

Luca Bertello

List of Publications by Year in descending order

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44
papers

1,397
citations

331670

21
h-index

330143

37
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46
all docs

46
docs citations

46
times ranked

932
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of Solar Hemispheric Chromosphere Properties using the Kodaikanal Observatory Ca ii K Index. <i>Astrophysical Journal</i> , 2022, 925, 81.	4.5	17
2	AWSoM Magnetohydrodynamic Simulation of a Solar Active Region with Realistic Spectral Synthesis. <i>Astrophysical Journal</i> , 2022, 928, 34.	4.5	6
3	On the Application of the Equal-contrast Technique to Ca-K Data from Kodaikanal and Other Observatories. <i>Astrophysical Journal</i> , 2022, 927, 154.	4.5	4
4	On a limitation of Zeeman polarimetry and imperfect instrumentation in representing solar magnetic fields with weaker polarization signal. <i>Journal of Space Weather and Space Climate</i> , 2021, 11, 14.	3.3	8
5	Long-term studies of photospheric magnetic fields on the Sun. <i>Journal of Space Weather and Space Climate</i> , 2021, 11, 4.	3.3	10
6	Prediction of Sunspot and Plage Coverage for Solar Cycle 25. <i>Astrophysical Journal Letters</i> , 2021, 922, L12.	8.3	8
7	70 Years of Chromospheric Solar Activity and Dynamics. <i>Astrophysical Journal</i> , 2020, 897, 181.	4.5	20
8	Reconstructing solar magnetic fields from historical observations. <i>Astronomy and Astrophysics</i> , 2019, 628, A103.	5.1	15
9	Signature of Extended Solar Cycles as Detected from Ca ii K Synoptic Maps of Kodaikanal and Mount Wilson Observatory. <i>Astrophysical Journal Letters</i> , 2019, 874, L4.	8.3	7
10	Tilt of Sunspot Bipoles in Solar Cycles 15 to 24. <i>Solar Physics</i> , 2018, 293, 1.	2.5	24
11	THE MOUNT WILSON OBSERVATORY S-INDEX OF THE SUN. <i>Astrophysical Journal</i> , 2017, 835, 25.	4.5	79
12	Reconstructing solar magnetic fields from historical observations. <i>Astronomy and Astrophysics</i> , 2016, 585, A40.	5.1	43
13	What if we had a magnetograph at Lagrangian L5?. <i>Space Weather</i> , 2016, 14, 1026-1031.	3.7	17
14	Correlation Between Sunspot Number and Ca ii K Emission Index. <i>Solar Physics</i> , 2016, 291, 2967-2979.	2.5	36
15	Short-Term Variations in the Equatorial Rotation Rate of Sunspot Groups. <i>Solar Physics</i> , 2016, 291, 3485-3500.	2.5	16
16	Effect of uncertainties in solar synoptic magnetic flux maps in modeling of solar wind. <i>Advances in Space Research</i> , 2015, 56, 2719-2726.	2.6	9
17	A Multi-Observatory Inter-Comparison of Line-of-Sight Synoptic Solar Magnetograms. <i>Solar Physics</i> , 2014, 289, 769-792.	2.5	123
18	Cyclic and Long-Term Variation of Sunspot Magnetic Fields. <i>Solar Physics</i> , 2014, 289, 593-602.	2.5	53

