

# William E McClintock

## List of Publications by Year in descending order

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118  
papers

5,853  
citations

57758

44  
h-index

82547

72  
g-index

130  
all docs

130  
docs citations

130  
times ranked

3373  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Mars Atmosphere and Volatile Evolution (MAVEN) Mission. <i>Space Science Reviews</i> , 2015, 195, 3-48.	8.1	563
2	The Cassini Ultraviolet Imaging Spectrograph Investigation. <i>Space Science Reviews</i> , 2004, 115, 299-361.	8.1	210
3	Solar Irradiance Reference Spectra (SIRS) for the 2008 Whole Heliosphere Interval (WHI). <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	171
4	Solar irradiance variability during the October 2003 solar storm period. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	166
5	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. <i>Science</i> , 2015, 350, aad0210.	12.6	166
6	Solarâ€™Stellar Irradiance Comparison Experiment II (Solstice II): Instrument Concept and Design. <i>Solar Physics</i> , 2005, 230, 225-258.	2.5	150
7	The Imaging Ultraviolet Spectrograph (IUVS) for the MAVEN Mission. <i>Space Science Reviews</i> , 2015, 195, 75-124.	8.1	139
8	The Mercury Atmospheric and Surface Composition Spectrometer for the MESSENGER Mission. <i>Space Science Reviews</i> , 2007, 131, 481-521.	8.1	128
9	Mercuryâ€™s Weather-Beaten Surface: Understanding Mercury in the Context of Lunar and Asteroidal Space Weathering Studies. <i>Space Science Reviews</i> , 2014, 181, 121-214.	8.1	108
10	The Global-Scale Observations of the Limb and Disk (GOLD) Mission. <i>Space Science Reviews</i> , 2017, 212, 383-408.	8.1	105
11	Discovery of diffuse aurora on Mars. <i>Science</i> , 2015, 350, aad0313.	12.6	98
12	The structure and variability of Mars upper atmosphere as seen in MAVEN/IUVS dayglow observations. <i>Geophysical Research Letters</i> , 2015, 42, 9023-9030.	4.0	95
13	Spectroscopic Observations of Mercury's Surface Reflectance During MESSENGER's First Mercury Flyby. <i>Science</i> , 2008, 321, 62-65.	12.6	94
14	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. <i>Science</i> , 2015, 350, aad0459.	12.6	90
15	Simple ultraviolet calibration source with reference spectra and its use with the Galileo orbiter ultraviolet spectrometer. <i>Applied Optics</i> , 1988, 27, 890.	2.1	84
16	MESSENGER Observations of Mercuryâ€™s Exosphere: Detection of Magnesium and Distribution of Constituents. <i>Science</i> , 2009, 324, 610-613.	12.6	83
17	The low-iron, reduced surface of Mercury as seen in spectral reflectance by MESSENGER. <i>Icarus</i> , 2014, 228, 364-374.	2.5	82
18	Initial Observations by the GOLD Mission. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027823.	2.4	80

