

Gary P Zank

List of Publications by Year in Descending Order

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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	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
368	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
367	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
366	Turbulence-dominated Shock Waves: 2D Hybrid Kinetic Simulations. <i>Astrophysical Journal</i> , 2022 , 926, 109	4.7	0
365	Turbulence in the Sub-Alfvénic Solar Wind. <i>Astrophysical Journal Letters</i> , 2022 , 926, L16	7.9	2
364	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
363	Extreme energetic particle events by superflare-associated CMEs from solar-like stars.. <i>Science Advances</i> , 2022 , 8, eabi9743	14.3	3
362	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
361	On the Conservation of Turbulence Energy in Turbulence Transport Models. <i>Astrophysical Journal</i> , 2022 , 928, 176	4.7	0
360	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
359	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
358	Collisional magnetized shock waves: One-dimensional full particle-in-cell simulations.. <i>Physical Review E</i> , 2022 , 105, 045209	2.4	
357	Shocks in the Very Local Interstellar Medium.. <i>Space Science Reviews</i> , 2022 , 218, 27	7.5	2
356	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
355	Parker Solar Probe Enters the Magnetically Dominated Solar Corona.. <i>Physical Review Letters</i> , 2021 , 127, 255101	7.4	13
354	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
353	MHD and Ion Kinetic Waves in Field-aligned Flows Observed by Parker Solar Probe. <i>Astrophysical Journal</i> , 2021 , 922, 188	4.7	4

352	Ion Acceleration and the Development of a Power-law Energy Spectrum in Magnetic Reconnection. <i>Astrophysical Journal</i> , 2021 , 921, 135	4.7	1
351	A Turbulent Heliosheath Driven by the Rayleigh-Taylor Instability. <i>Astrophysical Journal</i> , 2021 , 922, 181	4.7	4
350	Interaction between Multiple Current Sheets and a Shock Wave: 2D Hybrid Kinetic Simulations. <i>Astrophysical Journal</i> , 2021 , 922, 219	4.7	1
349	The Transport and Evolution of MHD Turbulence throughout the Heliosphere: Models and Observations. <i>Fluids</i> , 2021 , 6, 368	1.6	8
348	Exploring the Solar Wind from Its Source on the Corona into the Inner Heliosphere during the First Solar Orbiter Parker Solar Probe Quadrature. <i>Astrophysical Journal Letters</i> , 2021 , 920, L14	7.9	3
347	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
346	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
345	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
344	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
343	Modeling proton and electron heating in the fast solar wind. <i>Astronomy and Astrophysics</i> , 2021 , 650, A165.1	5.1	9
342	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
341	Flux Ropes, Turbulence, and Collisionless Perpendicular Shock Waves: High Plasma Beta Case. <i>Astrophysical Journal</i> , 2021 , 913, 127	4.7	6
340	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
339	Transition to turbulence in a five-mode Galerkin truncation of two-dimensional magnetohydrodynamics. <i>Physical Review E</i> , 2021 , 104, 025201	2.4	0
338	Turbulence transport in the solar corona: Theory, modeling, and Parker Solar Probe. <i>Physics of Plasmas</i> , 2021 , 28, 080501	2.1	16
337	Assessing the Role of Interchange Reconnection in Forming Switchbacks. <i>Astrophysical Journal</i> , 2021 , 917, 110	4.7	6
336	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
335	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

