

Stefaan Poedts

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446
papers

6,785
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516
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7,706
ext. citations

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avg, IF

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#	Paper	IF	Citations
446	Principles of Magnetohydrodynamics: With Applications to Laboratory and Astrophysical Plasmas 2004 ,		415
445	Advanced Magnetohydrodynamics: With Applications to Laboratory and Astrophysical Plasmas 2010 ,		176
444	Damping of Coronal Loop Oscillations: Calculation of Resonantly Damped Kink Oscillations of One-dimensional Nonuniform Loops. <i>Astrophysical Journal</i> , 2004 , 606, 1223-1232	4.7	154
443	EUHFORIA: European heliospheric forecasting information asset. <i>Journal of Space Weather and Space Climate</i> , 2018 , 8, A35	2.5	131
442	MHD seismology of coronal loops using the period and damping of quasi-mode kink oscillations. <i>Astronomy and Astrophysics</i> , 2007 , 463, 333-338	5.1	126
441	Slow magnetoacoustic waves in coronal loops: EIT and TRACE. <i>Astronomy and Astrophysics</i> , 2001 , 370, 591-601	5.1	125
440	Numerical simulation of coronal heating by resonant absorption of Alfvén waves. <i>Solar Physics</i> , 1989 , 123, 83-115	2.6	109
439	CASTOR: Normal-Mode Analysis of Resistive MHD Plasmas. <i>Journal of Computational Physics</i> , 1998 , 142, 271-303	4.1	107
438	The effect of curvature on quasi-modes in coronal loops. <i>Astronomy and Astrophysics</i> , 2004 , 424, 1065-1074		97
437	On the efficiency of coronal loop heating by resonant absorption. <i>Astrophysical Journal</i> , 1990 , 360, 279	4.7	90
436	THE ROLE OF STREAMERS IN THE DEFLECTION OF CORONAL MASS EJECTIONS: COMPARISON BETWEEN STEREO THREE-DIMENSIONAL RECONSTRUCTIONS AND NUMERICAL SIMULATIONS. <i>Astrophysical Journal</i> , 2012 , 744, 66	4.7	81
435	On waves and instabilities in pair-ion plasma. <i>Plasma Sources Science and Technology</i> , 2005 , 14, 485-491	3.5	67
434	MHD spectroscopy: free boundary modes (ELMs) and external excitation of TAE modes. <i>Plasma Physics and Controlled Fusion</i> , 1993 , 35, B277-B292	2	66
433	COSMOLOGICAL EFFECTS OF WEIBEL-TYPE INSTABILITIES. <i>Astrophysical Journal</i> , 2009 , 693, 1133-1141	4.7	65
432	Electrostatic modes in multi-ion and pair-ion collisional plasmas. <i>Physics of Plasmas</i> , 2008 , 15, 072104	2.1	65
431	Destabilizing effects of the suprathermal populations in the solar wind. <i>Astronomy and Astrophysics</i> , 2015 , 582, A124	5.1	64
430	Energy flux of Alfvén waves in weakly ionized plasma. <i>Astronomy and Astrophysics</i> , 2008 , 478, 553-558	5.1	60

