

Sven Wedemeyer-BÃ¶hm

List of Publications by Year in descending order

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62
papers

2,453
citations

218677

26
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206112

48
g-index

62
all docs

62
docs citations

62
times ranked

1256
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulations of stellar convection with CO5BOLD. <i>Journal of Computational Physics</i> , 2012, 231, 919-959.	3.8	276
2	Magnetic tornadoes as energy channels into the solar corona. <i>Nature</i> , 2012, 486, 505-508.	27.8	270
3	Numerical simulation of the three-dimensional structure and dynamics of the non-magnetic solar chromosphere. <i>Astronomy and Astrophysics</i> , 2004, 414, 1121-1137.	5.1	200
4	Small-scale swirl events in the quiet Sun chromosphere. <i>Astronomy and Astrophysics</i> , 2009, 507, L9-L12.	5.1	116
5	Solar Science with the Atacama Large Millimeter/Submillimeter Array – A New View of Our Sun. <i>Space Science Reviews</i> , 2016, 200, 1-73.	8.1	113
6	Coupling from the Photosphere to the Chromosphere and the Corona. <i>Space Science Reviews</i> , 2009, 144, 317-350.	8.1	84
7	Observing the Sun with the Atacama Large Millimeter/submillimeter Array (ALMA): Fast-Scan Single-Dish Mapping. <i>Solar Physics</i> , 2017, 292, 1.	2.5	76
8	The Horizontal Internetwork Magnetic Field: Numerical Simulations in Comparison to Observations with Hinode. <i>Astrophysical Journal</i> , 2008, 680, L85-L88.	4.5	69
9	Point spread functions for the Solar optical telescope onboard Hinode. <i>Astronomy and Astrophysics</i> , 2008, 487, 399-412.	5.1	69
10	ARE GIANT TORNADOES THE LEGS OF SOLAR PROMINENCES?. <i>Astrophysical Journal</i> , 2013, 774, 123.	4.5	67
11	On the continuum intensity distribution of the solar photosphere. <i>Astronomy and Astrophysics</i> , 2009, 503, 225-239.	5.1	67
12	Observing the Sun with the Atacama Large Millimeter/submillimeter Array (ALMA): High-Resolution Interferometric Imaging. <i>Solar Physics</i> , 2017, 292, 1.	2.5	57
13	ON THE EVOLUTION OF MAGNETIC WHITE DWARFS. <i>Astrophysical Journal</i> , 2015, 812, 19.	4.5	52
14	UNRESOLVED FINE-SCALE STRUCTURE IN SOLAR CORONAL LOOP-TOPS. <i>Astrophysical Journal</i> , 2014, 797, 36.	4.5	48
15	DOT tomography of the solar atmosphere. <i>Astronomy and Astrophysics</i> , 2005, 431, 687-692.	5.1	46
16	On the plasma flow inside magnetic tornadoes on the Sun. <i>Publication of the Astronomical Society of Japan</i> , 2014, 66, .	2.5	39
17	Statistical equilibrium and photospheric abundance of silicon in the Sun and in Vega. <i>Astronomy and Astrophysics</i> , 2001, 373, 998-1008.	5.1	39
18	Non-equilibrium calcium ionisation in the solar atmosphere. <i>Astronomy and Astrophysics</i> , 2011, 528, A1.	5.1	38

#	ARTICLE	IF	CITATIONS
19	Inter-network regions of the Sun at millimetre wavelengths. <i>Astronomy and Astrophysics</i> , 2007, 471, 977-991.	5.1	36
20	OBSERVING THE FORMATION OF FLARE-DRIVEN CORONAL RAIN. <i>Astrophysical Journal</i> , 2016, 833, 184.	4.5	35
21	Carbon monoxide in the solar atmosphere. <i>Astronomy and Astrophysics</i> , 2005, 438, 1043-1057.	5.1	33
22	The Sun at millimeter wavelengths. <i>Astronomy and Astrophysics</i> , 2020, 635, A71.	5.1	32
23	Time-dependent hydrogen ionisation in 3D simulations of the solar chromosphere. <i>Astronomy and Astrophysics</i> , 2006, 460, 301-307.	5.1	32
24	IS THE SUN LIGHTER THAN THE EARTH? ISOTOPIC CO IN THE PHOTOSPHERE, VIEWED THROUGH THE LENS OF THREE-DIMENSIONAL SPECTRUM SYNTHESIS. <i>Astrophysical Journal</i> , 2013, 765, 46.	4.5	31
25	The multi-thermal chromosphere. <i>Astronomy and Astrophysics</i> , 2020, 634, A56.	5.1	29
26	THE DETECTION OF UPWARDLY PROPAGATING WAVES CHANNELING ENERGY FROM THE CHROMOSPHERE TO THE LOW CORONA. <i>Astrophysical Journal</i> , 2014, 791, 61.	4.5	28
27	Vortex flows in the solar chromosphere. <i>Astronomy and Astrophysics</i> , 2017, 601, A135.	5.1	28
28	First high-resolution look at the quiet Sun with ALMA at 3mm. <i>Astronomy and Astrophysics</i> , 2018, 619, L6.	5.1	27
29	First analysis of solar structures in 1.21 mm full-disc ALMA image of the Sun. <i>Astronomy and Astrophysics</i> , 2018, 613, A17.	5.1	26
30	The solar chromosphere at millimetre and ultraviolet wavelengths. <i>Astronomy and Astrophysics</i> , 2019, 622, A150.	5.1	26
31	Hinode observations reveal boundary layers of magnetic elements in the solar photosphere. <i>Astronomy and Astrophysics</i> , 2007, 476, L33-L36.	5.1	26
32	Observation of a short-lived pattern in the solar chromosphere. <i>Astronomy and Astrophysics</i> , 2006, 459, L9-L12.	5.1	25
33	Magnetic tornadoes and chromospheric swirls – Definition and classification. <i>Journal of Physics: Conference Series</i> , 2013, 440, 012005.	0.4	24
34	On the fine structure of the quiet solar Ca II H&K atmosphere. <i>Astronomy and Astrophysics</i> , 2007, 462, 303-310.	5.1	23
35	Multiwavelength High-resolution Observations of Chromospheric Swirls in the Quiet Sun. <i>Astrophysical Journal</i> , 2019, 881, 83.	4.5	20
36	First Spectral Analysis of a Solar Plasma Eruption Using ALMA. <i>Astrophysical Journal</i> , 2019, 875, 163.	4.5	20

