

# VÃ©ronique Bommier

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | 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.                     | 5.1 | 3         |
| 2  | Solar photosphere magnetization. <i>Astronomy and Astrophysics</i> , 2020, 634, A40.   | 5.1 | 1         |
| 3  | Master equation theory applied to the redistribution of polarized radiation in the weak radiation field limit. <i>Astronomy and Astrophysics</i> , 2020, 644, A65.   | 5.1 | 1         |
| 4  | Magnetic field vector ambiguity resolution in a quiescent prominence observed on two consecutive days. <i>Astronomy and Astrophysics</i> , 2019, 629, A138.  | 5.1 | 2         |
| 5  | Ion Traps at the Sun: Implications for Elemental Fractionation. <i>Astrophysical Journal</i> , 2018, 857, 85.  | 4.5 | 1         |
| 6  | The Third and Fourth Workshops on Spectral Line Shapes in Plasma Code Comparison: Isolated Lines. <i>Atoms</i> , 2018, 6, 30.  | 1.6 | 8         |
| 7  | Master equation theory applied to the redistribution of polarized radiation in the weak radiation field limit. <i>Astronomy and Astrophysics</i> , 2018, 619, C1.  | 5.1 | 7         |
| 8  | Master equation theory applied to the redistribution of polarized radiation in the weak radiation field limit. <i>Astronomy and Astrophysics</i> , 2017, 607, A50.   | 5.1 | 18        |
| 9  | Master equation theory applied to the redistribution of polarized radiation in the weak radiation field limit. <i>Astronomy and Astrophysics</i> , 2016, 591, A60.   | 5.1 | 6         |
| 10 | Master equation theory applied to the redistribution of polarized radiation in the weak radiation field limit. <i>Astronomy and Astrophysics</i> , 2016, 591, A59.   | 5.1 | 14        |
| 11 | Milneâ€Eddington inversion for unresolved magnetic structures in the quiet Sun photosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5025-5040.  | 2.4 | 7         |
| 12 | Electromagnetism in a strongly stratified plasma showing an unexpected effect of the Debye shielding. <i>Comptes Rendus Physique</i> , 2014, 15, 430-440.  | 0.9 | 4         |
| 13 | Solar Surface Anisotropy effect on the Magnetic Field. <i>Proceedings of the International Astronomical Union</i> , 2014, 10, 28-34.   | 0.0 | 0         |
| 14 | 24 synoptic maps 1974-1982 (ascending phase of cycle XXI) of 323 prominence average magnetic fields measured by the Hanle effect. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 397-400. | 0.0 | 0         |
| 15 | Reconciling the Vertical and Horizontal Gradients of the Sunspot Magnetic Field. <i>Research Letters in Physics</i> , 2013, 2013, 1-16.  | 0.2 | 6         |
| 16 | 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.                                    | 3.3 | 3         |
| 17 | Inclusion of velocity gradients in the Unno solution for magnetic field diagnostic from spectropolarimetric data. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 291-294.                 | 0.0 | 0         |
| 18 | Vector magnetic field and vector current density in and around the $\delta$ -spot NOAA 10808. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 338-338.                                     | 0.0 | 1         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | The Density Matrix Theory for Polarized Radiation Redistribution. Astrophysics and Space Science Library, 1999, , 43-60.   | 2.7 | 2         |
| 20 | Atomic coherences and level-crossings physics. Solar Physics, 1996, 164, 29-47.  | 2.5 | 3         |
| 21 | Atomic Coherences and Level-Crossings Physics. , 1996, , 29-47.  |     | 3         |
| 22 | A spectroscopic method for the solution of the 180-deg azimuth ambiguity in magnetograms. Astrophysical Journal, 1993, 411, L49.   | 4.5 | 20        |
| 23 | 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        |
| 24 | 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         |
| 25 | Vector magnetic fields in prominences. Solar Physics, 1985, 96, 277-292.   | 2.5 | 39        |
| 26 | Vector magnetic fields in prominences. Solar Physics, 1983, 89, 3-30.  | 2.5 | 82        |