429	The Electron Temperature and Anisotropy in the Solar Wind. Comparison of the Core and Halo Populations. <i>Solar Physics</i> , 2016 , 291, 2165-2179	2.6	60
428	Linking two consecutive nonmerging magnetic clouds with their solar sources. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		59
427	Counterstreaming magnetized plasmas with kappa distributions $\hat{\Pi}$. Parallel wave propagation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008 , 390, 168-174	4.3	56
426	Intensity variations in EIT shutterless mode: Waves or flows?. <i>Astronomy and Astrophysics</i> , 2004 , 415, 1141-1151	5.1	54
425	Ideal quasimodes reviewed in resistive magnetohydrodynamics. <i>Physical Review Letters</i> , 1991 , 66, 2871-2874	2.4	53
424	OBSERVATIONAL EVIDENCE OF TORUS INSTABILITY AS TRIGGER MECHANISM FOR CORONAL MASS EJECTIONS: THE 2011 AUGUST 4 FILAMENT ERUPTION. <i>Astrophysical Journal</i> , 2014 , 785, 88	4.7	52
423	Damping of global Alfvén waves in tokamaks due to resonant absorption. <i>Plasma Physics and Controlled Fusion</i> , 1992 , 34, 1397-1422	2	51
422	Detailed comparison of downflows seen both in EIT 30.4 nm and Big Bear H α movies. <i>Astronomy and Astrophysics</i> , 2005 , 443, 319-328	5.1	50
421	Magnetic Field Configuration Models and Reconstruction Methods for Interplanetary Coronal Mass Ejections. <i>Solar Physics</i> , 2013 , 284, 129-149	2.6	48
420	THE INTERNAL STRUCTURE OF CORONAL MASS EJECTIONS: ARE ALL REGULAR MAGNETIC CLOUDS FLUX ROPES?. <i>Astrophysical Journal</i> , 2009 , 695, L171-L175	4.7	48
419	Dual Maxwellian-Kappa modeling of the solar wind electrons: new clues on the temperature of Kappa populations. <i>Astronomy and Astrophysics</i> , 2017 , 602, A44	5.1	47
418	On some properties of linear and nonlinear waves in pair-ion plasmas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 350, 375-379	2.3	47
417	On the effect of the initial magnetic polarity and of the background wind on the evolution of CME shocks. <i>Astronomy and Astrophysics</i> , 2005 , 432, 331-339	5.1	47
416	Firehose instability in space plasmas with bi-kappa distributions. <i>Astronomy and Astrophysics</i> , 2009 , 494, 311-315	5.1	46
415	OBSERVATIONAL CHARACTERISTICS OF CORONAL MASS EJECTIONS WITHOUT LOW-CORONAL SIGNATURES. <i>Astrophysical Journal</i> , 2014 , 795, 49	4.7	43
414	Simulation of a Breakout Coronal Mass Ejection in the Solar Wind. <i>Astrophysical Journal</i> , 2007 , 671, L77-L80	4.8	43
413	Inverse and normal coronal mass ejections: evolution up to 1 AU. <i>Astronomy and Astrophysics</i> , 2006 , 447, 727-733	5.1	42
412	Complex magnetohydrodynamic bow shock topology in field-aligned low- β flow around a perfectly conducting cylinder. <i>Physics of Plasmas</i> , 1998 , 5, 4015-4027	2.1	41

