

Philip Judge

List of Publications by Year in descending order

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69
papers

1,688
citations

236925

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docs citations

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times ranked

1185
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient and Automated Inversions of Magnetically Sensitive Forbidden Coronal Lines: CLEDB â€“ The Coronal Line Emission DataBase Magnetic Field Inversion Algorithm. <i>Solar Physics</i> , 2022, 297, .	2.5	3
2	A Spectroscopic Survey of Infrared 1â€“4 Î¼m Spectra in Regions of Prominent Solar Coronal Emission Lines of Fe XIII, Si X, and Si IX. <i>Astrophysical Journal</i> , 2022, 932, 22.	4.5	2
3	On Single-point Inversions of Magnetic Dipole Lines in the Corona. <i>Astrophysical Journal</i> , 2021, 912, 18.	4.5	5
4	Critical Science Plan for the Daniel K. Inouye Solar Telescope (DKIST). <i>Solar Physics</i> , 2021, 296, 1.	2.5	65
5	Magnetic Connections across the Chromosphereâ€“Corona Transition Region. <i>Astrophysical Journal</i> , 2021, 914, 70.	4.5	10
6	Measuring the Magnetic Origins of Solar Flares, Coronal Mass Ejections, and Space Weather. <i>Astrophysical Journal</i> , 2021, 917, 27.	4.5	15
7	Atomic Structure Calculations of LandÃ© g Factors of Astrophysical Interest with Direct Applications for Solar Coronal Magnetometry. <i>Astrophysical Journal</i> , 2021, 923, 186.	4.5	6
8	The enduring mystery of the solar corona. <i>Physics World</i> , 2021, 34, 38-42.	0.0	1
9	Some thoughts on emission-line spectroscopy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 576-579.	4.4	3
10	Inevitable consequences of ionâ€“neutral damping of intermediate MHD waves in Sun-like stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 2018-2029.	4.4	1
11	Sun-like Stars Shed Light on Solar Climate Forcing. <i>Astrophysical Journal</i> , 2020, 891, 96.	4.5	6
12	Dynamics of Late-stage Reconnection in the 2017 September 10 Solar Flare. <i>Astrophysical Journal</i> , 2020, 900, 192.	4.5	13
13	New Light on an Old Problem of the Cores of Solar Resonance Lines. <i>Astrophysical Journal</i> , 2020, 901, 32.	4.5	9
14	A New Facility for Airborne Solar Astronomy: NASAâ€™s WB-57 at the 2017 Total Solar Eclipse. <i>Astrophysical Journal</i> , 2020, 895, 131.	4.5	1
15	High-cadence Visible and Infrared Spectra of the Sun during Eclipse. <i>Astrophysical Journal</i> , 2019, 877, 10.	4.5	5
16	Multiwavelength High-resolution Observations of Chromospheric Swirls in the Quiet Sun. <i>Astrophysical Journal</i> , 2019, 881, 83.	4.5	20
17	Measuring solar surface magnetic fields without ambiguity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 5542-5552.	4.4	0
18	Spectropolarimetric Insight into Plasma Sheet Dynamics of a Solar Flare. <i>Astrophysical Journal Letters</i> , 2019, 887, L34.	8.3	20