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19	Global inventory and characterization of pyroclastic deposits on Mercury: New insights into pyroclastic activity from MESSENGER orbital data. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 635-658.	3.6	79
20	Mercury's Exosphere: Observations During MESSENGER's First Mercury Flyby. <i>Science</i> , 2008, 321, 92-94.	12.6	77
21	The SORCE SIM Solar Spectrum: Comparison with Recent Observations. <i>Solar Physics</i> , 2010, 263, 3-24.	2.5	77
22	MAVEN IUVS observation of the hot oxygen corona at Mars. <i>Geophysical Research Letters</i> , 2015, 42, 9009-9014.	4.0	77
23	Galileo ultraviolet spectrometer observations of atomic hydrogen in the atmosphere of Ganymede. <i>Geophysical Research Letters</i> , 1997, 24, 2147-2150.	4.0	76
24	Global Scale Observations of the Equatorial Ionization Anomaly. <i>Geophysical Research Letters</i> , 2019, 46, 9318-9326.	4.0	76
25	Mercury's seasonal sodium exosphere: MESSENGER orbital observations. <i>Icarus</i> , 2015, 248, 547-559.	2.5	74
26	Solar's Stellar Irradiance Comparison Experiment II (SOLSTICE II): Pre-Launch and On-Orbit Calibrations. <i>Solar Physics</i> , 2005, 230, 259-294.	2.5	73
27	Mercury's Complex Exosphere: Results from MESSENGER's Third Flyby. <i>Science</i> , 2010, 329, 672-675.	12.6	70
28	Titan airglow spectra from Cassini Ultraviolet Imaging Spectrograph (UVIS): EUV analysis. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	69
29	Solar's Stellar Irradiance Comparison Experiment II (Solstice II): Examination of the Solar's Stellar Comparison Technique. <i>Solar Physics</i> , 2005, 230, 295-324.	2.5	68
30	Three-dimensional structure in the Mars H corona revealed by IUVS on MAVEN. <i>Geophysical Research Letters</i> , 2015, 42, 9001-9008.	4.0	67
31	Variability of D and H in the Martian upper atmosphere observed with the MAVEN IUVS echelle channel. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2336-2344.	2.4	64
32	Titan airglow spectra from the Cassini Ultraviolet Imaging Spectrograph: FUV disk analysis. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	62
33	Seasonal variations in Mercury's dayside calcium exosphere. <i>Icarus</i> , 2014, 238, 51-58.	2.5	60
34	The Two-Dimensional Evolution of Thermospheric $\text{O}^+/\text{N}^{2+}$ Response to Weak Geomagnetic Activity During Solar Minimum Observed by GOLD. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088838.	4.0	59
35	MAVEN IUVS observations of the aftermath of the Comet Siding Spring meteor shower on Mars. <i>Geophysical Research Letters</i> , 2015, 42, 4755-4761.	4.0	56
36	The Mg II Index from SORCE. <i>Solar Physics</i> , 2005, 230, 325-344.	2.5	54

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37	Detection of a persistent meteoric metal layer in the Martian atmosphere. <i>Nature Geoscience</i> , 2017, 10, 401-404.	12.9	52
38	Monte Carlo modeling of sodium in Mercury's exosphere during the first two MESSENGER flybys. <i>Icarus</i> , 2010, 209, 63-74.	2.5	51
39	Discovery of a proton aurora at Mars. <i>Nature Astronomy</i> , 2018, 2, 802-807.	10.1	50
40	The production of Titan's ultraviolet nitrogen airglow. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	49
41	Simultaneous observations of atmospheric tides from combined in situ and remote observations at Mars from the MAVEN spacecraft. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 594-607.	3.6	48
42	Mercury's Atmosphere: A Surface-Bounded Exosphere. <i>Space Science Reviews</i> , 2007, 131, 161-186.	8.1	47
43	SORCE solar UV irradiance results. <i>Advances in Space Research</i> , 2006, 37, 201-208.	2.6	46
44	Solar wind forcing at Mercury: WSA-ENLIL model results. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 45-57.	2.4	46
45	Investigation of a Neutral "Tongue" Observed by GOLD During the Geomagnetic Storm on May 11, 2019. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028817.	2.4	46
46	Global Aurora on Mars During the September 2017 Space Weather Event. <i>Geophysical Research Letters</i> , 2018, 45, 7391-7398.	4.0	44
47	Nonmigrating tides in the Martian atmosphere as observed by MAVEN IUVS. <i>Geophysical Research Letters</i> , 2015, 42, 9057-9063.	4.0	43
48	Retrieval of CO <sub>2</sub> and N <sub>2</sub> in the Martian thermosphere using dayglow observations by IUVS on MAVEN. <i>Geophysical Research Letters</i> , 2015, 42, 9040-9049.	4.0	43
49	Radiation transport of heliospheric Lyman- $\alpha$ from combined Cassini and Voyager data sets. <i>Astronomy and Astrophysics</i> , 2008, 491, 21-28.	5.1	42
50	Probing the Martian atmosphere with MAVEN/IUVS stellar occultations. <i>Geophysical Research Letters</i> , 2015, 42, 9064-9070.	4.0	42
51	Mars H Escape Rates Derived From MAVEN/IUVS Lyman Alpha Brightness Measurements and Their Dependence on Model Assumptions. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 2192-2210.	3.6	42
52	New observations of molecular nitrogen in the Martian upper atmosphere by IUVS on MAVEN. <i>Geophysical Research Letters</i> , 2015, 42, 9050-9056.	4.0	41
53	Venus Upper Clouds and the UV Absorber From MESSENGER/MASCS Observations. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 145-162.	3.6	41
54	Variations in Thermosphere Composition and Ionosphere Total Electron Content Under "Geomagnetically Quiet" Conditions at Solar Minimum. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093300.	4.0	40

