

# Rohit Chhiber

## List of Publications by Year in descending order

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39  
papers

994  
citations

361413

20  
h-index

434195

31  
g-index

40  
all docs

40  
docs citations

40  
times ranked

691  
citing authors

#	ARTICLE	IF	CITATIONS
1	Shear-driven Transition to Isotropically Turbulent Solar Wind Outside the Alfvén Critical Zone. <i>Astrophysical Journal</i> , 2020, 902, 94.	4.5	83
2	The Steady Global Corona and Solar Wind: A Three-dimensional MHD Simulation with Turbulence Transport and Heating. <i>Astrophysical Journal</i> , 2018, 865, 25.	4.5	69
3	Enhanced Energy Transfer Rate in Solar Wind Turbulence Observed near the Sun from Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 48.	7.7	56
4	Higher-Order Turbulence Statistics in the Earth's Magnetosheath and the Solar Wind Using Magnetospheric Multiscale Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9941-9954.	2.4	51
5	Measures of Scale-dependent Alfvénicity in the First PSP Solar Encounter. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 58.	7.7	51
6	Solar Wind Turbulence Studies Using MMS Fast Plasma Investigation Data. <i>Astrophysical Journal</i> , 2018, 866, 81.	4.5	48
7	Contextual Predictions for Parker Solar Probe. II. Turbulence Properties and Taylor Hypothesis. <i>Astrophysical Journal, Supplement Series</i> , 2019, 242, 12.	7.7	45
8	Cosmic-Ray Diffusion Coefficients throughout the Inner Heliosphere from a Global Solar Wind Simulation. <i>Astrophysical Journal, Supplement Series</i> , 2017, 230, 21.	7.7	42
9	Incompressible Energy Transfer in the Earth's Magnetosheath: Magnetospheric Multiscale Observations. <i>Astrophysical Journal</i> , 2018, 866, 106.	4.5	42
10	Charged Particle Diffusion in Isotropic Random Magnetic Fields. <i>Astrophysical Journal</i> , 2017, 837, 140.	4.5	37
11	Clustering of Intermittent Magnetic and Flow Structures near Parker Solar Probe's First Perihelion: A Partial-variance-of-increments Analysis. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 31.	7.7	37
12	Contextual Predictions for the Parker Solar Probe. I. Critical Surfaces and Regions. <i>Astrophysical Journal, Supplement Series</i> , 2019, 241, 11.	7.7	33
13	Subproton-scale Intermittency in Near-Sun Solar Wind Turbulence Observed by the Parker Solar Probe. <i>Astrophysical Journal Letters</i> , 2021, 911, L7.	8.3	30
14	Sub-Alfvénic Solar Wind Observed by the Parker Solar Probe: Characterization of Turbulence, Anisotropy, Intermittency, and Switchback. <i>Astrophysical Journal Letters</i> , 2022, 926, L1.	8.3	28
15	Observations of Heating along Intermittent Structures in the Inner Heliosphere from PSP Data. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 46.	7.7	26
16	Observations of Energetic-particle Population Enhancements along Intermittent Structures near the Sun from the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 61.	7.7	25
17	Finite Dissipation in Anisotropic Magnetohydrodynamic Turbulence. <i>Physical Review X</i> , 2018, 8, .	8.9	24
18	Theory of Cosmic Ray Transport in the Heliosphere. <i>Space Science Reviews</i> , 2022, 218, .	8.1	24

#	ARTICLE	IF	CITATIONS
19	MMS Observations of Beta-dependent Constraints on Ion Temperature Anisotropy in Earth's Magnetosheath. <i>Astrophysical Journal</i> , 2018, 866, 25.	4.5	21
20	Magnetic field line random walk and solar energetic particle path lengths. <i>Astronomy and Astrophysics</i> , 2021, 650, A26.	5.1	20
21	Large-scale Structure and Turbulence Transport in the Inner Solar Wind: Comparison of Parker Solar Probe's First Five Orbits with a Global 3D Reynolds-averaged MHD Model. <i>Astrophysical Journal</i> , 2021, 923, 89.	4.5	20
22	Weakened Magnetization and Onset of Large-scale Turbulence in the Young Solar Wind—Comparisons of Remote Sensing Observations with Simulation. <i>Astrophysical Journal Letters</i> , 2018, 856, L39.	8.3	17
23	Kinetic Range Spectral Features of Cross Helicity Using the Magnetospheric Multiscale Spacecraft. <i>Physical Review Letters</i> , 2018, 121, 265101.	7.8	17
24	Intermittency in the Expanding Solar Wind: Observations from Parker Solar Probe (0.16 au), Helios 1 (0.3–1 au), and Voyager 1 (1–10 au). <i>Astrophysical Journal, Supplement Series</i> , 2022, 259, 23.	7.7	17
25	SOLAR WIND COLLISIONAL AGE FROM A GLOBAL MAGNETOHYDRODYNAMICS SIMULATION. <i>Astrophysical Journal</i> , 2016, 821, 34.	4.5	16
26	Isotropization and Evolution of Energy-containing Eddies in Solar Wind Turbulence: Parker Solar Probe, Helios 1, ACE, WIND, and Voyager 1. <i>Astrophysical Journal Letters</i> , 2022, 932, L11.	8.3	16
27	MagneToRE: Mapping the 3-D Magnetic Structure of the Solar Wind Using a Large Constellation of Nanosatellites. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	2.8	13
28	Statistical Survey of Collisionless Dissipation in the Terrestrial Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029000.	2.4	12
29	Statistical Analysis of Intermittency and its Association with Proton Heating in the Near-Sun Environment. <i>Astrophysical Journal</i> , 2022, 927, 140.	4.5	12
30	Random Walk and Trapping of Interplanetary Magnetic Field Lines: Global Simulation, Magnetic Connectivity, and Implications for Solar Energetic Particles. <i>Astrophysical Journal</i> , 2021, 908, 174.	4.5	11
31	An extended and fragmented Alfvén zone in the Young Solar Wind. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 159-167.	4.4	11
32	Magnetic Switchback Occurrence Rates in the Inner Heliosphere: Parker Solar Probe and 1 au. <i>Astrophysical Journal Letters</i> , 2022, 929, L10.	8.3	11
33	Scaling and Anisotropy of Solar Wind Turbulence at Kinetic Scales during the MMS Turbulence Campaign. <i>Astrophysical Journal</i> , 2020, 903, 127.	4.5	9
34	von Karman Correlation Similarity of the Turbulent Interplanetary Magnetic Field. <i>Astrophysical Journal Letters</i> , 2021, 919, L27.	8.3	6
35	A detailed examination of anisotropy and timescales in three-dimensional incompressible magnetohydrodynamic turbulence. <i>Physics of Plasmas</i> , 2020, 27, .	1.9	5
36	Domains of Magnetic Pressure Balance in Parker Solar Probe Observations of the Solar Wind. <i>Astrophysical Journal</i> , 2021, 923, 158.	4.5	4

#	ARTICLE	IF	CITATIONS
37	GENERATING SYNTHETIC MAGNETIC FIELD INTERMITTENCY USING A MINIMAL MULTISCALE LAGRANGIAN MAPPING APPROACH. <i>Astrophysical Journal</i> , 2014, 796, 97.	4.5	3
38	von Karman correlation similarity in solar wind magnetohydrodynamic turbulence. <i>Physical Review E</i> , 2022, 105, 045204.	2.1	2
39	The interpretation of data from the Parker Solar Probe mission: shear-driven transition to an isotropically turbulent solar wind. <i>Radiation Effects and Defects in Solids</i> , 2020, 175, 1002-1003.	1.2	0