411	CME-CME Interactions as Sources of CME Geoeffectiveness: The Formation of the Complex Ejecta and Intense Geomagnetic Storm in 2017 Early September. <i>Astrophysical Journal, Supplement Series</i> , 2020 , 247, 21	8	39
410	Modeling Jupiter's magnetosphere: Influence of the internal sources. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 2157-2172	2.6	39
409	Shear-Flow-Induced Wave Couplings in the Solar Wind. <i>Astrophysical Journal</i> , 1998 , 505, 369-375	4.7	39
408	Alfvén-wave heating in resistive MHD. <i>Journal of Plasma Physics</i> , 1989 , 42, 27-58	2.7	39
407	Linear resistive magnetohydrodynamic computations of resonant absorption of acoustic oscillations in sunspots. <i>Astrophysical Journal</i> , 1992 , 384, 348	4.7	39
406	Clarifying the solar wind heat flux instabilities. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 480, 310-319	4.3	38
405	SEPEM: A tool for statistical modeling the solar energetic particle environment. <i>Space Weather</i> , 2015 , 13, 406-426	3.7	37
404	Proton firehose instability in bi-Kappa distributed plasmas. <i>Astronomy and Astrophysics</i> , 2011 , 534, A1165.1	5.1	37
403	Computation of the Ideal-MHD Continuous Spectrum in Axisymmetric Plasmas. <i>Journal of Computational Physics</i> , 1993 , 105, 165-168	4.1	37
402	The effect of the solar wind on CME triggering by magnetic foot point shearing. <i>Astronomy and Astrophysics</i> , 2006 , 450, 793-803	5.1	35
401	Instability of the parallel electromagnetic modes in Kappa distributed plasmas - I. Electron whistler-cyclotron modes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011 , 410, 663-670	4.3	34
400	Magnetohydrodynamics of Laboratory and Astrophysical Plasmas 2019 ,		34
399	Firehose constraints of the bi-Kappa-distributed electrons: a zero-order approach for the suprathermal electrons in the solar wind. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 464, 564-571	4.3	33
398	ON THE INTERNAL STRUCTURE OF THE MAGNETIC FIELD IN MAGNETIC CLOUDS AND INTERPLANETARY CORONAL MASS EJECTIONS: WRITHE VERSUS TWIST. <i>Astrophysical Journal Letters</i> , 2011 , 738, L18	7.9	33
397	Observation-based modelling of magnetised coronal mass ejections with EUFORIA. <i>Astronomy and Astrophysics</i> , 2019 , 626, A122	5.1	32
396	Towards realistic parametrization of the kinetic anisotropy and the resulting instabilities in space plasmas. Electromagnetic electron-cyclotron instability in the solar wind. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 446, 3022-3033	4.3	32
395	Analytical description of a neutral-induced tripole vortex in a plasma. <i>Physical Review Letters</i> , 2002 , 89, 265002	7.4	31
394	On the existence of the continuous spectrum of ideal MHD in a 2D magnetostatic equilibrium. <i>Solar Physics</i> , 1985 , 102, 51-66	2.6	31

393	Variation of coronal line widths on and off the disk. <i>Astronomy and Astrophysics</i> , 2003 , 400, 1065-1070	5.1	31
392	NUMERICAL MODELING OF THE INITIATION OF CORONAL MASS EJECTIONS IN ACTIVE REGION NOAA 9415. <i>Astrophysical Journal</i> , 2012 , 758, 117	4.7	30
391	On the shear flow instability and its applications to multicomponent plasmas. <i>Physics of Plasmas</i> , 2007 , 14, 072104	2.1	30
390	Modelling the initiation of coronal mass ejections: magnetic flux emergence versus shearing motions. <i>Astronomy and Astrophysics</i> , 2009 , 507, 441-452	5.1	29
389	How is the Jovian main auroral emission affected by the solar wind?. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1960-1978	2.6	28
388	The Electron Firehose and Ordinary-Mode Instabilities in Space Plasmas. <i>Solar Physics</i> , 2014 , 289, 369-378	6	28
387	A polytropic model for the solar wind. <i>Advances in Space Research</i> , 2011 , 48, 1958-1966	2.4	28
386	The universally growing mode in the solar atmosphere: coronal heating by drift waves. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009 , 398, 918-930	4.3	28
385	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	4.7	28
384	Magnetohydrodynamic simulations of the ejection of a magnetic flux rope. <i>Astronomy and Astrophysics</i> , 2013 , 554, A77	5.1	27
383	Magnetic clouds seen at different locations in the heliosphere. <i>Annales Geophysicae</i> , 2008 , 26, 213-229	2	27
382	The COOLfluid Framework: Design Solutions for High Performance Object Oriented Scientific Computing Software. <i>Lecture Notes in Computer Science</i> , 2005 , 279-286	0.9	27
381	The Pulsational Mode in the Presence of Dust Charge Fluctuations. <i>Physica Scripta</i> , 2002 , 65, 513-517	2.6	27
380	Time scales and efficiency of resonant absorption in periodically driven resistive plasmas. <i>Journal of Plasma Physics</i> , 1992 , 47, 139-162	2.7	27
379	Instability of the parallel electromagnetic modes in Kappa distributed plasmas. II. Electromagnetic ion-cyclotron modes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014 , 437, 641-648	4.3	26
378	Observational evidence of Alfvén wings at the Earth. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		26
377	Numerical simulation of the stationary state of periodically driven coronal loops. <i>Computer Physics Communications</i> , 1990 , 59, 75-84	4.2	26
376	Temporal evolution of resonant absorption in solar coronal loops. <i>Computer Physics Communications</i> , 1990 , 59, 95-103	4.2	26

