

Robert E Ergun

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459
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21,635
ext. citations

4.9
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L-index

#	Paper	IF	Citations
430	A three-dimensional plasma and energetic particle investigation for the wind spacecraft. <i>Space Science Reviews</i> , 1995 , 71, 125-153	7.5	602
429	The Spin-Plane Double Probe Electric Field Instrument for MMS. <i>Space Science Reviews</i> , 2016 , 199, 137-165	7.5	418
428	Electron-scale measurements of magnetic reconnection in space. <i>Science</i> , 2016 , 352, aaf2939	33.3	418
427	FAST satellite observations of large-amplitude solitary structures. <i>Geophysical Research Letters</i> , 1998 , 25, 2041-2044	4.9	410
426	The Mars Atmosphere and Volatile Evolution (MAVEN) Mission. <i>Space Science Reviews</i> , 2015 , 195, 3-48	7.5	405
425	The Axial Double Probe and Fields Signal Processing for the MMS Mission. <i>Space Science Reviews</i> , 2016 , 199, 167-188	7.5	385
424	The Electric Field and Waves Instruments on the Radiation Belt Storm Probes Mission. <i>Space Science Reviews</i> , 2013 , 179, 183-220	7.5	360
423	The Electric Field Instrument (EFI) for THEMIS. <i>Space Science Reviews</i> , 2008 , 141, 303-341	7.5	344
422	The FIELDS Instrument Suite for Solar Probe Plus: Measuring the Coronal Plasma and Magnetic Field, Plasma Waves and Turbulence, and Radio Signatures of Solar Transients. <i>Space Science Reviews</i> , 2016 , 204, 49-82	7.5	303
421	The FIELDS Instrument Suite on MMS: Scientific Objectives, Measurements, and Data Products. <i>Space Science Reviews</i> , 2016 , 199, 105-135	7.5	292
420	S/WAVES: The Radio and Plasma Wave Investigation on the STEREO Mission. <i>Space Science Reviews</i> , 2008 , 136, 487-528	7.5	269
419	FAST observations in the downward auroral current region: Energetic upgoing electron beams, parallel potential drops, and ion heating. <i>Geophysical Research Letters</i> , 1998 , 25, 2017-2020	4.9	236
418	Discovery of very large amplitude whistler-mode waves in Earth's radiation belts. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	221
417	FAST satellite observations of electric field structures in the auroral zone. <i>Geophysical Research Letters</i> , 1998 , 25, 2025-2028	4.9	218
416	Highly structured slow solar wind emerging from an equatorial coronal hole. <i>Nature</i> , 2019 , 576, 237-242	50.4	215
415	Debye-Scale Plasma Structures Associated with Magnetic-Field-Aligned Electric Fields. <i>Physical Review Letters</i> , 1998 , 81, 826-829	7.4	210
414	Identifying the driver of pulsating aurora. <i>Science</i> , 2010 , 330, 81-4	33.3	208

413	The Space Physics Environment Data Analysis System (SPEDAS). <i>Space Science Reviews</i> , 2019 , 215, 9	7.5	205
412	New Features of Time Domain Electric-Field Structures in the Auroral Acceleration Region. <i>Physical Review Letters</i> , 1997 , 79, 1281-1284	7.4	204
411	Kinetic structure of the sharp injection/dipolarization front in the flow-braking region. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	202
410	Factors controlling ionospheric outflows as observed at intermediate altitudes. <i>Journal of Geophysical Research</i> , 2005 , 110,		199
409	Modulated electron-acoustic waves in auroral density cavities: FAST observations. <i>Geophysical Research Letters</i> , 1999 , 26, 2629-2632	4.9	197
408	WindSpacecraft Observations of Solar Impulsive Electron Events Associated with Solar Type III Radio Bursts. <i>Astrophysical Journal</i> , 1998 , 503, 435-445	4.7	176
407	Electron magnetic reconnection without ion coupling in Earth's turbulent magnetosheath. <i>Nature</i> , 2018 , 557, 202-206	50.4	173
406	The Search-Coil Magnetometer for MMS. <i>Space Science Reviews</i> , 2016 , 199, 257-282	7.5	171
405	FAST satellite wave observations in the AKR source region. <i>Geophysical Research Letters</i> , 1998 , 25, 2061-2064	4.9	158
404	Electron-Cyclotron Maser Driven by Charged-Particle Acceleration from Magnetic Field-Aligned Electric Fields. <i>Astrophysical Journal</i> , 2000 , 538, 456-466	4.7	156
403	Properties of small-scale Alfvén waves and accelerated electrons from FAST. <i>Journal of Geophysical Research</i> , 2003 , 108,		146
402	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. <i>Science</i> , 2018 , 362, 1391-1395	33.3	139
401	Direct observation of localized parallel electric fields in a space plasma. <i>Physical Review Letters</i> , 2001 , 87, 045003	7.4	138
400	Loss of the Martian atmosphere to space: Present-day loss rates determined from MAVEN observations and integrated loss through time. <i>Icarus</i> , 2018 , 315, 146-157	3.8	136
399	The Langmuir Probe and Waves (LPW) Instrument for MAVEN. <i>Space Science Reviews</i> , 2015 , 195, 173-198	7.5	134
398	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. <i>Science</i> , 2015 , 350, aad0210	33.3	131
397	FAST observations of electron distributions within AKR source regions. <i>Geophysical Research Letters</i> , 1998 , 25, 2069-2072	4.9	125
396	THEMIS observations of long-lived regions of large-amplitude whistler waves in the inner magnetosphere. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	120