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37	CHROMOSPHERIC AND CORONAL WAVE GENERATION IN A MAGNETIC FLUX SHEATH. <i>Astrophysical Journal</i> , 2016, 827, 7.	4.5	20
38	The Sun at millimeter wavelengths. <i>Astronomy and Astrophysics</i> , 2020, 644, A152.	5.1	17
39	Carbon monoxide in the solar atmosphere. <i>Astronomy and Astrophysics</i> , 2007, 462, L31-L35.	5.1	16
40	First local helioseismic experiments with CO5BOLD. <i>Astronomische Nachrichten</i> , 2007, 328, 323-328.	1.2	16
41	ALMA and IRIS Observations of the Solar Chromosphere. I. An On-disk Type II Spicule. <i>Astrophysical Journal</i> , 2021, 906, 82.	4.5	16
42	An overall view of temperature oscillations in the solar chromosphere with ALMA. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200174.	3.4	15
43	Three-dimensional magnetohydrodynamic simulations of M-dwarf chromospheres. <i>Astronomische Nachrichten</i> , 2013, 334, 137-140.	1.2	14
44	ALMA and IRIS Observations of the Solar Chromosphere. II. Structure and Dynamics of Chromospheric Plages. <i>Astrophysical Journal</i> , 2021, 906, 83.	4.5	14
45	The Sun at millimeter wavelengths. <i>Astronomy and Astrophysics</i> , 2021, 656, A68.	5.1	12
46	3-D hydrodynamic simulations of the solar chromosphere. <i>Astronomische Nachrichten</i> , 2003, 324, 410-411.	1.2	10
47	MORPHOLOGY AND DYNAMICS OF THE LOW SOLAR CHROMOSPHERE. <i>Astrophysical Journal</i> , 2009, 706, 148-157.	4.5	10
48	Characterization of shock wave signatures at millimetre wavelengths from Bifrost simulations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200185.	3.4	10
49	The Solar ALMA Science Archive (SALSA). <i>Astronomy and Astrophysics</i> , 2022, 659, A31.	5.1	10
50	High-frequency oscillations in small chromospheric bright features observed with Atacama Large Millimetre/Submillimetre Array. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20200184.	3.4	9
51	Three-dimensional hydrodynamical CO5BOLD model atmospheres of red giant stars. <i>Astronomy and Astrophysics</i> , 2017, 606, A26.	5.1	8
52	SSALMON – The Solar Simulations for the Atacama Large Millimeter Observatory Network. <i>Advances in Space Research</i> , 2015, 56, 2679-2692.	2.6	5
53	EMISSA (Exploring Millimeter Indicators of Solar-Stellar Activity). <i>Astronomy and Astrophysics</i> , 2021, 655, A113.	5.1	5
54	Power distribution of oscillations in the atmosphere of a plage region. Joint observations with ALMA, IRIS, and SDO. <i>Astronomy and Astrophysics</i> , 0, , .	5.1	4

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55	First detection of AlF line emission towards M-type AGB stars. <i>Astronomy and Astrophysics</i> , 2022, 663, A54.	5.1	4
56	A Genetic Algorithm to Model Solar Radio Active Regions From 3D Magnetic Field Extrapolations. <i>Frontiers in Astronomy and Space Sciences</i> , 0, 9, .	2.8	4
57	Small-scale structure and dynamics of the lower solar atmosphere. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 66-73.	0.0	3
58	Coupling from the Photosphere to the Chromosphere and the Corona. <i>Space Sciences Series of ISSI</i> , 2008, , 317-350.	0.0	2
59	Dynamic models of the sun from the convection zone to the chromosphere. <i>Proceedings of the International Astronomical Union</i> , 2006, 2, 52-57.	0.0	1
60	Synthetic activity indicators for M-type dwarf stars. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 303-308.	0.0	1
61	Are there variations in Earth's global mean temperature related to the solar activity?. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 320-325.	0.0	0
62	Observing the Sun with the Atacama Large Millimeter/submillimeter Array " from continuum to magnetic fields. <i>Proceedings of the International Astronomical Union</i> , 2019, 15, 24-37.	0.0	0