

Gary P Zank

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4618214/gary-p-zank-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

369
papers

13,568
citations

64
h-index

103
g-index

408
ext. papers

15,433
ext. citations

4.9
avg, IF

6.7
L-index

#	Paper	IF	Citations
369	Nonlinear Collisionless Perpendicular Diffusion of Charged Particles. <i>Astrophysical Journal</i> , 2003 , 590, L53-L56	4.7	387
368	Global observations of the interstellar interaction from the Interstellar Boundary Explorer (IBEX). <i>Science</i> , 2009 , 326, 959-62	33.3	382
367	Interstellar pickup ions and quasi-perpendicular shocks: Implications for the termination shock and interplanetary shocks. <i>Journal of Geophysical Research</i> , 1996 , 101, 457-477		295
366	Nearly incompressible fluids. II: Magnetohydrodynamics, turbulence, and waves. <i>Physics of Fluids A, Fluid Dynamics</i> , 1993 , 5, 257-273		268
365	Evolution of turbulent magnetic fluctuation power with heliospheric distance. <i>Journal of Geophysical Research</i> , 1996 , 101, 17093-17107		263
364	Solar Wind Electrons Alphas and Protons (SWEAP) Investigation: Design of the Solar Wind and Coronal Plasma Instrument Suite for Solar Probe Plus. <i>Space Science Reviews</i> , 2016 , 204, 131-186	7.5	257
363	Particle acceleration and coronal mass ejection driven shocks: A theoretical model. <i>Journal of Geophysical Research</i> , 2000 , 105, 25079-25095		252
362	Coronal Heating by Magnetohydrodynamic Turbulence Driven by Reflected Low-Frequency Waves. <i>Astrophysical Journal</i> , 1999 , 523, L93-L96	4.7	249
361	Heating of the low-latitude solar wind by dissipation of turbulent magnetic fluctuations. <i>Journal of Geophysical Research</i> , 2001 , 106, 8253-8272		219
360	MHD-driven Kinetic Dissipation in the Solar Wind and Corona. <i>Astrophysical Journal</i> , 2000 , 537, 1054-1062	4.7	206
359	The heliosphere's interstellar interaction: no bow shock. <i>Science</i> , 2012 , 336, 1291-3	33.3	195
358	Comparison of Interstellar Boundary Explorer observations with 3D global heliospheric models. <i>Science</i> , 2009 , 326, 966-8	33.3	190
357	Interaction of the solar wind with the local interstellar medium. <i>Journal of Geophysical Research</i> , 1995 , 100, 21595-21604		184
356	Turbulence, Spatial Transport, and Heating of the Solar Wind. <i>Physical Review Letters</i> , 1999 , 82, 3444-3447	4.7	182
355	PICK-UP IONS IN THE OUTER HELIOSHEATH: A POSSIBLE MECHANISM FOR THE INTERSTELLAR BOUNDARY EXplorer RIBBON. <i>Astrophysical Journal Letters</i> , 2010 , 708, L126-L130	7.9	180
354	Interaction of the solar wind with the local interstellar medium: A multifluid approach. <i>Journal of Geophysical Research</i> , 1996 , 101, 21639-21655		175
353	Alfvénic velocity spikes and rotational flows in the near-Sun solar wind. <i>Nature</i> , 2019 , 576, 228-231	50.4	172

352	Theory and Transport of Nearly Incompressible Magnetohydrodynamic Turbulence. <i>Astrophysical Journal</i> , 2017 , 835, 147	4-7	159
351	The equations of reduced magnetohydrodynamics. <i>Journal of Plasma Physics</i> , 1992 , 48, 85-100	2-7	151
350	Particle acceleration at perpendicular shock waves: Model and observations. <i>Journal of Geophysical Research</i> , 2006 , 111,		145
349	The dynamical heliosphere. <i>Journal of Geophysical Research</i> , 2003 , 108,		145
348	PARTICLE ACCELERATION VIA RECONNECTION PROCESSES IN THE SUPERSONIC SOLAR WIND. <i>Astrophysical Journal</i> , 2014 , 797, 28	4-7	141
347	MICROSTRUCTURE OF THE HELIOSPHERIC TERMINATION SHOCK: IMPLICATIONS FOR ENERGETIC NEUTRAL ATOM OBSERVATIONS. <i>Astrophysical Journal</i> , 2010 , 708, 1092-1106	4-7	140
346	The Effects of a \mathcal{E} Distribution in the Heliosheath on the Global Heliosphere and ENA Flux at 1 AU. <i>Astrophysical Journal</i> , 2008 , 682, 679-689	4-7	134
345	The equations of nearly incompressible fluids. I. Hydrodynamics, turbulence, and waves. <i>Physics of Fluids A, Fluid Dynamics</i> , 1991 , 3, 69-82		132
344	Energetic particle acceleration and transport at coronal mass ejection-driven shocks. <i>Journal of Geophysical Research</i> , 2003 , 108,		131
343	Waves and turbulence in the solar wind. <i>Journal of Geophysical Research</i> , 1992 , 97, 17189		130
342	HELIOSPHERIC STRUCTURE: THE BOW WAVE AND THE HYDROGEN WALL. <i>Astrophysical Journal</i> , 2013 , 763, 20	4-7	129
341	Coronal Heating Distribution Due to Low-Frequency, Wave-driven Turbulence. <i>Astrophysical Journal</i> , 2002 , 575, 571-577	4-7	128
340	The radial and latitudinal dependence of the cosmic ray diffusion tensor in the heliosphere. <i>Journal of Geophysical Research</i> , 1998 , 103, 2085-2097		123
339	DIFFUSIVE SHOCK ACCELERATION AND RECONNECTION ACCELERATION PROCESSES. <i>Astrophysical Journal</i> , 2015 , 814, 137	4-7	116
338	Three-dimensional Features of the Outer Heliosphere due to Coupling between the Interstellar and Interplanetary Magnetic Fields. II. The Presence of Neutral Hydrogen Atoms. <i>Astrophysical Journal</i> , 2006 , 644, 1299-1316	4-7	116
337	Perpendicular diffusion coefficient for charged particles of arbitrary energy. <i>Journal of Geophysical Research</i> , 2004 , 109,		112
336	THE TRANSPORT OF LOW-FREQUENCY TURBULENCE IN ASTROPHYSICAL FLOWS. I. GOVERNING EQUATIONS. <i>Astrophysical Journal</i> , 2012 , 745, 35	4-7	104
335	A KINETIC TRANSPORT THEORY FOR PARTICLE ACCELERATION AND TRANSPORT IN REGIONS OF MULTIPLE CONTRACTING AND RECONNECTING INERTIAL-SCALE FLUX ROPES. <i>Astrophysical Journal</i> , 2015 , 801, 112	4-7	100