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55	Martian water loss to space enhanced by regional dust storms. <i>Nature Astronomy</i> , 2021, 5, 1036-1042.	10.1	40
56	Seasonal variations of Mercury's magnesium dayside exosphere from MESSENGER observations. <i>Icarus</i> , 2017, 281, 46-54.	2.5	38
57	Limits to Mercury's magnesium exosphere from MESSENGER second flyby observations. <i>Planetary and Space Science</i> , 2011, 59, 1992-2003.	1.7	36
58	Nitric oxide nightglow and Martian mesospheric circulation from MAVEN/IUVS observations and LMD-MGCM predictions. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5782-5797.	2.4	36
59	A comparison of 3D model predictions of Mars' oxygen corona with early MAVEN IUVS observations. <i>Geophysical Research Letters</i> , 2015, 42, 9015-9022.	4.0	35
60	Comparison of GOLD Nighttime Measurements With Total Electron Content: Preliminary Results. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027767.	2.4	35
61	Comparison of the Martian thermospheric density and temperature from IUVS/MAVEN data and general circulation modeling. <i>Geophysical Research Letters</i> , 2016, 43, 3095-3104.	4.0	34
62	Neutral density response to solar flares at Mars. <i>Geophysical Research Letters</i> , 2015, 42, 8986-8992.	4.0	33
63	First Zonal Drift Velocity Measurement of Equatorial Plasma Bubbles (EPBs) From a Geostationary Orbit Using GOLD Data. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028173.	2.4	33
64	Constraints on Mercury's Na exosphere: Combined MESSENGER and ground-based data. <i>Icarus</i> , 2011, 211, 21-36.	2.5	32
65	A cold-pole enhancement in Mercury's sodium exosphere. <i>Geophysical Research Letters</i> , 2016, 43, 12111-11128.	4.0	32
66	The Geology of Mercury: The View Prior to the MESSENGER Mission. <i>Space Science Reviews</i> , 2007, 131, 41-84.	8.1	31
67	Observations of metallic species in Mercury's exosphere. <i>Icarus</i> , 2010, 209, 75-87.	2.5	31
68	Latitude variations in interplanetary Lyman- $\alpha$ data from the Galileo EUVS modeled with solar He 1083 nm images. <i>Geophysical Research Letters</i> , 1996, 23, 1893-1896.	4.0	30
69	Electron transport and precipitation at Mercury during the MESSENGER flybys: Implications for electron-stimulated desorption. <i>Planetary and Space Science</i> , 2011, 59, 2026-2036.	1.7	30
70	Significant Space Weather Impact on the Escape of Hydrogen From Mars. <i>Geophysical Research Letters</i> , 2018, 45, 8844-8852.	4.0	29
71	Cassini UVIS observations of Titan nightglow spectra. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	28
72	Modeling MESSENGER observations of calcium in Mercury's exosphere. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	28

