Thomas Berger

List of Publications by Year in descending order

57 papers	3,989 citations	134610 34 h-index	175968 55 g-index
61 all docs	61 docs citations	61 times ranked	1409 citing authors

#	Article	IF	Citations
1	Decreasing False-alarm Rates in CNN-based Solar Flare Prediction Using SDO/HMI Data. Astrophysical Journal, Supplement Series, 2022, 260, 9.	3.0	10
2	Critical Science Plan for the Daniel K. Inouye Solar Telescope (DKIST). Solar Physics, 2021, 296, 1.	1.0	65
3	Toward Accurate Physicsâ€Based Specifications of Neutral Density Using GNSSâ€Enabled Small Satellites. Space Weather, 2021, 19, e2021SW002736.	1.3	5
4	Measuring the Magnetic Origins of Solar Flares, Coronal Mass Ejections, and Space Weather. Astrophysical Journal, 2021, 917, 27.	1.6	15
5	Flying Through Uncertainty. Space Weather, 2020, 18, e2019SW002373.	1.3	22
6	Calibrating GONG Magnetograms with End-to-End Instrument Simulation II: Theory of Calibration. Solar Physics, 2020, 295, 1.	1.0	6
7	Calibrating GONG Magnetograms with End-to-end Instrument Simulation I: Background, the GONG Instrument, and End-to-end Simulation. Solar Physics, 2020, 295, 1.	1.0	8
8	Leveraging the mathematics of shape for solar magnetic eruption prediction. Journal of Space Weather and Space Climate, 2020, 10, 13.	1.1	18
9	Calibrating GONG Magnetograms with End-to-End Instrument Simulation III: Comparison, Calibration, and Results. Solar Physics, 2020, 295, 1.	1.0	10
10	Feasibility of Nearâ€Realâ€Time GOLD Data Products. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027819.	0.8	2
11	Quiescent Prominence Dynamics Observed with the Hinode Solar Optical Telescope. II. Prominence Bubble Boundary Layer Characteristics and the Onset of a Coupled Kelvinâ€“Helmholtz Rayleighâ€“Taylor Instability. Astrophysical Journal, 2017, 850, 60.	1.6	35
12	FIRST HIGH-RESOLUTION SPECTROSCOPIC OBSERVATIONS OF AN ERUPTING PROMINENCE WITHIN A CORONAL MASS EJECTION BY THEINTERFACE REGION IMAGING SPECTROGRAPH(IRIS). Astrophysical Journal, 2015, 803, 85.	1.6	26
13	Solar Prominence Fine Structure and Dynamics. Proceedings of the International Astronomical Union, 2013, 8, 15-29.	0.0	4
14	Coronal Condensation in Funnel Prominences as Return Flows of the Chromosphere-Corona Mass Cycle. Proceedings of the International Astronomical Union, 2013, 8, 441-442.	0.0	4
15	Prominence Science with ATST Instrumentation. Proceedings of the International Astronomical Union, 2013, 8, 362-369.	0.0	2
16	NUMERICAL SIMULATIONS OF THE MAGNETIC RAYLEIGH-TAYLOR INSTABILITY IN THE KIPPENHAHN-SCHLÃœTER PROMINENCE MODEL. I. FORMATION OF UPFLOWS. Astrophysical Journal, 2012, 746, 120.	1.6	88
17	FIRST SDO /AIA OBSERVATION OF SOLAR PROMINENCE FORMATION FOLLOWING AN ERUPTION: MAGNETIC DIPS AND SUSTAINED CONDENSATION AND DRAINAGE. Astrophysical Journal Letters, 2012, 745, L21.	3.0	93
18	Design and fabrication of the near-ultraviolet birefringent Solc filter for the NASA IRIS solar physics mission. , 2012, , .		6

