

# C T R Russell

## List of Publications by Year in descending order

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1,344  
papers

75,719  
citations

664

126  
h-index

2142

209  
g-index

1424  
all docs

1424  
docs citations

1424  
times ranked

11640  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solitary Magnetic Structures Developed From Gyro-Resonance With Solar Wind Ions at Mars and Earth. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	7
2	Investigation of the homogeneity of energy conversion processes at dipolarization fronts from MMS measurements. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	5
3	Turbulence-driven magnetic reconnection and the magnetic correlation length: Observations from Magnetospheric Multiscale in Earth's magnetosheath. <i>Physics of Plasmas</i> , 2022, 29, .	0.7	30
4	Lower hybrid drift wave motion at a dayside magnetopause x-line with energy conversion dominated by a parallel electric field. <i>Physics of Plasmas</i> , 2022, 29, 012905.	0.7	3
5	Transport Path of Cold-Dense Plasmas in the Dusk Magnetotail Plasma Sheet: MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	3
6	Magnetic Flux Transport Identification of Active Reconnection: MMS Observations in Earth's Magnetosphere. <i>Astrophysical Journal Letters</i> , 2022, 926, L34.	3.0	7
7	Protoplanet Vesta and HED Meteorites. , 2022, , 41-52.		2
8	Carbon and Organic Matter on Ceres. , 2022, , 121-133.		0
9	Geomorphology of Ceres. , 2022, , 143-158.		0
10	Origin and Dynamical Evolution of the Asteroid Belt. , 2022, , 227-249.		9
11	Ceres' Surface Composition. , 2022, , 105-120.		0
12	Electron-Only Reconnection as a Transition Phase From Quiet Magnetotail Current Sheets to Traditional Magnetotail Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	10
13	Collisional Evolution of the Main Belt as Recorded by Vesta. , 2022, , 250-261.		1
14	Ammonia on Ceres. , 2022, , 134-142.		0
15	Geophysics of Vesta and Ceres. , 2022, , 173-196.		0
16	Formation of Main Belt Asteroids. , 2022, , 199-211.		3
17	The Surface Composition of Vesta. , 2022, , 81-104.		0
18	Remote Observations of the Main Belt. , 2022, , 3-25.		0

#	ARTICLE	IF	CITATIONS
19	Geomorphology of Vesta. , 2022, , 67-80.		0
20	Isotopic Constraints on the Formation of the Main Belt. , 2022, , 212-226.		1
21	Ceresâ€™ Internal Evolution. , 2022, , 159-172.		0
22	Exploring Vesta and Ceres. , 2022, , 26-38.		0
23	The Internal Evolution of Vesta. , 2022, , 53-66.		0
24	Statistical study of lightning-generated whistler-mode waves observed by Venus Express. Icarus, 2022, 380, 114993.	1.1	2
25	A young age of formation of Rheasilvia basin on Vesta from floor deformation patterns and crater counts. Meteoritics and Planetary Science, 2022, 57, 22-47.	0.7	6
26	ULF Waveâ€”Induced Ion Pitch Angle Evolution in the Dayside Outer Magnetosphere. Geophysical Research Letters, 2022, 49, .	1.5	2
27	Whistler Waves in the Foot of Quasiâ€”Perpendicular Supercritical Shocks. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	4
28	Electron energization and thermal to non-thermal energy partition during earth's magnetotail reconnection. Physics of Plasmas, 2022, 29, .	0.7	7
29	The EDR inflow region of a reconnecting current sheet in the geomagnetic tail. Physics of Plasmas, 2022, 29, .	0.7	3
30	Determining the Relative Cratering Ages of Regions of Psycheâ€™s Surface. Space Science Reviews, 2022, 218, 1.	3.7	4
31	Maximum Energies of Trapped Particles Around Magnetized Planets and Small Bodies. Geophysical Research Letters, 2022, 49, .	1.5	3
32	Ceresâ€™ Broadâ€”Scale Surface Geomorphology Largely Due To Asymmetric Internal Convection. AGU Advances, 2022, 3, .	2.3	2
33	Direct observations of anomalous resistivity and diffusion in collisionless plasma. Nature Communications, 2022, 13, .	5.8	15
34	Electronâ€”Only Reconnection as a Transition From Quiet Current Sheet to Standard Reconnection in Earth's Magnetotail: Particleâ€”Cell Simulation and Application to MMS Data. Geophysical Research Letters, 2022, 49, .	1.5	14
35	Three-dimensional network of filamentary currents and super-thermal electrons during magnetotail magnetic reconnection. Nature Communications, 2022, 13, .	5.8	11
36	Magnetic Field Annihilation in a Magnetotail Electron Diffusion Region With Electronâ€”Scale Magnetic Island. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	6