334	Evidence of magnetic flux ropes downstream of the heliospheric termination shock. <i>Journal of Physics: Conference Series</i> , 2020 , 1620, 012027	0.3	
333	Evolution of entropy in the outer heliosphere. <i>Journal of Physics: Conference Series</i> , 2020 , 1620, 012001	0.3	1
332	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
331	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
330	Energy dissipation and entropy in collisionless plasma. <i>Physical Review E</i> , 2020 , 101, 033208	2.4	14
329	Heliospheric Structure as Revealed by the 388 keV H ENA Spectra. <i>Astrophysical Journal</i> , 2020 , 888, 1	4.7	4
328	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
327	Evolution of Entropy and Mediation of the Solar Wind by Turbulence. <i>Astrophysical Journal</i> , 2020 , 891, 34	4.7	8
326	Electron Acceleration from Expanding Magnetic Vortices During Reconnection with a Guide Field. <i>Astrophysical Journal</i> , 2020 , 889, 11	4.7	9
325	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
324	Turbulence Transport Modeling and First Orbit Parker Solar Probe (PSP) Observations. <i>Astrophysical Journal, Supplement Series</i> , 2020 , 246, 38	8	31
323	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
322	Cosmic-Ray Acceleration in Radio-jet Shear Flows: Scattering Inside and Outside the Jet. <i>Astrophysical Journal</i> , 2020 , 894, 95	4.7	3
321	Spectral Features in Field-aligned Solar Wind Turbulence from Parker Solar Probe Observations. <i>Astrophysical Journal</i> , 2020 , 898, 113	4.7	23
320	Turbulence in the Very Local Interstellar Medium (VLISM). <i>Astrophysical Journal</i> , 2020 , 900, 166	4.7	6
319	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
318	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
317	The Origin of Switchbacks in the Solar Corona: Linear Theory. <i>Astrophysical Journal</i> , 2020 , 903, 1	4.7	31

316	Estimation of Turbulent Heating of Solar Wind Protons at 1 au. <i>Astrophysical Journal</i> , 2020 , 905, 137	4.7	1
315	Effects of Cowling Resistivity in the Weakly Ionized Chromosphere. <i>Astrophysical Journal Letters</i> , 2020 , 899, L4	7.9	4
314	Detection Capability of Flux Ropes during the Solar Orbiter Mission. <i>Astrophysical Journal Letters</i> , 2020 , 899, L25	7.9	1
313	The Downwind Solar Wind: Model Comparison with Pioneer 10 Observations. <i>Astrophysical Journal Letters</i> , 2020 , 901, L23	7.9	6
312	Magnetohydrodynamic Turbulent Evolution of a Magnetic Cloud in the Outer Heliosphere. <i>Astrophysical Journal Letters</i> , 2020 , 905, L12	7.9	4
311	A data-driven MHD model of the weakly-ionized chromosphere. <i>Journal of Physics: Conference Series</i> , 2020 , 1620, 012026	0.3	
310	Kinetic entropy-based measures of distribution function non-Maxwellianity: theory and simulations. <i>Journal of Plasma Physics</i> , 2020 , 86,	2.7	6
309	Statistical Analysis of Field-Aligned Alfvénic Turbulence and Intermittency in Fast Solar Wind. <i>Universe</i> , 2020 , 6, 116	2.5	4
308	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
307	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
306	Numerical Modeling of Suprathermal Electron Transport in the Solar Wind: Effects of Whistler Turbulence. <i>Astrophysical Journal</i> , 2020 , 892, 95	4.7	12
305	Inner Heliosheath Shocks and Their Effect on Energetic Neutral Atom Observations by IBEX. <i>Astrophysical Journal Letters</i> , 2019 , 878, L24	7.9	6
304	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
303	Effect of Star Rotation Rate on the Characteristics of Energetic Particle Events. <i>Astrophysical Journal Letters</i> , 2019 , 878, L36	7.9	12
302	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
301	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
300	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
299	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