334	THREE-DIMENSIONAL FEATURES OF THE OUTER HELIOSPHERE DUE TO COUPLING BETWEEN THE INTERSTELLAR AND INTERPLANETARY MAGNETIC FIELDS. III. THE EFFECTS OF SOLAR ROTATION AND ACTIVITY CYCLE. <i>Astrophysical Journal</i> , 2009 , 696, 1478-1490	4.7	98
333	Transport Processes in Space Physics and Astrophysics. <i>Lecture Notes in Physics</i> , 2014 ,	0.8	96
332	A brief review of solar flare effects on the ionosphere. <i>Radio Science</i> , 2009 , 44, n/a-n/a	1.4	94
331	Realistic and time-varying outer heliospheric modelling. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011 , 416, 1475-1485	4.3	93
330	Galactic cosmic ray transport in the global heliosphere. <i>Journal of Geophysical Research</i> , 2003 , 108,		93
329	Particle acceleration and coronal mass ejection driven shocks: Shocks of arbitrary strength. <i>Journal of Geophysical Research</i> , 2003 , 108,		93
328	Probing Heliospheric Asymmetries with an MHD-Kinetic model. <i>Astrophysical Journal</i> , 2008 , 675, L41-L44.	4.7	89
327	Termination Shock Asymmetries as Seen by the Voyager Spacecraft: The Role of the Interstellar Magnetic Field and Neutral Hydrogen. <i>Astrophysical Journal</i> , 2007 , 668, 611-624	4.7	89
326	Three-dimensional Features of the Outer Heliosphere Due to Coupling between the Interstellar and Interplanetary Magnetic Fields. I. Magnetohydrodynamic Model: Interstellar Perspective. <i>Astrophysical Journal</i> , 2004 , 614, 1007-1021	4.7	88
325	Effect of magnetic field geometry on the wave signature of the pickup of interstellar neutrals. <i>Journal of Geophysical Research</i> , 1994 , 99, 19229		86
324	Global anisotropies in TeV cosmic rays related to the Sun's local galactic environment from IBEX. <i>Science</i> , 2014 , 343, 988-90	33.3	84
323	THREE-DIMENSIONAL FEATURES OF THE OUTER HELIOSPHERE DUE TO COUPLING BETWEEN THE INTERSTELLAR AND INTERPLANETARY MAGNETIC FIELDS. IV. SOLAR CYCLE MODEL BASED OLYMPUS OBSERVATIONS. <i>Astrophysical Journal</i> , 2013 , 772, 2	4.7	83
322	Interaction between the solar wind and interstellar gas: A comparison between Monte Carlo and fluid approaches. <i>Journal of Geophysical Research</i> , 2006 , 111,		83
321	II. Transport of Nearly Incompressible Magnetohydrodynamic Turbulence from 1 to 75 au. <i>Astrophysical Journal</i> , 2017 , 841, 85	4.7	82
320	Dissipation of pickup-induced waves: A solar wind temperature increase in the outer heliosphere?. <i>Journal of Geophysical Research</i> , 1995 , 100, 17059		78
319	SMALL-SCALE MAGNETIC ISLANDS IN THE SOLAR WIND AND THEIR ROLE IN PARTICLE ACCELERATION. I. DYNAMICS OF MAGNETIC ISLANDS NEAR THE HELIOSPHERIC CURRENT SHEET. <i>Astrophysical Journal</i> , 2015 , 808, 181	4.7	77
318	Analytic forms of the perpendicular cosmic ray diffusion coefficient for an arbitrary turbulence spectrum and applications on transport of Galactic protons and acceleration at interplanetary shocks. <i>Astrophysics and Space Science</i> , 2010 , 325, 99-111	1.6	77
317	Interaction of a nonuniform solar wind with the local interstellar medium. <i>Journal of Geophysical Research</i> , 1996 , 101, 17081-17092		76

316	THE TRANSPORT OF LOW-FREQUENCY TURBULENCE IN ASTROPHYSICAL FLOWS. II. SOLUTIONS FOR THE SUPER-ALFVÉNIC SOLAR WIND. <i>Astrophysical Journal</i> , 2015 , 805, 63	4.7	74
315	THE EFFECT OF NEW INTERSTELLAR MEDIUM PARAMETERS ON THE HELIOSPHERE AND ENERGETIC NEUTRAL ATOMS FROM THE INTERSTELLAR BOUNDARY. <i>Astrophysical Journal</i> , 2014 , 784, 73	4.7	74
314	Particle Acceleration at Interplanetary Shocks. <i>Space Science Reviews</i> , 2007 , 130, 255-272	7.5	73
313	INHOMOGENEOUS NEARLY INCOMPRESSIBLE DESCRIPTION OF MAGNETOHYDRODYNAMIC TURBULENCE. <i>Astrophysical Journal</i> , 2010 , 718, 148-167	4.7	72
312	HELIOSPHERIC ASYMMETRIES AND 2-3 kHz RADIO EMISSION UNDER STRONG INTERSTELLAR MAGNETIC FIELD CONDITIONS. <i>Astrophysical Journal</i> , 2009 , 695, L31-L34	4.7	71
311	STABILITY OF A PICKUP ION RING-BEAM POPULATION IN THE OUTER HELIOSHEATH: IMPLICATIONS FOR THE IBEX RIBBON. <i>Astrophysical Journal</i> , 2010 , 719, 1097-1103	4.7	70
310	Mixed particle acceleration at CME-driven shocks and flares. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	68
309	Acceleration and transport of heavy ions at coronal mass ejection-driven shocks. <i>Journal of Geophysical Research</i> , 2005 , 110,		68
308	Interaction of a nonuniform solar wind with the local interstellar medium: 2. A two-fluid model. <i>Journal of Geophysical Research</i> , 1997 , 102, 19779-19787		65
307	Phenomenology of hydromagnetic turbulence in a uniformly expanding medium. <i>Journal of Plasma Physics</i> , 1996 , 56, 659-675	2.7	65
306	One- versus Two-Shock Heliosphere: Constraining Models with Goddard High Resolution Spectrograph Ly α Spectra toward ϵ Centauri. <i>Astrophysical Journal</i> , 1997 , 487, 259-270	4.7	65
305	Heliospheric, Astrospheric, and Interstellar Ly α Absorption toward 36 Ophiuchi. <i>Astrophysical Journal</i> , 2000 , 537, 304-311	4.7	64
304	SMALL-SCALE MAGNETIC ISLANDS IN THE SOLAR WIND AND THEIR ROLE IN PARTICLE ACCELERATION. II. PARTICLE ENERGIZATION INSIDE MAGNETICALLY CONFINED CAVITIES. <i>Astrophysical Journal</i> , 2016 , 827, 122	4.7	63
303	A Reduced Magnetohydrodynamic Model of Coronal Heating in Open Magnetic Regions Driven by Reflected Low-Frequency Alfvén Waves. <i>Astrophysical Journal</i> , 2001 , 551, 565-575	4.7	61
302	An evaluation of perpendicular diffusion models regarding cosmic ray modulation on the basis of a hydromagnetic description for solar wind turbulence. <i>Journal of Geophysical Research</i> , 1999 , 104, 24845-24862		61
301	Particle injection and the structure of energetic-particle-modified shocks. <i>Astrophysical Journal</i> , 1993 , 406, 67	4.7	61
300	Influence of the Solar Cycle on Turbulence Properties and Cosmic-Ray Diffusion. <i>Astrophysical Journal</i> , 2018 , 856, 94	4.7	60
299	Heliospheric Response to Different Possible Interstellar Environments. <i>Astrophysical Journal</i> , 2006 , 647, 1491-1505	4.7	59

298	Interstellar Mapping and Acceleration Probe (IMAP): A New NASA Mission. <i>Space Science Reviews</i> , 2018 , 214, 1	7.5	59
297	The Pickup Ion-mediated Solar Wind. <i>Astrophysical Journal</i> , 2018 , 869, 23	4.7	58
296	Nearly incompressible hydrodynamics and heat conduction. <i>Physical Review Letters</i> , 1990 , 64, 1243-1246	7.4	57
295	A Forecast of the Heliospheric Termination-Shock Position by Three-dimensional MHD Simulations. <i>Astrophysical Journal</i> , 2007 , 670, L139-L142	4.7	56
294	INTERSTELLAR BOUNDARY EXPLORER MEASUREMENTS AND MAGNETIC FIELD IN THE VICINITY OF THE HELIOPAUSE. <i>Astrophysical Journal</i> , 2011 , 742, 104	4.7	54
293	SHOCK GEOMETRY AND SPECTRAL BREAKS IN LARGE SEP EVENTS. <i>Astrophysical Journal</i> , 2009 , 702, 998-1004	4.7	54
292	Turn-on of 2B kHz radiation beyond the heliopause. <i>Geophysical Research Letters</i> , 2002 , 29, 47-1	4.9	54
291	Heliopause stability in the presence of neutral atoms: Rayleigh-Taylor dispersion analysis and axisymmetric MHD simulations. <i>Journal of Geophysical Research</i> , 2005 , 110,		53
290	On the Possibility of a Strong Magnetic Field in the Local Interstellar Medium. <i>Astrophysical Journal</i> , 2004 , 604, 700-706	4.7	53
289	Impact of space weather on climate and habitability of terrestrial-type exoplanets. <i>International Journal of Astrobiology</i> , 2020 , 19, 136-194	1.4	53
288	Theory and Transport of Nearly Incompressible Magnetohydrodynamic Turbulence. IV. Solar Coronal Turbulence. <i>Astrophysical Journal</i> , 2018 , 854, 32	4.7	51
287	The Heliospheric Hydrogen Distribution: A Multifluid Model. <i>Astrophysical Journal</i> , 1997 , 476, 366-384	4.7	51
286	Pickup Ion Acceleration at Low- β Perpendicular Shocks. <i>Physical Review Letters</i> , 1999 , 82, 3609-3612	7.4	51
285	An Unusual Energetic Particle Flux Enhancement Associated with Solar Wind Magnetic Island Dynamics. <i>Astrophysical Journal Letters</i> , 2018 , 864, L34	7.9	51
284	CHARGE-EXCHANGE COUPLING BETWEEN PICKUP IONS ACROSS THE HELIOPAUSE AND ITS EFFECT ON ENERGETIC NEUTRAL HYDROGEN FLUX. <i>Astrophysical Journal</i> , 2014 , 783, 129	4.7	50
283	Consequences of the Heliopause Instability Caused by Charge Exchange. <i>Astrophysical Journal</i> , 2008 , 682, 1404-1415	4.7	47
282	PICKUP ION MEDIATED PLASMAS. I. BASIC MODEL AND LINEAR WAVES IN THE SOLAR WIND AND LOCAL INTERSTELLAR MEDIUM. <i>Astrophysical Journal</i> , 2014 , 797, 87	4.7	45
281	COMBINING DIFFUSIVE SHOCK ACCELERATION WITH ACCELERATION BY CONTRACTING AND RECONNECTING SMALL-SCALE FLUX ROPES AT HELIOSPHERIC SHOCKS. <i>Astrophysical Journal</i> , 2016 , 827, 47	4.7	45

