

Valery Pipin

List of Publications by Year in descending order

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114
papers

2,030
citations

236612

25
h-index

288905

40
g-index

115
all docs

115
docs citations

115
times ranked

850
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic solar cycle for active regions violating the Hale's polarity law. Monthly Notices of the Royal Astronomical Society, 2022, 512, 1365-1370.	1.6	8
2	On the effect of surface bipolar magnetic regions on the convection zone dynamo. Monthly Notices of the Royal Astronomical Society, 2022, 514, 1522-1534.	1.6	8
3	Long-term studies of photospheric magnetic fields on the Sun. Journal of Space Weather and Space Climate, 2021, 11, 4.	1.1	10
4	The magnetic helicity density patterns from non-axisymmetric solar dynamo. Journal of Plasma Physics, 2021, 87, .	0.7	3
5	Solar dynamo cycle variations with a rotational period. Monthly Notices of the Royal Astronomical Society, 2021, 502, 2565-2581.	1.6	12
6	Forward Modeling Helioseismic Signatures of One- and Two-cell Meridional Circulation. Astrophysical Journal, 2021, 911, 90.	1.6	5
7	Solar large-scale magnetic field and cycle patterns in solar dynamo. Monthly Notices of the Royal Astronomical Society, 2021, 504, 4990-5000.	1.6	18
8	Zonal harmonics of solar magnetic field for solar cycle forecast. Journal of Atmospheric and Solar-Terrestrial Physics, 2021, 225, 105743.	0.6	6
9	Shape of solar cycles and mid-term solar activity oscillations. Monthly Notices of the Royal Astronomical Society, 2020, 497, 4376-4383.	1.6	9
10	The origin and effect of hemispheric helicity imbalance in solar dynamo. Journal of Plasma Physics, 2020, 86, .	0.7	5
11	Wavelet analysis of the long-term activity of V833 Tau. Monthly Notices of the Royal Astronomical Society, 2020, 495, 3788-3794.	1.6	10
12	Spectral characteristic of mid-term quasi-periodicities in sunspot data. Monthly Notices of the Royal Astronomical Society, 2020, 491, 5572-5578.	1.6	15
13	Torsional Oscillations in Dynamo Models with Fluctuations and Potential for Helioseismic Predictions of the Solar Cycles. Astrophysical Journal, 2020, 900, 26.	1.6	11
14	Estimates of Current Helicity and Tilt of Solar Active Regions and Joy's Law. Geomagnetism and Aeronomy, 2020, 60, 1032-1037.	0.2	2
15	Solar Quadrupole in Tensor Description. Astronomy Reports, 2020, 64, 855-862.	0.2	0
16	Evolution of Magnetic Helicity in Solar Cycle 24. Astrophysical Journal Letters, 2019, 877, L36.	3.0	21
17	Dynamo Wave Patterns inside of the Sun Revealed by Torsional Oscillations. Astrophysical Journal Letters, 2019, 871, L20.	3.0	21
18	On the Origin of Solar Torsional Oscillations and Extended Solar Cycle. Astrophysical Journal, 2019, 887, 215.	1.6	18

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19	The small-scale dynamo in a spectral representation. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2019, 113, 184-198.	0.4	3
20	On the Origin of the Double-cell Meridional Circulation in the Solar Convection Zone. <i>Astrophysical Journal</i> , 2018, 854, 67.	1.6	13
21	Does Nonaxisymmetric Dynamo Operate in the Sun?. <i>Astrophysical Journal</i> , 2018, 867, 145.	1.6	12
22	Magnetic arms of NGC 6946 traced in Faraday cubes at low radio frequencies. <i>Astronomische Nachrichten</i> , 2018, 339, 440-446.	0.6	3
23	Generation of a Large-scale Magnetic Field in a Convective Full-sphere Cross-helicity Dynamo. <i>Astrophysical Journal</i> , 2018, 859, 18.	1.6	11
24	Large-scale magnetic fields and anomalies of chemical composition of stellar coronae. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2018, 173, 28-36.	0.6	1
25	Nonkinematic solar dynamo models with double-cell meridional circulation. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2018, 179, 185-201.	0.6	11
26	The Nature of Variations in Anomalies of the Chemical Composition of the Solar Corona with the 11-Year Cycle. <i>Astronomy Reports</i> , 2018, 62, 281-287.	0.2	3
27	Non-linear regimes in mean-field full-sphere dynamo. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 3007-3020.	1.6	18
28	Galactic winds and the origin of large-scale magnetic fields. <i>Astronomy and Astrophysics</i> , 2017, 598, A72.	2.1	9
29	The dynamics of Wolf numbers based on nonlinear dynamos with magnetic helicity: comparisons with observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 3960-3967.	1.6	17
30	Angular momentum fluxes caused by $\langle \mathbf{m} \cdot \mathbf{v} \rangle$ -effect and meridional circulation structure of the Sun. <i>Advances in Space Research</i> , 2016, 58, 1490-1496.	1.2	4
31	A NEW SIMPLE DYNAMO MODEL FOR STELLAR ACTIVITY CYCLE. <i>Astrophysical Journal</i> , 2016, 824, 67.	1.6	10
32	DEPENDENCE OF STELLAR MAGNETIC ACTIVITY CYCLES ON ROTATIONAL PERIOD IN A NONLINEAR SOLAR-TYPE DYNAMO. <i>Astrophysical Journal</i> , 2016, 823, 133.	1.6	11
33	Magnetic helicity in non-axisymmetric mean-field dynamo. <i>Magnetohydrodynamics</i> , 2016, 52, 145-154.	0.5	1
34	Magnetic helicity in non-axisymmetric mean-field dynamo. <i>Magnetohydrodynamics</i> , 2016, 52, 145-154.	0.5	0
35	Lithium 671-nm line at the polar and equatorial solar limbs. <i>Astronomy Letters</i> , 2015, 41, 848-858.	0.1	2
36	Solar small-scale dynamo and polarity of sunspot groups. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 1522-1527.	1.6	26

