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 g-index
46 all docs	46 docs citations	46 times ranked	932 citing authors

#	Article	IF	Citations
1	A Multi-Observatory Inter-Comparison of Line-of-Sight Synoptic Solar Magnetograms. Solar Physics, 2014, 289, 769-792.	2.5	123
2	Looking for Gravityâ€Mode Multiplets with the GOLF Experiment aboardSOHO. Astrophysical Journal, 2004, 604, 455-468.	4.5	98
3	THE MOUNT WILSON OBSERVATORY S-INDEX OF THE SUN. Astrophysical Journal, 2017, 835, 25.	4.5	79
4	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
5	A Century of Solar Ca ii Measurements and Their Implication for Solar UV Driving of Climate. Solar Physics, 2009, 255, 229-238.	2.5	70
6	Performance and Early Results from the Golf Instrument Flown on the Soho Mission. Solar Physics, 1997, 175, 207-226.	2.5	65
7	Low-Degree Low-Order Solar p Modes As Seen By GOLF On board SOHO. Solar Physics, 2001, 200, 361-379.	2.5	60
8	The Mount Wilson CaÂiiÂK Plage Index Time Series. Solar Physics, 2010, 264, 31-44.	2.5	55
9	Cyclic and Long-Term Variation of Sunspot Magnetic Fields. Solar Physics, 2014, 289, 593-602.	2.5	53
10	Long-Term Variations in Solar Differential Rotation and Sunspot Activity. Solar Physics, 2005, 232, 25-40.	2.5	50
11	First Results on it p Modes from GOLF Experiment. Solar Physics, 1997, 175, 227-246.	2.5	48
12	Reconstructing solar magnetic fields from historical observations. Astronomy and Astrophysics, 2016, 585, A40.	5.1	43
13	Magnetic Fields from SOHO MDI Converted to the Mount Wilson 150 Foot Solar Tower Scale. Astrophysical Journal, Supplement Series, 2005, 156, 295-310.	7.7	39
14	Interpretation of Solar Magnetic Field Strength Observations. Solar Physics, 2009, 255, 53-78.	2.5	39
15	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 Sunâ€™s internal structure and rotation, and neutrino processes. Astroparticle Physics, 2013, 42, 62-69.	4.3	38
16	Comparison of Ground-Based and Space-Based Longitudinal Magnetograms. Solar Physics, 2013, 282, 91-106.	2.5	37
17	Uncertainties in Solar Synoptic Magnetic Flux Maps. Solar Physics, 2014, 289, 2419-2431.	2.5	36
18	Correlation Between Sunspot Number and Ca ii K Emission Index. Solar Physics, 2016, 291, 2967-2979.	2.5	36

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19	Search for Short-Term Periodicities in the Sunâ€™s Surface Rotation: AÂRevisit. Solar Physics, 2009, 257, 61-69.	2.5	34
20	An Interpretation of the Differences in the Solar Differential Rotation during Even and Odd Sunspot Cycles. Astrophysical Journal, 2005, 626, 579-584.	4.5	32
21	Tilt of Sunspot Bipoles in Solar Cycles 15 to 24. Solar Physics, 2018, 293, 1.	2.5	24
22	Solar Radius Measurements at Mount Wilson Observatory. Astrophysical Journal, 2006, 649, 444-451.	4.5	22
23	70 Years of Chromospheric Solar Activity and Dynamics. Astrophysical Journal, 2020, 897, 181.	4.5	20
24	Solar Rotation Measurements at Mount Wilson over the Period 1990â€“1995. Astrophysical Journal, 1996, 465, L65-L68.	4.5	18
25	Improvements in the Determination of ISS Ca ii K Parameters. Solar Physics, 2011, 272, 229-242.	2.5	18
26	What if we had a magnetograph at Lagrangian L5?. Space Weather, 2016, 14, 1026-1031.	3.7	17
27	Analysis of Solar Hemispheric Chromosphere Properties using the Kodaikanal Observatory Caâ€“K Index. Astrophysical Journal, 2022, 925, 81.	4.5	17
28	Short-Term Variations in the Equatorial Rotation Rate of Sunspot Groups. Solar Physics, 2016, 291, 3485-3500.	2.5	16
29	Reconstructing solar magnetic fields from historical observations. Astronomy and Astrophysics, 2019, 628, A103.	5.1	15
30	POWER SPECTRUM ANALYSIS OF MOUNT WILSON SOLAR DIAMETER MEASUREMENTS: EVIDENCE FOR SOLAR INTERNALr-MODE OSCILLATIONS. Astrophysical Journal, 2010, 725, 492-495.	4.5	14
31	SIGNATURE OF DIFFERENTIAL ROTATION IN SUN-AS-A-STAR Ca II K MEASUREMENTS. Astrophysical Journal, 2012, 761, 11.	4.5	13
32	The sunâ€asâ€aâ€star solar spectrum. Astronomische Nachrichten, 2014, 335, 21-26.	1.2	11
33	ON POSSIBLE VARIATIONS OF BASAL Ca II K CHROMOSPHERIC LINE PROFILES WITH THE SOLAR CYCLE. Astrophysical Journal, 2013, 767, 56.	4.5	10
34	Long-term studies of photospheric magnetic fields on the Sun. Journal of Space Weather and Space Climate, 2021, 11, 4.	3.3	10
35	Effect of uncertainties in solar synoptic magnetic flux maps in modeling of solar wind. Advances in Space Research, 2015, 56, 2719-2726.	2.6	9
36	Modeling Total Solar Irradiance Variations Using Automated Classification Software on Mount Wilson Data. Solar Physics, 2010, 261, 11-34.	2.5	8

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37	On a limitation of Zeeman polarimetry and imperfect instrumentation in representing solar magnetic fields with weaker polarization signal. Journal of Space Weather and Space Climate, 2021, 11, 14.	3.3	8
38	Prediction of Sunspot and Plage Coverage for Solar Cycle 25. Astrophysical Journal Letters, 2021, 922, L12.	8.3	8
39	Signature of Extended Solar Cycles as Detected from Ca ii K Synoptic Maps of Kodaikanal and Mount Wilson Observatory. Astrophysical Journal Letters, 2019, 874, L4.	8.3	7
40	AWSoM Magnetohydrodynamic Simulation of a Solar Active Region with Realistic Spectral Synthesis. Astrophysical Journal, 2022, 928, 34.	4.5	6
41	Results from the GOLF instrument on SOHO. Advances in Space Research, 1999, 24, 147-155.	2.6	4
42	On the Application of the Equal-contrast Technique to Ca-K Data from Kodaikanal and Other Observatories. Astrophysical Journal, 2022, 927, 154.	4.5	4
43	The Solar Cycle. Advances in Astronomy, 2012, 2012, 1-2.	1.1	2
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