Michel Moncuquet

List of Publications by Year
in descending order

43 papers	2,651 citations	218677 26 h-index	276875 41 g-index
49 all docs	49 docs citations	49 times ranked	1452 citing authors

#	Article	IF	Citations
1	The FIELDS Instrument Suite for Solar Probe Plus. Space Science Reviews, 2016, 204, 49-82.	8.1	521
2	Highly structured slow solar wind emerging from an equatorial coronal hole. Nature, 2019, 576, 237-242.	27.8	401
3	The Evolution and Role of Solar Wind Turbulence in the Inner Heliosphere. Astrophysical Journal, Supplement Series, 2020, 246, 53.	7.7	166
4	The Radio Plasma Imager investigation on the IMAGE spacecraft. Space Science Reviews, 2000, 91, 319-359.	8.1	140
5	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
6	<i>Parker Solar Probe</i> Enters the Magnetically Dominated Solar Corona. Physical Review Letters, 2021, 127, 255101.	7.8	104
7	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
8	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
9	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
10	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
11	Quasiâ€thermal noise spectroscopy: The art and the practice. Journal of Geophysical Research: Space Physics, 2017, 122, 7925-7945.	2.4	67
12	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
13	Quasi-thermal noise in space plasma: â€œkappaâ€•distributions. Physics of Plasmas, 2009, 16, .	1.9	54
14	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
15	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
16	Enhanced proton parallel temperature inside patches of switchbacks in the inner heliosphere. Astronomy and Astrophysics, 2021, 650, L1.	5.1	43
17	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
18	Dispersion of electrostatic waves in the Io plasma torus and derived electron temperature. Journal of Geophysical Research, 1995, 100, 21697-21708.	3.3	37

#	Article	IF	Citations
19	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
20	Statistics and Polarization of Type III Radio Bursts Observed in the Inner Heliosphere. Astrophysical Journal, Supplement Series, 2020, 246, 49.	7.7	35
21	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
22	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
23	Measuring plasma parameters with thermal noise spectroscopy. Geophysical Monograph Series, 1998, , 205-210.	0.1	33
24	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
25	Quasi-Thermal Noise Diagnostics in Space Plasmas. Astrophysics and Space Science, 2001, 277, 309-311.	1.4	28
26	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
27	The near-Sun streamer belt solar wind: turbulence and solar wind acceleration. Astronomy and Astrophysics, 2021, 650, L3.	5.1	26
28	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
29	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
30	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
31	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
32	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
33	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
34	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
35	NANODUST DETECTION BETWEEN 1 AND 5 AU USING<i>CASSINI</i>WAVE MEASUREMENTS. Astrophysical Journal, 2015, 806, 77.	4.5	14
36	Source-dependent Properties of Two Slow Solar Wind States. Astrophysical Journal, 2021, 910, 63.	4.5	12

#	Article	IF	Citations
37	Solar wind energy flux observations in the inner heliosphere: first results from Parker Solar Probe. Astronomy and Astrophysics, 2021, 650, A14.	5.1	12
38	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
39	High-speed solar wind from Ulysses measurements and comparison with exospheric models. , 1999, , .		7
40	A Short Review of Passive R. F. Electric Antennas as In Situ Detectors of Space Plasmas. , 2009, , .		6
41	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
42	Langmuir-Slow Extraordinary Mode Magnetic Signature Observations with Parker Solar Probe. Astrophysical Journal, 2022, 927, 95.	4.5	4
43	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