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19	Solar Eclipse Observations from the Ground and Air from 0.31 to 5.5 Microns. Solar Physics, 2019, 294, 1.	2.5	10
20	Spectroscopy and Atomic Physics. , 2019, , 127-155.		1
21	Discovery of New Coronal Lines at 2.843 and 2.853 $\hat{1}$ / ₄ m. Astrophysical Journal Letters, 2018, 856, L29.	8.3	14
22	Formation of the UV Spectrum of Molecular Hydrogen in the Sun. Astrophysical Journal, 2018, 855, 134.	4.5	9
23	An Explanation of Remarkable Emission-line Profiles in Post-flare Coronal Rain. Astrophysical Journal, 2017, 842, 15.	4.5	22
24	Are All Flare Ribbons Simply Connected to the Corona? [*] . Astrophysical Journal, 2017, 838, 138.	4.5	6
25	Solar Spectral Lines with Special Polarization Properties for the Calibration of Instrument Polarization. Astrophysical Journal, 2017, 848, 82.	4.5	3
26	The Magnetic Future of the Sun. Astrophysical Journal, 2017, 848, 43.	4.5	8
27	A Novel Strategy to Seek Biosignatures at Enceladus and Europa. Astrobiology, 2017, 17, 852-861.	3.0	9
28	Efficient Radiative Transfer for Dynamically Evolving Stratified Atmospheres*. Astrophysical Journal, 2017, 851, 5.	4.5	8
29	VECTOR MAGNETIC FIELD MEASUREMENTS ALONG A COOLED STEREO-IMAGED CORONAL LOOP. Astrophysical Journal, 2016, 833, 5.	4.5	35
30	ON THE FINE STRUCTURE SPLITTING OF THE $3p^{⁴3d^{⁴D^{_{5/2}}$ AND $3p^{⁴3d^{⁴D^{_{7/2}}$ LEVELS OF Fe x. Astrophysical Journal, 2016, 833, 185.	4.5	11
31	ON HELIUM 1083 nm LINE POLARIZATION DURING THE IMPULSIVE PHASE OF AN X1 FLARE. Astrophysical Journal, 2015, 814, 100.	4.5	21
32	Photon Mean Free Paths, Scattering, and Ever-Increasing Telescope Resolution. Solar Physics, 2015, 290, 979-996.	2.5	9
33	UV SPECTRA, BOMBS, AND THE SOLAR ATMOSPHERE. Astrophysical Journal, 2015, 808, 116.	4.5	43
34	A FLARE OBSERVED IN CORONAL, TRANSITION REGION, AND HELIUM I 10830 Å... EMISSIONS. Astrophysical Journal, 2014, 793, 87.	4.5	26
35	THE SOLAR CHROMOSPHERE OBSERVED AT 1 Hz AND 0.â€³2 RESOLUTION. Astrophysical Journal, 2014, 785, 109.	4.5	29
36	ON THE ORIGIN OF A SUNQUAKE DURING THE 2014 MARCH 29 X1 FLARE. Astrophysical Journal, 2014, 796, 85.	4.5	34

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37	THE CONNECTION OF TYPE II SPICULES TO THE CORONA. <i>Astrophysical Journal</i> , 2012, 746, 158.	4.5	24
38	RADIATING CURRENT SHEETS IN THE SOLAR CHROMOSPHERE. <i>Astrophysical Journal</i> , 2012, 751, 75.	4.5	24
39	EVIDENCE FOR SHEET-LIKE ELEMENTARY STRUCTURES IN THE SUN'S ATMOSPHERE?. <i>Astrophysical Journal Letters</i> , 2012, 755, L11.	8.3	32
40	Students, Scientists, and Family Commemorate the Life and Diverse Works of Jack Eddy. <i>Eos</i> , 2011, 92, 56-56.	0.1	0
41	THERMAL FINE STRUCTURE AND MAGNETIC FIELDS IN THE SOLAR ATMOSPHERE: SPICULES AND FIBRILS. <i>Astrophysical Journal Letters</i> , 2011, 730, L4.	8.3	46
42	Solar and stellar activity: diagnostics and indices. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 15-26.	0.0	4
43	FABRY-ROT VERSUS SLIT SPECTROPOLARIMETRY OF PORES AND ACTIVE NETWORK: ANALYSIS OF IBIS AND HINODE DATA. <i>Astrophysical Journal</i> , 2010, 710, 1486-1497.	4.5	19
44	CORONAL EMISSION LINES AS THERMOMETERS. <i>Astrophysical Journal</i> , 2010, 708, 1238-1240.	4.5	28
45	A CHROMOSPHERIC CONUNDRUM?. <i>Astrophysical Journal</i> , 2010, 720, 776-785.	4.5	6
46	ON THE SOLAR CHROMOSPHERE OBSERVED AT THE LIMB WITH HINODE. <i>Astrophysical Journal</i> , 2010, 719, 469-473.	4.5	31
47	The Fainting of $\hat{\iota}$ Centauri A, Resolved. <i>Astrophysical Journal</i> , 2008, 678, L121-L124.	4.5	25
48	An Explanation of the Solar Transition Region. <i>Astrophysical Journal</i> , 2008, 683, L87-L90.	4.5	27
49	On the Magnetic Structure of the Solar Transition Region. <i>Astrophysical Journal</i> , 2008, 687, 1388-1397.	4.5	25
50	The Outer Solar Atmosphere during the Maunder Minimum: A Stellar Perspective. <i>Astrophysical Journal</i> , 2007, 663, 643-656.	4.5	39
51	Understanding the time dependence of atomic level populations in evolving plasmas. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2005, 92, 479-510.	2.3	17
52	Wavelet Phase Coherence Analysis: Application to a Quiet-Sun Magnetic Element. <i>Astrophysical Journal</i> , 2004, 617, 623-632.	4.5	145
53	Evaluation of seeing-induced cross talk in tip-tilt-corrected solar polarimetry. <i>Applied Optics</i> , 2004, 43, 3817.	2.1	26
54	On the Formation of the Resonance Lines of Helium in the Sun. <i>Astrophysical Journal</i> , 2004, 606, 1239-1257.	4.5	45