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19	Uncertainties in Solar Synoptic Magnetic Flux Maps. <i>Solar Physics</i> , 2014, 289, 2419-2431.	2.5	36
20	The sun's Ca II star solar spectrum. <i>Astronomische Nachrichten</i> , 2014, 335, 21-26.	1.2	11
21	Comparison of Ground-Based and Space-Based Longitudinal Magnetograms. <i>Solar Physics</i> , 2013, 282, 91-106.	2.5	37
22	ON POSSIBLE VARIATIONS OF BASAL Ca II K CHROMOSPHERIC LINE PROFILES WITH THE SOLAR CYCLE. <i>Astrophysical Journal</i> , 2013, 767, 56.	4.5	10
23	An analysis of apparent r-mode oscillations in solar activity, the solar diameter, the solar neutrino flux, and nuclear decay rates, with implications concerning the Sun's internal structure and rotation, and neutrino processes. <i>Astroparticle Physics</i> , 2013, 42, 62-69.	4.3	38
24	The Solar Cycle. <i>Advances in Astronomy</i> , 2012, 2012, 1-2.	1.1	2
25	SIGNATURE OF DIFFERENTIAL ROTATION IN SUN-AS-A-STAR Ca II K MEASUREMENTS. <i>Astrophysical Journal</i> , 2012, 761, 11.	4.5	13
26	Improvements in the Determination of ISS Ca ii K Parameters. <i>Solar Physics</i> , 2011, 272, 229-242.	2.5	18
27	POWER SPECTRUM ANALYSIS OF MOUNT WILSON SOLAR DIAMETER MEASUREMENTS: EVIDENCE FOR SOLAR INTERNAL r-MODE OSCILLATIONS. <i>Astrophysical Journal</i> , 2010, 725, 492-495.	4.5	14
28	Modeling Total Solar Irradiance Variations Using Automated Classification Software on Mount Wilson Data. <i>Solar Physics</i> , 2010, 261, 11-34.	2.5	8
29	The Mount Wilson Ca II K Plage Index Time Series. <i>Solar Physics</i> , 2010, 264, 31-44.	2.5	55
30	Interpretation of Solar Magnetic Field Strength Observations. <i>Solar Physics</i> , 2009, 255, 53-78.	2.5	39
31	A Century of Solar Ca ii Measurements and Their Implication for Solar UV Driving of Climate. <i>Solar Physics</i> , 2009, 255, 229-238.	2.5	70
32	Search for Short-Term Periodicities in the Sun's Surface Rotation: A Revisit. <i>Solar Physics</i> , 2009, 257, 61-69.	2.5	34
33	Solar Radius Measurements at Mount Wilson Observatory. <i>Astrophysical Journal</i> , 2006, 649, 444-451.	4.5	22
34	Magnetic Fields from SOHO MDI Converted to the Mount Wilson 150 Foot Solar Tower Scale. <i>Astrophysical Journal</i> , Supplement Series, 2005, 156, 295-310.	7.7	39
35	Long-Term Variations in Solar Differential Rotation and Sunspot Activity. <i>Solar Physics</i> , 2005, 232, 25-40.	2.5	50
36	An Interpretation of the Differences in the Solar Differential Rotation during Even and Odd Sunspot Cycles. <i>Astrophysical Journal</i> , 2005, 626, 579-584.	4.5	32

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37	Looking for Gravityâ€™Mode Multiplets with the GOLF Experiment aboardSOHO. Astrophysical Journal, 2004, 604, 455-468.	4.5	98
38	Low-Degree Low-Order Solar p Modes As Seen By GOLF On board SOHO. Solar Physics, 2001, 200, 361-379.	2.5	60
39	Results from the GOLF instrument on SOHO. Advances in Space Research, 1999, 24, 147-155.	2.6	4
40	Performance and Early Results from the Golf Instrument Flown on the Soho Mission. Solar Physics, 1997, 175, 207-226.	2.5	65
41	First Results on it p Modes from GOLF Experiment. Solar Physics, 1997, 175, 227-246.	2.5	48
42	Solar Rotation Measurements at Mount Wilson over the Period 1990â€™1995. Astrophysical Journal, 1996, 465, L65-L68.	4.5	18
43	Solar-cycle dependence of the Sun's apparent radius in the neutral iron spectral line at 525 nm. Nature, 1995, 377, 214-215.	27.8	71
44	New observations of 5 minute oscillations in the opposite flanks of solar Fraunhofer lines. I - The effect of varying the spectral and temporal resolution. Astrophysical Journal, 1992, 401, 768.	4.5	1