298	Particle Acceleration at 5 au Associated with Turbulence and Small-scale Magnetic Flux Ropes. <i>Astrophysical Journal</i> , 2019 , 872, 4	4.7	38
297	Generation Mechanisms for Low-energy Interstellar Pickup Ions. <i>Astrophysical Journal</i> , 2019 , 879, 32	4.7	7
296	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
295	Does Turbulence Turn off at the Alfvén Critical Surface?. <i>Astrophysical Journal</i> , 2019 , 876, 26	4.7	13
294	Ion Cyclotron Waves in Field-aligned Solar Wind Turbulence. <i>Astrophysical Journal Letters</i> , 2019 , 885, L5	7.9	14
293	Particle Acceleration by Cosmic Ray Viscosity in Radio-jet Shear Flows. <i>Astrophysical Journal</i> , 2019 , 881, 123	4.7	10
292	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
291	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
290	A Nearly Incompressible Turbulence-Driven Solar Wind Model. <i>Journal of Physics: Conference Series</i> , 2019 , 1332, 012001	0.3	3
289	A Brief Review on Particle Acceleration in Multi-island Magnetic Reconnection. <i>Journal of Physics: Conference Series</i> , 2019 , 1332, 012003	0.3	4
288	A possible explanation for the enhancement of energetic particles downstream of the heliospheric termination shock. <i>Journal of Physics: Conference Series</i> , 2019 , 1332, 012020	0.3	
287	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
286	No Evidence for Critical Balance in Field-aligned Alfvénic Solar Wind Turbulence. <i>Astrophysical Journal</i> , 2019 , 887, 160	4.7	30
285	ACR Proton Acceleration Associated with Reconnection Processes beyond the Heliospheric Termination Shock. <i>Astrophysical Journal</i> , 2019 , 886, 144	4.7	26
284	Alfvénic velocity spikes and rotational flows in the near-Sun solar wind. <i>Nature</i> , 2019 , 576, 228-231	50.4	172
283	The Structure of Shocks in the Very Local Interstellar Medium. <i>Astrophysical Journal Letters</i> , 2018 , 854, L15	7.9	18
282	Modeling a Single SEP Event from Multiple Vantage Points Using the iPATH Model. <i>Astrophysical Journal Letters</i> , 2018 , 854, L19	7.9	16
281	Theory and Transport of Nearly Incompressible Magnetohydrodynamic Turbulence. IV. Solar Coronal Turbulence. <i>Astrophysical Journal</i> , 2018 , 854, 32	4.7	51

280	Influence of the Solar Cycle on Turbulence Properties and Cosmic-Ray Diffusion. <i>Astrophysical Journal</i> , 2018 , 856, 94	4.7	60
279	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
278	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
277	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
276	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
275	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
274	Particle Acceleration in Interacting Magnetic Flux Ropes. <i>Journal of Physics: Conference Series</i> , 2018 , 1100, 012009	0.3	3
273	The Pickup Ion-mediated Solar Wind. <i>Astrophysical Journal</i> , 2018 , 869, 23	4.7	58
272	The Mediation of Collisionless Oblique Magnetized Shocks by Energetic Particles. <i>Astrophysical Journal</i> , 2018 , 868, 120	4.7	10
271	New Closures for More Precise Modeling of Landau Damping in the Fluid Framework. <i>Physical Review Letters</i> , 2018 , 121, 135101	7.4	15
270	Plasma Energization in Colliding Magnetic Flux Ropes. <i>Astrophysical Journal</i> , 2018 , 867, 16	4.7	36
269	Interstellar Mapping and Acceleration Probe (IMAP): A New NASA Mission. <i>Space Science Reviews</i> , 2018 , 214, 1	7.5	59
268	An Unusual Energetic Particle Flux Enhancement Associated with Solar Wind Magnetic Island Dynamics. <i>Astrophysical Journal Letters</i> , 2018 , 864, L34	7.9	51
267	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
266	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
265	Theory and Transport of Nearly Incompressible Magnetohydrodynamic Turbulence. <i>Astrophysical Journal</i> , 2017 , 835, 147	4.7	159
264	Turbulent Transport in a Three-dimensional Solar Wind. <i>Astrophysical Journal</i> , 2017 , 837, 75	4.7	30
263	Structure of Energetic Particle Mediated Shocks Revisited. <i>Astrophysical Journal</i> , 2017 , 841, 4	4.7	20