395	Phase-space electron holes along magnetic field lines. <i>Geophysical Research Letters</i> , 1999 , 26, 1093-1096.	4.9	117
394	Microstructure of the auroral acceleration region as observed by FAST. <i>Journal of Geophysical Research</i> , 1999 , 104, 14453-14480		115
393	The THEMIS Digital Fields Board. <i>Space Science Reviews</i> , 2008 , 141, 343-355	7.5	114
392	Auroral ion acceleration in dispersive Alfvén waves. <i>Journal of Geophysical Research</i> , 2004 , 109,		114
391	Formation of double layers and electron holes in a current-driven space plasma. <i>Physical Review Letters</i> , 2001 , 87, 255001	7.4	113
390	Magnetospheric Multiscale Science Mission Profile and Operations. <i>Space Science Reviews</i> , 2016 , 199, 77-103	7.5	112
389	Driven Alfvén waves and electron acceleration: A FAST case study. <i>Geophysical Research Letters</i> , 2002 , 29, 30-1	4.9	111
388	Dayside electron temperature and density profiles at Mars: First results from the MAVEN Langmuir probe and waves instrument. <i>Geophysical Research Letters</i> , 2015 , 42, 8846-8853	4.9	103
387	Parallel electric fields in the upward current region of the aurora: Indirect and direct observations. <i>Physics of Plasmas</i> , 2002 , 9, 3685-3694	2.1	102
386	parallel electric fields in discrete arcs. <i>Geophysical Research Letters</i> , 2000 , 27, 4053-4056	4.9	102
385	Energy deposition by Alfvén waves into the dayside auroral oval: Cluster and FAST observations. <i>Journal of Geophysical Research</i> , 2005 , 110,		100
384	Characteristics of parallel electric fields in the downward current region of the aurora. <i>Physics of Plasmas</i> , 2002 , 9, 3600-3609	2.1	100
383	How important are dispersive Alfvén waves for auroral particle acceleration?. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	98
382	FAST observations of VLF waves in the auroral zone: Evidence of very low plasma densities. <i>Geophysical Research Letters</i> , 1998 , 25, 2065-2068	4.9	96
381	Auroral particle acceleration by strong double layers: The upward current region. <i>Journal of Geophysical Research</i> , 2004 , 109,		91
380	FAST observations of ion solitary waves. <i>Journal of Geophysical Research</i> , 2003 , 108,		90
379	Magnetospheric Multiscale observations of magnetic reconnection associated with Kelvin-Helmholtz waves. <i>Geophysical Research Letters</i> , 2016 , 43, 5606-5615	4.9	84
378	Ionospheric erosion by Alfvén waves. <i>Journal of Geophysical Research</i> , 2006 , 111,		84

