Véronique Bommier

List of Publications by Year
in descending order

26 papers	256 citations	1307594 7 h-index	940533 16 g-index
26 all docs	26 docs citations	26 times ranked	133 citing authors

#	Article	IF	Citations
1	Vector magnetic fields in prominences. Solar Physics, 1983, 89, 3-30.	2.5	82
2	Vector magnetic fields in prominences. Solar Physics, 1985, 96, 277-292.	2.5	39
3	A spectroscopic method for the solution of the 180-deg azimuth ambiguity in magnetograms. Astrophysical Journal, 1993, 411, L49.	4.5	20
4	Master equation theory applied to the redistribution of polarized radiation in the weak radiation field limit. Astronomy and Astrophysics, 2017, 607, A50.	5.1	18
5	Derivation of the master equation for the atomic density matrix for line polarization studies in the presence of magnetic field and depolarizing collisions in astrophysics. Annales De Physique, 1991, 16, 555-598.	0.2	18
6	Master equation theory applied to the redistribution of polarized radiation in the weak radiation field limit. Astronomy and Astrophysics, 2016, 591, A59.	5.1	14
7	The Third and Fourth Workshops on Spectral Line Shapes in Plasma Code Comparison: Isolated Lines. Atoms, 2018, 6, 30.	1.6	8
8	Milne–Eddington inversion for unresolved magnetic structures in the quiet Sun photosphere. Journal of Geophysical Research: Space Physics, 2016, 121, 5025-5040.	2.4	7
9	Derivation of the radiative transfer equation for line polarization studies in the presence of magnetic field in astrophysics. Annales De Physique, 1991, 16, 599-622.	0.2	7
10	Master equation theory applied to the redistribution of polarized radiation in the weak radiation field limit. Astronomy and Astrophysics, 2018, 619, C1.	5.1	7
11	Reconciliating the Vertical and Horizontal Gradients of the Sunspot Magnetic Field. Research Letters in Physics, 2013, 2013, 1-16.	0.2	6
12	Master equation theory applied to the redistribution of polarized radiation in the weak radiation field limit. Astronomy and Astrophysics, 2016, 591, A60.	5.1	6
13	Electromagnetism in a strongly stratified plasma showing an unexpected effect of the Debye shielding. Comptes Rendus Physique, 2014, 15, 430-440.	0.9	4
14	Atomic coherences and level-crossings physics. Solar Physics, 1996, 164, 29-47.	2.5	3
15	The thermospheric auroral red line polarization: confirmation of detection and first quantitative analysis. Journal of Space Weather and Space Climate, 2013, 3, A01.	3.3	3
16	24 synoptic maps of average magnetic field in 296 prominences measured by the Hanle effect during the ascending phase of solar cycle 21. Astronomy and Astrophysics, 2021, 647, A60.	5.1	3
17	Atomic Coherences and Level-Crossings Physics. , 1996, , 29-47.		3
18	Magnetic field vector ambiguity resolution in a quiescent prominence observed on two consecutive days. Astronomy and Astrophysics, 2019, 629, A138.	5.1	2

#	Article	IF	Citations
19	The Density Matrix Theory for Polarized Radiation Redistribution. Astrophysics and Space Science Library, 1999, , 43-60.	2.7	2
20	Vector magnetic field and vector current density in and around the Î´-spot NOAA 10808. Proceedings of the International Astronomical Union, 2010, 6, 338-338.	0.0	1
21	Ion Traps at the Sun: Implications for Elemental Fractionation. Astrophysical Journal, 2018, 857, 85.	4.5	1
22	Solar photosphere magnetization. Astronomy and Astrophysics, 2020, 634, A40.	5.1	1
23	Master equation theory applied to the redistribution of polarized radiation in the weak radiation field limit. Astronomy and Astrophysics, 2020, 644, A65.	5.1	1
24	Inclusion of velocity gradients in the Unno solution for magnetic field diagnostic from spectropolarimetric data. Proceedings of the International Astronomical Union, 2010, 6, 291-294.	0.0	0
25	24 synoptic maps 1974-1982 (ascending phase of cycle XXI) of 323 prominence average magnetic fields measured by the Hanle effect. Proceedings of the International Astronomical Union, 2013, 8, 397-400.	0.0	0
26	Solar Surface Anisotropy effect on the Magnetic Field. Proceedings of the International Astronomical Union, 2014, 10, 28-34.	0.0	0