375	On the effect of the background wind on the evolution of interplanetary shock waves. <i>Astronomy and Astrophysics</i> , 2005 , 430, 1099-1107	5.1	26
374	Multi-fluid Modeling of Magnetosonic Wave Propagation in the Solar Chromosphere: Effects of Impact Ionization and Radiative Recombination. <i>Astrophysical Journal</i> , 2017 , 836, 197	4.7	25
373	Analysis of low-frequency waves in inhomogeneous and bounded plasmas. <i>Physics of Plasmas</i> , 2004 , 11, 891-897	2.1	25
372	Effect of Radiation on Chromospheric Magnetic Reconnection: Reactive and Collisional Multi-fluid Simulations. <i>Astrophysical Journal</i> , 2017 , 842, 117	4.7	24
371	Particle-in-cell Simulations of Firehose Instability Driven by Bi-Kappa Electrons. <i>Astrophysical Journal Letters</i> , 2019 , 873, L20	7.9	24
370	A small mission concept to the Sun-Earth Lagrangian L5 point for innovative solar, heliospheric and space weather science. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016 , 146, 171-185	2	24
369	Effect of the Initial Shape of Coronal Mass Ejections on 3-D MHD Simulations and Geoeffectiveness Predictions. <i>Space Weather</i> , 2018 , 16, 754-771	3.7	24
368	The evolution of coronal mass ejections in the inner heliosphere: Implementing the spheromak model with EUFORIA. <i>Astronomy and Astrophysics</i> , 2019 , 627, A111	5.1	24
367	Limits for the Firehose Instability in Space Plasmas. <i>Solar Physics</i> , 2009 , 258, 119-128	2.6	24
366	Alternative High-plasma Beta Regimes of Electron Heat-flux Instabilities in the Solar Wind. <i>Astrophysical Journal Letters</i> , 2020 , 900, L25	7.9	24
365	Modeling Space Plasma Dynamics with Anisotropic Kappa Distributions. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2012 , 97-107	0.3	24
364	Beaming electromagnetic (or heat-flux) instabilities from the interplay with the electron temperature anisotropies. <i>Physics of Plasmas</i> , 2018 , 25, 082105	2.1	23
363	Shaping the solar wind temperature anisotropy by the interplay of electron and proton instabilities. <i>Astrophysics and Space Science</i> , 2017 , 362, 1	1.6	23
362	Simulating AIA observations of a flux rope ejection. <i>Astronomy and Astrophysics</i> , 2014 , 568, A120	5.1	23
361	On the existence of Weibel instability in a magnetized plasma. I. Parallel wave propagation. <i>Physics of Plasmas</i> , 2009 , 16, 012106	2.1	23
360	Observational evidence favors a resistive wave heating mechanism for coronal loops over a viscous phenomenon. <i>Astronomy and Astrophysics</i> , 2007 , 471, 311-314	5.1	23
359	Intermediate shocks in three-dimensional magnetohydrodynamic bow-shock flows with multiple interacting shock fronts. <i>Physical Review Letters</i> , 2000 , 84, 5524-7	7.4	23
358	Effects of dust charge fluctuations on current-driven dust-ion-acoustic waves. <i>Physical Review E</i> , 2001 , 64, 066404	2.4	23

