

# Bidzina M Shergelashvili

## List of Publications by Year in descending order

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33  
papers

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citations

933447

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794594

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g-index

33  
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33  
docs citations

33  
times ranked

411  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rosby waves in "shallow water" magnetohydrodynamics. <i>Astronomy and Astrophysics</i> , 2007, 470, 815-820.	5.1	77
2	RIEGER-TYPE PERIODICITY DURING SOLAR CYCLES 14-24: ESTIMATION OF DYNAMO MAGNETIC FIELD STRENGTH IN THE SOLAR INTERIOR. <i>Astrophysical Journal</i> , 2016, 826, 55.	4.5	45
3	Acoustic oscillations in a field-free cavity under solar small-scale bipolar magnetic canopy. <i>Annales Geophysicae</i> , 2008, 26, 2983-2989.	1.6	26
4	Formation and evolution of coronal rain observed by SDO/AIA on February 22, 2012. <i>Astronomy and Astrophysics</i> , 2015, 577, A136.	5.1	24
5	Statistical properties of coronal hole rotation rates: Are they linked to the solar interior?. <i>Astronomy and Astrophysics</i> , 2017, 603, A134.	5.1	24
6	Nonmodal Cascade in the Compressible Solar Atmosphere: Self-Heating, an Alternative Way to Enhance Wave Heating. <i>Astrophysical Journal</i> , 2006, 642, L73-L76.	4.5	22
7	Acoustic oscillations in the field-free, gravitationally stratified cavities under solar bipolar magnetic canopies. <i>Astronomy and Astrophysics</i> , 2009, 505, 763-770.	5.1	20
8	Nonequilibrium relation between potential and stationary distribution for driven diffusion. <i>Physical Review E</i> , 2009, 80, 011121.	2.1	14
9	Decameter Type III Bursts with Changing Frequency Drift-Rate Signs. <i>Solar Physics</i> , 2015, 290, 193-203.	2.5	11
10	Amplification of compressional magnetohydrodynamic waves in systems with forced entropy oscillations. <i>Physical Review E</i> , 2007, 76, 046404.	2.1	10
11	ON THE LOW-FREQUENCY BOUNDARY OF SUN-GENERATED MAGNETOHYDRODYNAMIC TURBULENCE IN THE SLOW SOLAR WIND. <i>Astrophysical Journal</i> , 2012, 752, 142.	4.5	10
12	DYNAMICS OF A SOLAR PROMINENCE TORNADO OBSERVED BY SDO/AIA ON 2012 NOVEMBER 7-8. <i>Astrophysical Journal</i> , 2015, 810, 89.	4.5	10
13	A Selection of Nonequilibrium Issues. <i>Lecture Notes in Mathematics</i> , 2009, , 1-60.	0.2	10
14	"Swing Absorption" of fast magnetosonic waves in inhomogeneous media. <i>Astronomy and Astrophysics</i> , 2005, 429, 767-777.	5.1	9
15	Evidence for Precursors of the Coronal Hole Jets in Solar Bright Points. <i>Astrophysical Journal Letters</i> , 2018, 855, L21.	8.3	9
16	MHD Kelvin-Helmholtz instability in the anisotropic solar wind plasma. <i>Physics of Plasmas</i> , 2018, 25, .	1.9	9
17	Investigation of Solar Rotation Using Coronal Holes. <i>Astrophysics</i> , 2015, 58, 575-579.	0.5	8
18	On the effect of the inhomogeneous subsurface flows on the high degree solar p-modes. <i>Astronomy and Astrophysics</i> , 2005, 438, 1083-1097.	5.1	6

#	ARTICLE	IF	CITATIONS
19	Long-period oscillations of active region patterns: least-squares mapping on second-order curves. <i>Astronomy and Astrophysics</i> , 2017, 597, A93.	5.1	6
20	Study of the solar coronal hole rotation. <i>Advances in Space Research</i> , 2018, 61, 3039-3050.	2.6	6
21	Correlated flares in models of a magnetized "œœcanopy"œœ. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 167-176.	2.6	5
22	Association between Tornadoes and Instability of Hosting Prominences. <i>Astrophysical Journal</i> , 2018, 861, 112.	4.5	4
23	A new class of discontinuous solar wind solutions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 1023-1034.	4.4	4
24	Quasi-oscillatory dynamics observed in ascending phase of the flare on March 6, 2012. <i>Astronomy and Astrophysics</i> , 2017, 600, A67.	5.1	3
25	Fire-hose instability of inhomogeneous plasma flows with heat fluxes. <i>Physics of Plasmas</i> , 2020, 27, 112901.	1.9	3
26	Overstability of acoustic waves in strongly magnetized anisotropic magnetohydrodynamic shear flows. <i>Physics of Plasmas</i> , 2014, 21, 082902.	1.9	2
27	Comparative analysis of solar radio bursts before and during CME propagation. <i>Astronomy and Astrophysics</i> , 2019, 625, A63.	5.1	2
28	Determination of the solar rotation parameters via orthogonal polynomials. <i>Advances in Space Research</i> , 2020, 65, 1843-1851.	2.6	2
29	Case study on the identification and classification of small-scale flow patterns in flaring active region. <i>Astronomy and Astrophysics</i> , 2021, 645, A52.	5.1	2
30	Spatio-temporal bands of coronal bright points and their relation to solar torsional oscillations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 3717-3723.	4.4	2
31	Eigenspectra of solar active region long-period oscillations. <i>Astronomy and Astrophysics</i> , 2021, 653, A39.	5.1	1
32	"œœSwing Absorption"œœ of fast magnetosonic waves in inhomogeneous media. <i>Astronomy and Astrophysics</i> , 2005, 433, 15-15.	5.1	1
33	Categorization model of moving small-scale intensity enhancements in solar active regions. <i>Astronomy and Astrophysics</i> , 2022, 662, A30.	5.1	1