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37	Comparative Analysis of the Various Generalized Ohm's Law Terms in Magnetosheath Turbulence as Observed by Magnetospheric Multiscale. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028447.	0.8	15
38	The Boulder Population of Asteroid 4 Vesta: Size-Frequency Distribution and Survival Time. <i>Earth and Space Science</i> , 2021, 8, e2019EA000941.	1.1	17
39	Observations of Mirror Mode Structures in the Dawn-Side Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028649.	0.8	2
40	The Dynamics of a High Mach Number Quasi-perpendicular Shock: MMS Observations. <i>Astrophysical Journal</i> , 2021, 908, 40.	1.6	23
41	Electron-Only Tail Current Sheets and Their Temporal Evolution. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091364.	1.5	15
42	MMS Observations of Reconnection Separatrix Region in the Magnetotail at Different Distances From the Active Neutral X-Line. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028694.	0.8	5
43	In Situ Evidence of Ion Acceleration between Consecutive Reconnection Jet Fronts. <i>Astrophysical Journal</i> , 2021, 908, 73.	1.6	3
44	Statistical Characteristics of Field-Aligned Currents in the Plasma Sheet Boundary Layer. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028319.	0.8	6
45	Two-Dimensional Velocity of the Magnetic Structure Observed on July 11, 2017 by the Magnetospheric Multiscale Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028705.	0.8	7
46	An Encounter With the Ion and Electron Diffusion Regions at a Flapping and Twisted Tail Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028903.	0.8	8
47	Effect of the Electric Field on the Agyrotropic Electron Distributions. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091437.	1.5	3
48	MMS Observations of the Multiscale Wave Structures and Parallel Electron Heating in the Vicinity of the Southern Exterior Cusp. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2019JA027698.	0.8	15
49	Large Amplitude Electrostatic Proton Plasma Frequency Waves in the Magnetospheric Separatrix and Outflow Regions During Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090286.	1.5	9
50	Nighttime Magnetic Perturbation Events Observed in Arctic Canada: 3. Occurrence and Amplitude as Functions of Magnetic Latitude, Local Time, and Magnetic Disturbance Indices. <i>Space Weather</i> , 2021, 19, e2020SW002526.	1.3	15
51	Configuration of the Earth's Magnetotail Current Sheet. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092153.	1.5	14
52	Determining EMIC Wave Vector Properties Through Multi-Point Measurements: The Wave Curl Analysis. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028922.	0.8	10
53	Temporal Evolution of Flux Rope/Tube Entanglement in 3D Hall MHD Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028698.	0.8	3
54	Electron Trapping in Magnetic Mirror Structures at the Edge of Magnetopause Flux Ropes. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029182.	0.8	3