357	Stability of global Alfvén waves (TAE, EAE) in JET tritium discharges. <i>Plasma Physics and Controlled Fusion</i> , 1994 , 36, 911-923	2	23
356	Acoustic oscillations in a field-free cavity under solar small-scale bipolar magnetic canopy. <i>Annales Geophysicae</i> , 2008 , 26, 2983-2989	2	23
355	The interplay of the solar wind proton core and halo populations: EMIC instability. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 6031-6047	2.6	23
354	A fully-implicit finite-volume method for multi-fluid reactive and collisional magnetized plasmas on unstructured meshes. <i>Journal of Computational Physics</i> , 2016 , 318, 252-276	4.1	23
353	Firehose instabilities triggered by the solar wind suprathermal electrons. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 483, 5642-5648	4.3	23
352	Formation and evolution of coronal rain observed by SDO/AIA on February 22, 2012. <i>Astronomy and Astrophysics</i> , 2015 , 577, A136	5.1	22
351	FARLEY-BUNEMAN INSTABILITY IN THE SOLAR CHROMOSPHERE. <i>Astrophysical Journal</i> , 2009 , 706, L12-L16	4.1	22
350	Nonmodal Cascade in the Compressible Solar Atmosphere: Self-Heating, an Alternative Way to Enhance Wave Heating. <i>Astrophysical Journal</i> , 2006 , 642, L73-L76	4.7	22
349	Total resonant absorption of acoustic oscillations in sunspots. <i>Solar Physics</i> , 1993 , 147, 13-28	2.6	22
348	Quasi-linear approach of the whistler heat-flux instability in the solar wind. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 486, 4498-4507	4.3	21
347	Electromagnetic electron whistler-cyclotron instability in bi-Kappa distributed plasmas. <i>Astronomy and Astrophysics</i> , 2013 , 554, A64	5.1	21
346	Counterstreaming magnetized plasmas with kappa distributions II. Perpendicular wave propagation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010 , 401, 362-370	4.3	21
345	Models of Solar Wind Structures and Their Interaction with the Earth's Space Environment. <i>Space Science Reviews</i> , 2009 , 147, 233-270	7.5	21
344	NONLINEAR MHD SIMULATIONS OF WAVE DISSIPATION IN FLUX TUBES. <i>Solar Physics</i> , 1997 , 172, 45-52	2.6	21
343	Initiation of Coronal Mass Ejections by Magnetic Flux Emergence in the Framework of the Breakout Model. <i>Astrophysical Journal</i> , 2008 , 689, L157-L160	4.7	21
342	Stationary Two-Dimensional Magnetohydrodynamic Flows with Shocks: Characteristic Analysis and Grid Convergence Study. <i>Journal of Computational Physics</i> , 2001 , 166, 28-62	4.1	21
341	On the quality of resonant absorption as a coronal loop heating mechanism. <i>Solar Physics</i> , 1994 , 151, 271-304	2.6	21
340	Forecasting the Earth's radiation belts and modelling solar energetic particle events: Recent results from SPACECAST. <i>Journal of Space Weather and Space Climate</i> , 2013 , 3, A20	2.5	20

