

Carsten Denker

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,120
citations

430874

18
h-index

414414

32
g-index

59
all docs

59
docs citations

59
times ranked

760
citing authors

#	ARTICLE	IF	CITATIONS
1	The 1.5 meter solar telescope GREGOR. <i>Astronomische Nachrichten</i> , 2012, 333, 796-809.	1.2	131
2	Title is missing!. <i>Solar Physics</i> , 1999, 184, 87-102.	2.5	98
3	GRIS: The GREGOR Infrared Spectrograph. <i>Astronomische Nachrichten</i> , 2012, 333, 872-879.	1.2	93
4	Minifilament Eruption on the Quiet Sun. I. Observations at $H\pm$ Central Line. <i>Astrophysical Journal</i> , 2000, 530, 1071-1084.	4.5	79
5	Title is missing!. <i>Solar Physics</i> , 2000, 195, 333-346.	2.5	56
6	The GREGOR Fabry-Pérot Interferometer. <i>Astronomische Nachrichten</i> , 2012, 333, 880-893.	1.2	46
7	The Effects of Stellar Activity on Optical High-resolution Exoplanet Transmission Spectra. <i>Astronomical Journal</i> , 2018, 156, 189.	4.7	46
8	High-Spatial-Resolution Imaging Combining High-Order Adaptive Optics, Frame Selection, and Speckle Masking Reconstruction. <i>Solar Physics</i> , 2005, 227, 217-230.	2.5	37
9	Horizontal flow fields observed in Hinode G-band images. <i>Astronomy and Astrophysics</i> , 2012, 538, A109.	5.1	31
10	Horizontal flow fields observed in Hinode G-band images. <i>Astronomy and Astrophysics</i> , 2011, 529, A153.	5.1	29
11	Adaptive Optics at the Big Bear Solar Observatory: Instrument Description and First Observations. <i>Publications of the Astronomical Society of the Pacific</i> , 2007, 119, 170-182.	3.1	28
12	Near Real-Time Image Reconstruction. <i>Solar Physics</i> , 2001, 202, 63-70.	2.5	27
13	New Digital Magnetograph At Big Bear Solar Observatory. <i>Solar Physics</i> , 1998, 183, 1-13.	2.5	23
14	Active region fine structure observed at 0.08 arcsec resolution. <i>Astronomy and Astrophysics</i> , 2016, 596, A7.	5.1	23
15	Sunspot splitting triggering an eruptive flare. <i>Astronomy and Astrophysics</i> , 2014, 562, A110.	5.1	20
16	Giant quiescent solar filament observed with high-resolution spectroscopy. <i>Astronomy and Astrophysics</i> , 2016, 589, A84.	5.1	20
17	Horizontal flow fields observed in Hinode G-band images. <i>Astronomy and Astrophysics</i> , 2014, 563, A112.	5.1	19
18	The STIX Aspect System (SAS): The Optical Aspect System of the Spectrometer/Telescope for Imaging X-Rays (STIX) on Solar Orbiter. <i>Solar Physics</i> , 2020, 295, 1.	2.5	19

#	ARTICLE	IF	CITATIONS
19	Observational study of chromospheric heating by acoustic waves. <i>Astronomy and Astrophysics</i> , 2020, 642, A52.	5.1	19
20	Site testing for the Advanced Technology Solar Telescope. , 2006, 6267, 621.		16
21	The GREGOR Fabry-Perot interferometer: a new instrument for high-resolution solar observations. <i>Proceedings of SPIE</i> , 2010, , .	0.8	16
22	Counter-streaming flows in a giant quiet-Sun filament observed in the extreme ultraviolet. <i>Astronomy and Astrophysics</i> , 2018, 611, A64.	5.1	16
23	Image Quality in High-resolution and High-cadence Solar Imaging. <i>Solar Physics</i> , 2018, 293, 1.	2.5	14
24	Temporal evolution of arch filaments as seen in He I 10 830 Å... <i>Astronomy and Astrophysics</i> , 2018, 617, A55.	5.1	14
25	High-resolution imaging and near-infrared spectroscopy of penumbral decay. <i>Astronomy and Astrophysics</i> , 2018, 614, A2.	5.1	14
26	GREGOR solar telescope: Design and status. <i>Astronomische Nachrichten</i> , 2010, 331, 624-627.	1.2	13
27	Horizontal flows concurrent with an X2.2 flare in the active region NOAA 11158. <i>Astronomische Nachrichten</i> , 2012, 333, 125-130.	1.2	13
28	Horizontal flow fields in and around a small active region. <i>Astronomy and Astrophysics</i> , 2016, 596, A3.	5.1	13
29	Field-Dependent Adaptive Optics Correction Derived with the Spectral Ratio Technique. <i>Solar Physics</i> , 2007, 241, 411-426.	2.5	12
30	High-cadence Imaging and Imaging Spectroscopy at the GREGOR Solar Telescope – A Collaborative Research Environment for High-resolution Solar Physics. <i>Astrophysical Journal, Supplement Series</i> , 2018, 236, 5.	7.7	11
31	Two-Dimensional Spectroscopy of Photospheric Shear Flows in a Small δ Spot. <i>Solar Physics</i> , 2007, 245, 219-238.	2.5	10
32	Emergence of small-scale magnetic flux in the quiet Sun. <i>Astronomy and Astrophysics</i> , 2020, 633, A67.	5.1	10
33	Classification of High-resolution Solar H I± Spectra Using t-distributed Stochastic Neighbor Embedding. <i>Astrophysical Journal</i> , 2021, 907, 54.	4.5	10
34	Horizontal flow fields observed in Hinode G-band images. <i>Astronomy and Astrophysics</i> , 2012, 545, A92.	5.1	9
35	The Local Seeing Environment at Big Bear Solar Observatory. <i>Publications of the Astronomical Society of the Pacific</i> , 2007, 119, 793-804.	3.1	8
36	A retrospective of the GREGOR solar telescope in scientific literature. <i>Astronomische Nachrichten</i> , 2012, 333, 810-815.	1.2	8