377	Electron acceleration in the ionospheric Alfvén resonator. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 41-1		82
376	Lower hybrid waves in the ion diffusion and magnetospheric inflow regions. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 517-533	2.6	81
375	Eigenmode structure in solar-wind Langmuir waves. <i>Physical Review Letters</i> , 2008 , 101, 051101	7.4	80
374	Ion-scale secondary flux ropes generated by magnetopause reconnection as resolved by MMS. <i>Geophysical Research Letters</i> , 2016 , 43, 4716-4724	4.9	80
373	New features of electron phase space holes observed by the THEMIS mission. <i>Physical Review Letters</i> , 2009 , 102, 225004	7.4	79
372	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. <i>Science</i> , 2015 , 350, aad0459	33.3	77
371	Observations of double layers in earth's plasma sheet. <i>Physical Review Letters</i> , 2009 , 102, 155002	7.4	77
370	Transverse instability of magnetized electron holes. <i>Physical Review Letters</i> , 2000 , 85, 94-7	7.4	76
369	MMS observations of electron-scale filamentary currents in the reconnection exhaust and near the X line. <i>Geophysical Research Letters</i> , 2016 , 43, 6060-6069	4.9	76
368	Photochemical escape of oxygen from Mars: First results from MAVEN in situ data. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 3815-3836	2.6	74
367	Large-amplitude electric fields associated with bursty bulk flow braking in the Earth's plasma sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 1832-1844	2.6	73
366	Spatial structure and gradients of ion beams observed by FAST. <i>Geophysical Research Letters</i> , 1998 , 25, 2021-2024	4.9	72
365	Electron scale structures and magnetic reconnection signatures in the turbulent magnetosheath. <i>Geophysical Research Letters</i> , 2016 , 43, 5969-5978	4.9	72
364	Multievent study of the correlation between pulsating aurora and whistler mode chorus emissions. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		70
363	MMS observations of whistler waves in electron diffusion region. <i>Geophysical Research Letters</i> , 2017 , 44, 3954-3962	4.9	68
362	Estimates of terms in Ohm's law during an encounter with an electron diffusion region. <i>Geophysical Research Letters</i> , 2016 , 43, 5918-5925	4.9	68
361	The effects of turbulence on three-dimensional magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2016 , 43, 6020-6027	4.9	67
360	MMS observations of large guide field symmetric reconnection between colliding reconnection jets at the center of a magnetic flux rope at the magnetopause. <i>Geophysical Research Letters</i> , 2016 , 43, 5536-5544	4.9	65

359	Parallel electric fields in the upward current region of the aurora: Numerical solutions. <i>Physics of Plasmas</i> , 2002 , 9, 3695-3704	2.1	65
358	Currents and associated electron scattering and bouncing near the diffusion region at Earth's magnetopause. <i>Geophysical Research Letters</i> , 2016 , 43, 3042-3050	4.9	65
357	Nonlinear electric field structures in the inner magnetosphere. <i>Geophysical Research Letters</i> , 2014 , 41, 5693-5701	4.9	64
356	Electric and magnetic field observations of Pc4 and Pc5 pulsations in the inner magnetosphere: A statistical study. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		64
355	Magnetospheric Multiscale Observations of Electron Vortex Magnetic Hole in the Turbulent Magnetosheath Plasma. <i>Astrophysical Journal Letters</i> , 2017 , 836, L27	7.9	63
354	Role of plasma waves in Mars' atmospheric loss. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	63
353	Electron-Scale Measurements of Dipolarization Front. <i>Geophysical Research Letters</i> , 2018 , 45, 4628-4638	4.9	63
352	The distribution of plasmaspheric hiss wave power with respect to plasmopause location. <i>Geophysical Research Letters</i> , 2016 , 43, 7878-7886	4.9	62
351	Electric field structures and waves at plasma boundaries in the inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 4246-4263	2.6	61
350	Magnetospheric Multiscale Observations of the Electron Diffusion Region of Large Guide Field Magnetic Reconnection. <i>Physical Review Letters</i> , 2016 , 117, 015001	7.4	60
349	Multiscale coherent structures and broadband waves due to parallel inhomogeneous flows. <i>Physical Review Letters</i> , 2000 , 85, 4285-8	7.4	60
348	Properties of fast solitary structures. <i>Nonlinear Processes in Geophysics</i> , 1999 , 6, 187-194	2.9	60
347	Magnetospheric Multiscale Dayside Reconnection Electron Diffusion Region Events. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4858-4878	2.6	60
346	Observations of turbulence in a Kelvin-Helmholtz event on 8 September 2015 by the Magnetospheric Multiscale mission. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 11,021-11,034	2.6	59
345	Rippled Quasiperpendicular Shock Observed by the Magnetospheric Multiscale Spacecraft. <i>Physical Review Letters</i> , 2016 , 117, 165101	7.4	59
344	Electron jet of asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016 , 43, 5571-5580	4.9	59
343	Width and brightness of auroral arcs driven by inertial Alfvén waves. <i>Journal of Geophysical Research</i> , 2003 , 108,		58
342	Wave-particle energy exchange directly observed in a kinetic Alfvén-branch wave. <i>Nature Communications</i> , 2017 , 8, 14719	17.4	57

