

# VÃ©ronique Bommier

## List of Publications by Year in descending order

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26  
papers

256  
citations

1306789

7  
h-index

940134

16  
g-index

26  
all docs

26  
docs citations

26  
times ranked

133  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vector magnetic fields in prominences. <i>Solar Physics</i> , 1983, 89, 3-30.	1.0	82
2	Vector magnetic fields in prominences. <i>Solar Physics</i> , 1985, 96, 277-292.	1.0	39
3	A spectroscopic method for the solution of the 180-deg azimuth ambiguity in magnetograms. <i>Astrophysical Journal</i> , 1993, 411, L49.	1.6	20
4	Master equation theory applied to the redistribution of polarized radiation in the weak radiation field limit. <i>Astronomy and Astrophysics</i> , 2017, 607, A50.	2.1	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. <i>Annales De Physique</i> , 1991, 16, 555-598.	0.2	18
6	Master equation theory applied to the redistribution of polarized radiation in the weak radiation field limit. <i>Astronomy and Astrophysics</i> , 2016, 591, A59.	2.1	14
7	The Third and Fourth Workshops on Spectral Line Shapes in Plasma Code Comparison: Isolated Lines. <i>Atoms</i> , 2018, 6, 30.	0.7	8
8	Milne-Eddington inversion for unresolved magnetic structures in the quiet Sun photosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5025-5040.	0.8	7
9	Derivation of the radiative transfer equation for line polarization studies in the presence of magnetic field in astrophysics. <i>Annales De Physique</i> , 1991, 16, 599-622.	0.2	7
10	Master equation theory applied to the redistribution of polarized radiation in the weak radiation field limit. <i>Astronomy and Astrophysics</i> , 2018, 619, C1.	2.1	7
11	Reconciling the Vertical and Horizontal Gradients of the Sunspot Magnetic Field. <i>Research Letters in Physics</i> , 2013, 2013, 1-16.	0.2	6
12	Master equation theory applied to the redistribution of polarized radiation in the weak radiation field limit. <i>Astronomy and Astrophysics</i> , 2016, 591, A60.	2.1	6
13	Electromagnetism in a strongly stratified plasma showing an unexpected effect of the Debye shielding. <i>Comptes Rendus Physique</i> , 2014, 15, 430-440.	0.3	4
14	Atomic coherences and level-crossings physics. <i>Solar Physics</i> , 1996, 164, 29-47.	1.0	3
15	The thermospheric auroral red line polarization: confirmation of detection and first quantitative analysis. <i>Journal of Space Weather and Space Climate</i> , 2013, 3, A01.	1.1	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. <i>Astronomy and Astrophysics</i> , 2021, 647, A60.	2.1	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. <i>Astronomy and Astrophysics</i> , 2019, 629, A138.	2.1	2

#	ARTICLE	IF	CITATIONS
19	The Density Matrix Theory for Polarized Radiation Redistribution. Astrophysics and Space Science Library, 1999, , 43-60.	1.0	2
20	Vector magnetic field and vector current density in and around the $\hat{\nu}$ -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.	1.6	1
22	Solar photosphere magnetization. Astronomy and Astrophysics, 2020, 634, A40.	2.1	1
23	Master equation theory applied to the redistribution of polarized radiation in the weak radiation field limit. Astronomy and Astrophysics, 2020, 644, A65.	2.1	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