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73	Observation of Postsunset OI 135.6Ånm Radiance Enhancement Over South America by the GOLD Mission. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028108.	2.4	28
74	A comparison of the ultraviolet to near-infrared spectral properties of Mercury and the Moon as observed by MESSENGER. Icarus, 2010, 209, 179-194.	2.5	26
75	New discoveries from MESSENGER and insights into Mercury's exosphere. Geophysical Research Letters, 2016, 43, 11,545.	4.0	26
76	Globalâ€Scale Observations of the Limb and Disk Mission Implementation: 2. Observations, Data Pipeline, and Level 1 Data Products. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027809.	2.4	26
77	Thermospheric Composition and Solar EUV Flux From the Globalâ€Scale Observations of the Limb and Disk (GOLD) Mission. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029517.	2.4	26
78	Martian Thermospheric Response to an X8.2 Solar Flare on 10 September 2017 as Seen by MAVEN/IUVS. Geophysical Research Letters, 2018, 45, 7312-7319.	4.0	24
79	Atmospheric Tides at High Latitudes in the Martian Upper Atmosphere Observed by MAVEN and MRO. Journal of Geophysical Research: Space Physics, 2019, 124, 2943-2953.	2.4	24
80	New Observations of Largeâ€Scale Waves Coupling With the Ionosphere Made by the GOLD Mission: Quasiâ€1.6â€Day Wave Signatures in the Fâ€Region OI 135.6â€nm Nightglow During Sudden Stratospheric Warmings. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027880.	2.4	24
81	Martian mesospheric cloud observations by IUVS on MAVEN: Thermal tides coupled to the upper atmosphere. Geophysical Research Letters, 2017, 44, 4709-4715.	4.0	23
82	A New Catalog of Ultraviolet Stellar Spectra for Calibration. , 2013, , 191-226.		23
83	Evidence Connecting Mercury's Magnesium Exosphere to Its Magnesiumâ€Rich Surface Terrane. Geophysical Research Letters, 2018, 45, 6790-6797.	4.0	21
84	Response of GOLD Retrieved Thermospheric Temperatures to Geomagnetic Activities of Varying Magnitudes. Geophysical Research Letters, 2021, 48, e2021GL093905.	4.0	18
85	First Globalâ€Scale Synoptic Imaging of Solar Eclipse Effects in the Thermosphere. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027789.	2.4	17
86	Direct observations of the comet Shoemaker-Levy 9 fragment G impact by Galileo UVS. Geophysical Research Letters, 1995, 22, 1565-1568.	4.0	16
87	Emission cross section of O I (135.6 nm) at 100 eV resulting from electron-impact dissociative excitation of O2. Geophysical Research Letters, 2001, 28, 1379-1382.	4.0	16
88	Improving solar wind modeling at Mercury: Incorporating transient solar phenomena into the WSAâ€ENLIL model with the Cone extension. Journal of Geophysical Research: Space Physics, 2015, 120, 5667-5685.	2.4	16
89	IUVS echelleâ€mode observations of interplanetary hydrogen: Standard for calibration and reference for cavity variations between Earth and Mars during MAVEN cruise. Journal of Geophysical Research: Space Physics, 2017, 122, 2089-2105.	2.4	16
90	Globalâ€Scale Observations and Modeling of Farâ€Ultraviolet Airglow During Twilight. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027645.	2.4	16