341	Generation and propagation of cyclotron maser emissions in the finite auroral kilometric radiation source cavity. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 13-1-SMP 13-17		57
340	Electron Jet Detected by MMS at Dipolarization Front. <i>Geophysical Research Letters</i> , 2018 , 45, 556-564	4.9	56
339	Coalescence of Macroscopic Flux Ropes at the Subsolar Magnetopause: Magnetospheric Multiscale Observations. <i>Physical Review Letters</i> , 2017 , 119, 055101	7.4	56
338	Electron energization and mixing observed by MMS in the vicinity of an electron diffusion region during magnetopause reconnection. <i>Geophysical Research Letters</i> , 2016 , 43, 6036-6043	4.9	55
337	Io-related Jovian auroral arcs: Modeling parallel electric fields. <i>Journal of Geophysical Research</i> , 2003 , 108,		55
336	Electron modulation and ion cyclotron waves observed by FAST. <i>Geophysical Research Letters</i> , 1998 , 25, 2045-2048	4.9	55
335	MMS Observation of Magnetic Reconnection in the Turbulent Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 11,442-11,467	2.6	53
334	Observations of an Electron Diffusion Region in Symmetric Reconnection with Weak Guide Field. <i>Astrophysical Journal</i> , 2019 , 870, 34	4.7	53
333	Langmuir wave growth and electron bunching: Results from a wave-particle correlator. <i>Journal of Geophysical Research</i> , 1991 , 96, 225		53
332	Properties of the Turbulence Associated with Electron-only Magnetic Reconnection in Earth's Magnetosheath. <i>Astrophysical Journal Letters</i> , 2019 , 877, L37	7.9	52
331	Observations of whistler mode waves with nonlinear parallel electric fields near the dayside magnetic reconnection separatrix by the Magnetospheric Multiscale mission. <i>Geophysical Research Letters</i> , 2016 , 43, 5909-5917	4.9	51
330	Magnetospheric Multiscale Satellites Observations of Parallel Electric Fields Associated with Magnetic Reconnection. <i>Physical Review Letters</i> , 2016 , 116, 235102	7.4	50
329	The first in situ electron temperature and density measurements of the Martian nightside ionosphere. <i>Geophysical Research Letters</i> , 2015 , 42, 8854-8861	4.9	50
328	Magnetospheric Multiscale observations of large-amplitude, parallel, electrostatic waves associated with magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2016 , 43, 5626-5634	4.9	49
327	Spacecraft charging and ion wake formation in the near-Sun environment. <i>Physics of Plasmas</i> , 2010 , 17, 072903	2.1	49
326	The FAST Satellite Fields Instrument. <i>Space Science Reviews</i> , 2001 , 98, 67-91	7.5	49
325	Magnetosphere-ionosphere coupling at Jupiter: Effect of field-aligned potentials on angular momentum transport. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		48
324	Electrostatic structure around spacecraft in tenuous plasmas. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		48