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37	Dependence of magnetic cycle parameters on period of rotation in non-linear solar-type dynamos. Monthly Notices of the Royal Astronomical Society, 2015, 451, 1528-1539.	1.6	12
38	EFFECTS OF LARGE-SCALE NON-AXISYMMETRIC PERTURBATIONS IN THE MEAN-FIELD SOLAR DYNAMO. Astrophysical Journal, 2015, 813, 134.	1.6	19
39	Towards understanding dynamo action in M dwarfs. Monthly Notices of the Royal Astronomical Society, 2015, 449, 3471-3478.	1.6	19
40	The Properties of the Tilts of Bipolar Solar Regions. Solar Physics, 2015, 290, 351-361.	1.0	12
41	Current helicity and magnetic field anisotropy in solar active regions. Monthly Notices of the Royal Astronomical Society, 2015, 454, 1921-1930.	1.6	12
42	EFFECTS OF ANISOTROPIES IN TURBULENT MAGNETIC DIFFUSION IN MEAN-FIELD SOLAR DYNAMO MODELS. Astrophysical Journal, 2014, 785, 49.	1.6	14
43	Magnetic fields in fully convective M-dwarfs: oscillatory dynamos versus bistability. Monthly Notices of the Royal Astronomical Society: Letters, 2014, 442, L1-L4.	1.2	25
44	MAGNETIC HELICITY OF THE GLOBAL FIELD IN SOLAR CYCLES 23 AND 24. Astrophysical Journal, 2014, 789, 21.	1.6	18
45	A review of Holocene solar-linked climatic variation on centennial to millennial timescales: Physical processes, interpretative frameworks and a new multiple cross-wavelet transform algorithm. Earth-Science Reviews, 2014, 134, 1-15.	4.0	97
46	Reversals of the solar magnetic dipole in the light of observational data and simple dynamo models. Astronomy and Astrophysics, 2014, 567, A90.	2.1	10
47	The origin of the helicity hemispheric sign rule reversals in the mean-field solar-type dynamo. Monthly Notices of the Royal Astronomical Society, 2013, 435, 2581-2588.	1.6	18
48	A new dynamo pattern revealed by the tilt angle of bipolar sunspot groups. Monthly Notices of the Royal Astronomical Society, 2013, 432, 2975-2984.	1.6	41
49	HELICITY CONSERVATION IN NONLINEAR MEAN-FIELD SOLAR DYNAMO. Astrophysical Journal, 2013, 768, 46.	1.6	22
50	THE MEAN-FIELD SOLAR DYNAMO WITH A DOUBLE CELL MERIDIONAL CIRCULATION PATTERN. Astrophysical Journal, 2013, 776, 36.	1.6	31
51	Helicityâ€“vorticity turbulent pumping of magnetic fields in the solar convection zone. Geophysical and Astrophysical Fluid Dynamics, 2013, 107, 185-206.	0.4	2
52	Reversals of the solar dipole. Astronomy and Astrophysics, 2013, 550, L9.	2.1	12
53	Waldmeier relations and the solar cycle dynamics by the mean-field dynamos. Proceedings of the International Astronomical Union, 2012, 8, 595-596.	0.0	0
54	CURRENT HELICITY OF ACTIVE REGIONS AS A TRACER OF LARGE-SCALE SOLAR MAGNETIC HELICITY. Astrophysical Journal, 2012, 751, 47.	1.6	34

