING PLASMA. , 2011, , 195-217.		0
43	10.1007/s11443-008-1006-9. , 2010, 34, 52.		0
44	10.1007/s11447-008-1013-4. , 2010, 106, 154.		0
45	Ballooning Instability in Coronal Flare Loops. <i>Solar Physics</i> , 2008, 253, 161-172.	2.5	22
46	Polarization of the H $\beta$ emission and proton isotropization in solar flares. <i>Astronomy Letters</i> , 2008, 34, 52-58.	1.0	4
47	Alfvén modes of solar coronal magnetic arches: Excitation of ballooning instability and modulation of flare emission. <i>Cosmic Research</i> , 2008, 46, 294-300.	0.6	5
48	Turbulent propagation of high-energy electrons in a solar coronal loop. <i>Astronomy and Astrophysics</i> , 2007, 465, 613-619.	5.1	17
49	Oscillations of coronal loops and second pulsations of solar radio emission. <i>Astronomy Letters</i> , 2007, 33, 706-713.	1.0	47
50	Quasi-periodic Pulsations as a Diagnostic Tool for Coronal Plasma Parameters. , 2007, , 221-250.		13
51	Ballooning instability and oscillations of coronal loops. <i>Astronomy Reports</i> , 2006, 50, 1026-1035.	0.9	8
52	Soft X-ray oscillations from AT Mic: Flare plasma diagnostics. <i>Astronomy Letters</i> , 2006, 32, 569-573.	1.0	8
53	On the Possible Connection between Photospheric 5-Min Oscillation and Solar Flare Microwave Emission. <i>Solar Physics</i> , 2006, 233, 89-106.	2.5	21
54	Oscillations of optical emission from flare stars and coronal loop diagnostics. <i>Astronomy Letters</i> , 2005, 31, 612-619.	1.0	15

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55	Plasma processes in coronal magnetic arcs. Journal of Optical Technology (A Translation of) Tj ETQq1 1 0.784314 rgBT /Overlock 10 TTS	0.4	10
56	Pulsating microwave emission from the star AD Leo. Astronomy Letters, 2004, 30, 319-324.	1.0	26
57	Pulsations of microwave emission and flare plasma diagnostics. Astronomy Letters, 2004, 30, 480-488.	1.0	29
58	On the nature of optical oscillations on the flare stars. Proceedings of the International Astronomical Union, 2004, 2004, 391-392.	0.0	1
59	Coronal loops and pulsations of radiation from flare stars. KosmÃ-Ãna Nauka Ã- TehnologÃ-Ãç, 2004, 10, 141-144.	0.5	0
60	Spectral-temporal evolution of low-frequency pulsations in the microwave radiation of solar flares. Astronomy Reports, 2003, 47, 873-882.	0.9	14
61	Microwave imaging observation of an electron stream in a solar flare. Advances in Space Research, 2003, 32, 2517-2520.	2.6	0
62	Comparative analysis of loss-cone instabilities in the coronae of the Sun and stars. KosmÃ-Ãna Nauka Ã- TehnologÃ-Ãç, 2003, 8, 144-146.	0.5	0
63	Radial oscillations of coronal loops and microwave radiation from solar flares. Astronomy Letters, 2002, 28, 783-791.	1.0	30
64	Electronâ€“Whistler Interaction in Coronal Loops and Radiation Signatures. Solar Physics, 2002, 211, 135-154.	2.5	46
65	Microwave Observations of the Rapid Propagation of Nonthermal Sources in a Solar Flare by the Nobeyama Radioheliograph. Astrophysical Journal, 2002, 576, L87-L90.	4.5	39
66	Microwave plasma emission of a flare on AD Leo. Astronomy and Astrophysics, 2001, 374, 1072-1084.	5.1	56
67	Low-Frequency Pulsations of Coronal Magnetic Loops. Radiophysics and Quantum Electronics, 2001, 44, 36-52.	0.5	4
68	Strongly Beamed, Polarized Radio Emission from CU Virginis. Radiophysics and Quantum Electronics, 2001, 44, 726-732.	0.5	4
69	Peculiarities of the plasma mechanism of radio emission from late-type stars. Astronomy Letters, 2000, 26, 736-742.	1.0	4
70	Secondâ€“Harmonic Plasma Radiation of Magnetically Trapped Electrons in Stellar Coronae. Astrophysical Journal, 1999, 524, 961-973.	4.5	39
71	Electrostatic Wave Instability and Plasma Radiation from Coronal Loops. Solar Physics, 1997, 176, 147-152.	2.5	6
72	Radio-wave diagnostics of interstellar flares in binary systems. New Astronomy Reviews, 1997, 41, 203-206.	0.3	5

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73	On the Origin of Intense Radio Emission from Solar and Stellar Flares. , 1996, , 281-282.		0
74	Multifrequency Analysis of a UV Ceti Flare on 1991 December 31. International Astronomical Union Colloquium, 1995, 151, 89-90.	0.1	0
75	Microwave burst of November 17, 1991: Evidence of fragmented particle injection into a coronal loop. Space Science Reviews, 1994, 68, 205-210.	8.1	6
76	Comparison of mm-wave and X-ray diagnostics of flare plasma. Solar Physics, 1994, 154, 317-334.	2.5	12
77	Particle acceleration in flares. Solar Physics, 1994, 153, 33-53.	2.5	14
78	Energy transport and dynamics. Solar Physics, 1994, 153, 55-72.	2.5	5
79	Radio signature of fragmented electron injection into a coronal loop. Solar Physics, 1994, 153, 403-417.	2.5	27
80	Microwave Burst of November 17, 1991: Evidence of Fragmented Particle Injection into a Coronal Loop. , 1994, , 205-210.		3
81	Diagnostics of solar flare and evaporated plasma using mm-wave emission. Solar Physics, 1992, 140, 139-148.	2.5	17
82	Towards the circuit theory of solar flares. Solar Physics, 1992, 139, 343-356.	2.5	61
83	Consequences of strong pitch-angle diffusion of particles in solar flares. Astrophysical Journal, 1991, 374, 369.	4.5	41
84	Energetic Particles in a Flare Loop: Spectra and Radiation Signatures. Symposium - International Astronomical Union, 1990, 142, 421-427.	0.1	0
85	Energetic Particles in a Flare Loop: Spectra and Radiation Signatures. , 1990, , 421-427.		0
86	On the origin of time delays in hard X-ray and gamma-ray emission of solar flares. Solar Physics, 1988, 114, 127.	2.5	6
87	On the relation between solar-flare gamma-ray emission and proton escape into interplanetary space. Solar Physics, 1985, 99, 313-321.	2.5	11
88	Pulsations of type IV radio bursts as an indicator of protonarity of solar flares. Solar Physics, 1984, 93, 363-377.	2.5	16
89	The plasma radiation of flare kernels. Solar Physics, 1983, 88, 297.	2.5	108
90	Pulsations of type IV solar radio emission: The bounce-resonance effects. Solar Physics, 1978, 58, 165-179.	2.5	97

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91	The structure of the turbulent shock wave propagating in the solar atmosphere across the magnetic field. <i>Solar Physics</i> , 1978, 60, 279-291.	2.5	4
92	Origin of electron streams generating the "herringbone" structure of type II bursts. <i>Radiophysics and Quantum Electronics</i> , 1974, 17, 936-943.	0.5	1
93	On the intensity of the radio emission from the front of a collisionless shock wave. <i>Radiophysics and Quantum Electronics</i> , 1970, 13, 1034-1039.	0.5	4
94	Parametric interaction of coronal loops with p modes. <i>Communications in Asteroseismology</i> , 0, 159, 30-32.	0.0	2