280	Steady state and dynamical structure of a cosmic-ray-modified termination shock. <i>Journal of Geophysical Research</i> , 1993 , 98, 19005-19025		44
279	Structure of the Heliotail from Interstellar Boundary Explorer Observations: Implications for the 11-year Solar Cycle and Pickup Ions in the Heliosheath. <i>Astrophysical Journal</i> , 2017 , 836, 238	4.7	43
278	ENERGETIC NEUTRAL ATOMS MEASURED BY THE INTERSTELLAR BOUNDARY EXPLORER (IBEX): EVIDENCE FOR MULTIPLE HELIOSHEATH POPULATIONS. <i>Astrophysical Journal</i> , 2014 , 780, 98	4.7	42
277	The Effects of Global Heliospheric Asymmetries on Energetic Neutral Atom Sky Maps. <i>Astrophysical Journal</i> , 2007 , 655, L53-L56	4.7	42
276	Energetic Particles of keV-MeV Energies Observed near Reconnecting Current Sheets at 1 au. <i>Astrophysical Journal</i> , 2017 , 843, 4	4.7	41
275	Understanding large SEP events with the PATH code: Modeling of the 13 December 2006 SEP event. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		41
274	Unquiet on any front: Anisotropic turbulence in the solar wind. <i>Reviews of Geophysics</i> , 1995 , 33, 609	23.1	41
273	Heliosheath Processes and the Structure of the Heliopause: Modeling Energetic Particles, Cosmic Rays, and Magnetic Fields. <i>Space Science Reviews</i> , 2017 , 212, 193-248	7.5	40
272	A Focused Transport Approach to Pickup Ion Shock Acceleration: Implications for the Termination Shock. <i>Astrophysical Journal</i> , 2007 , 662, 350-371	4.7	40
271	Do Anomalous Cosmic Rays Modify the Termination Shock?. <i>Astrophysical Journal</i> , 2004 , 610, 1169-1181	4.7	40
270	An energetic-particle-mediated termination shock observed by Voyager 2. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	39
269	Particle Acceleration at 5 au Associated with Turbulence and Small-scale Magnetic Flux Ropes. <i>Astrophysical Journal</i> , 2019 , 872, 4	4.7	38
268	Identification of Magnetic Flux Ropes from Parker Solar Probe Observations during the First Encounter. <i>Astrophysical Journal, Supplement Series</i> , 2020 , 246, 26	8	38
267	Influence of the Interstellar Magnetic Field and Neutrals on the Shape of the Outer Heliosphere. <i>Space Science Reviews</i> , 2009 , 143, 31-42	7.5	38
266	PICKUP ION DYNAMICS AT THE HELIOSPHERIC TERMINATION SHOCK OBSERVED BY VOYAGER 2. <i>Astrophysical Journal</i> , 2010 , 715, 1109-1116	4.7	38
265	Driven dissipative whistler wave turbulence. <i>Physics of Plasmas</i> , 2005 , 12, 122310	2.1	38
264	Temperature and density anti-correlations in solar wind fluctuations. <i>Geophysical Research Letters</i> , 1990 , 17, 1239-1242	4.9	38
263	Self-consistent Energetic Particle Acceleration by Contracting and Reconnecting Small-scale Flux Ropes: The Governing Equations. <i>Astrophysical Journal</i> , 2018 , 864, 158	4.7	38

262	INTERPLANETARY PROPAGATION OF SOLAR ENERGETIC PARTICLE HEAVY IONS OBSERVED AT 1 AU AND THE ROLE OF ENERGY SCALING. <i>Astrophysical Journal</i> , 2012 , 761, 104	4-7	37
261	Physics of the Solar Wind–Local Interstellar Medium Interaction: Role of Magnetic Fields. <i>Space Science Reviews</i> , 2009 , 146, 295-327	7-5	37
260	USING THE PATH CODE FOR MODELING GRADUAL SEP EVENTS IN THE INNER HELIOSPHERE. <i>Astrophysical Journal</i> , 2009 , 693, 894-900	4-7	37
259	Cosmic Ray Diffusion Tensor throughout the Heliosphere Derived from a Nearly Incompressible Magnetohydrodynamic Turbulence Model. <i>Astrophysical Journal</i> , 2017 , 849, 88	4-7	36
258	Plasma Energization in Colliding Magnetic Flux Ropes. <i>Astrophysical Journal</i> , 2018 , 867, 16	4-7	36
257	Hydrogen Ly α Absorption Predictions by Boltzmann Models of the Heliosphere. <i>Astrophysical Journal</i> , 2000 , 542, 493-503	4-7	35
256	TURBULENCE TRANSPORT MODELING OF THE TEMPORAL OUTER HELIOSPHERE. <i>Astrophysical Journal</i> , 2014 , 793, 52	4-7	34
255	The Role of Magnetic Reconnection–Associated Processes in Local Particle Acceleration in the Solar Wind. <i>Astrophysical Journal</i> , 2019 , 873, 72	4-7	33
254	Shock propagation in the outer heliosphere: 1. Pickup ions and gasdynamics. <i>Journal of Geophysical Research</i> , 1997 , 102, 7037-7049		33
253	Solar Arcades as Possible Minimum Dissipative Relaxed States. <i>Solar Physics</i> , 2007 , 240, 63-76	2-6	32
252	Particle acceleration at a dynamic termination shock. <i>Geophysical Research Letters</i> , 2006 , 33,	4-9	32
251	Spectral Anisotropy in 2D plus Slab Magnetohydrodynamic Turbulence in the Solar Wind and Upper Corona. <i>Astrophysical Journal</i> , 2020 , 900, 115	4-7	32
250	Turbulence Transport Modeling and First Orbit Parker Solar Probe (PSP) Observations. <i>Astrophysical Journal, Supplement Series</i> , 2020 , 246, 38	8	31
249	The Direction of the Neutral Hydrogen Velocity in the Inner Heliosphere as a Possible Interstellar Magnetic Field Compass. <i>Astrophysical Journal</i> , 2006 , 636, L161-L164	4-7	31
248	The interaction of turbulence with shock waves: A basic model. <i>Physics of Fluids</i> , 2002 , 14, 3766-3774	4-4	31
247	The Origin of Switchbacks in the Solar Corona: Linear Theory. <i>Astrophysical Journal</i> , 2020 , 903, 1	4-7	31
246	Turbulent Transport in a Three-dimensional Solar Wind. <i>Astrophysical Journal</i> , 2017 , 837, 75	4-7	30
245	Anisotropic Cascades in Interstellar Medium Turbulence. <i>Astrophysical Journal</i> , 2007 , 656, L17-L20	4-7	30