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55	Energy Transfer Between Hot Protons and Electromagnetic Ion Cyclotron Waves in Compressional Pc5 Ultra-low Frequency Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028912.	0.8	6
56	MMS Observations of Field Line Resonances Under Disturbed Solar Wind Conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028936.	0.8	2
57	Compositional control on impact crater formation on mid-sized planetary bodies: Dawn at Ceres and Vesta, Cassini at Saturn. <i>Icarus</i> , 2021, 359, 114343.	1.1	14
58	A Multi-instrument Study of a Dipolarization Event in the Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029294.	0.8	0
59	Statistical Survey of Collisionless Dissipation in the Terrestrial Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA029000.	0.8	12
60	MMS Observations of Energized He <sup>+</sup> Pickup Ions at Quasiperpendicular Shocks. <i>Astrophysical Journal</i> , 2021, 913, 112.	1.6	2
61	Microscale Processes Determining Macroscale Evolution of Magnetic Flux Tubes along Earth's Magnetopause. <i>Astrophysical Journal</i> , 2021, 914, 26.	1.6	6
62	The Brittle Boulders of Dwarf Planet Ceres. <i>Planetary Science Journal</i> , 2021, 2, 111.	1.5	10
63	Comparison of MMS Observations of Foreshock Bubbles With a Global Hybrid Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028848.	0.8	5
64	Replenishment of Near-Surface Water Ice by Impacts Into Ceres' Volatile-Rich Crust: Observations by Dawn's Gamma Ray and Neutron Detector. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094223.	1.5	2
65	Electrostatic Solitary Waves in the Earth's Bow Shock: Nature, Properties, Lifetimes, and Origin. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029357.	0.8	20
66	Observation of Nonuniform Energy Dissipation in the Electron Diffusion Region of Magnetopause Reconnection. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091928.	1.5	3
67	Upper-Hybrid Waves Driven by Meandering Electrons Around Magnetic Reconnection X Line. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093164.	1.5	13
68	Nonlinear Magnetic Gradients and Complete Magnetic Geometry From Multispacecraft Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028846.	0.8	6
69	Superposed Epoch Analysis of Nighttime Magnetic Perturbation Events Observed in Arctic Canada. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029465.	0.8	7
70	High Mach Number Quasi-Perpendicular Shocks: Spatial Versus Temporal Structure. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029287.	0.8	8
71	Anomalous Reconnection Layer at Earth's Dayside Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029678.	0.8	1
72	The surface of (4) Vesta in visible light as seen by Dawn/VIR. <i>Astronomy and Astrophysics</i> , 2021, 653, A118.	2.1	1

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73	Off-Equatorial Minima Effects on ULF Wave-Ion Interaction in the Dayside Outer Magnetosphere. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095648.	1.5	8
74	Shock Mach Number Estimates Using Incomplete Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029519.	0.8	6
75	Venus lightning: Estimation of charge and dimensions of charge regions for lightning initiation. <i>Icarus</i> , 2021, 365, 114473.	1.1	1
76	Thermal inertia of Occator's faculae on Ceres. <i>Planetary and Space Science</i> , 2021, 205, 105285.	0.9	0
77	The unique spectral and geomorphological characteristics of pitted impact deposits associated with Marcia crater on Vesta. <i>Icarus</i> , 2021, 369, 114633.	1.1	1
78	Solitary Magnetic Structures at Quasi-Parallel Collisionless Shocks: Formation. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090800.	1.5	21
79	Organic Material on Ceres: Insights from Visible and Infrared Space Observations. <i>Life</i> , 2021, 11, 9.	1.1	12
80	SECS Analysis of Nighttime Magnetic Perturbation Events Observed in Arctic Canada. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029839.	0.8	12
81	Thin Current Sheet Behind the Dipolarization Front. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029518.	0.8	8
82	Magnetic Flux Circulation in the Saturnian Magnetosphere as Constrained by Cassini Observations in the Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029304.	0.8	4
83	Formation of ejecta and dust pond deposits on asteroid Vesta. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006873.	1.5	0
84	Bifurcated Current Sheet Observed on the Boundary of Kelvin-Helmholtz Vortices. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	1.1	3
85	Structure of a Perturbed Magnetic Reconnection Electron Diffusion Region in the Earth's Magnetotail. <i>Physical Review Letters</i> , 2021, 127, 215101.	2.9	15
86	Mapping MMS Observations of Solitary Waves in Earth's Magnetic Field. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029389.	0.8	1
87	Large-Scale Parallel Electric Field Colocated in an Extended Electron Diffusion Region During the Magnetosheath Magnetic Reconnection. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094879.	1.5	11
88	Spatial evolution of magnetic reconnection diffusion region structures with distance from the X-line. <i>Physics of Plasmas</i> , 2021, 28, .	0.7	3
89	Comparative Study of Electric Currents and Energetic Particle Fluxes in a Solar Flare and Earth Magnetospheric Substorm. <i>Astrophysical Journal</i> , 2021, 923, 151.	1.6	5
90	High Thermal Inertia Zones on Ceres From Dawn Data. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2018JE005733.	1.5	9