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37	sTools – a data reduction pipeline for the GREGOR Fabry-Pérot Interferometer and the High-resolution Fast Imager at the GREGOR solar telescope. Proceedings of the International Astronomical Union, 2016, 12, 20-24.	0.0	7
38	Chromospheric Synoptic Maps of Polar Crown Filaments. Solar Physics, 2019, 294, 1.	2.5	7
39	High-resolution spectroscopy of a surge in an emerging flux region. Astronomy and Astrophysics, 2020, 639, A19.	5.1	7
40	Calibration of full-disk He I 10 830 Å... filtergrams of the Chromospheric Telescope. Astronomische Nachrichten, 2018, 339, 661-671.	1.2	6
41	Background-Subtracted Solar Activity Maps. Solar Physics, 2019, 294, 1.	2.5	6
42	The Big Bear Solar Observatory Ca II K line index for solar cycle 23. Astronomische Nachrichten, 2010, 331, 696-703.	1.2	5
43	High-resolution Spectroscopy of an Erupting Minifilament and Its Impact on the Nearby Chromosphere. Astrophysical Journal, 2020, 898, 144.	4.5	5
44	Ca II 8542 Å... brightenings induced by a solar microflare. Astronomy and Astrophysics, 2017, 608, A117.	5.1	4
45	On the extent of the moat flow in axisymmetric sunspots. Astronomische Nachrichten, 2018, 339, 268-276.	1.2	4
46	Solar H α excess during Solar Cycle 24 from full-disk filtergrams of the Chromospheric Telescope. Astronomy and Astrophysics, 2022, 661, A107.	5.1	4
47	Instrument and data analysis challenges for imaging spectropolarimetry. Astronomische Nachrichten, 2010, 331, 648-651.	1.2	3
48	High-resolution observations of extremely bright penumbral grains. Astronomische Nachrichten, 2008, 329, 773-779.	1.2	2
49	Magnetic Flux Emergence in a Coronal Hole. Solar Physics, 2020, 295, 1.	2.5	2
50	Wavelength Dependence of Image Quality Metrics and Seeing Parameters and Their Relation to Adaptive Optics Performance. Solar Physics, 2021, 296, 1.	2.5	2
51	Mini-filaments – small-scale analogues of solar eruptive events?. Proceedings of the International Astronomical Union, 2008, 4, 223-224.	0.0	1
52	Solar physics at the Einstein Tower. Astronomische Nachrichten, 2016, 337, 1105-1113.	1.2	1
53	Filigree in the Surroundings of Polar Crown and High-Latitude Filaments. Solar Physics, 2021, 296, 1.	2.5	1
54	Dynamics and connectivity of an extended arch filament system. Astronomy and Astrophysics, 2019, 629, A48.	5.1	1

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55	Tracking Downflows from the Chromosphere to the Photosphere in a Solar Arch Filament System. <i>Astrophysical Journal</i> , 2020, 890, 82.	4.5	1
56	Velocity fields in and around sunspots at the highest resolution. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 204-211.	0.0	0
57	Synoptic maps in three wavelengths of the Chromospheric Telescope. <i>Proceedings of the International Astronomical Union</i> , 2018, 14, 339-341.	0.0	0
58	Sun-as-a-star observations of the 2017 August 21 solar eclipse. <i>Proceedings of the International Astronomical Union</i> , 2019, 15, 473-480.	0.0	0
59	The magnetic structure and dynamics of a decaying active region. <i>Proceedings of the International Astronomical Union</i> , 2019, 15, 53-57.	0.0	0