

Viggo Hansteen

List of Publications by Year in descending order

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44
papers

5,148
citations

186265

28
h-index

265206

42
g-index

44
all docs

44
docs citations

44
times ranked

1827
citing authors

#	ARTICLE	IF	CITATIONS
1	The Interface Region Imaging Spectrograph (IRIS). <i>Solar Physics</i> , 2014, 289, 2733-2779.	2.5	948
2	Chromospheric Alfvénic Waves Strong Enough to Power the Solar Wind. <i>Science</i> , 2007, 318, 1574-1577.	12.6	697
3	Alfvénic waves with sufficient energy to power the quiet solar corona and fast solar wind. <i>Nature</i> , 2011, 475, 477-480.	27.8	471
4	The stellar atmosphere simulation code <i>Bifrost</i> . <i>Astronomy and Astrophysics</i> , 2011, 531, A154.	5.1	354
5	The Origins of Hot Plasma in the Solar Corona. <i>Science</i> , 2011, 331, 55-58.	12.6	316
6	Dynamic Fibrils Are Driven by Magnetoacoustic Shocks. <i>Astrophysical Journal</i> , 2006, 647, L73-L76.	4.5	237
7	High-Resolution Observations and Modeling of Dynamic Fibrils. <i>Astrophysical Journal</i> , 2007, 655, 624-641.	4.5	185
8	UBIQUITOUS TORSIONAL MOTIONS IN TYPE II SPICULES. <i>Astrophysical Journal Letters</i> , 2012, 752, L12.	8.3	151
9	On the generation of solar spicules and Alfvénic waves. <i>Science</i> , 2017, 356, 1269-1272.	12.6	149
10	Slow Solar Wind: Observations and Modeling. <i>Space Science Reviews</i> , 2016, 201, 55-108.	8.1	147
11	Dynamics of solar coronal loops. <i>Astronomy and Astrophysics</i> , 2004, 424, 289-300.	5.1	123
12	ON REDSHIFTS AND BLUESHIFTS IN THE TRANSITION REGION AND CORONA. <i>Astrophysical Journal</i> , 2010, 718, 1070-1078.	4.5	119
13	Radiative transfer with scattering for domain-decomposed 3D MHD simulations of cool stellar atmospheres. <i>Astronomy and Astrophysics</i> , 2010, 517, A49.	5.1	118
14	TWO-DIMENSIONAL RADIATIVE MAGNETOHYDRODYNAMIC SIMULATIONS OF THE IMPORTANCE OF PARTIAL IONIZATION IN THE CHROMOSPHERE. <i>Astrophysical Journal</i> , 2012, 753, 161.	4.5	99
15	OBSERVING CORONAL NANOFLARES IN ACTIVE REGION MOSS. <i>Astrophysical Journal Letters</i> , 2013, 770, L1.	8.3	99
16	THE FORMATION OF <i>IRIS</i> DIAGNOSTICS. IV. THE Mg ii TRIPLET LINES AS A NEW DIAGNOSTIC FOR LOWER CHROMOSPHERIC HEATING. <i>Astrophysical Journal</i> , 2015, 806, 14.	4.5	84
17	Bombs and Flares at the Surface and Lower Atmosphere of the Sun. <i>Astrophysical Journal</i> , 2017, 839, 22.	4.5	80
18	ON THE ORIGIN OF THE TYPE II SPICULES: DYNAMIC THREE-DIMENSIONAL MHD SIMULATIONS. <i>Astrophysical Journal</i> , 2011, 736, 9.	4.5	66