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91	Ceres: Astrobiological Target and Possible Ocean World. <i>Astrobiology</i> , 2020, 20, 269-291.	1.5	43
92	Electron Bernstein waves driven by electron crescents near the electron diffusion region. <i>Nature Communications</i> , 2020, 11, 141.	5.8	26
93	Comparison of the Flank Magnetopause at Near-Earth and Lunar Distances: MMS and ARTEMIS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028406.	0.8	6
94	Flux Transfer Event With an Electron-Scale Substructure Observed by the Magnetospheric Multiscale Mission. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027308.	0.8	1
95	Observations of Electron-Only Magnetic Reconnection Associated With Macroscopic Magnetic Flux Ropes. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089659.	1.5	13
96	Multiscale Coupling During Magnetopause Reconnection: Interface Between the Electron and Ion Diffusion Regions. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027985.	0.8	10
97	Energetic Ion Reflections at Interplanetary Shocks: First Observations From ARTEMIS. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028174.	0.8	4
98	Propagating and Dynamic Properties of Magnetic Dips in the Dayside Magnetosheath: MMS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA026736.	0.8	22
99	Kinetic-scale Flux Rope in the Magnetosheath Boundary Layer. <i>Astrophysical Journal</i> , 2020, 897, 137.	1.6	16
100	The varied sources of faculae-forming brines in Ceres's Occator crater emplaced via hydrothermal brine effusion. <i>Nature Communications</i> , 2020, 11, 3680.	5.8	41
101	Impact heat driven volatile redistribution at Occator crater on Ceres as a comparative planetary process. <i>Nature Communications</i> , 2020, 11, 3679.	5.8	19
102	Evidence of non-uniform crust of Ceres from Dawn's high-resolution gravity data. <i>Nature Astronomy</i> , 2020, 4, 748-755.	4.2	30
103	Fresh emplacement of hydrated sodium chloride on Ceres from ascending salty fluids. <i>Nature Astronomy</i> , 2020, 4, 786-793.	4.2	60
104	Impact-driven mobilization of deep crustal brines on dwarf planet Ceres. <i>Nature Astronomy</i> , 2020, 4, 741-747.	4.2	50
105	Post-impact cryo-hydrologic formation of small mounds and hills in Ceres's Occator crater. <i>Nature Geoscience</i> , 2020, 13, 605-610.	5.4	15
106	Determination of the Configurations of Boundaries in Space. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028163.	0.8	6
107	The BepiColombo's Mio Magnetometer en Route to Mercury. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	19
108	The science mission of SpaceX's Beresheet lander. <i>Planetary and Space Science</i> , 2020, 194, 105115.	0.9	3