262	The Origin of Compressible Magnetic Turbulence in the Very Local Interstellar Medium. <i>Astrophysical Journal</i> , 2017 , 842, 114	4.7	27
261	II. Transport of Nearly Incompressible Magnetohydrodynamic Turbulence from 1 to 75 au. <i>Astrophysical Journal</i> , 2017 , 841, 85	4.7	82
260	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
259	Shock Wave Structure in the Presence of Energetic Particles. <i>Journal of Physics: Conference Series</i> , 2017 , 900, 012016	0.3	8
258	Nearly incompressible turbulence for different 2D and slab energy ratios. <i>Journal of Physics: Conference Series</i> , 2017 , 900, 012001	0.3	3
257	The Theory of Nearly Incompressible Magnetohydrodynamic Turbulence: Homogeneous Description. <i>Journal of Physics: Conference Series</i> , 2017 , 900, 012023	0.3	2
256	Time-varying Heliospheric Distance to the Heliopause. <i>Astrophysical Journal Letters</i> , 2017 , 846, L9	7.9	24
255	On the Parallel and Oblique Firehose Instability in Fluid Models. <i>Astrophysical Journal</i> , 2017 , 839, 13	4.7	17
254	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
253	Energetic Particles of keV-MeV Energies Observed near Reconnecting Current Sheets at 1 au. <i>Astrophysical Journal</i> , 2017 , 843, 4	4.7	41
252	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
251	Theory and Transport of Nearly Incompressible Magnetohydrodynamic Turbulence. III. Evolution of Power Anisotropy in Magnetic Field Fluctuations throughout the Heliosphere. <i>Astrophysical Journal</i> , 2017 , 851, 117	4.7	19
250	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
249	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
248	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
247	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
246	MODELING THE SOLAR WIND AT THE ULYSSES, VOYAGER, AND NEW HORIZONS SPACECRAFT. <i>Astrophysical Journal</i> , 2016 , 832, 72	4.7	15
245	Pickup ion-mediated plasma physics of the outer heliosphere and very local interstellar medium. <i>Geoscience Letters</i> , 2016 , 3,	3.5	18

244	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
243	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
242	The Boltzmann Transport Equation. <i>Lecture Notes in Physics</i> , 2016 , 77-135	0.8	
241	Collisional Charged Particle Transport in a Magnetized Plasma. <i>Lecture Notes in Physics</i> , 2016 , 137-194	0.8	
240	Charged Particle Transport in a Collisionless Magnetized Plasma. <i>Lecture Notes in Physics</i> , 2016 , 195-234	0.8	
239	The Transport of Low Frequency Turbulence. <i>Lecture Notes in Physics</i> , 2016 , 235-251	0.8	
238	Statistical Background. <i>Lecture Notes in Physics</i> , 2016 , 1-76	0.8	
237	The Modeling of Pickup Ion or Energetic Particle Mediated Plasmas. <i>Journal of Physics: Conference Series</i> , 2016 , 719, 012014	0.3	3
236	Modification of Velocity Power Spectra by Thermal Plasma Instrumentation. <i>Journal of Physics: Conference Series</i> , 2016 , 767, 012026	0.3	1
235	The interaction of turbulence with parallel and perpendicular shocks. <i>Journal of Physics: Conference Series</i> , 2016 , 767, 012001	0.3	3
234	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
233	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
232	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
231	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
230	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
229	MHD MODELING OF THE OUTER HELIOSPHERIC STRUCTURES AROUND THE HELIOPAUSE. <i>Astrophysical Journal</i> , 2015 , 809, 16	4.7	10
228	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
227	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

226	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
225	Multi-symplectic magnetohydrodynamics: II, addendum and erratum. <i>Journal of Plasma Physics</i> , 2015 , 81,	2.7	6
224	Turbulence transport within the Heliosphere. <i>Journal of Physics: Conference Series</i> , 2015 , 577, 012001	0.3	1
223	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
222	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
221	Energetic Ion Acceleration by Small-scale Solar Wind Flux Ropes. <i>Journal of Physics: Conference Series</i> , 2015 , 642, 012015	0.3	8
220	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
219	DIFFUSIVE SHOCK ACCELERATION AND RECONNECTION ACCELERATION PROCESSES. <i>Astrophysical Journal</i> , 2015 , 814, 137	4.7	116
218	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
217	Transport Processes in Space Physics and Astrophysics. <i>Lecture Notes in Physics</i> , 2014 ,	0.8	96
216	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
215	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
214	PARTICLE ACCELERATION VIA RECONNECTION PROCESSES IN THE SUPERSONIC SOLAR WIND. <i>Astrophysical Journal</i> , 2014 , 797, 28	4.7	141
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