

# M O Fillingim

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

1,165  
citations

393982

19  
h-index

476904

29  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1344  
citing authors

#	ARTICLE	IF	CITATIONS
1	Initial results from the InSight mission on Mars. <i>Nature Geoscience</i> , 2020, 13, 183-189.	5.4	274
2	Nightside ionosphere of Mars: Modeling the effects of crustal magnetic fields and electron pitch angle distributions on electron impact ionization. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	88
3	Response of the magnetotail to changes in the open flux content of the magnetosphere. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	83
4	Crustal and time-varying magnetic fields at the InSight landing site on Mars. <i>Nature Geoscience</i> , 2020, 13, 199-204.	5.4	68
5	Three-dimensional structure of the Martian nightside ionosphere: Predicted rates of impact ionization from Mars Global Surveyor magnetometer and electron reflectometer measurements of precipitating electrons. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	65
6	Observations and model predictions of substorm auroral asymmetries in the conjugate hemispheres. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	62
7	Current sheets at low altitudes in the Martian magnetotail. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	56
8	Deep nightside photoelectron observations by MAVEN SWEA: Implications for Martian northern hemispheric magnetic topology and nightside ionosphere source. <i>Geophysical Research Letters</i> , 2016, 43, 8876-8884.	1.5	54
9	Flow bouncing and electron injection observed by Cluster. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 2055-2072.	0.8	38
10	Time development of field-aligned currents, potential drops, and plasma associated with an auroral poleward boundary intensification. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	36
11	Using Magnetic Topology to Probe the Sources of Mars' Nightside Ionosphere. <i>Geophysical Research Letters</i> , 2018, 45, 12,190.	1.5	36
12	Kinetic Characterization of Plasma Sheet Dynamics. <i>Space Science Reviews</i> , 2001, 95, 237-255.	3.7	35
13	Electrodynamics of the Martian dynamo region near magnetic cusps and loops. <i>Geophysical Research Letters</i> , 2014, 41, 1119-1125.	1.5	26
14	Inverted- $\nabla$ Electron Acceleration Events Concurring With Localized Auroral Observations at Mars by MAVEN. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087414.	1.5	26
15	Coincident POLAR/UVI and WIND observations of pseudobreakups. <i>Geophysical Research Letters</i> , 2000, 27, 1379-1382.	1.5	24
16	Hemispheric asymmetry of the afternoon electron aurora. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	23
17	On wind-driven electrojets at magnetic cusps in the nightside ionosphere of Mars. <i>Earth, Planets and Space</i> , 2012, 64, 93-103.	0.9	23
18	Three-dimensional multifluid modeling of atmospheric electrodynamics in Mars' dynamo region. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3647-3659.	0.8	21

#	ARTICLE	IF	CITATIONS
19	Modeling Wind-Driven Ionospheric Dynamo Currents at Mars: Expectations for InSight Magnetic Field Measurements. <i>Geophysical Research Letters</i> , 2019, 46, 5083-5091.	1.5	20
20	Evolution of Asymmetrically Displaced Footpoints During Substorms. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 10,030.	0.8	19
21	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
22	The "Alfvénic surge" at substorm onset/expansion and the formation of "Inverted Vs" Cluster and IMAGE observations. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 3978-4004.	0.8	14
23	Field-Aligned Electrostatic Potentials Above the Martian Exobase From MGS Electron Reflectometry: Structure and Variability. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 67-92.	1.5	14
24	Comparison of plasma sheet dynamics during pseudobreakups and expansive aurorae. <i>Physics of Plasmas</i> , 2001, 8, 1127.	0.7	12
25	Auroral signatures of the plasma injection and dipolarization in the inner magnetosphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	12
26	Behavior of the aurora during 10-12 May, 1999 when the solar wind nearly disappeared. <i>Geophysical Research Letters</i> , 2000, 27, 4033-4036.	1.5	5
27	Space Weather Observations With InSight. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095432.	1.5	5
28	Auroral precipitating energy during long magnetic storms. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6007-6021.	0.8	3
29	Energetics and Alfvénic Coupling of a Poleward Boundary Intensification: A Polar Case Study. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028041.	0.8	0