244	Heliospheric filtration of interstellar heavy atoms: Sensitivity to hydrogen background. <i>Journal of Geophysical Research</i> , 2004 , 109,		30
243	Pickup ion acceleration by turbulent field-aligned electric fields in the slow low-latitude solar wind. <i>Journal of Geophysical Research</i> , 2002 , 107, SSH 9-1		30
242	No Evidence for Critical Balance in Field-aligned Alfvénic Solar Wind Turbulence. <i>Astrophysical Journal</i> , 2019 , 887, 160	4.7	30
241	High-Resolution Measurements of the Cross-Shock Potential, Ion Reflection, and Electron Heating at an Interplanetary Shock by MMS. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 3961-3978 ^{2.6}		28
240	SPECTRAL PROPERTIES OF ~0.5-6 keV ENERGETIC NEUTRAL ATOMS MEASURED BY THE INTERSTELLAR BOUNDARY EXPLORER (IBEX) ALONG THE LINES OF SIGHT OF VOYAGER. <i>Astrophysical Journal Letters</i> , 2012 , 749, L30	7.9	28
239	Transport of energetic charged particles in a radial magnetic field. Part 1. Large-angle scattering. <i>Journal of Plasma Physics</i> , 2000 , 64, 507-541	2.7	28
238	Solitons in an ion-beam plasma. <i>Journal of Plasma Physics</i> , 1988 , 39, 183-191	2.7	28
237	The Origin of Compressible Magnetic Turbulence in the Very Local Interstellar Medium. <i>Astrophysical Journal</i> , 2017 , 842, 114	4.7	27
236	A theoretical perspective on particle acceleration by interplanetary shocks and the Solar Energetic Particle problem. <i>Physics Reports</i> , 2015 , 557, 1-23	27.7	27
235	GEOMETRY AND CHARACTERISTICS OF THE HELIOSHEATH REVEALED IN THE FIRST FIVE YEARS OF INTERSTELLAR BOUNDARY EXPLORER OBSERVATIONS. <i>Astrophysical Journal</i> , 2016 , 826, 58	4.7	27
234	The response of a gasdynamic termination shock to interplanetary disturbances. <i>Journal of Geophysical Research</i> , 1995 , 100, 9489		27
233	Modelling the heliosphere. <i>Space Science Reviews</i> , 1996 , 78, 95-106	7.5	27
232	THE INTERACTION OF ALFVÉN WAVES WITH PERPENDICULAR SHOCKS. <i>Astrophysical Journal</i> , 2009 , 706, 687-692	4.7	27
231	Modeling Particle Acceleration and Transport at a 2-D CME-Driven Shock. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 10,938-10,963	2.6	26
230	TRAJECTORIES AND DISTRIBUTION OF INTERSTELLAR DUST GRAINS IN THE HELIOSPHERE. <i>Astrophysical Journal</i> , 2012 , 760, 46	4.7	26
229	ACR Proton Acceleration Associated with Reconnection Processes beyond the Heliospheric Termination Shock. <i>Astrophysical Journal</i> , 2019 , 886, 144	4.7	26
228	POLARIZATION AND COMPRESSIBILITY OF OBLIQUE KINETIC ALFVÉN WAVES. <i>Astrophysical Journal</i> , 2013 , 766, 93	4.7	25
227	A GENERALIZED NONLINEAR GUIDING CENTER THEORY FOR THE COLLISIONLESS ANOMALOUS PERPENDICULAR DIFFUSION OF COSMIC RAYS. <i>Astrophysical Journal</i> , 2010 , 716, 671-692	4.7	25

226	Time-varying Heliospheric Distance to the Heliopause. <i>Astrophysical Journal Letters</i> , 2017 , 846, L9	7.9	24
225	Homotopy formulas for the magnetic vector potential and magnetic helicity: The Parker spiral interplanetary magnetic field and magnetic flux ropes. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		24
224	Spectral features of solar wind turbulent plasma. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009 , 400, 1881-1891	4.3	24
223	Transport of energetic charged particles. Part 2. Small-angle scattering. <i>Journal of Plasma Physics</i> , 2004 , 70, 505-532	2.7	24
222	Magnetohydrodynamic waves in non-uniform flows II: stress-energy tensors, conservation laws and Lie symmetries. <i>Journal of Plasma Physics</i> , 2005 , 71, 811	2.7	24
221	The acceleration of pickup ions at shock waves: Test particle-mesh simulations. <i>Journal of Geophysical Research</i> , 1998 , 103, 29679-29696		24
220	Spectral Features in Field-aligned Solar Wind Turbulence from Parker Solar Probe Observations. <i>Astrophysical Journal</i> , 2020 , 898, 113	4.7	23
219	Response of the termination shock to interplanetary disturbances: 2. MHD. <i>Journal of Geophysical Research</i> , 1997 , 102, 17381-17394		22
218	Magnetohydrodynamic waves in non-uniform flows I: a variational approach. <i>Journal of Plasma Physics</i> , 2005 , 71, 785	2.7	22
217	Compressible and Incompressible Magnetic Turbulence Observed in the Very Local Interstellar Medium by Voyager 1. <i>Astrophysical Journal</i> , 2019 , 887, 116	4.7	22
216	Heliospheric asymmetries due to the action of the interstellar magnetic field. <i>Advances in Space Research</i> , 2009 , 44, 1337-1344	2.4	21
215	The Transition to Incompressibility from Compressible Magnetohydrodynamic Turbulence. <i>Astrophysical Journal</i> , 2006 , 640, L195-L198	4.7	21
214	A Solar Coronal Hole and Fast Solar Wind Turbulence Model and First-orbit Parker Solar Probe (PSP) Observations. <i>Astrophysical Journal</i> , 2020 , 901, 102	4.7	21
213	Structure of Energetic Particle Mediated Shocks Revisited. <i>Astrophysical Journal</i> , 2017 , 841, 4	4.7	20
212	RADIAL DEPENDENCE OF PEAK PROTON AND IRON ION FLUXES IN SOLAR ENERGETIC PARTICLE EVENTS: APPLICATION OF THE PATH CODE. <i>Astrophysical Journal</i> , 2012 , 757, 75	4.7	20
211	The Solar System in a dense interstellar cloud: Implications for cosmic-ray fluxes at Earth and ¹⁰ Be records. <i>Geophysical Research Letters</i> , 2003 , 30, n/a-n/a	4.9	20
210	Short-wavelength compressive instabilities in cosmic ray shocks and heat conduction flows. <i>Journal of Plasma Physics</i> , 1987 , 37, 347-361	2.7	20
209	The Effect of Suprathermal Protons in the Heliosheath on the Global Structure of the Heliosphere and Heliotail. <i>Astrophysical Journal</i> , 2019 , 874, 76	4.7	19