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19	Modeling of EIS Spectrum Drift from Instrumental Temperatures. <i>Solar Physics</i> , 2010, 266, 209-223.	2.5	62
20	Two-dimensional Radiative Magnetohydrodynamic Simulations of Partial Ionization in the Chromosphere. II. Dynamics and Energetics of the Low Solar Atmosphere. <i>Astrophysical Journal</i> , 2017, 847, 36.	4.5	59
21	Intermittent Reconnection and Plasmoids in UV Bursts in the Low Solar Atmosphere. <i>Astrophysical Journal Letters</i> , 2017, 851, L6.	8.3	58
22	A New View of the Solar Interface Region from the Interface Region Imaging Spectrograph (IRIS). <i>Solar Physics</i> , 2021, 296, 1.	2.5	51
23	NON-EQUILIBRIUM IONIZATION EFFECTS ON THE DENSITY LINE RATIO DIAGNOSTICS OF O IV. <i>Astrophysical Journal</i> , 2013, 767, 43.	4.5	49
24	The Multi-slit Approach to Coronal Spectroscopy with the Multi-slit Solar Explorer (MUSE). <i>Astrophysical Journal</i> , 2020, 888, 3.	4.5	45
25	HIGH SPATIAL RESOLUTION Fe xii OBSERVATIONS OF SOLAR ACTIVE REGIONS. <i>Astrophysical Journal</i> , 2016, 827, 99.	4.5	37
26	SYNTHESIZED SPECTRA OF OPTICALLY THIN EMISSION LINES PRODUCED BY THE BIFROST STELLAR ATMOSPHERE CODE, INCLUDING NONEQUILIBRIUM IONIZATION EFFECTS: A STUDY OF THE INTENSITY, NONTHERMAL LINE WIDTHS, AND DOPPLER SHIFTS. <i>Astrophysical Journal</i> , 2015, 802, 5.	4.5	36
27	ON THE MISALIGNMENT BETWEEN CHROMOSPHERIC FEATURES AND THE MAGNETIC FIELD ON THE SUN. <i>Astrophysical Journal Letters</i> , 2016, 831, L1.	8.3	32
28	The role of partial ionization effects in the chromosphere. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140268.	3.4	31
29	A DETAILED COMPARISON BETWEEN THE OBSERVED AND SYNTHESIZED PROPERTIES OF A SIMULATED TYPE II SPICULE. <i>Astrophysical Journal</i> , 2013, 771, 66.	4.5	28
30	Small-scale Magnetic Flux Emergence in the Quiet Sun. <i>Astrophysical Journal Letters</i> , 2018, 859, L26.	8.3	25
31	Probing the Physics of the Solar Atmosphere with the Multi-slit Solar Explorer (MUSE). I. Coronal Heating. <i>Astrophysical Journal</i> , 2022, 926, 52.	4.5	25
32	Probing the Physics of the Solar Atmosphere with the Multi-slit Solar Explorer (MUSE). II. Flares and Eruptions. <i>Astrophysical Journal</i> , 2022, 926, 53.	4.5	24
33	Multi-component Decomposition of Astronomical Spectra by Compressed Sensing. <i>Astrophysical Journal</i> , 2019, 882, 13.	4.5	22
34	Sources of Solar Wind at Solar Minimum: Constraints from Composition Data. <i>Space Science Reviews</i> , 2012, 172, 41-55.	8.1	20
35	CHROMOSPHERIC AND CORONAL WAVE GENERATION IN A MAGNETIC FLUX SHEATH. <i>Astrophysical Journal</i> , 2016, 827, 7.	4.5	20
36	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

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37	Self-consistent 3D radiative magnetohydrodynamic simulations of coronal rain formation and evolution. <i>Astronomy and Astrophysics</i> , 2020, 639, A20.	5.1	16
38	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
39	Modeling Repeatedly Flaring τ Sunspots. <i>Physical Review Letters</i> , 2016, 116, 101101.	7.8	11
40	IRIS Observations of the Low-atmosphere Counterparts of Active Region Outflows. <i>Astrophysical Journal</i> , 2020, 903, 68.	4.5	9
41	High-resolution observations of the solar photosphere, chromosphere, and transition region. <i>Astronomy and Astrophysics</i> , 2020, 641, A146.	5.1	8
42	Detailed Description of the Collision Frequency in the Solar Atmosphere. <i>Astrophysical Journal</i> , 2022, 933, 205.	4.5	7
43	Thermal forces and the coronal helium abundance. <i>AIP Conference Proceedings</i> , 2003, , .	0.4	0
44	Observations at $1''$ Resolution of the Dynamic Evolution of Magnetic Elements. <i>Proceedings of the International Astronomical Union</i> , 2004, 2004, 207-210.	0.0	0