323	Momentum transfer between the Io plasma wake and Jupiter's ionosphere. <i>Journal of Geophysical Research</i> , 2003 , 108,		48
322	Kinetic effects in the acceleration of auroral electrons in small scale Alfvén waves: A FAST case study. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	47
321	How Accurately Can We Measure the Reconnection Rate for the MMS Diffusion Region Event of 11 July 2017?. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9130-9149	2.6	46
320	Phase-space holes due to electron and ion beams accelerated by a current-driven potential ramp. <i>Nonlinear Processes in Geophysics</i> , 2003 , 10, 37-44	2.9	45
319	Brenkov emission of quasiparallel whistlers by fast electron phase-space holes during magnetic reconnection. <i>Physical Review Letters</i> , 2014 , 112, 145002	7.4	44
318	Ion and electron characteristics in auroral density cavities associated with ion beams: No evidence for cold ionospheric plasma. <i>Journal of Geophysical Research</i> , 1999 , 104, 14671-14682		44
317	Electron currents and heating in the ion diffusion region of asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016 , 43, 4691-4700	4.9	43
316	Electron-Scale Quadrants of the Hall Magnetic Field Observed by the Magnetospheric Multiscale spacecraft during Asymmetric Reconnection. <i>Physical Review Letters</i> , 2017 , 118, 175101	7.4	42
315	Electron phase-space holes and the VLF saucer source region. <i>Geophysical Research Letters</i> , 2001 , 28, 3805-3808	4.9	42
314	Electron diffusion region during magnetopause reconnection with an intermediate guide field: Magnetospheric multiscale observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 5235-5246	2.6	41
313	MMS observations of ion-scale magnetic island in the magnetosheath turbulent plasma. <i>Geophysical Research Letters</i> , 2016 , 43, 7850-7858	4.9	41
312	First Results from ARTEMIS, a New Two-Spacecraft Lunar Mission: Counter-Streaming Plasma Populations in the Lunar Wake. <i>Space Science Reviews</i> , 2011 , 165, 93-107	7.5	41
311	The 2fp radiation from localized Langmuir waves. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		41
310	Electron Heating at Kinetic Scales in Magnetosheath Turbulence. <i>Astrophysical Journal</i> , 2017 , 836, 247	4.7	40
309	Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2018 , 45, 3338-3347	4.9	40
308	Magnetospheric Multiscale Satellite Observations of Parallel Electron Acceleration in Magnetic Field Reconnection by Fermi Reflection from Time Domain Structures. <i>Physical Review Letters</i> , 2016 , 116, 145101	7.4	40
307	Double layers and ion phase-space holes in the auroral upward-current region. <i>Physical Review Letters</i> , 2006 , 97, 185001	7.4	40
306	MMS Observations of Electrostatic Waves in an Oblique Shock Crossing. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9430-9442	2.6	40

305	Large-scale characteristics of reconnection diffusion regions and associated magnetopause crossings observed by MMS. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 5466-5486	2.6	39
304	MMS Observations and Hybrid Simulations of Surface Ripples at a Marginally Quasi-Parallel Shock. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 11,003-11,017	2.6	39
303	Electron Crescent Distributions as a Manifestation of Diamagnetic Drift in an Electron-Scale Current Sheet: Magnetospheric Multiscale Observations Using New 7.5 ms Fast Plasma Investigation Moments. <i>Geophysical Research Letters</i> , 2018 , 45, 578-584	4.9	39
302	In Situ Observation of Intermittent Dissipation at Kinetic Scales in the Earth's Magnetosheath. <i>Astrophysical Journal Letters</i> , 2018 , 856, L19	7.9	39
301	Statistical properties of low-frequency plasmaspheric hiss. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 8340-8352	2.6	39
300	Characterization of ULF pulsations by THEMIS. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	39
299	Magnetic reconnection and modification of the Hall physics due to cold ions at the magnetopause. <i>Geophysical Research Letters</i> , 2016 , 43, 6705-6712	4.9	39
298	Multispacecraft analysis of dipolarization fronts and associated whistler wave emissions using MMS data. <i>Geophysical Research Letters</i> , 2016 , 43, 7279-7286	4.9	38
297	Instability of Agyrotropic Electron Beams near the Electron Diffusion Region. <i>Physical Review Letters</i> , 2017 , 119, 025101	7.4	37
296	Large parallel electric fields, currents, and density cavities in dispersive Alfvén waves above the aurora. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		37
295	Magnetotail reconnection onset caused by electron kinetics with a strong external driver. <i>Nature Communications</i> , 2020 , 11, 5049	17.4	37
294	Enhanced O ²⁺ loss at Mars due to an ambipolar electric field from electron heating. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 4668-4678	2.6	36
293	Whistler mode waves and Hall fields detected by MMS during a dayside magnetopause crossing. <i>Geophysical Research Letters</i> , 2016 , 43, 5943-5952	4.9	36
292	MMS Multipoint electric field observations of small-scale magnetic holes. <i>Geophysical Research Letters</i> , 2016 , 43, 5953-5959	4.9	36
291	Solar wind influence on Pc4 and Pc5 ULF wave activity in the inner magnetosphere. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		36
290	Double layers in the downward current region of the aurora. <i>Nonlinear Processes in Geophysics</i> , 2003 , 10, 45-52	2.9	36
289	Walén and slow-mode shock analyses in the near-Earth magnetotail in connection with a substorm onset on 27 August 2001. <i>Journal of Geophysical Research</i> , 2004 , 109,		36
288	On the origin of the crescent-shaped distributions observed by MMS at the magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 2024-2039	2.6	35

