J R Gruesbeck

List of Publications by Year
in descending order

43	1,191	471477	377849
papers	citations	17 h-index	34 g-index

46	46	46	1280
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Loss of the Martian atmosphere to space: Present-day loss rates determined from MAVEN observations and integrated loss through time. Icarus, 2018, 315, 146-157.	2.5	216
2	First results of the <scp>MAVEN</scp> magnetic field investigation. Geophysical Research Letters, 2015, 42, 8819-8827.	4.0	102
3	MAVEN observations of the solar cycle 24 space weather conditions at Mars. Journal of Geophysical Research: Space Physics, 2017, 122, 2768-2794.	2.4	78
4	CONSTRAINTS ON CORONAL MASS EJECTION EVOLUTION FROM IN SITU OBSERVATIONS OF IONIC CHARGE STATES. Astrophysical Journal, 2011, 730, 103.	4.5	69
5	CARBON IONIZATION STAGES AS A DIAGNOSTIC OF THE SOLAR WIND. Astrophysical Journal, 2012, 744, 100.	4.5	66
6	The Twisted Configuration of the Martian Magnetotail: MAVEN Observations. Geophysical Research Letters, 2018, 45, 4559-4568.	4.0	66
7	A GLOBAL TWO-TEMPERATURE CORONA AND INNER HELIOSPHERE MODEL: A COMPREHENSIVE VALIDATION STUDY. Astrophysical Journal, 2012, 745, 6.	4.5	55
8	Magnetotail dynamics at Mars: Initial MAVEN observations. Geophysical Research Letters, 2015, 42, 8828-8837.	4.0	52
9	Statistical Study of Relations Between the Induced Magnetosphere, Ion Composition, and Pressure Balance Boundaries Around Mars Based On MAVEN Observations. Journal of Geophysical Research: Space Physics, 2017, 122, 9723-9737.	2.4	44
10	Martian magnetic storms. Journal of Geophysical Research: Space Physics, 2017, 122, 6185-6209.	2.4	40
11	The Threeâ€Dimensional Bow Shock of Mars as Observed by MAVEN. Journal of Geophysical Research: Space Physics, 2018, 123, 4542-4555.	2.4	40
12	MAVEN observations of tail current sheet flapping at Mars. Journal of Geophysical Research: Space Physics, 2017, 122, 4308-4324.	2.4	37
13	NEW SOLAR WIND DIAGNOSTIC USING BOTH IN SITU AND SPECTROSCOPIC MEASUREMENTS. Astrophysical Journal, 2012, 750, 159.	4.5	34
14	TWO-PLASMA MODEL FOR LOW CHARGE STATE INTERPLANETARY CORONAL MASS EJECTION OBSERVATIONS. Astrophysical Journal, 2012, 760, 141.	4.5	32
15	A Merged Searchâ€Coil and Fluxgate Magnetometer Data Product for Parker Solar Probe FIELDS. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027813.	2.4	31
16	Autocorrelation Study of Solar Wind Plasma and IMF Properties as Measured by the MAVEN Spacecraft. Journal of Geophysical Research: Space Physics, 2018, 123, 2493-2512.	2.4	26
17	Sources of Solar Wind at Solar Minimum: Constraints from Composition Data. Space Science Reviews, 2012, 172, 41-55.	8.1	20
18	Recovery Timescales of the Dayside Martian Magnetosphere to IMF Variability. Geophysical Research Letters, 2019, 46, 10977-10986.	4.0	15

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19	CHARGE STATE EVOLUTION IN THE SOLAR WIND. RADIATIVE LOSSES IN FAST SOLAR WIND PLASMAS. Astrophysical Journal Letters, 2012, 758, L21.	8.3	14
20	The Drivers of the Martian Bow Shock Location: A Statistical Analysis of Mars Atmosphere and Volatile EvolutioN and Mars Express Observations. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	14
21	A Statistical Investigation of Factors Influencing the Magnetotail Twist at Mars. Geophysical Research Letters, 2022, 49, .	4.0	14
22	Variability of Upstream Proton Cyclotron Wave Properties and Occurrence at Mars Observed by MAVEN. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028616.	2.4	13
23	Kineticâ€Scale Turbulence in the Venusian Magnetosheath. Geophysical Research Letters, 2021, 48, e2020GL090783.	4.0	11
24	The Modulation of Solar Wind Hydrogen Deposition in the Martian Atmosphere by Foreshock Phenomena. Journal of Geophysical Research: Space Physics, 2019, 124, 7086-7097.	2.4	9
25	A magnetotelluric instrument for probing the interiors of Europa and other worlds. Advances in Space Research, 2021, 68, 2022-2037.	2.6	9
26	On the Growth and Development of Nonâ€Linear Kelvinâ€“Helmholtz Instability at Mars: MAVEN Observations. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029224.	2.4	9
27	Variability of the Solar Wind Flow Asymmetry in the Martian Magnetosheath Observed by MAVEN. Geophysical Research Letters, 2020, 47, .	4.0	9
28	A comet engulfs Mars: MAVEN observations of comet Siding Spring's influence on the Martian magnetosphere. Geophysical Research Letters, 2015, 42, 8810-8818.	4.0	8
29	The interplanetary magnetic field observed by Juno enroute to Jupiter. Geophysical Research Letters, 2017, 44, 5936-5942.	4.0	7
30	MAVEN Case Studies of Plasma Dynamics in Lowâ€Altitude Crustal Magnetic Field at Mars 1: Dayside Ion Spikes Associated With Radial Crustal Magnetic Fields. Journal of Geophysical Research: Space Physics, 2019, 124, 1239-1261.	2.4	6
31	The Magnetic Structure of the Subsolar MPB Current Layer From MAVEN Observations: Implications for the Hall Electric Force. Geophysical Research Letters, 2020, 47, e2020GL089230.	4.0	6
32	Crossâ€Shock Electrostatic Potentials at Mars Inferred From MAVEN Measurements. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029064.	2.4	6
33	Observations of Energized Electrons in the Martian Magnetosheath. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028984.	2.4	6
34	A Fast Bow Shock Location Predictorâ€Estimator From 2D and 3D Analytical Models: Application to Mars and the MAVEN Mission. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	6
35	The Influence of Crustal Magnetic Fields on the Martian Bow Shock Location: A Statistical Analysis of MAVEN and Mars Express Observations. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	5
36	EVIDENCE FOR LOCAL ACCELERATION OF SUPRATHERMAL HEAVY ION OBSERVATIONS DURING INTERPLANETARY CORONAL MASS EJECTIONS. Astrophysical Journal, 2015, 799, 57.	4.5	4

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37	A Kâ€Means Clustering Analysis of the Jovian and Terrestrial Magnetopauses: A Technique to Classify Global Magnetospheric Behavior. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006366.	3.6	4
38	A Generalized Magnetospheric Disturbance Index: Initial Application to Mars Using MAVEN Observations. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029479.	2.4	2
39	Plasma Waves in the Distant Martian Environment: Implications for Mars' Sphere of Influence. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029686.	2.4	2
40	A Twoâ€Spacecraft Study of Mars' Induced Magnetosphere's Response to Upstream Conditions. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	2
41	The in-situ manifestation of solar prominence material. Proceedings of the International Astronomical Union, 2013, 8, 289-296.	0.0	1
42	Properties of Electron Distributions in the Martian Space Environment. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	1
43	Sources of Solar Wind at Solar Minimum: Constraints from Composition Data. Space Sciences Series of ISSI, 2012, , 41-55.	0.0	0