Michel Moncuquet

List of Publications by Year
in descending order

43 papers	2,651 citations	26 h-index	41 g-index
49 all docs	49 docs citations	49 times ranked	1452 citing authors

218677
276875

#	Article	IF	Citations
1	Weak line discovered by Voyager 1 in the interstellar medium: Quasi-thermal noise produced by very few fast electrons. Astronomy and Astrophysics, 2022, 658, L12.	5.1	5
2	Langmuir-Slow Extraordinary Mode Magnetic Signature Observations with Parker Solar Probe. Astrophysical Journal, 2022, 927, 95.	4.5	4
3	Source-dependent Properties of Two Slow Solar Wind States. Astrophysical Journal, 2021, 910, 63.	4.5	12
4	Parker Solar Probe Evidence for Scattering of Electrons in the Young Solar Wind by Narrowband Whistler-mode Waves. Astrophysical Journal Letters, 2021, 911, L29.	8.3	24
5	AlfvÃ©nic versus non-AlfvÃ©nic turbulence in the inner heliosphere as observed by Parker Solar Probe. Astronomy and Astrophysics, 2021, 650, A21.	5.1	29
6	The near-Sun streamer belt solar wind: turbulence and solar wind acceleration. Astronomy and Astrophysics, 2021, 650, L3.	5.1	26
7	Whistler wave occurrence and the interaction with strahl electrons during the first encounter of Parker Solar Probe. Astronomy and Astrophysics, 2021, 650, A9.	5.1	22
8	Narrowband oblique whistler-mode waves: comparing properties observed by Parker Solar Probe at <0.3 AU and STEREO at 1 AU. Astronomy and Astrophysics, 2021, 650, A8.	5.1	20
9	Enhanced proton parallel temperature inside patches of switchbacks in the inner heliosphere. Astronomy and Astrophysics, 2021, 650, L1.	5.1	43
10	Solar wind energy flux observations in the inner heliosphere: first results from Parker Solar Probe. Astronomy and Astrophysics, 2021, 650, A14.	5.1	12
11	<i>Parker Solar Probe</i> Enters the Magnetically Dominated Solar Corona. Physical Review Letters, 2021, 127, 255101.	7.8	104
12	Plasma Wave Investigation (PWI) Aboard BepiColombo Mio on the Trip to the First Measurement of Electric Fields, Electromagnetic Waves, and Radio Waves Around Mercury. Space Science Reviews, 2020, 216, 1.	8.1	20
13	First In Situ Measurements of Electron Density and Temperature from Quasi-thermal Noise Spectroscopy with Parker Solar Probe/FIELDS. Astrophysical Journal, Supplement Series, 2020, 246, 44.	7.7	106
14	The Evolution and Role of Solar Wind Turbulence in the Inner Heliosphere. Astrophysical Journal, Supplement Series, 2020, 246, 53.	7.7	166
15	Statistics and Polarization of Type III Radio Bursts Observed in the Inner Heliosphere. Astrophysical Journal, Supplement Series, 2020, 246, 49.	7.7	35
16	Localized Magnetic-field Structures and Their Boundaries in the Near-Sun Solar Wind from Parker Solar Probe Measurements. Astrophysical Journal, 2020, 893, 93.	4.5	44
17	Plasma Waves in Space: The Importance of Properly Accounting for the Measuring Device. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027723.	2.4	3
18	Anticorrelation between the Bulk Speed and the Electron Temperature in the Pristine Solar Wind: First Results from the <i>Parker Solar Probe</i> and Comparison with <i>Helios</i>. Astrophysical Journal, Supplement Series, 2020, 246, 62.	7.7	55