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109	Turbulent Wavefield Morphology and Ion Scattering in the Magnetosheath. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089613.	1.5	3
110	Magnetotail reconnection onset caused by electron kinetics with a strong external driver. <i>Nature Communications</i> , 2020, 11, 5049.	5.8	75
111	The Origin of Observed Magnetic Variability for a Sol on Mars From InSight. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006505.	1.5	15
112	Solar Wind Conditions During the First 42 Months of Magnetospheric Multiscale Mission. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028207.	0.8	0
113	Flux Ropes Are Born in Pairs: An Outcome of Interlinked, Reconnecting Flux Tubes. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087620.	1.5	14
114	MMS Observation of Secondary Magnetic Reconnection Beside Ionâ€Scale Flux Rope at the Magnetopause. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089075.	1.5	8
115	Electron Inflow Velocities and Reconnection Rates at Earth's Magnetopause and Magnetosheath. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089082.	1.5	23
116	Multisatellite MMS Analysis of Electron Holes in the Earth's Magnetotail: Origin, Properties, Velocity Gap, and Transverse Instability. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028066.	0.8	31
117	Observation of an inertial-range energy cascade within a reconnection jet in the Earthâ€™s magnetotail. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 500, L6-L10.	1.2	7
118	Physical Implication of Two Types of Reconnection Electron Diffusion Regions With and Without Ionâ€Coupling in the Magnetotail Current Sheet. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088761.	1.5	20
119	Magnetospheric Multiscale observations of energetic oxygen ions at the duskside magnetopause during intense substorms. <i>Annales Geophysicae</i> , 2020, 38, 123-135.	0.6	2
120	Distribution and Properties of Magnetic Flux Ropes in Titan's Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027570.	0.8	3
121	Formation and Evolution of the Largeâ€Scale Magnetic Fields in Venus' Ionosphere: Results From a Three Dimensional Global Multispecies MHD Model. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087593.	1.5	12
122	Observations of the Source Region of Whistler Mode Waves in Magnetosheath Mirror Structures. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027488.	0.8	12
123	<i>In Situ</i> Observation of Hall Magnetohydrodynamic Cascade in Space Plasma. <i>Physical Review Letters</i> , 2020, 124, 225101.	2.9	43
124	Characteristics of Minor Ions and Electrons in Flux Transfer Events Observed by the Magnetospheric Multiscale Mission. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027778.	0.8	8
125	Overshoot dependence on the cross-shock potential. <i>Annales Geophysicae</i> , 2020, 38, 17-26.	0.6	7
126	Direct Evidence for Electron Acceleration Within Ionâ€Scale Flux Rope. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085141.	1.5	44