339	Drift waves in the corona: heating and acceleration of ions at frequencies far below the gyrofrequency. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010 , 408, 1835-1839	4.3	20
338	A new paradigm for solar coronal heating. <i>Europhysics Letters</i> , 2009 , 86, 39001	1.6	20
337	Comparison between 2.5D and 3D simulations of coronal mass ejections. <i>Astronomy and Astrophysics</i> , 2007 , 470, 359-365	5.1	20
336	The interplay of Kappa and core populations in the solar wind: Electromagnetic electron cyclotron instability. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 9395-9406	2.6	19
335	Characteristic analysis of a complex two-dimensional magnetohydrodynamic bow shock flow with steady compound shocks. <i>Physics of Plasmas</i> , 1999 , 6, 954-969	2.1	19
334	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	19
333	Modelling three-dimensional transport of solar energetic protons in a corotating interaction region generated with EUHFORIA. <i>Astronomy and Astrophysics</i> , 2019 , 622, A28	5.1	18
332	A GPU-enabled Finite Volume solver for global magnetospheric simulations on unstructured grids. <i>Computer Physics Communications</i> , 2014 , 185, 2538-2557	4.2	18
331	Is the Weibel instability enhanced by the suprathermal populations or not?. <i>Physics of Plasmas</i> , 2010 , 17, 062112	2.1	18
330	Three frontside full halo coronal mass ejections with a nontypical geomagnetic response. <i>Space Weather</i> , 2009 , 7, n/a-n/a	3.7	18
329	EFFECTS OF ELECTRONS ON THE ELECTROMAGNETIC ION CYCLOTRON INSTABILITY: SOLAR WIND IMPLICATIONS. <i>Astrophysical Journal</i> , 2015 , 814, 34	4.7	17
328	Temperature anisotropy instabilities stimulated by the interplay of the core and halo electrons in space plasmas. <i>Physics of Plasmas</i> , 2018 , 25, 022902	2.1	17
327	Growing drift-Alfvén modes in collisional solar plasma. <i>Astronomy and Astrophysics</i> , 2006 , 458, 635-640	5.1	17
326	Ion temperature gradient instability in a dusty plasma. <i>Physical Review E</i> , 2004 , 69, 056404	2.4	17
325	Assessing the Performance of EUHFORIA Modeling the Background Solar Wind. <i>Solar Physics</i> , 2019 , 294, 170	2.6	17
324	Whistler instability stimulated by the suprathermal electrons present in space plasmas. <i>Astrophysics and Space Science</i> , 2019 , 364, 1	1.6	16
323	Modelling large solar proton events with the shock-and-particle model. <i>Journal of Space Weather and Space Climate</i> , 2015 , 5, A12	2.5	16
322	Effect of gravitational stratification on the propagation of a CME. <i>Astronomy and Astrophysics</i> , 2013 , 560, A38	5.1	16

321	Kinetic instability of ion acoustic mode in permeating plasmas. <i>Physics of Plasmas</i> , 2009 , 16, 074501	2.1	16
320	On the combination of ACE data with numerical simulations to determine the initial characteristics of a CME. <i>Astronomy and Astrophysics</i> , 2008 , 492, L29-L32	5.1	16
319	Unstable drift mode driven by shear plasma flow in solar spicules. <i>Astronomy and Astrophysics</i> , 2007 , 471, 289-293	5.1	16
318	Reusable Object-Oriented Solutions for Numerical Simulation of PDEs in a High Performance Environment. <i>Scientific Programming</i> , 2006 , 14, 111-139	1.4	16
317	Spatial aspect of wave transformations in astrophysical flows. <i>Astronomy and Astrophysics</i> , 2001 , 374, 337-347	5.1	16
316	Viscous normal modes on coronal inhomogeneities and their role as a heating mechanism. <i>Astrophysical Journal</i> , 1986 , 304, 526	4.7	16
315	MIXING THE SOLAR WIND PROTON AND ELECTRON SCALES: EFFECTS OF ELECTRON TEMPERATURE ANISOTROPY ON THE OBLIQUE PROTON FIREHOSE INSTABILITY. <i>Astrophysical Journal</i> , 2016 , 832, 64	4.7	16
314	Kinetic study of electrostatic twisted waves instability in nonthermal dusty plasmas. <i>Physics of Plasmas</i> , 2017 , 24, 033701	2.1	15
313	Effects of suprathermal electrons on the proton temperature anisotropy in space plasmas: Electromagnetic ion-cyclotron instability. <i>Astrophysics and Space Science</i> , 2016 , 361, 1	1.6	15
312	Fully-implicit finite volume method for the ideal two-fluid plasma model. <i>Computer Physics Communications</i> , 2018 , 231, 31-44	4.2	15
311	Multipoint Observations of the June 2012 Interacting Interplanetary Flux Ropes. <i>Frontiers in Astronomy and Space Sciences</i> , 2019 , 6,	3.8	15
310	Particle-in-cell Simulations of the Whistler Heat-flux Instability in Solar Wind Conditions. <i>Astrophysical Journal Letters</i> , 2019 , 882,	7.9	15
309	DOME-SHAPED EUV WAVES FROM ROTATING ACTIVE REGIONS. <i>Astrophysical Journal Letters</i> , 2012 , 747, L21	7.9	15
308	SWIFF: Space weather integrated forecasting framework. <i>Journal of Space Weather and Space Climate</i> , 2013 , 3, A05	2.5	15
307	Numerical simulations of homologous coronal mass ejections in the solar wind. <i>Astronomy and Astrophysics</i> , 2009 , 501, 1123-1130	5.1	15
306	Electric fields in solar magnetic structures due to gradient-driven instabilities: heating and acceleration of particles. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009 , 400, 2147-2152	4.3	15
305	Models for coronal mass ejections. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011 , 73, 1148-1155		15
304	KINETIC INSTABILITY OF DRIFT-ALFVÉN WAVES IN SOLAR CORONA AND STOCHASTIC HEATING. <i>Astrophysical Journal</i> , 2010 , 719, 1335-1342	4.7	15

