

# Benoit Hubert

## List of Publications by Year in descending order

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66  
papers

2,085  
citations

218677

26  
h-index

243625

44  
g-index

71  
all docs

71  
docs citations

71  
times ranked

1436  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic flux transport in the Dungey cycle: A survey of dayside and nightside reconnection rates. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	165
2	The Ionospheric Connection Explorer Mission: Mission Goals and Design. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	152
3	Relationship between interplanetary parameters and the magnetopause reconnection rate quantified from observations of the expanding polar cap. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	118
4	Proton aurora in the cusp. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 2-1.	3.3	115
5	Formation and motion of a transpolar arc in response to dayside and nightside reconnection. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	83
6	Influences on the radius of the auroral oval. <i>Annales Geophysicae</i> , 2009, 27, 2913-2924.	1.6	82
7	Response of the expanding/contracting polar cap to weak and strong solar wind driving: Implications for substorm onset. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	74
8	A superposed epoch analysis of auroral evolution during substorm growth, onset and recovery: open magnetic flux control of substorm intensity. <i>Annales Geophysicae</i> , 2009, 27, 659-668.	1.6	72
9	Dayside and nightside reconnection rates inferred from IMAGE FUV and Super Dual Auroral Radar Network data. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	71
10	A model of the Lyman- $\alpha$ line profile in the proton aurora. <i>Journal of Geophysical Research</i> , 2000, 105, 15795-15805.	3.3	65
11	The auroral and ionospheric flow signatures of dual lobe reconnection. <i>Annales Geophysicae</i> , 2006, 24, 3115-3129.	1.6	59
12	Observation of the proton aurora with IMAGE FUV imager and simultaneous ion flux in situ measurements. <i>Journal of Geophysical Research</i> , 2001, 106, 28939-28948.	3.3	58
13	Propagation of electron and proton shock-induced aurora and the role of the interplanetary magnetic field and solar wind. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	51
14	On the use of IMAGE FUV for estimating the latitude of the open/closed magnetic field line boundary in the ionosphere. <i>Annales Geophysicae</i> , 2008, 26, 2759-2769.	1.6	48
15	Total electron and proton energy input during auroral substorms: Remote sensing with IMAGE-FUV. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 15-1-SMP 15-12.	3.3	40
16	Compression of the Earth's magnetotail by interplanetary shocks directly drives transient magnetic flux closure. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	4.0	40
17	A statistical study of the open magnetic flux content of the magnetosphere at the time of substorm onset. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	37
18	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

#	ARTICLE	IF	CITATIONS
19	The role of proton precipitation in the excitation of auroral FUV emissions. <i>Journal of Geophysical Research</i> , 2001, 106, 21475-21494.	3.3	35
20	Dynamics of global scale electron and proton precipitation induced by a solar wind pressure pulse. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	35
21	Electron and proton excitation of the FUV aurora: Simultaneous IMAGE and NOAA observations. <i>Journal of Geophysical Research</i> , 2002, 107, SIA 5-1.	3.3	32
22	Observations of the Proton Aurora on Mars With SPICAM on Board Mars Express. <i>Geophysical Research Letters</i> , 2018, 45, 612-619.	4.0	32
23	Solar wind control of auroral substorm onset locations observed with the IMAGE-FUV imagers. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	30
24	A superposed epoch analysis of auroral evolution during substorms: Local time of onset region. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	30
25	Mars thermospheric scale height: CO Cameron and CO <sub>2</sub> + dayglow observations from Mars Express. <i>Icarus</i> , 2015, 245, 295-305.	2.5	29
26	The Venus ultraviolet oxygen dayglow and aurora: Model comparison with observations. <i>Planetary and Space Science</i> , 2008, 56, 542-552.	1.7	26
27	Observations of significant flux closure by dual lobe reconnection. <i>Annales Geophysicae</i> , 2007, 25, 1617-1627.	1.6	24
28	Average auroral configuration parameterized by geomagnetic activity and solar wind conditions. <i>Annales Geophysicae</i> , 2010, 28, 1003-1012.	1.6	23
29	Mars ultraviolet dayglow variability: SPICAM observations and comparison with airglow model. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	23
30	What controls the local time extent of flux transfer events?. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1391-1401.	2.4	21
31	Dual-Lobe Reconnection and Horse-Collar Auroras. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028567.	2.4	21
32	Comparison of the open-closed field line boundary location inferred using IMAGE-FUV SI12 images and EISCAT radar observations. <i>Annales Geophysicae</i> , 2010, 28, 883-892.	1.6	20
33	Comparative study of large-scale auroral signatures of substorms, steady magnetospheric convection events, and sawtooth events. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6357-6373.	2.4	19
34	Transpolar arcs observed simultaneously in both hemispheres. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 6107-6120.	2.4	19
35	MAVEN-UVS Observations of the CO <sub>2</sub> UV Doublet and CO Cameron Bands in the Martian Thermosphere: Aeronomy, Seasonal, and Latitudinal Distribution. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5816-5827.	2.4	18
36	Influence of the crustal magnetic field on the Mars aurora electron flux and UV brightness. <i>Icarus</i> , 2017, 282, 127-135.	2.5	17