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55	Advances in mean-field dynamo theories. Proceedings of the International Astronomical Union, 2012, 8, 375-386.	0.0	2
56	Current helicity constraints in solar dynamo models. Proceedings of the International Astronomical Union, 2012, 8, 313-318.	0.0	0
57	Helicityâ€“vorticity turbulent pumping of magnetic fields in the solar dynamo. Proceedings of the International Astronomical Union, 2012, 8, 367-368.	0.0	0
58	Variations of the solar cycle profile in a solar dynamo with fluctuating dynamo governing parameters. Astronomy and Astrophysics, 2012, 542, A26.	2.1	41
59	MEAN-FIELD SOLAR DYNAMO MODELS WITH A STRONG MERIDIONAL FLOW AT THE BOTTOM OF THE CONVECTION ZONE. Astrophysical Journal, 2011, 738, 104.	1.6	25
60	THE SUBSURFACE-SHEAR-SHAPED SOLAR α DYNAMO. Astrophysical Journal Letters, 2011, 727, L45.	3.0	52
61	THE ASYMMETRY OF SUNSPOT CYCLES AND WALDMEIER RELATIONS AS A RESULT OF NONLINEAR SURFACE-SHEAR SHAPED DYNAMO. Astrophysical Journal, 2011, 741, 1.	1.6	57
62	The saturation of galactic dynamos. Astronomische Nachrichten, 2011, 332, 88-91.	0.6	32
63	Cluster analysis for pattern recognition in solar butterfly diagrams. Astronomische Nachrichten, 2011, 332, 590-596.	0.6	9
64	TURBULENT CROSS-HELICITY IN THE MEAN-FIELD SOLAR DYNAMO PROBLEM. Astrophysical Journal, 2011, 743, 160.	1.6	10
65	The fluctuating α -effect and Waldmeier relations in the nonlinear dynamo models. Physica Scripta, 2011, 84, 065903.	1.2	11
66	Models of Reactions of Human Heart as Nonlinear Dynamic System to Cosmic and Geophysical Factors. Bulletin of Experimental Biology and Medicine, 2010, 149, 490-494.	0.3	2
67	The solar dynamo in the light of the distribution of various sunspot magnetic classes over butterfly diagram. Astronomische Nachrichten, 2010, 331, 82-87.	0.6	14
68	An advective solar-type dynamo without the α effect. Astronomy and Astrophysics, 2009, 508, 9-16.	2.1	11
69	Stellar dynamos with Ω effect. Astronomy and Astrophysics, 2009, 493, 819-828.	2.1	20
70	Grand Minima of Solar Activity and the Mean-Field Dynamo. Solar Physics, 2009, 254, 345-355.	1.0	53
71	Solar Grand Minima and Random Fluctuations in Dynamo Parameters. Solar Physics, 2008, 250, 221-234.	1.0	71
72	Closure tests for mean field magnetohydrodynamics using a self-consistent reduced model. Monthly Notices of the Royal Astronomical Society, 2008, 388, 367-374.	1.6	0

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73	The mean electro-motive force and current helicity under the influence of rotation, magnetic field and shear. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2008, 102, 21-49.	0.4	40
74	Magnetic configurations produced by hydromagnetic dynamos. <i>Astronomical and Astrophysical Transactions</i> , 2007, 26, 75-78.	0.2	0
75	Statistical properties of polarized radio continuum emission and effects of data processing. <i>Astronomische Nachrichten</i> , 2007, 328, 80-91.	0.6	2
76	Probing current and cross-helicity in the solar atmosphere: A challenge for theory. <i>Advances in Space Research</i> , 2007, 39, 1694-1699.	1.2	7
77	Generation of solar magnetic fields by the $\hat{\pm}\hat{\tau}$ dynamo. <i>Astronomy Reports</i> , 2007, 51, 411-420.	0.2	3
78	Active longitudes, nonaxisymmetric dynamos and phase mixing. <i>Astronomy and Astrophysics</i> , 2006, 445, 703-714.	2.1	49
79	Anharmonic and standing dynamo waves: theory and observation of stellar magnetic activity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 365, 181-190.	1.6	21
80	The radial distribution of magnetic helicity in the solar convective zone: observations and dynamo theory. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 365, 276-286.	1.6	52
81	The Alpha Effect and the Observed Twist and Current Helicity of Solar Magnetic Fields. <i>Solar Physics</i> , 2006, 233, 185-204.	1.0	12
82	The nonlinear galactic dynamo and magnetic helicity transport. <i>Astronomische Nachrichten</i> , 2006, 327, 473-474.	0.6	0
83	The distribution of current helicity at the solar surface at the beginning of the solar cycle. <i>Astronomische Nachrichten</i> , 2006, 327, 876-883.	0.6	25
84	Variations in the solar luminosity, radius, and quadrupole moment as effects of a large-scale dynamo in the solar convection zone. <i>Astronomy Reports</i> , 2004, 48, 418-432.	0.2	9
85	The Maunder Minimum and the Solar Dynamo. <i>Solar Physics</i> , 2004, 224, 145-152.	1.0	44
86	Anharmonicity of Stellar Cycles: A Wavelet Quantification. <i>Solar Physics</i> , 2004, 224, 179-185.	1.0	2
87	Stellar Dynamo Waves: Asymptotic Configurations. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2004, 98, 257-272.	0.4	13
88	Magnetic helicity and solar activity cycle: observations and dynamo theory. <i>Proceedings of the International Astronomical Union</i> , 2004, 2004, 65-68.	0.0	0
89	Changes in space weather and heliospheric oscillations due to rotation and rearrangement of solar magnetic field. <i>Proceedings of the International Astronomical Union</i> , 2004, 2004, 553-554.	0.0	0
90	Helicity and the solar dynamo. <i>Advances in Space Research</i> , 2003, 32, 1819-1833.	1.2	15