303	Instability of electrostatic modes in partially ionized plasma. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 348, 346-354	2.3	15
302	Magnetohydrodynamic continua and stratification induced Alfvén eigenmodes in coronal magnetic loops. <i>Physical Review Letters</i> , 1996 , 76, 567-570	7.4	15
301	Application of the Implicitly Updated Arnoldi Method with a Complex Shift-and-Invert Strategy in MHD. <i>Journal of Computational Physics</i> , 1995 , 118, 320-328	4.1	15
300	The Interplay of the Solar Wind Core and Suprathermal Electrons: A Quasilinear Approach for Firehose Instability. <i>Astrophysical Journal</i> , 2019 , 871, 237	4.7	14
299	Solar Decameter Spikes. <i>Solar Physics</i> , 2014 , 289, 1701-1714	2.6	14
298	Variation of Proton Flux Profiles with the Observer's Latitude in Simulated Gradual SEP Events. <i>Solar Physics</i> , 2014 , 289, 1745-1762	2.6	14
297	Statistical properties of coronal hole rotation rates: Are they linked to the solar interior?. <i>Astronomy and Astrophysics</i> , 2017 , 603, A134	5.1	14
296	Study of Multiple Coronal Mass Ejections at Solar Minimum Conditions. <i>Solar Physics</i> , 2012 , 281, 223	2.6	14
295	GRADSPH: A parallel smoothed particle hydrodynamics code for self-gravitating astrophysical fluid dynamics. <i>Computer Physics Communications</i> , 2009 , 180, 1164-1182	4.2	14
294	Why should the latitude of the observer be considered when modeling gradual proton events? An insight using the concept of cobpoint. <i>Advances in Space Research</i> , 2011 , 47, 2140-2151	2.4	14
293	Calculating magnetohydrodynamic flow spectra. <i>Computer Physics Communications</i> , 1997 , 106, 39-52	4.2	14
292	Properties of the acoustic mode in partially ionized and dusty plasmas. <i>Physics of Plasmas</i> , 2006 , 13, 052103	2.1	14
291	Ion-acoustic waves in dusty plasma with charge fluctuations. <i>Physics of Plasmas</i> , 2002 , 9, 1464-1467	2.1	14
290	The continuous spectrum of MHD waves in 2D solar loops and arcades. First results on poloidal mode coupling for poloidal magnetic fields. <i>Solar Physics</i> , 1987 , 109, 265-286	2.6	14
289	Multipoint Study of Successive Coronal Mass Ejections Driving Moderate Disturbances at 1 au. <i>Astrophysical Journal</i> , 2019 , 878, 37	4.7	13
288	Halo coronal mass ejections during Solar Cycle 24: reconstruction of the global scenario and geoeffectiveness. <i>Journal of Space Weather and Space Climate</i> , 2018 , 8, A09	2.5	13
287	Simulations of the Earth's magnetosphere embedded in sub-Alfvénic solar wind on 24 and 25 May 2002. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 8517-8528	2.6	13
286	Features of ion acoustic waves in collisional plasmas. <i>Physics of Plasmas</i> , 2010 , 17, 022104	2.1	13

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