208	Current Sheets, Magnetic Islands, and Associated Particle Acceleration in the Solar Wind as Observed by Ulysses near the Ecliptic Plane. <i>Astrophysical Journal</i> , 2019 , 881, 116	4.7	19
207	Theory and Transport of Nearly Incompressible Magnetohydrodynamics Turbulence. III. Evolution of Power Anisotropy in Magnetic Field Fluctuations throughout the Heliosphere. <i>Astrophysical Journal</i> , 2017 , 851, 117	4.7	19
206	The transport of low-frequency turbulence in the super-Alfvénic solar wind. <i>Journal of Physics: Conference Series</i> , 2015 , 642, 012001	0.3	19
205	INSTABILITY OF THE HELIOPAUSE DRIVEN BY CHARGE EXCHANGE INTERACTIONS. <i>Astrophysical Journal</i> , 2014 , 791, 102	4.7	19
204	The dynamical heliosphere 1999 ,		19
203	The Structure of Shocks in the Very Local Interstellar Medium. <i>Astrophysical Journal Letters</i> , 2018 , 854, L15	7.9	18
202	Pickup ion-mediated plasma physics of the outer heliosphere and very local interstellar medium. <i>Geoscience Letters</i> , 2016 , 3,	3.5	18
201	Shock propagation in the outer heliosphere: 2. Pickup ions and MHD. <i>Journal of Geophysical Research</i> , 1999 , 104, 12563-12575		18
200	On the Parallel and Oblique Firehose Instability in Fluid Models. <i>Astrophysical Journal</i> , 2017 , 839, 13	4.7	17
199	The transport of interstellar pickup ions. <i>Journal of Geophysical Research</i> , 2001 , 106, 5709-5720		17
198	Radio emissions and the heliospheric termination shock. <i>Journal of Geophysical Research</i> , 1994 , 99, 14729		17
197	Modeling a Single SEP Event from Multiple Vantage Points Using the iPATH Model. <i>Astrophysical Journal Letters</i> , 2018 , 854, L19	7.9	16
196	PARTICLE ACCELERATION AT QUASI-PERPENDICULAR SHOCK WAVES: THEORY AND OBSERVATIONS AT 1 AU. <i>Astrophysical Journal</i> , 2014 , 782, 52	4.7	16
195	Nearly incompressible fluids: hydrodynamics and large scale inhomogeneity. <i>Physical Review E</i> , 2006 , 74, 026302	2.4	16
194	Solar Wind Flow with Hydrogen Pickup. <i>Astrophysical Journal</i> , 1996 , 469, 921	4.7	16
193	Pickup Ion Effect of the Solar Wind Interaction with the Local Interstellar Medium. <i>Journal of Physics: Conference Series</i> , 2016 , 767, 012020	0.3	16
192	Turbulence transport in the solar corona: Theory, modeling, and Parker Solar Probe. <i>Physics of Plasmas</i> , 2021 , 28, 080501	2.1	16
191	MODELING THE SOLAR WIND AT THE ULYSSES, VOYAGER, AND NEW HORIZONS SPACECRAFT. <i>Astrophysical Journal</i> , 2016 , 832, 72	4.7	15

190	Deceleration of relative streaming between proton components among nonlinear low-frequency Alfvén waves. <i>Journal of Geophysical Research</i> , 2004 , 109,		15
189	Predicted timing for the turn-on of radiation in the outer heliosphere due to the Bastille Day shock. <i>Journal of Geophysical Research</i> , 2001 , 106, 29363-29372		15
188	Wave interactions in magnetohydrodynamics, and cosmic-ray-modified shocks. <i>Journal of Plasma Physics</i> , 1999 , 61, 295-346	2.7	15
187	Transport theory and the WKB approximation for interplanetary MHD fluctuations. <i>Journal of Geophysical Research</i> , 1994 , 99, 23421		15
186	Detection of small magnetic flux ropes from the third and fourth Parker Solar Probe encounters. <i>Astronomy and Astrophysics</i> , 2021 , 650, A12	5.1	15
185	New Closures for More Precise Modeling of Landau Damping in the Fluid Framework. <i>Physical Review Letters</i> , 2018 , 121, 135101	7.4	15
184	Energy dissipation and entropy in collisionless plasma. <i>Physical Review E</i> , 2020 , 101, 033208	2.4	14
183	Ion Cyclotron Waves in Field-aligned Solar Wind Turbulence. <i>Astrophysical Journal Letters</i> , 2019 , 885, L5	7.9	14
182	THE TRANSPORT OF DENSITY FLUCTUATIONS THROUGHOUT THE HELIOSPHERE. <i>Astrophysical Journal</i> , 2012 , 756, 21	4.7	14
181	The turbulent density spectrum in the solar wind plasma. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010 , 402, 362-370	4.3	14
180	Relativistic oblique magnetohydrodynamic shocks. <i>Journal of Plasma Physics</i> , 1987 , 37, 117-141	2.7	14
179	Does Turbulence Turn off at the Alfvén Critical Surface?. <i>Astrophysical Journal</i> , 2019 , 876, 26	4.7	13
178	Energetic Charged Particle Transport and Energization in Dynamic Two-dimensional Turbulence. <i>Astrophysical Journal</i> , 2004 , 602, 396-414	4.7	13
177	Ion injection and shock acceleration in the outer heliosphere. <i>Geophysical Research Letters</i> , 2000 , 27, 509-512	4.9	13
176	Parker Solar Probe Enters the Magnetically Dominated Solar Corona.. <i>Physical Review Letters</i> , 2021 , 127, 255101	7.4	13
175	A ROLE OF MAGNETOSONIC PULSES ON VARIATIONS OF VOYAGER-1 MeV ELECTRON INTENSITY IN THE HELIOSHEATH. <i>Astrophysical Journal Letters</i> , 2012 , 757, L2	7.9	13
174	An introductory guide to fluid models with anisotropic temperatures. Part 1. CGL description and collisionless fluid hierarchy. <i>Journal of Plasma Physics</i> , 2019 , 85,	2.7	13
173	Effect of Star Rotation Rate on the Characteristics of Energetic Particle Events. <i>Astrophysical Journal Letters</i> , 2019 , 878, L36	7.9	12

172	Draping of the local interstellar magnetic field over the heliopause. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		12
171	THE INTERACTION OF TURBULENCE WITH PARALLEL AND PERPENDICULAR SHOCKS: THEORY AND OBSERVATIONS AT 1 au. <i>Astrophysical Journal</i> , 2016 , 833, 218	4.7	12
170	Numerical Modeling of Suprathermal Electron Transport in the Solar Wind: Effects of Whistler Turbulence. <i>Astrophysical Journal</i> , 2020 , 892, 95	4.7	12
169	Dynamical small-scale magnetic islands as a source of local acceleration of particles in the solar wind. <i>Journal of Physics: Conference Series</i> , 2015 , 642, 012033	0.3	11
168	Ion acoustic traveling waves. <i>Journal of Plasma Physics</i> , 2014 , 80, 147-171	2.7	11
167	Theory and simulations of principle of minimum dissipation rate. <i>Physics of Plasmas</i> , 2008 , 15, 012306	2.1	11
166	Evolution of Solar Wind Turbulence from 0.1 to 1 au during the First Parker Solar Probe Solar Orbiter Radial Alignment. <i>Astrophysical Journal Letters</i> , 2021 , 912, L21	7.9	11
165	An introductory guide to fluid models with anisotropic temperatures. Part 2. Kinetic theory, Padé approximants and Landau fluid closures. <i>Journal of Plasma Physics</i> , 2019 , 85,	2.7	11
164	MHD MODELING OF THE OUTER HELIOSPHERIC STRUCTURES AROUND THE HELIOPAUSE. <i>Astrophysical Journal</i> , 2015 , 809, 16	4.7	10
163	Particle Acceleration by Cosmic Ray Viscosity in Radio-jet Shear Flows. <i>Astrophysical Journal</i> , 2019 , 881, 123	4.7	10
162	Nearly incompressible fluids: Decay of solar wind density fluctuations. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		10
161	Comment on On nonideal MHD properties of the partially ionized interstellar gas by V. B. Baranov and H. J. Fahr. <i>Journal of Geophysical Research</i> , 2003 , 108,		10
160	Numerical Modeling of Electron Transport in Solar Wind: Effects of Whistler Turbulence and Coulomb Collisions. <i>Journal of Physics: Conference Series</i> , 2018 , 1100, 012025	0.3	10
159	The Mediation of Collisionless Oblique Magnetized Shocks by Energetic Particles. <i>Astrophysical Journal</i> , 2018 , 868, 120	4.7	10
158	Temporal Evolution of the Latitude and Energy Dependence of the Energetic Neutral Atom Spectral Indices Measured by the Interstellar Boundary Explorer (IBEX) Over the First Nine Years. <i>Astrophysical Journal</i> , 2019 , 875, 91	4.7	9
157	LATITUDINAL AND ENERGY DEPENDENCE OF ENERGETIC NEUTRAL ATOM SPECTRAL INDICES MEASURED BY THE INTERSTELLAR BOUNDARY EXPLORER. <i>Astrophysical Journal</i> , 2015 , 802, 100	4.7	9
156	Electron Acceleration from Expanding Magnetic Vortices During Reconnection with a Guide Field. <i>Astrophysical Journal</i> , 2020 , 889, 11	4.7	9
155	Particle acceleration by combined diffusive shock acceleration and downstream multiple magnetic island acceleration. <i>Journal of Physics: Conference Series</i> , 2015 , 642, 012031	0.3	9