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91	Early Morning Equatorial Ionization Anomaly From GOLD Observations. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027487.	2.4	15
92	First Synoptic Observations of Geomagnetic Storm Effects on the Global-Scale OI 135.6-nm Dayglow in the Thermosphere by the GOLD Mission. Geophysical Research Letters, 2020, 47, e2019GL085400.	4.0	14
93	Global-Scale Observations of the Limb and Disk Mission Implementation: 1. Instrument Design and Early Flight Performance. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027797.	2.4	14
94	The UV Spectrum of the Lyman- $\beta$ Hopfield Band System of $N_2$ Induced by Cascading from Electron Impact. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027546.	2.4	13
95	UV Study of the Fourth Positive Band System of CO and O $<sc>i</sc>$ 135.6-nm From Electron Impact on CO and CO $<sub>2</sub>$ . Journal of Geophysical Research: Space Physics, 2019, 124, 2954-2977.	2.4	12
96	Impact of GOLD Retrieved Thermospheric Temperatures on a Whole Atmosphere Data Assimilation Model. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028646.	2.4	12
97	Ultraviolet observations of the hydrogen coma of comet C/2013 A1 (Siding Spring) by MAVEN/ILUVS. Geophysical Research Letters, 2015, 42, 8803-8809.	4.0	11
98	Neutral Exospheric Temperatures From the GOLD Mission. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027814.	2.4	11
99	SOLar-STellar Irradiance Comparison Experiment II (SOLSTICE II): End-of-Mission Validation of the SOLSTICE Technique. Solar Physics, 2022, 297, 1.	2.5	9
100	Global-Scale Observations of the Limb and Disk (Gold): New Observing Capabilities for the Ionosphere-Thermosphere. Geophysical Monograph Series, 0, , 319-326.	0.1	8
101	Observation of Thermospheric Gravity Waves in the Southern Hemisphere With GOLD. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027405.	2.4	8
102	A New Data Set of Thermospheric Molecular Oxygen From the Global-Scale Observations of the Limb and Disk (GOLD) Mission. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027812.	2.4	8
103	Electron impact study of the 100-eV emission cross section and lifetime of the Lyman- $\beta$ Hopfield band system of $N_2$ : Direct excitation and cascade. Journal of Geophysical Research: Space Physics, 2017, 122, 6776-6790.	2.4	7
104	Laboratory Study of the Cameron Bands, the First Negative Bands, and Fourth Positive Bands in the Middle Ultraviolet 180-280-nm by Electron Impact Upon CO. Journal of Geophysical Research E: Planets, 2021, 126, .	3.6	7
105	EUVS-C: the measurement of the magnesium II index for GOES-R EXIS. , 2009, , .		6
106	Hydrogen atoms in the inner heliosphere: SWAN-SOHO and MASCS-MESSENGER observations. Journal of Geophysical Research: Space Physics, 2014, 119, 8017-8029.	2.4	6
107	First Comparison of Traveling Atmospheric Disturbances Observed in the Middle Thermosphere by Global-Scale Observations of the Limb and Disk to Traveling Ionospheric Disturbances Seen in Ground-Based Total Electron Content Observations. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029248.	2.4	6
108	Lyman- $\beta$ Models for LRO LAMP from MESSENGER MASCS and SOHO SWAN Data. , 2013, , 163-175.		6

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109	Observations of Mercury's Exosphere: Composition and Structure. , 2018, , 371-406.		5
110	GOES-R Series Solar X-ray and Ultraviolet Irradiance. , 2020, , 233-242.		5
111	Improving the Thermosphere Ionosphere in a Whole Atmosphere Model by Assimilating GOLD Disk Temperatures. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	5
112	High time cadence solar Magnesium II index monitor. , 2005, 5901, 354.		4
113	Daily Variability in the Terrestrial UV Airglow. Atmosphere, 2020, 11, 1046.	2.3	4
114	Ultraviolet Solar Spectral Irradiance Variation on Solar Cycle Timescales. Proceedings of the International Astronomical Union, 2018, 13, 203-208.	0.0	3
115	Variations of Lower Thermospheric FUV Emissions Based on GOLD Observations and GLOW Modeling. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027810.	2.4	3
116	Visible to near-infrared hyperspectral measurements of mercury: Challenges for deciphering surface mineralogy. , 2014, , .		2
117	Magnesium II Index measurements from SORCE SOLSTICE and GOES-16 EUVS. Proceedings of the International Astronomical Union, 2018, 13, 167-168.	0.0	1
118	Sounding Rocket Observation of Nitric Oxide in the Polar Night. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	1