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19	SDO /AIA DETECTION OF SOLAR PROMINENCE FORMATION WITHIN A CORONAL CAVITY. Astrophysical Journal Letters, 2012, 758, L37.	3.0	60
20	NUMERICAL SIMULATIONS OF THE MAGNETIC RAYLEIGH-TAYLOR INSTABILITY IN THE KIPPENHAHN-SCHLÃœTER PROMINENCE MODEL. II. RECONNECTION-TRIGGERED DOWNFLOWS. Astrophysical Journal, 2012, 756, 110.	1.6	51
21	THE HYDROMAGNETIC INTERIOR OF A SOLAR QUIESCENT PROMINENCE. I. COUPLING BETWEEN FORCE BALANCE AND STEADY ENERGY TRANSPORT. Astrophysical Journal, 2012, 755, 34.	1.6	31
22	The interface region imaging spectrograph for the IRIS Small Explorer mission. Proceedings of SPIE, 2012, , .	0.8	7
23	CHROMOSPHERIC JET AND GROWING â€œLOOPâ€•OBSERVED BYHINODE: NEW EVIDENCE OF FAN-SPINE MAGNETIC TOPOLOGY RESULTING FROM FLUX EMERGENCE. Astrophysical Journal, 2011, 728, 103.	1.6	77
24	NUMERICAL SIMULATIONS OF THE MAGNETIC RAYLEIGH-TAYLOR INSTABILITY IN THE KIPPENHAHN-SCHLÃœTER PROMINENCE MODEL. Astrophysical Journal Letters, 2011, 736, L1.	3.0	64
25	Magneto-thermal convection in solar prominences. Nature, 2011, 472, 197-200.	13.7	117
26	Acoustic Events in the Solar Atmosphere. IEEE Transactions on Plasma Science, 2011, 39, 2706-2707.	0.6	0
27	QUIESCENT PROMINENCE DYNAMICS OBSERVED WITH THE HINODE SOLAR OPTICAL TELESCOPE. I. TURBULENT UPFLOW PLUMES. Astrophysical Journal, 2010, 716, 1288-1307.	1.6	188
28	A RISING COOL COLUMN AS A SIGNATURE OF HELICAL FLUX EMERGENCE AND FORMATION OF PROMINENCE AND CORONAL CAVITY. Astrophysical Journal, 2010, 719, 583-590.	1.6	24
29	PROMINENCE FORMATION ASSOCIATED WITH AN EMERGING HELICAL FLUX ROPE. Astrophysical Journal, 2009, 697, 913-922.	1.6	78
30	AN INTRIGUING CHROMOSPHERIC JET OBSERVED BY HINODE : FINE STRUCTURE KINEMATICS AND EVIDENCE OF UNWINDING TWISTS. Astrophysical Journal, 2009, 707, L37-L41.	1.6	80
31	Hinode SOT Observations of Solar Quiescent Prominence Dynamics. Astrophysical Journal, 2008, 676, L89-L92.	1.6	223
32	Emergence of a Helical Flux Rope under an Active Region Prominence. Astrophysical Journal, 2008, 673, L215-L218.	1.6	143
33	Formation of Solar Magnetic Flux Tubes with Kilogauss Field Strength Induced by Convective Instability. Astrophysical Journal, 2008, 677, L145-L147.	1.6	89
34	HinodeObservations of Magnetic Elements in Internetwork Areas. Astrophysical Journal, 2008, 684, 1469-1476.	1.6	71
35	Hinode Observations of Horizontal Quiet Sun Magnetic Flux and the â€œHidden Turbulent Magnetic Fluxâ€• Publication of the Astronomical Society of Japan, 2007, 59, S571-S576.	1.0	49
36	Initial Helioseismic Observations by Hinode/SOT. Publication of the Astronomical Society of Japan, 2007, 59, S637-S641.	1.0	27

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37	Hinode Observations of the Onset Stage of a Solar Filament Eruption. Publication of the Astronomical Society of Japan, 2007, 59, S823-S829.	1.0	26
38	Chromospheric Anemone Jets as Evidence of Ubiquitous Reconnection. Science, 2007, 318, 1591-1594.	6.0	336
39	Formation Process of a Light Bridge Revealed with the Hinode Solar Optical Telescope. Publication of the Astronomical Society of Japan, 2007, 59, S577-S584.	1.0	50
40	Flare Ribbons Observed with G-band and Fe I 6302â€‰Ã… Filters of the Solar Optical Telescope on Board Hinode. Publication of the Astronomical Society of Japan, 2007, 59, S807-S813.	1.0	73
41	Coronal Transverse Magnetohydrodynamic Waves in a Solar Prominence. Science, 2007, 318, 1577-1580.	6.0	325
42	Small-Scale Jetlike Features in Penumbral Chromospheres. Science, 2007, 318, 1594-1597.	6.0	149
43	An HÎ± Surge Provoked by Moving Magnetic Features near an Emerging Flux Region. Astrophysical Journal, 2007, 656, 1197-1207.	1.6	42
44	Contrast Analysis of Solar Faculae and Magnetic Bright Points. Astrophysical Journal, 2007, 661, 1272-1288.	1.6	51
45	The visible-light broad-band imager for ATST: preliminary design. , 2006, , .		0
46	Horizontal and Vertical Flow Structure in Emerging Flux Regions. Publication of the Astronomical Society of Japan, 2006, 58, 407-421.	1.0	8
47	Thin Threads of Solar Filaments. Solar Physics, 2005, 226, 239-254.	1.0	206
48	Solar magnetic elements at 0â€‰$arcs$1 resolution. Astronomy and Astrophysics, 2005, 435, 327-337.	2.1	56
49	Solar magnetic elements at 0$arcs$1 resolution. Astronomy and Astrophysics, 2004, 428, 613-628.	2.1	118
50	The Observation of Sunspot Light-Bridge Structure and Dynamics. Astrophysical Journal, 2003, 589, L117-L121.	1.6	65
51	A study of the causal relationship between the emergence of a twisted magnetic flux rope and a small HÎ±two-ribbon flare. Astronomy and Astrophysics, 2003, 411, 273-290.	2.1	10
52	On the Relation of Gâ€Band Bright Points to the Photospheric Magnetic Field. Astrophysical Journal, 2001, 553, 449-469.	1.6	141
53	Dynamics of the Solar Chromosphere. II. CaiiH2Vand K2VGrains versus Internetwork Fields. Astrophysical Journal, 1999, 517, 1013-1033.	1.6	83
54	Preparation of a Dual Wavelength Sequence of Highâ€Resolution Solar Photospheric Images Using Phase Diversity. Astrophysical Journal, 1998, 495, 965-972.	1.6	45

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55	Measurements of Solar Magnetic Element Dispersal. Astrophysical Journal, 1998, 506, 439-449.	1.6	86
56	On the Dynamics of Small-Scale Solar Magnetic Elements. Astrophysical Journal, 1996, 463, 365.	1.6	185
57	New Observations of Subarcsecond Photospheric Bright Points. Astrophysical Journal, 1995, 454, 531.	1.6	135