#	Article	IF	Citations
19	Highly structured slow solar wind emerging from an equatorial coronal hole. Nature, 2019, 576, 237-242.	27.8	401
20	Frequency range of dust detection in space with radio and plasma wave receivers: Theory and application to interplanetary nanodust impacts on Cassini. Journal of Geophysical Research: Space Physics, 2017, 122, 8-22.	2.4	34
21	The Solar Probe Plus Radio Frequency Spectrometer: Measurement requirements, analog design, and digital signal processing. Journal of Geophysical Research: Space Physics, 2017, 122, 2836-2854.	2.4	74
22	Quasiâ€thermal noise spectroscopy: The art and the practice. Journal of Geophysical Research: Space Physics, 2017, 122, 7925-7945.	2.4	67
23	The FIELDS Instrument Suite for Solar Probe Plus. Space Science Reviews, 2016, 204, 49-82.	8.1	521
24	NANODUST DETECTION BETWEEN 1 AND 5 AU USING<i>CASSINI</i>WAVE MEASUREMENTS. Astrophysical Journal, 2015, 806, 77.	4.5	14
25	The importance of monopole antennas for dust observations: Why Wind/WAVES does not detect nanodust. Geophysical Research Letters, 2014, 41, 2716-2720.	4.0	37
26	Core electron temperature and density in the innermost Saturn's magnetosphere from HF power spectra analysis on Cassini. Journal of Geophysical Research: Space Physics, 2013, 118, 7170-7180.	2.4	22
27	Quasi-thermal noise in space plasma: â€œkappaâ€•distributions. Physics of Plasmas, 2009, 16, .	1.9	54
28	A Short Review of Passive R. F. Electric Antennas as In Situ Detectors of Space Plasmas. , 2009, , .		6
29	Electron properties of highâ€speed solar wind from polar coronal holes obtained by Ulysses thermal noise spectroscopy: Not so dense, not so hot. Geophysical Research Letters, 2008, 35, .	4.0	33
30	The radio waves and thermal electrostatic noise spectroscopy (SORBET) experiment on BEPICOLOMBO/MMO/PWI: Scientific objectives and performance. Advances in Space Research, 2006, 38, 680-685.	2.6	25
31	Solar wind electron temperature and density measurements on the Solar Orbiter with thermal noise spectroscopy. Advances in Space Research, 2005, 36, 1471-1473.	2.6	10
32	Quasi thermal noise spectroscopy in the inner magnetosphere of Saturn with Cassini/RPWS: Electron temperatures and density. Geophysical Research Letters, 2005, 32, .	4.0	67
33	Quasi-Thermal Noise Diagnostics in Space Plasmas. Astrophysics and Space Science, 2001, 277, 309-311.	1.4	28
34	The Radio Plasma Imager investigation on the IMAGE spacecraft. Space Science Reviews, 2000, 91, 319-359.	8.1	140
35	High-speed solar wind from Ulysses measurements and comparison with exospheric models. , 1999, , .		7
36	Quasi-thermal noise in a drifting plasma: Theory and application to solar wind diagnostic on Ulysses. Journal of Geophysical Research, 1999, 104, 6691-6704.	3.3	53

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37	Solar wind radial and latitudinal structure: Electron density and core temperature from Ulysses thermal noise spectroscopy. Journal of Geophysical Research, 1998, 103, 1969-1979.	3.3	88
38	Measuring plasma parameters with thermal noise spectroscopy. Geophysical Monograph Series, 1998, , 205-210.	0.1	33
39	Detection of Bernstein wave forbidden bands in the Jovian magnetosphere: A new way to measure the electron density. Journal of Geophysical Research, 1997, 102, 2373-2379.	3.3	27
40	Solar wind electron parameters from quasi-thermal noise spectroscopy and comparison with other measurements on Ulysses. Journal of Geophysical Research, 1995, 100, 19881.	3.3	40
41	Dispersion of electrostatic waves in the Io plasma torus and derived electron temperature. Journal of Geophysical Research, 1995, 100, 21697-21708.	3.3	37
42	Bernstein waves in the Io plasma torus: A novel kind of electron temperature sensor. Journal of Geophysical Research, 1993, 98, 21163-21176.	3.3	82
43	Solar wind thermal electrons in the ecliptic plane between 1 and 4 AU: Preliminary results from the Ulysses radio receiver. Geophysical Research Letters, 1992, 19, 1295-1298.	4.0	21