154	Magnetic structures in the heliosheath. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	9
153	Coupling of the interstellar and interplanetary magnetic fields at the heliospheric interface: The effect of neutral hydrogen atoms. <i>Advances in Space Research</i> , 2005 , 35, 2055-2060	2.4	9
152	Oscillatory cosmic-ray shock structures. <i>Astrophysics and Space Science</i> , 1988 , 140, 301-324	1.6	9
151	Modeling proton and electron heating in the fast solar wind. <i>Astronomy and Astrophysics</i> , 2021 , 650, A165.1		9
150	Shock Wave Structure in the Presence of Energetic Particles. <i>Journal of Physics: Conference Series</i> , 2017 , 900, 012016	0.3	8
149	Evolution of Entropy and Mediation of the Solar Wind by Turbulence. <i>Astrophysical Journal</i> , 2020 , 891, 34	4.7	8
148	Predicting the Solar Wind at the Parker Solar Probe Using an Empirically Driven MHD Model. <i>Astrophysical Journal, Supplement Series</i> , 2020 , 246, 40	8	8
147	Energetic Ion Acceleration by Small-scale Solar Wind Flux Ropes. <i>Journal of Physics: Conference Series</i> , 2015 , 642, 012015	0.3	8
146	CHARACTERISTIC LENGTH OF ENERGY-CONTAINING STRUCTURES AT THE BASE OF A CORONAL HOLE. <i>Astrophysical Journal</i> , 2013 , 773, 167	4.7	8
145	Energy Cascades in a Partially Ionized Astrophysical Plasma. <i>Astrophysical Journal</i> , 2008 , 688, 683-694	4.7	8
144	Propagation of Alfvén waves in shear flows: Nature of driven longitudinal velocity and density fluctuations. <i>Physics of Plasmas</i> , 2006 , 13, 112107	2.1	8
143	Nonlinear and three-wave resonant interactions in magnetohydrodynamics. <i>Journal of Plasma Physics</i> , 2000 , 63, 393-445	2.7	8
142	Shock propagation in the outer heliosphere: 3. Pickup ions, MHD, cosmic rays, and energetic particles. <i>Journal of Geophysical Research</i> , 2000 , 105, 5157-5166		8
141	Analytical model of the heliopause. <i>Journal of Geophysical Research</i> , 1996 , 101, 20003-20011		8
140	Properties of waves in an ion-beam plasma system. <i>Journal of Plasma Physics</i> , 1988 , 39, 193-213	2.7	8
139	The Transport and Evolution of MHD Turbulence throughout the Heliosphere: Models and Observations. <i>Fluids</i> , 2021 , 6, 368	1.6	8
138	Time-dependent evolution of cosmic-ray-modified shock structure: Transition to steady state. <i>Astrophysical Journal</i> , 1994 , 424, 263	4.7	8
137	An ACE/CRIS-observation-based Galactic Cosmic Rays heavy nuclei spectra model II. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020 , 63, 1	3.6	8

136	Modeling of Proton Acceleration in a Magnetic Island Inside the Ripple of the Heliospheric Current Sheet. <i>Solar System Research</i> , 2019 , 53, 30-55	0.8	7
135	Effects of two large solar energetic particle events on middle atmosphere nighttime odd hydrogen and ozone content: Aura/MLS and TIMED/SABER measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 12-29	2.6	7
134	PIC Simulation of a Shock Tube: Implications for Wave Transmission in the Heliospheric Boundary Region. <i>Astrophysical Journal</i> , 2020 , 888, 11	4.7	7
133	Generation Mechanisms for Low-energy Interstellar Pickup Ions. <i>Astrophysical Journal</i> , 2019 , 879, 32	4.7	7
132	Modeling heavy ions and atoms throughout the heliosphere. <i>AIP Conference Proceedings</i> , 2003 ,	0	7
131	Inner Heliosheath Shocks and Their Effect on Energetic Neutral Atom Observations by IBEX. <i>Astrophysical Journal Letters</i> , 2019 , 878, L24	7.9	6
130	LATITUDE, ENERGY, AND TIME VARIATIONS IN THE ENERGETIC NEUTRAL ATOM SPECTRAL INDICES MEASURED BY THE INTERSTELLAR BOUNDARY EXPLORER (IBEX). <i>Astrophysical Journal</i> , 2016 , 832, 116	4.7	6
129	Multi-symplectic magnetohydrodynamics: II, addendum and erratum. <i>Journal of Plasma Physics</i> , 2015 , 81,	2.7	6
128	Multi-symplectic magnetohydrodynamics. <i>Journal of Plasma Physics</i> , 2014 , 80, 707-743	2.7	6
127	Micropropulsion in space via dust-plasma thruster. <i>Physics of Plasmas</i> , 2007 , 14, 053507	2.1	6
126	Magnetohydrodynamic wave mixing in shear flows: Hamiltonian equations and wave action. <i>Journal of Plasma Physics</i> , 2007 , 73, 15-68	2.7	6
125	Turbulence in the Very Local Interstellar Medium (VLISM). <i>Astrophysical Journal</i> , 2020 , 900, 166	4.7	6
124	The Downwind Solar Wind: Model Comparison with Pioneer 10 Observations. <i>Astrophysical Journal Letters</i> , 2020 , 901, L23	7.9	6
123	The effect of viscosity on steady transonic flow with a nodal solution topology. <i>Astrophysical Journal</i> , 1991 , 368, 491	4.7	6
122	Kinetic entropy-based measures of distribution function non-Maxwellianity: theory and simulations. <i>Journal of Plasma Physics</i> , 2020 , 86,	2.7	6
121	Hybrid Simulations of Interstellar Pickup Protons Accelerated at the Solar-wind Termination Shock at Multiple Locations. <i>Astrophysical Journal</i> , 2021 , 911, 27	4.7	6
120	Evolution of anisotropic turbulence in the fast and slow solar wind: Theory and Solar Orbiter measurements. <i>Astronomy and Astrophysics</i> ,	5.1	6
119	Flux Ropes, Turbulence, and Collisionless Perpendicular Shock Waves: High Plasma Beta Case. <i>Astrophysical Journal</i> , 2021 , 913, 127	4.7	6

118	The Evolution of Interplanetary Shocks Propagating into the Very Local Interstellar Medium. <i>Journal of Physics: Conference Series</i> , 2018 , 1100, 012018	0.3	6
117	Assessing the Role of Interchange Reconnection in Forming Switchbacks. <i>Astrophysical Journal</i> , 2021 , 917, 110	4.7	6
116	Re-Acceleration of Energetic Particles in Large-Scale Heliospheric Magnetic Cavities. <i>Proceedings of the International Astronomical Union</i> , 2017 , 13, 75-81	0.1	5
115	Turbulent spectra in the solar wind plasma. <i>Journal of Plasma Physics</i> , 2010 , 76, 183-191	2.7	5
114	Non-linear Guiding Center Theory and Acceleration of Cosmic Rays at Supernova Remnant Shocks 2009 ,		5
113	Dual variational principles for nonlinear traveling waves in multifluid plasmas. <i>Physics of Plasmas</i> , 2007 , 14, 082318	2.1	5
112	Prediction of the timing of the 28 kHz radio emission within the solar cycle. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	5
111	The interaction of turbulence with shock waves. <i>AIP Conference Proceedings</i> , 2003 ,	0	5
110	Heliospheric Variation in Response to Changing Interstellar Environments 2006 , 23-51		5
109	Heliospheric Structure as Revealed by the 388 keV H ENA Spectra. <i>Astrophysical Journal</i> , 2020 , 888, 1	4.7	4
108	Energy Power Spectra Measured at an Interplanetary Shock by the New Horizon's SWAP Experiment: 1D Full Particle Simulations versus Observations. <i>Astrophysical Journal</i> , 2020 , 890, 48	4.7	4
107	Nighttime mesospheric hydroxyl enhancements during SEP events and accompanying geomagnetic storms: Ionization rate modeling and Aura satellite observations. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 6017-6030	2.6	4
106	Minimum dissipative relaxed states applied to laboratory and space plasmas. <i>Journal of Plasma Physics</i> , 2009 , 75, 273-287	2.7	4
105	Drift Kinetic Theory and Cosmic Rays 2009 ,		4
104	Alfvén simple waves. <i>Journal of Plasma Physics</i> , 2011 , 77, 51-93	2.7	4
103	Energy Dissipation at the Termination Shock: 1D PIC Simulation 2011 ,		4
102	Toroidal hydromagnetic waves in an axi-symmetric magnetic field. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		4
101	Modeling a mixed SEP event with the PATH model: December 13, 2006. <i>AIP Conference Proceedings</i> , 2008 ,	0	4