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55	On the Formation of Extreme-Ultraviolet Helium Lines in the Sun: Analysis of SOHO Data. <i>Astrophysical Journal</i> , 2004, 606, 1258-1275.	4.5	31
56	A Comparison of the Outer Atmosphere of the "Flat Activity" Star ϵ Ceti (G8 V) with the Sun (G2 V) and ϵ Centauri A (G2 V). <i>Astrophysical Journal</i> , 2004, 609, 392-406.	4.5	34
57	An Estimate of the Sun's ROSAT PSPC X-Ray Luminosities Using SNOE SXP Measurements. <i>Astrophysical Journal</i> , 2003, 593, 534-548.	4.5	95
58	On the Origin of the Basal Emission from Stellar Atmospheres: Analysis of Solar C II Lines. <i>Astrophysical Journal</i> , 2003, 597, 1158-1177.	4.5	47
59	Determination of Hyperfine-Induced Transition Rates from Observations of a Planetary Nebula. <i>Physical Review Letters</i> , 2002, 89, 281101.	7.8	60
60	A Study of Chromospheric Oscillations Using the SOHO and TRACE Spacecraft. <i>Astrophysical Journal</i> , 2001, 554, 424-444.	4.5	88
61	Spectral Lines for Polarization Measurements of the Coronal Magnetic Field. III. Atomic Data for Si IX. <i>Astrophysical Journal</i> , 2000, 540, 1114-1118.	4.5	9
62	Hyperfine Induced Transitions as Diagnostics of Isotopic Composition and Densities of Low-Density Plasmas. <i>Astrophysical Journal</i> , 1998, 500, 507-521.	4.5	76
63	SUMER Observations of the Quiet Solar Atmosphere: The Network Chromosphere and Lower Transition Region. <i>Astrophysical Journal</i> , 1997, 490, L195-L198.	4.5	46
64	Signatures of Acoustic and Magnetic Waves in Solar and Stellar Coronae. <i>Astrophysical Journal</i> , 1997, 483, 972-983.	4.5	15
65	Excitation of O I lines in the solar chromosphere. <i>Astrophysical Journal</i> , 1995, 438, 491.	4.5	11
66	The transition regions of Capella. <i>Astrophysical Journal</i> , 1995, 442, 381.	4.5	52
67	GHRS observations of cool, low-gravity star. 2: Flow and turbulent velocities in the outer atmosphere of gamma CRU CIS (M3.4 III). <i>Astrophysical Journal</i> , 1995, 444, 424.	4.5	27
68	Transition probabilities for the UV0.01 multiplet in N III. <i>Astrophysical Journal</i> , 1995, 445, 457.	4.5	21
69	Stringent limits on the ionized mass loss from A and F dwarfs. <i>Astrophysical Journal</i> , 1990, 361, 220.	4.5	25