

Thomas Berger

List of Publications by Year in descending order

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57
papers

3,989
citations

117625

34
h-index

155660

55
g-index

61
all docs

61
docs citations

61
times ranked

1310
citing authors

#	ARTICLE	IF	CITATIONS
1	Chromospheric Anemone Jets as Evidence of Ubiquitous Reconnection. <i>Science</i> , 2007, 318, 1591-1594.	12.6	336
2	Coronal Transverse Magnetohydrodynamic Waves in a Solar Prominence. <i>Science</i> , 2007, 318, 1577-1580.	12.6	325
3	<i>Hinode</i> SOT Observations of Solar Quiescent Prominence Dynamics. <i>Astrophysical Journal</i> , 2008, 676, L89-L92.	4.5	223
4	Thin Threads of Solar Filaments. <i>Solar Physics</i> , 2005, 226, 239-254.	2.5	206
5	QUIESCENT PROMINENCE DYNAMICS OBSERVED WITH THE HINODE SOLAR OPTICAL TELESCOPE. I. TURBULENT UPFLOW PLUMES. <i>Astrophysical Journal</i> , 2010, 716, 1288-1307.	4.5	188
6	On the Dynamics of Small-Scale Solar Magnetic Elements. <i>Astrophysical Journal</i> , 1996, 463, 365.	4.5	185
7	Small-Scale Jetlike Features in Penumbra Chromospheres. <i>Science</i> , 2007, 318, 1594-1597.	12.6	149
8	Emergence of a Helical Flux Rope under an Active Region Prominence. <i>Astrophysical Journal</i> , 2008, 673, L215-L218.	4.5	143
9	On the Relation of G δ Band Bright Points to the Photospheric Magnetic Field. <i>Astrophysical Journal</i> , 2001, 553, 449-469.	4.5	141
10	New Observations of Subarcsecond Photospheric Bright Points. <i>Astrophysical Journal</i> , 1995, 454, 531.	4.5	135
11	Solar magnetic elements at 0.1 resolution. <i>Astronomy and Astrophysics</i> , 2004, 428, 613-628.	5.1	118
12	Magneto-thermal convection in solar prominences. <i>Nature</i> , 2011, 472, 197-200.	27.8	117
13	FIRST <i>SDO</i> /AIA OBSERVATION OF SOLAR PROMINENCE FORMATION FOLLOWING AN ERUPTION: MAGNETIC DIPS AND SUSTAINED CONDENSATION AND DRAINAGE. <i>Astrophysical Journal Letters</i> , 2012, 745, L21.	8.3	93
14	Formation of Solar Magnetic Flux Tubes with Kilogauss Field Strength Induced by Convective Instability. <i>Astrophysical Journal</i> , 2008, 677, L145-L147.	4.5	89
15	NUMERICAL SIMULATIONS OF THE MAGNETIC RAYLEIGH-TAYLOR INSTABILITY IN THE KIPPENHAHN-SCHLÖTER PROMINENCE MODEL. I. FORMATION OF UPFLOWS. <i>Astrophysical Journal</i> , 2012, 746, 120.	4.5	88
16	Measurements of Solar Magnetic Element Dispersal. <i>Astrophysical Journal</i> , 1998, 506, 439-449.	4.5	86
17	Dynamics of the Solar Chromosphere. II. Ca II H&K Grains versus Internetwork Fields. <i>Astrophysical Journal</i> , 1999, 517, 1013-1033.	4.5	83
18	AN INTRIGUING CHROMOSPHERIC JET OBSERVED BY <i>HINODE</i> : FINE STRUCTURE KINEMATICS AND EVIDENCE OF UNWINDING TWISTS. <i>Astrophysical Journal</i> , 2009, 707, L37-L41.	4.5	80