100	Interaction of a thin shock with turbulence. I. Effect on shock structure: Analytic model. <i>Physics of Fluids</i> , 2008 , 20, 127102	4.4	4
99	Heating the Outer Heliosphere by Pickup Protons. <i>AIP Conference Proceedings</i> , 2004 ,	0	4
98	Upstream turbulence and the particle spectrum at CME-driven Shocks. <i>AIP Conference Proceedings</i> , 2005 ,	0	4
97	Inertial-range Magnetic-fluctuation Anisotropy Observed from Parker Solar Probe's First Seven Orbits. <i>Astrophysical Journal Letters</i> , 2022 , 924, L5	7.9	4
96	Signature of a Heliotail Organized by the Solar Magnetic Field and the Role of Nonideal Processes in Modeled IBEX ENA Maps: A Comparison of the BU and Moscow MHD Models. <i>Astrophysical Journal</i> , 2021 , 921, 164	4.7	4
95	MHD and Ion Kinetic Waves in Field-aligned Flows Observed by Parker Solar Probe. <i>Astrophysical Journal</i> , 2021 , 922, 188	4.7	4
94	A Turbulent Heliosheath Driven by the Rayleigh-Taylor Instability. <i>Astrophysical Journal</i> , 2021 , 922, 181	4.7	4
93	Effects of Cowling Resistivity in the Weakly Ionized Chromosphere. <i>Astrophysical Journal Letters</i> , 2020 , 899, L4	7.9	4
92	Magnetohydrodynamic Turbulent Evolution of a Magnetic Cloud in the Outer Heliosphere. <i>Astrophysical Journal Letters</i> , 2020 , 905, L12	7.9	4
91	Statistical Analysis of Field-Aligned Alfvénic Turbulence and Intermittency in Fast Solar Wind. <i>Universe</i> , 2020 , 6, 116	2.5	4
90	A Focused Transport-based Kinetic Fractional Diffusion-advection Equation for Energetic Particle Trapping and Reconnection-related Acceleration by Small-scale Magnetic Flux Ropes in the Solar Wind. <i>Astrophysical Journal</i> , 2021 , 913, 84	4.7	4
89	Turbulence and wave transmission at an ICME-driven shock observed by the Solar Orbiter and Wind. <i>Astronomy and Astrophysics</i> ,	5.1	4
88	A Brief Review on Particle Acceleration in Multi-island Magnetic Reconnection. <i>Journal of Physics: Conference Series</i> , 2019 , 1332, 012003	0.3	4
87	Interstellar Neutrals, Pickup Ions, and Energetic Neutral Atoms Throughout the Heliosphere: Present Theory and Modeling Overview. <i>Space Science Reviews</i> , 2022 , 218, 1	7.5	4
86	Nearly incompressible turbulence for different 2D and slab energy ratios. <i>Journal of Physics: Conference Series</i> , 2017 , 900, 012001	0.3	3
85	The Interaction of Current Sheets with a Shock Wave and Particle Acceleration. <i>Journal of Physics: Conference Series</i> , 2020 , 1620, 012014	0.3	3
84	Double Alfvén waves. <i>Journal of Plasma Physics</i> , 2012 , 78, 71-85	2.7	3
83	Three-dimensional Modeling of Physical Processes in the Outer Heliosphere. <i>AIP Conference Proceedings</i> , 2008 ,	0	3

82	Magnetic draping, 28 kHz radio emissions, and constraints on the interstellar magnetic field. <i>AIP Conference Proceedings</i> , 2006 ,	0	3
81	Parametric instabilities and wave coupling in Alfvén simple waves. <i>Journal of Plasma Physics</i> , 2001 , 66, 167-212	2.7	3
80	Cosmic-Ray Acceleration in Radio-jet Shear Flows: Scattering Inside and Outside the Jet. <i>Astrophysical Journal</i> , 2020 , 894, 95	4.7	3
79	Exploring the Solar Wind from Its Source on the Corona into the Inner Heliosphere during the First Solar Orbiter/Barker Solar Probe Quadrature. <i>Astrophysical Journal Letters</i> , 2021 , 920, L14	7.9	3
78	The Modeling of Pickup Ion or Energetic Particle Mediated Plasmas. <i>Journal of Physics: Conference Series</i> , 2016 , 719, 012014	0.3	3
77	The interaction of turbulence with parallel and perpendicular shocks. <i>Journal of Physics: Conference Series</i> , 2016 , 767, 012001	0.3	3
76	A Nearly Incompressible Turbulence-Driven Solar Wind Model. <i>Journal of Physics: Conference Series</i> , 2019 , 1332, 012001	0.3	3
75	The Formation of Electron Outflow Jets with Power-law Energy Distribution in Guide-field Magnetic Reconnection. <i>Astrophysical Journal</i> , 2021 , 908, 72	4.7	3
74	Particle Acceleration in Interacting Magnetic Flux Ropes. <i>Journal of Physics: Conference Series</i> , 2018 , 1100, 012009	0.3	3
73	Extreme energetic particle events by superflare-associated CMEs from solar-like stars.. <i>Science Advances</i> , 2022 , 8, eabi9743	14.3	3
72	The Theory of Nearly Incompressible Magnetohydrodynamic Turbulence: Homogeneous Description. <i>Journal of Physics: Conference Series</i> , 2017 , 900, 012023	0.3	2
71	Outer Heliospheric Turbulence and the Angular Broadening of Radio Sources from the Voyager Data. <i>Journal of Physics: Conference Series</i> , 2020 , 1620, 012022	0.3	2
70	Numerical modeling of transient phenomena in the distant solar wind and in the heliosheath 2012 ,		2
69	The transport of low-frequency turbulence in astrophysical flows: Correlation lengths 2013 ,		2
68	The transport of low frequency turbulence throughout the heliosphere 2010 ,		2
67	Micro-Structure of the Heliospheric Termination Shock 2009 ,		2
66	Numerical modeling of the solar wind flow with observational boundary conditions 2012 ,		2
65	Heliospheric termination shock strength from a multi-fluid model. <i>AIP Conference Proceedings</i> , 2008 ,	0	2

64	The Interaction of Alfvén Waves and Perpendicular Shocks. <i>AIP Conference Proceedings</i> , 2008 ,	0	2
63	Hydrodynamics of shock waves with reflected particles. I. Rankine-Hugoniot relations and stationary solutions. <i>Physics of Plasmas</i> , 2006 , 13, 082112	2.1	2
62	Unsteady processes in the solar wind interaction with the local interstellar medium. <i>AIP Conference Proceedings</i> , 2007 ,	0	2
61	The interaction of turbulence with gas dynamic shocks. <i>AIP Conference Proceedings</i> , 2007 ,	0	2
60	Velocity oscillations in the outer heliosphere: A signature of pickup ion temperature variability?. <i>Journal of Geophysical Research</i> , 2005 , 110,		2
59	Dynamical evolution of the termination Shock: consequences for charged particle acceleration. <i>AIP Conference Proceedings</i> , 2006 ,	0	2
58	Multifluid adaptive-mesh simulation of the solar wind interaction with the local interstellar medium. <i>AIP Conference Proceedings</i> , 2006 ,	0	2
57	Influence of the time-dependent heliosphere on global structure. <i>AIP Conference Proceedings</i> , 2003 ,	0	2
56	The global heliosphere: theory and models. <i>AIP Conference Proceedings</i> , 2004 ,	0	2
55	Self-consistent hybrid simulations of the interaction of the heliosphere with the local interstellar medium 1999 ,		2
54	The interaction of long-wavelength compressive waves with a cosmic ray shock. <i>Journal of Plasma Physics</i> , 1987 , 37, 363-372	2.7	2
53	Strength of the Termination Shock Inferred from the Globally Distributed Energetic Neutral Atom Flux from IBEX. <i>Astrophysical Journal, Supplement Series</i> , 2021 , 254, 32	8	2
52	Investigation of different small-scale flux-rope acceleration scenarios for energetic particles in the solar wind near Earth. <i>Journal of Physics: Conference Series</i> , 2018 , 1100, 012015	0.3	2
51	Solar Orbiter observations of an ion-scale flux rope confined to a bifurcated solar wind current sheet. <i>Astronomy and Astrophysics</i> ,	5.1	2
50	Charged Particle Transport in a Collisionless Magnetized Plasma. <i>Lecture Notes in Physics</i> , 2014 , 185-260	0.8	2
49	Turbulence in the Sub-Alfvénic Solar Wind. <i>Astrophysical Journal Letters</i> , 2022 , 926, L16	7.9	2
48	The Development of a Split-tail Heliosphere and the Role of Non-ideal Processes: A Comparison of the BU and Moscow Models. <i>Astrophysical Journal</i> , 2021 , 923, 179	4.7	2
47	Shocks in the Very Local Interstellar Medium.. <i>Space Science Reviews</i> , 2022 , 218, 27	7.5	2