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37	Lyman- $\alpha$ emission in the Martian proton aurora: Line profile and role of horizontal induced magnetic field. <i>Icarus</i> , 2019, 321, 266-271.	2.5	17
38	A superposed epoch investigation of the relation between magnetospheric solar wind driving and substorm dynamics with geosynchronous particle injection signatures. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	16
39	Monte Carlo Simulations of the Interaction of Fast Proton and Hydrogen Atoms With the Martian Atmosphere and Comparison With In Situ Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 5850-5861.	2.4	15
40	Open magnetic flux and magnetic flux closure during sawtooth events. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	14
41	Statistical properties of flux closure induced by solar wind dynamic pressure fronts. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	14
42	The O( <sup>1</sup> S) 297.2-nm Dayglow Emission: A Tracer of CO <sub>2</sub> Density Variations in the Martian Lower Thermosphere. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 3119-3132.	3.6	14
43	Detection of green line emission in the dayside atmosphere of Mars from NOMAD-TGO observations. <i>Nature Astronomy</i> , 2020, 4, 1049-1052.	10.1	13
44	Far ultraviolet remote sensing of the isotropy boundary and magnetotail stretching. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	12
45	Global morphology of substorm growth phases observed by the IMAGE- $\text{SI}12$ imager. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	12
46	Kinetic Monte Carlo Model for the Precipitation of High-Energy Protons and Hydrogen Atoms into the Atmosphere of Mars with Taking into Account the Measured Magnetic Field. <i>Astronomy Reports</i> , 2019, 63, 835-845.	0.9	12
47	Characteristics of Mars UV Dayglow Emissions From Atomic Oxygen at 130.4 and 135.6 nm: MAVEN/IUVS Limb Observations and Modeling. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4809-4832.	2.4	12
48	Discrete Aurora on Mars: Spectral Properties, Vertical Profiles, and Electron Energies. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029495.	2.4	12
49	Proton precipitation during transpolar auroral events: Observations with the IMAGE-FUV imagers. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	11
50	Airglow remote sensing of the seasonal variation of the Martian upper atmosphere: MAVEN limb observations and model comparison. <i>Icarus</i> , 2020, 341, 113666.	2.5	11
51	First ICON-FUV Nighttime NmF2 and hmF2 Comparison to Ground and Space-Based Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029360.	2.4	11
52	Flux closure during a substorm observed by Cluster, Double Star, IMAGE FUV, SuperDARN, and Greenland magnetometers. <i>Annales Geophysicae</i> , 2006, 24, 751-767.	1.6	8
53	First Observation of the Oxygen 630-nm Emission in the Martian Dayglow. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092334.	4.0	8
54	Auroral streamers and magnetic flux closure. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	7

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55	Magnetic reconnection during steady magnetospheric convection and other magnetospheric modes. <i>Annales Geophysicae</i> , 2017, 35, 505-524.	1.6	6
56	Examining Local Time Variations in the Gains and Losses of Open Magnetic Flux During Substorms. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027369.	2.4	6
57	Density and Temperature of the Upper Mesosphere and Lower Thermosphere of Mars Retrieved From the OI 557.7Ånm Dayglow Measured by TGO/NOMAD. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	6
58	Probing the Magnetic Structure of a Pair of Transpolar Arcs With a Solar Wind Pressure Step. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027196.	2.4	5
59	North-South Asymmetric Nightside Distorted Transpolar Arcs Within A Framework of Deformed Magnetosphere-Ionosphere Coupling: IMF $B_y$ Dependence, Ionospheric Currents, and Magnetotail Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, 2020JA027991.	2.4	4
60	Isobar Altitude Variations in the Upper Mesosphere Observed With IUVS MAVEN in Response to Martian Dust Storms. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087468.	4.0	4
61	Nonthermal radiative transfer of oxygen 98.9Ånm ultraviolet emission: Solving an old mystery. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 10,772.	2.4	3
62	Concurrent Observations Of Magnetic Reconnection From Cluster, IMAGE and SuperDARN: A Comparison Of Reconnection Rates And Energy Conversion. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027264.	2.4	3
63	Exploring solar-terrestrial interactions via multiple imaging observers. <i>Experimental Astronomy</i> , 0, , 1.	3.7	3
64	Changes in the Martian atmosphere induced by auroral electron precipitation. <i>Solar System Research</i> , 2017, 51, 362-372.	0.7	2
65	The OI 135.6Ånm Nighttime Emission in ICON FUV Images: A New Tool for the Observation of Classical Medium-Scale Traveling Ionospheric Disturbances?. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7670-7686.	2.4	2
66	The Mars Oxygen Visible Dayglow: A Martian Year of NOMAD/UVIS Observations. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	2