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19	PROMINENCE FORMATION ASSOCIATED WITH AN EMERGING HELICAL FLUX ROPE. <i>Astrophysical Journal</i> , 2009, 697, 913-922.	4.5	78
20	CHROMOSPHERIC JET AND GROWING α -LOOP OBSERVED BY <i>Hinode</i> : NEW EVIDENCE OF FAN-SPINE MAGNETIC TOPOLOGY RESULTING FROM FLUX EMERGENCE. <i>Astrophysical Journal</i> , 2011, 728, 103.	4.5	77
21	Flare Ribbons Observed with G-band and Fe I 6302 \AA ... Filters of the Solar Optical Telescope on Board <i>Hinode</i> . <i>Publication of the Astronomical Society of Japan</i> , 2007, 59, S807-S813.	2.5	73
22	<i>Hinode</i> Observations of Magnetic Elements in Internetwork Areas. <i>Astrophysical Journal</i> , 2008, 684, 1469-1476.	4.5	71
23	The Observation of Sunspot Light-Bridge Structure and Dynamics. <i>Astrophysical Journal</i> , 2003, 589, L117-L121.	4.5	65
24	Critical Science Plan for the Daniel K. Inouye Solar Telescope (DKIST). <i>Solar Physics</i> , 2021, 296, 1.	2.5	65
25	NUMERICAL SIMULATIONS OF THE MAGNETIC RAYLEIGH-TAYLOR INSTABILITY IN THE KIPPENHAHN-SCHLÖTER PROMINENCE MODEL. <i>Astrophysical Journal Letters</i> , 2011, 736, L1.	8.3	64
26	<i>SDO</i> /AIA DETECTION OF SOLAR PROMINENCE FORMATION WITHIN A CORONAL CAVITY. <i>Astrophysical Journal Letters</i> , 2012, 758, L37.	8.3	60
27	Solar magnetic elements at $0.1''$ resolution. <i>Astronomy and Astrophysics</i> , 2005, 435, 327-337.	5.1	56
28	Contrast Analysis of Solar Faculae and Magnetic Bright Points. <i>Astrophysical Journal</i> , 2007, 661, 1272-1288.	4.5	51
29	NUMERICAL SIMULATIONS OF THE MAGNETIC RAYLEIGH-TAYLOR INSTABILITY IN THE KIPPENHAHN-SCHLÖTER PROMINENCE MODEL. II. RECONNECTION-TRIGGERED DOWNFLOWS. <i>Astrophysical Journal</i> , 2012, 756, 110.	4.5	51
30	Formation Process of a Light Bridge Revealed with the <i>Hinode</i> Solar Optical Telescope. <i>Publication of the Astronomical Society of Japan</i> , 2007, 59, S577-S584.	2.5	50
31	<i>Hinode</i> Observations of Horizontal Quiet Sun Magnetic Flux and the α -Hidden Turbulent Magnetic Flux. <i>Publication of the Astronomical Society of Japan</i> , 2007, 59, S571-S576.	2.5	49
32	Preparation of a Dual Wavelength Sequence of High-Resolution Solar Photospheric Images Using Phase Diversity. <i>Astrophysical Journal</i> , 1998, 495, 965-972.	4.5	45
33	An $H\alpha$ Surge Provoked by Moving Magnetic Features near an Emerging Flux Region. <i>Astrophysical Journal</i> , 2007, 656, 1197-1207.	4.5	42
34	Quiescent Prominence Dynamics Observed with the <i>Hinode</i> Solar Optical Telescope. II. Prominence Bubble Boundary Layer Characteristics and the Onset of a Coupled Kelvin-Helmholtz-Rayleigh-Taylor Instability. <i>Astrophysical Journal</i> , 2017, 850, 60.	4.5	35
35	THE HYDROMAGNETIC INTERIOR OF A SOLAR QUIESCENT PROMINENCE. I. COUPLING BETWEEN FORCE BALANCE AND STEADY ENERGY TRANSPORT. <i>Astrophysical Journal</i> , 2012, 755, 34.	4.5	31
36	Initial Helioseismic Observations by <i>Hinode</i> /SOT. <i>Publication of the Astronomical Society of Japan</i> , 2007, 59, S637-S641.	2.5	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.	2.5	26
38	FIRST HIGH-RESOLUTION SPECTROSCOPIC OBSERVATIONS OF AN ERUPTING PROMINENCE WITHIN A CORONAL MASS EJECTION BY THE<i>INTERFACE REGION IMAGING SPECTROGRAPH</i>(<i>IRIS</i>).	4.5	26
39	A RISING COOL COLUMN AS A SIGNATURE OF HELICAL FLUX EMERGENCE AND FORMATION OF PROMINENCE AND CORONAL CAVITY. Astrophysical Journal, 2010, 719, 583-590.	4.5	24
40	Flying Through Uncertainty. Space Weather, 2020, 18, e2019SW002373.	3.7	22
41	Leveraging the mathematics of shape for solar magnetic eruption prediction. Journal of Space Weather and Space Climate, 2020, 10, 13.	3.3	18
42	Measuring the Magnetic Origins of Solar Flares, Coronal Mass Ejections, and Space Weather. Astrophysical Journal, 2021, 917, 27.	4.5	15
43	A study of the causal relationship between the emergence of a twisted magnetic flux rope and a small H α -two-ribbon flare. Astronomy and Astrophysics, 2003, 411, 273-290.	5.1	10
44	Calibrating GONG Magnetograms with End-to-End Instrument Simulation III: Comparison, Calibration, and Results. Solar Physics, 2020, 295, 1.	2.5	10
45	Decreasing False-alarm Rates in CNN-based Solar Flare Prediction Using SDO/HMI Data. Astrophysical Journal, Supplement Series, 2022, 260, 9.	7.7	10
46	Horizontal and Vertical Flow Structure in Emerging Flux Regions. Publication of the Astronomical Society of Japan, 2006, 58, 407-421.	2.5	8
47	Calibrating GONG Magnetograms with End-to-end Instrument Simulation I: Background, the GONG Instrument, and End-to-end Simulation. Solar Physics, 2020, 295, 1.	2.5	8
48	The interface region imaging spectrograph for the IRIS Small Explorer mission. Proceedings of SPIE, 2012, , .	0.8	7
49	Design and fabrication of the near-ultraviolet birefringent Solc filter for the NASA IRIS solar physics mission. , 2012, , .		6
50	Calibrating GONG Magnetograms with End-to-End Instrument Simulation II: Theory of Calibration. Solar Physics, 2020, 295, 1.	2.5	6
51	Toward Accurate Physicsâ€Based Specifications of Neutral Density Using GNSSâ€Enabled Small Satellites. Space Weather, 2021, 19, e2021SW002736.	3.7	5
52	Solar Prominence Fine Structure and Dynamics. Proceedings of the International Astronomical Union, 2013, 8, 15-29.	0.0	4
53	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
54	Prominence Science with ATST Instrumentation. Proceedings of the International Astronomical Union, 2013, 8, 362-369.	0.0	2

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55	Feasibility of Near-Real-Time GOLD Data Products. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027819.	2.4	2
56	The visible-light broad-band imager for ATST: preliminary design. , 2006, , .		0
57	Acoustic Events in the Solar Atmosphere. IEEE Transactions on Plasma Science, 2011, 39, 2706-2707.	1.3	0