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127	Ceres <sup>TM</sup> partial differentiation: undifferentiated crust mixing with a water-rich mantle. <i>Astronomy and Astrophysics</i> , 2020, 633, A117.	2.1	17
128	Extension of the Electron Diffusion Region in a Guide Field Magnetic Reconnection at Magnetopause. <i>Astrophysical Journal Letters</i> , 2020, 892, L5.	3.0	10
129	Cluster and MMS Simultaneous Observations of Magnetosheath High Speed Jets and Their Impact on the Magnetopause. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 6, .	1.1	18
130	Latitudinal Dependence of the Kelvin <sup>TM</sup> Helmholtz Instability and Beta Dependence of Vortex <sup>TM</sup> Induced High <sup>TM</sup> Guide Field Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027333.	0.8	7
131	MMS Observations of Accelerated Interstellar Pickup He <sup>+</sup> Ions at an Interplanetary Shock. <i>Astrophysical Journal</i> , 2020, 897, 6.	1.6	2
132	Statistics of Kinetic Dissipation in the Earth <sup>TM</sup> s Magnetosheath: MMS Observations. <i>Physical Review Letters</i> , 2020, 124, 255101.	2.9	41
133	Lower-Hybrid Drift Waves Driving Electron Nongyrotropic Heating and Vortical Flows in a Magnetic Reconnection Layer. <i>Physical Review Letters</i> , 2020, 125, 025103.	2.9	29
134	Ceres observed at low phase angles by VIR-Dawn. <i>Astronomy and Astrophysics</i> , 2020, 634, A39.	2.1	8
135	Generation of Turbulence in Kelvin <sup>TM</sup> Helmholtz Vortices at the Earth's Magnetopause: Magnetospheric Multiscale Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027595.	0.8	15
136	On the deviation from Maxwellian of the ion velocity distribution functions in the turbulent <sup>TM</sup> magnetosheath. <i>Journal of Plasma Physics</i> , 2020, 86, .	0.7	15
137	Observations, Meteorites, and Models: A Preflight Assessment of the Composition and Formation of (16) Psyche. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006296.	1.5	61
138	Characteristics of Escaping Magnetospheric Ions Associated With Magnetic Field Fluctuations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027337.	0.8	2
139	Crustal and time-varying magnetic fields at the InSight landing site on Mars. <i>Nature Geoscience</i> , 2020, 13, 199-204.	5.4	68
140	Observational Evidence for Stochastic Shock Drift Acceleration of Electrons at the Earth <sup>TM</sup> s Bow Shock. <i>Physical Review Letters</i> , 2020, 124, 065101.	2.9	42
141	Asymmetric Reconnection Within a Flux Rope <sup>TM</sup> Type Dipolarization Front. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027296.	0.8	7
142	Electron Heating by Debye-Scale Turbulence in Guide-Field Reconnection. <i>Physical Review Letters</i> , 2020, 124, 045101.	2.9	31
143	Statistics of Reconnecting Current Sheets in the Transition Region of Earth's Bow Shock. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027119.	0.8	32
144	Contribution of Anisotropic Electron Current to the Magnetotail Current Sheet as a Function of Location and Plasma Conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027251.	0.8	12

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145	Electrostatic Turbulence and Debye-scale Structures in Collisionless Shocks. <i>Astrophysical Journal Letters</i> , 2020, 889, L9.	3.0	34
146	Polynomial Reconstruction of the Reconnection Magnetic Field Observed by Multiple Spacecraft. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027481.	0.8	38
147	Fracture geometry and statistics of Ceres's floor fractures. <i>Planetary and Space Science</i> , 2020, 187, 104955.	0.9	4
148	Magnetic Reconnection Inside a Flux Rope Induced by Kelvin-Helmholtz Vortices. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027665.	0.8	26
149	In Situ Measurement of Curvature of Magnetic Field in Turbulent Space Plasmas: A Statistical Study. <i>Astrophysical Journal Letters</i> , 2020, 893, L25.	3.0	11
150	Electron Mixing and Isotropization in the Exhaust of Asymmetric Magnetic Reconnection With a Guide Field. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087159.	1.5	4
151	Sequential Observations of Flux Transfer Events, Poleward-Moving Auroral Forms, and Polar Cap Patches. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027674.	0.8	12
152	Temporal Evolution of Flux Tube Entanglement at the Magnetopause as Observed by the MMS Satellites. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090314.	1.5	6
153	Initial results from the InSight mission on Mars. <i>Nature Geoscience</i> , 2020, 13, 183-189.	5.4	274
154	The Solar Orbiter magnetometer. <i>Astronomy and Astrophysics</i> , 2020, 642, A9.	2.1	136
155	The surface of (1) Ceres in visible light as seen by Dawn/VIR. <i>Astronomy and Astrophysics</i> , 2020, 642, A74.	2.1	8
156	Energy Flux Densities near the Electron Dissipation Region in Asymmetric Magnetopause Reconnection. <i>Physical Review Letters</i> , 2020, 125, 265102.	2.9	17
157	Direct Measurement of the Solar-wind Taylor Microscale Using MMS Turbulence Campaign Data. <i>Astrophysical Journal</i> , 2020, 899, 63.	1.6	21
158	Scaling and Anisotropy of Solar Wind Turbulence at Kinetic Scales during the MMS Turbulence Campaign. <i>Astrophysical Journal</i> , 2020, 903, 127.	1.6	9
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