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91	The $\hat{\Gamma}$ -Effect and Current Helicity for Fast Sheared Rotators. Geophysical and Astrophysical Fluid Dynamics, 2003, 97, 25-43.	0.4	3
92	Magnetic helicity evolution during the solar activity cycle: Observations and dynamo theory. Astronomy and Astrophysics, 2003, 409, 1097-1105.	2.1	70
93	Nonlinear magnetic diffusion and magnetic helicity transport in galactic dynamos. Astronomy and Astrophysics, 2003, 400, 9-18.	2.1	44
94	Effective magnetic permeability of a turbulent fluid with macroferroparticles. European Physical Journal B, 2002, 25, 399-402.	0.6	6
95	Lithium as a passive tracer probing the rotating solar tachocline turbulence. Astronomy and Astrophysics, 2001, 375, 149-154.	2.1	17
96	Title is missing!. Solar Physics, 2001, 198, 241-251.	1.0	20
97	Diffusion of a passive scalar in a rotating medium with anisotropic turbulence. Astronomy Letters, 2001, 27, 171-175.	0.1	1
98	A two-dimensional asymptotic solution for a dynamo wave in the light of the solar internal rotation. Monthly Notices of the Royal Astronomical Society, 2000, 315, 778-790.	1.6	49
99	The solar dynamo and integrated irradiance variations in the course of the 11-year cycle. Astronomy Reports, 2000, 44, 771-779.	0.2	7
100	Alpha-effect current and kinetic helicities for magnetically driven turbulence and solar dynamo. Journal of Astrophysics and Astronomy, 2000, 21, 387-388.	0.4	0
101	The motion of magnetic fronts in spiral galaxies. Geophysical and Astrophysical Fluid Dynamics, 2000, 92, 129-149.	0.4	11
102	Solar torsional oscillations and the grand activity cycle. Solar Physics, 1999, 189, 227-239.	1.0	37
103	A helicity proxy from horizontal solar flow patterns. Astronomische Nachrichten, 1999, 320, 135-140.	0.6	10
104	The solar dynamo wave in Parker's migratory dynamo. Astronomical and Astrophysical Transactions, 1999, 18, 129-133.	0.2	1
105	Galactic Spiral Arms and Dynamo Control Parameters. Studia Geophysica Et Geodaetica, 1998, 42, 391-396.	0.3	6
106	Lagrangian Solution of Dynamo Equations and Path Integrals. Studia Geophysica Et Geodaetica, 1998, 42, 297-301.	0.3	0
107	Asymptotic Properties of a Nonlinear $\hat{\Gamma}$ -Dynamo. Studia Geophysica Et Geodaetica, 1998, 42, 309-313.	0.3	1
108	Anomalous persistence of bisymmetric magnetic structures in spiral galaxies. Monthly Notices of the Royal Astronomical Society, 1997, 292, 1-10.	1.6	44

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109	Wavelet Analysis of Stellar Chromospheric Activity Variations. <i>Astrophysical Journal</i> , 1997, 483, 426-434.	1.6	80
110	The rotational quenching of the rotation-induced kinetic alpha-effect. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1996, 83, 119-133.	0.4	11
111	Turbulence in a rotating magnetized fluid. <i>Astronomische Nachrichten</i> , 1994, 315, 151-156.	0.6	1
112	Turbulent viscosity, magnetic diffusivity, and heat conductivity under the influence of rotation and magnetic field. <i>Astronomische Nachrichten</i> , 1994, 315, 157-170.	0.6	154
113	Fractal properties of geodynamo models. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 1994, 74, 207-223.	0.4	12
114	Evolution of a magnetic blob in a helical flow. <i>Astronomische Nachrichten</i> , 1991, 312, 33-39.	0.6	6