287	Drift waves, intense parallel electric fields, and turbulence associated with asymmetric magnetic reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2017 , 44, 2978-2986	4.9	35
286	Generation of high-frequency electric field activity by turbulence in the Earth's magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 1845-1866	2.6	35
285	Current-voltage relation of a centrifugally confined plasma. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		35
284	S bursts and the Jupiter ionospheric Alfvén resonator. <i>Journal of Geophysical Research</i> , 2006 , 111,		35
283	Analysis and simulation of BGK electron holes. <i>Nonlinear Processes in Geophysics</i> , 1999 , 6, 211-219	2.9	35
282	Waves in Kinetic-Scale Magnetic Dips: MMS Observations in the Magnetosheath. <i>Geophysical Research Letters</i> , 2019 , 46, 523-533	4.9	35
281	The Digital Fields Board for the FIELDS instrument suite on the Solar Probe Plus mission: Analog and digital signal processing. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 5088-5096	2.6	34
280	Finite gyroradius effects in the electron outflow of asymmetric magnetic reconnection. <i>Geophysical Research Letters</i> , 2016 , 43, 6724-6733	4.9	34
279	Magnetic island formation between large-scale flow vortices at an undulating postnoon magnetopause for northward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		34
278	Evidence for correlated double layers, bipolar structures, and very-low-frequency saucer generation in the auroral ionosphere. <i>Physics of Plasmas</i> , 2002 , 9, 2337-2343	2.1	34
277	Dust observations at orbital altitudes surrounding Mars. <i>Science</i> , 2015 , 350, aad0398	33.3	33
276	Multipoint Measurements of the Electron Jet of Symmetric Magnetic Reconnection with a Moderate Guide Field. <i>Physical Review Letters</i> , 2017 , 118, 265101	7.4	33
275	The Effect of a Guide Field on Local Energy Conversion During Asymmetric Magnetic Reconnection: MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 11,342-11,353	2.6	32
274	THEMIS observations of a secondary magnetic island within the Hall electromagnetic field region at the magnetopause. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	32
273	Generation of parallel electric fields in the Jupiter torus wake region. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		32
272	Io-Jupiter interaction: Alfvén wave propagation and ionospheric Alfvén resonator. <i>Journal of Geophysical Research</i> , 2006 , 111,		32
271	Modeling of field-aligned electron bursts by dispersive Alfvén waves in the dayside auroral region. <i>Journal of Geophysical Research</i> , 2004 , 109,		32
270	A telescopic and microscopic view of a magnetospheric substorm on 31 March 2001. <i>Geophysical Research Letters</i> , 2002 , 29, 9-1-9-4	4.9	32

269	Observations of Magnetic Reconnection in the Transition Region of Quasi-Parallel Shocks. <i>Geophysical Research Letters</i> , 2019 , 46, 1177-1184	4.9	31
268	An Electron-Scale Current Sheet Without Bursty Reconnection Signatures Observed in the Near-Earth Tail. <i>Geophysical Research Letters</i> , 2018 , 45, 4542-4549	4.9	31
267	Localized Oscillatory Energy Conversion in Magnetopause Reconnection. <i>Geophysical Research Letters</i> , 2018 , 45, 1237-1245	4.9	31
266	Dependence of Langmuir wave polarization on electron beam speed in type III solar radio bursts. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	31
265	Observations of three-dimensional Langmuir wave structure. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		31
264	Magnetospheric Multiscale mission observations of the outer electron diffusion region. <i>Geophysical Research Letters</i> , 2017 , 44, 2049-2059	4.9	30
263	Quadrupolar pattern of the asymmetric guide-field reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 6349-6356	2.6	30
262	A model of electromagnetic electron phase-space holes and its application. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		30
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