

Katherine A Goodrich

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.

57
papers

2,315
citations

27
h-index

47
g-index

58
ext. papers

2,741
ext. citations

5
avg, IF

4.11
L-index

#	Paper	IF	Citations
57	Parker Solar Probe Evidence for the Absence of Whistlers Close to the Sun to Scatter Strahl and to Regulate Heat Flux. <i>Astrophysical Journal Letters</i> , 2022 , 924, L33	7.9	2
56	Mapping MMS Observations of Solitary Waves in Earth's Magnetic Field. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029389	2.6	
55	Evidence of Subproton-Scale Magnetic Holes in the Venusian Magnetosheath. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL090329	4.9	10
54	Non-Detection of Lightning During the Second Parker Solar Probe Venus Gravity Assist. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091751	4.9	0
53	Direct Multipoint Observations Capturing the Reformation of a Supercritical Fast Magnetosonic Shock. <i>Astrophysical Journal Letters</i> , 2021 , 911, L31	7.9	3
52	Evaluating the deHoffmann-Teller Cross-Shock Potential at Real Collisionless Shocks. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029295	2.6	1
51	Kinetic-Scale Magnetic Holes Inside Foreshock Transients. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029748	2.6	1
50	In Situ Observations of Interplanetary Dust Variability in the Inner Heliosphere. <i>Astrophysical Journal</i> , 2020 , 892, 115	4.7	10
49	A Merged Search-Coil and Fluxgate Magnetometer Data Product for Parker Solar Probe FIELDS. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA027813	2.6	13
48	Examining Dust Directionality with the Parker Solar Probe FIELDS Instrument. <i>Astrophysical Journal, Supplement Series</i> , 2020 , 246, 51	8	15
47	Electron Energy Partition across Interplanetary Shocks. III. Analysis. <i>Astrophysical Journal</i> , 2020 , 893, 22	4.7	12
46	Particle Acceleration in Strong Turbulence in the Earth's Magnetotail. <i>Astrophysical Journal</i> , 2020 , 898, 153	4.7	8
45	Observations of Particle Acceleration in Magnetic Reconnection-Driven Turbulence. <i>Astrophysical Journal</i> , 2020 , 898, 154	4.7	13
44	Time Domain Structures and Dust in the Solar Vicinity: Parker Solar Probe Observations. <i>Astrophysical Journal, Supplement Series</i> , 2020 , 246, 50	8	7
43	Plasma Double Layers at the Boundary Between Venus and the Solar Wind. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL090115	4.9	7
42	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
41	Impulsively Reflected Ions: A Plausible Mechanism for Ion Acoustic Wave Growth in Collisionless Shocks. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 1855-1865	2.6	12

40	The Modulation of Solar Wind Hydrogen Deposition in the Martian Atmosphere by Foreshock Phenomena. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 7086-7097	2.6	6
39	Electron Energy Partition across Interplanetary Shocks. I. Methodology and Data Product. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 243,	8	39
38	Magnetic Reconnection in Three Dimensions: Observations of Electromagnetic Drift Waves in the Adjacent Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 10104-10118	2.6	3
37	Electron Energy Partition across Interplanetary Shocks. II. Statistics. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 245, 24	8	26
36	Magnetic Reconnection in Three Dimensions: Modeling and Analysis of Electromagnetic Drift Waves in the Adjacent Current Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 10085-10103	2.6	11
35	The Properties of Lion Roars and Electron Dynamics in Mirror Mode Waves Observed by the Magnetospheric MultiScale Mission. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 93-103	2.6	18
34	Magnetic Reconnection, Turbulence, and Particle Acceleration: Observations in the Earth's Magnetotail. <i>Geophysical Research Letters</i> , 2018 , 45, 3338-3347	4.9	40
33	Negative Potential Solitary Structures in the Magnetosheath With Large Parallel Width. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 132-145	2.6	8
32	The Role of the Parallel Electric Field in Electron-Scale Dissipation at Reconnecting Currents in the Magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 6533-6547	2.6	27
31	Generation of Electron Whistler Waves at the Mirror Mode Magnetic Holes: MMS Observations and PIC Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 6383-6393	2.6	19
30	Magnetospheric Multiscale Dayside Reconnection Electron Diffusion Region Events. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4858-4878	2.6	60
29	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
28	Ion Kinetics in a Hot Flow Anomaly: MMS Observations. <i>Geophysical Research Letters</i> , 2018 , 45, 11,520	4.9	18
27	Electron Bulk Acceleration and Thermalization at Earth's Quasiperpendicular Bow Shock. <i>Physical Review Letters</i> , 2018 , 120, 225101	7.4	29
26	Magnetospheric Multiscale Observations of Electron Vortex Magnetic Hole in the Turbulent Magnetosheath Plasma. <i>Astrophysical Journal Letters</i> , 2017 , 836, L27	7.9	63
25	Electron Heating at Kinetic Scales in Magnetosheath Turbulence. <i>Astrophysical Journal</i> , 2017 , 836, 247	4.7	40
24	The nonlinear behavior of whistler waves at the reconnecting dayside magnetopause as observed by the Magnetospheric Multiscale mission: A case study. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 5487-5501	2.6	20
23	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

22	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
21	Lower Hybrid Drift Waves and Electromagnetic Electron Space-Phase Holes Associated With Dipolarization Fronts and Field-Aligned Currents Observed by the Magnetospheric Multiscale Mission During a Substorm. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 12,236-12,257	2.6	24
20	Magnetospheric Multiscale analysis of intense field-aligned Poynting flux near the Earth's plasma sheet boundary. <i>Geophysical Research Letters</i> , 2017 , 44, 7106-7113	4.9	14
19	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
18	MMS observations of ion-scale magnetic island in the magnetosheath turbulent plasma. <i>Geophysical Research Letters</i> , 2016 , 43, 7850-7858	4.9	41
17	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
16	Magnetospheric Multiscale observations of magnetic reconnection associated with Kelvin-Helmholtz waves. <i>Geophysical Research Letters</i> , 2016 , 43, 5606-5615	4.9	84
15	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
14	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
13	Magnetospheric Multiscale Satellites Observations of Parallel Electric Fields Associated with Magnetic Reconnection. <i>Physical Review Letters</i> , 2016 , 116, 235102	7.4	50
12	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
11	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
10	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
9	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
8	The Axial Double Probe and Fields Signal Processing for the MMS Mission. <i>Space Science Reviews</i> , 2016 , 199, 167-188	7.5	385
7	The Axial Double Probe and Fields Signal Processing for the MMS Mission 2016 , 199, 167		1
6	Electron jet of asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016 , 43, 5571-5580	4.9	59
5	Electron-scale measurements of magnetic reconnection in space. <i>Science</i> , 2016 , 352, aaf2939	33.3	418

4	Observations of large-amplitude, parallel, electrostatic waves associated with the Kelvin-Helmholtz instability by the magnetospheric multiscale mission. <i>Geophysical Research Letters</i> , 2016 , 43, 8859-8866	4.9	18
3	Magnetospheric ion influence on magnetic reconnection at the duskside magnetopause. <i>Geophysical Research Letters</i> , 2016 , 43, 1435-1442	4.9	36
2	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
1	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