46	Evolution of entropy in the outer heliosphere. <i>Journal of Physics: Conference Series</i> , 2020 , 1620, 012001	0.3	1
45	Turbulence transport within the Heliosphere. <i>Journal of Physics: Conference Series</i> , 2015 , 577, 012001	0.3	1
44	Unsteady processes in the vicinity of the heliopause: Are we in the LISM yet? 2013 ,		1
43	Self-organization in a driven dissipative plasma system. <i>Journal of Plasma Physics</i> , 2010 , 76, 107-116	2.7	1
42	Stability of pickup ion rings in the outer heliosphere and LISM 2010 ,		1
41	Whistler Wave Turbulence in Solar Wind Plasma 2010 ,		1
40	Termination Shock Surfing 2009 ,		1
39	Ion-Neutral Coupling in Solar Prominences 2011 ,		1
38	Analysis of Voyager-1 Observed High-Energy Particle Flux Using MHD Simulation of the Outer Heliosphere 2011 ,		1
37	Heliopause Instabilities Driven by Plasma-Neutral Interaction: Linear Analysis from Fluid Model 2011 ,		1
36	Modeling Particle Acceleration at Interplanetary Shocks. <i>AIP Conference Proceedings</i> , 2008 ,	0	1
35	The Cosmic Ray Increases At 35 and 60 Kyr BP. <i>Radiocarbon</i> , 2004 , 46, 683-690	4.6	1
34	Interaction of Heavy Interstellar Atoms with the Heliosphere. <i>AIP Conference Proceedings</i> , 2004 ,	0	1
33	Structure and properties of the termination shock. <i>AIP Conference Proceedings</i> , 2004 ,	0	1
32	Ion Acceleration and the Development of a Power-law Energy Spectrum in Magnetic Reconnection. <i>Astrophysical Journal</i> , 2021 , 921, 135	4.7	1
31	Interaction between Multiple Current Sheets and a Shock Wave: 2D Hybrid Kinetic Simulations. <i>Astrophysical Journal</i> , 2021 , 922, 219	4.7	1
30	Estimation of Turbulent Heating of Solar Wind Protons at 1 au. <i>Astrophysical Journal</i> , 2020 , 905, 137	4.7	1
29	Detection Capability of Flux Ropes during the Solar Orbiter Mission. <i>Astrophysical Journal Letters</i> , 2020 , 899, L25	7.9	1

28	Physics of the Solar Wind Local Interstellar Medium Interaction: Role of Magnetic Fields 2009 , 295-327		1
27	Modification of Velocity Power Spectra by Thermal Plasma Instrumentation. <i>Journal of Physics: Conference Series</i> , 2016 , 767, 012026	0.3	1
26	Evolution of Power Anisotropy in Magnetic Field Fluctuations at Different Solar Activity Levels. <i>Journal of Physics: Conference Series</i> , 2018 , 1100, 012001	0.3	1
25	Analytical investigation of turbulence quantities and cosmic ray mean free paths from 1995-2017. <i>Journal of Physics: Conference Series</i> , 2018 , 1100, 012029	0.3	1
24	Possible Evidence for Shear-driven Kelvin-Helmholtz Instability along the Boundary of Fast and Slow Solar Wind in the Corona. <i>Astrophysical Journal</i> , 2022 , 929, 98	4.7	1
23	Numerical Modeling of Suprathermal Electron Transport in the Solar Wind: Effects of Whistler Turbulence with a Full Diffusion Tensor. <i>Astrophysical Journal</i> , 2022 , 924, 113	4.7	0
22	PSP/IS?IS Observation of a Solar Energetic Particle Event Associated with a Streamer Blowout Coronal Mass Ejection during Encounter 6. <i>Astrophysical Journal</i> , 2022 , 925, 212	4.7	0
21	Transition to turbulence in a five-mode Galerkin truncation of two-dimensional magnetohydrodynamics. <i>Physical Review E</i> , 2021 , 104, 025201	2.4	0
20	Turbulence-dominated Shock Waves: 2D Hybrid Kinetic Simulations. <i>Astrophysical Journal</i> , 2022 , 926, 109	4.7	0
19	Density Turbulence and the Angular Broadening of Outer Heliospheric Radio Sources at High Latitudes and in the Ecliptic Plane. <i>Astrophysical Journal</i> , 2022 , 928, 125	4.7	0
18	The Turbulent Properties of the Sub-Alfvénic Solar Wind Measured by the Parker Solar Probe. <i>Astrophysical Journal Letters</i> , 2022 , 928, L15	7.9	0
17	On the Conservation of Turbulence Energy in Turbulence Transport Models. <i>Astrophysical Journal</i> , 2022 , 928, 176	4.7	0
16	On the Energization of Pickup Ions Downstream of the Heliospheric Termination Shock by Comparing 0.52-5 keV Observed Energetic Neutral Atom Spectra to Ones Inferred from Proton Hybrid Simulations. <i>Astrophysical Journal Letters</i> , 2022 , 931, L21	7.9	0
15	Evidence of magnetic flux ropes downstream of the heliospheric termination shock. <i>Journal of Physics: Conference Series</i> , 2020 , 1620, 012027	0.3	
14	Formation of bipolar planetary nebula M 2-9 by confining toroidal magnetic field and surrounding high-ram pressure wind. <i>Proceedings of the International Astronomical Union</i> , 2006 , 2, 543	0.1	
13	Galactic Winds: The Role of Cosmic Rays. <i>Symposium - International Astronomical Union</i> , 1990 , 140, 182-182		
12	Influence of the Interstellar Magnetic Field and Neutrals on the Shape of the Outer Heliosphere. <i>Space Sciences Series of ISSI</i> , 2008 , 31-42	0.1	
11	Galactic Winds: The Role of Cosmic Rays 1990 , 182-182		

- 10 The Boltzmann Transport Equation. *Lecture Notes in Physics*, **2016**, 77-135 0.8
- 9 Collisional Charged Particle Transport in a Magnetized Plasma. *Lecture Notes in Physics*, **2016**, 137-194 0.8
- 8 Charged Particle Transport in a Collisionless Magnetized Plasma. *Lecture Notes in Physics*, **2016**, 195-234 0.8
- 7 The Transport of Low Frequency Turbulence. *Lecture Notes in Physics*, **2016**, 235-251 0.8
- 6 Statistical Background. *Lecture Notes in Physics*, **2016**, 1-76 0.8
- 5 From Micro- to Macro-scales in the Heliosphere and Magnetosphere **2011**, 177-197
- 4 The Transport of Low Frequency Turbulence. *Lecture Notes in Physics*, **2014**, 261-280 0.8
- 3 A data-driven MHD model of the weakly-ionized chromosphere. *Journal of Physics: Conference Series*, **2020**, 1620, 012026 0.3
- 2 A possible explanation for the enhancement of energetic particles downstream of the heliospheric termination shock. *Journal of Physics: Conference Series*, **2019**, 1332, 012020 0.3
- 1 Collisional magnetized shock waves: One-dimensional full particle-in-cell simulations.. *Physical Review E*, **2022**, 105, 045209 2.4