Avijeet Prasad

List of Publications by Year
in descending order

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28	324	933410 10	888047 17
papers	citations	h-index	g-index

28	28	28	288
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Successive Flux Rope Eruptions from Î´-sunspots Region of NOAA 12673 and Associated X-class Eruptive Flares on 2017 September 6. Astrophysical Journal, 2018, 869, 69.	4.5	44
2	Forecasting Solar Cycle 25 Using Deep Neural Networks. Solar Physics, 2020, 295, 1.	2.5	42
3	A Magnetohydrodynamic Simulation of Magnetic Null-point Reconnections in NOAA AR 12192, Initiated with an Extrapolated Non-force-free Field. Astrophysical Journal, 2018, 860, 96.	4.5	26
4	Magnetohydrodynamic Simulation of Magnetic Null-point Reconnections and Coronal Dimmings during the X2.1 Flare in NOAA AR 11283. Astrophysical Journal, 2020, 903, 129.	4.5	23
5	A Data-constrained Magnetohydrodynamic Simulation of Successive Events of Blowout Jet and C-class Flare in NOAA AR 12615. Astrophysical Journal, 2019, 875, 10.	4.5	21
6	An Eruptive Circular-ribbon Flare with Extended Remote Brightenings. Astrophysical Journal, 2020, 899, 34.	4.5	18
7	Magnetohydrodynamic Modeling of Solar Coronal Dynamics with an Initial Non-force-free Magnetic Field. Astrophysical Journal, 2017, 840, 37.	4.5	17
8	Identification of Pre-flare Processes and Their Possible Role in Driving a Large-scale Flux Rope Eruption with Complex M-class Flare in the Active Region NOAA 12371. Solar Physics, 2020, 295, 1.	2.5	17
9	SEPARABLE SOLUTIONS OF FORCE-FREE SPHERES AND APPLICATIONS TO SOLAR ACTIVE REGIONS. Astrophysical Journal, 2014, 786, 81.	4.5	14
10	Heating of the solar chromosphere in a sunspot light bridge by electric currents. Astronomy and Astrophysics, 2021, 652, L4.	5.1	12
11	Effects of dark matter in star formation. Astrophysics and Space Science, 2019, 364, 1.	1.4	10
12	Three-dimensional magnetic field structure of a flux-emerging region in the solar atmosphere. Astronomy and Astrophysics, 2019, 632, A112.	5.1	10
13	Alternate models to dark energy. Advances in Space Research, 2018, 61, 567-570.	2.6	9
14	Effects of Cowling Resistivity in the Weakly Ionized Chromosphere. Astrophysical Journal Letters, 2020, 899, L4.	8.3	9
15	Magnetic Reconnections in the Presence of Three-Dimensional Magnetic Nulls and Quasi-Separatrix Layers. Solar Physics, 2021, 296, 1.	2.5	8
16	A GLOBAL GALACTIC DYNAMO WITH A CORONA CONSTRAINED BY RELATIVE HELICITY. Astrophysical Journal, 2016, 817, 12.	4.5	7
17	On the Spontaneous Generation of Three-dimensional Magnetic Nulls. Astrophysical Journal, 2020, 892, 44.	4.5	7
18	Godbillon-Vey helicity and magnetic helicity in magnetohydrodynamics. Journal of Plasma Physics, 2019, 85, .	2.1	6

#	Article	IF	Citations
19	A viable non-axisymmetric non-force-free field to represent solar active regions. Physics of Plasmas, 2016, 23, .	1.9	5
20	Are the Brightest Coronal Loops Always Rooted in Mixed-polarity Magnetic Flux?. Astrophysical Journal, 2021, 908, 151.	4.5	5
21	A Solar Magnetic-fan Flaring Arch Heated by Nonthermal Particles and Hot Plasma from an X-Ray Jet Eruption. Astrophysical Journal, 2020, 895, 42.	4.5	4
22	Comparison of the Hall Magnetohydrodynamics and Magnetohydrodynamics Evolution of a Flaring Solar Active Region. Astrophysical Journal, 2022, 925, 197.	4.5	3
23	Topological and statistical properties of nonlinear force-free fields. Advances in Space Research, 2018, 61, 738-748.	2.6	2
24	On the Estimation of the SHARP Parameter MEANALP from AIA Images Using Deep Neural Networks. Solar Physics, 2021, 296, 1.	2.5	2
25	The magnetic topology of the inverse Evershed flow. Astronomy and Astrophysics, 2022, 662, A25.	5.1	2
26	A data-driven MHD model of the weakly-ionized chromosphere. Journal of Physics: Conference Series, 2020, 1620, 012026.	0.4	1
27	Study of magnetic field topology of active region 12192 using an extrapolated non-force-free magnetic field. Proceedings of the International Astronomical Union, 2018, 13, 81-82.	0.0	0
28	Magnetic field topology from non-force free extrapolation and magnetohydrodynamic simulation of its eventual dynamics. Proceedings of the International Astronomical Union, 2018, 13, 183-184.	0.0	0