

# 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	Solar H $\alpha$ excess during Solar Cycle 24 from full-disk filtergrams of the Chromospheric Telescope. <i>Astronomy and Astrophysics</i> , 2022, 661, A107.	5.1	4
2	Filigræe in the Surroundings of Polar Crown and High-Latitude Filaments. <i>Solar Physics</i> , 2021, 296, 1.	2.5	1
3	Wavelength Dependence of Image Quality Metrics and Seeing Parameters and Their Relation to Adaptive Optics Performance. <i>Solar Physics</i> , 2021, 296, 1.	2.5	2
4	Classification of High-resolution Solar H $\alpha$ Spectra Using t-distributed Stochastic Neighbor Embedding. <i>Astrophysical Journal</i> , 2021, 907, 54.	4.5	10
5	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
6	High-resolution spectroscopy of a surge in an emerging flux region. <i>Astronomy and Astrophysics</i> , 2020, 639, A19.	5.1	7
7	Magnetic Flux Emergence in a Coronal Hole. <i>Solar Physics</i> , 2020, 295, 1.	2.5	2
8	Emergence of small-scale magnetic flux in the quiet Sun. <i>Astronomy and Astrophysics</i> , 2020, 633, A67.	5.1	10
9	Observational study of chromospheric heating by acoustic waves. <i>Astronomy and Astrophysics</i> , 2020, 642, A52.	5.1	19
10	High-resolution Spectroscopy of an Erupting Minifilament and Its Impact on the Nearby Chromosphere. <i>Astrophysical Journal</i> , 2020, 898, 144.	4.5	5
11	Tracking Downflows from the Chromosphere to the Photosphere in a Solar Arch Filament System. <i>Astrophysical Journal</i> , 2020, 890, 82.	4.5	1
12	Background-Subtracted Solar Activity Maps. <i>Solar Physics</i> , 2019, 294, 1.	2.5	6
13	Chromospheric Synoptic Maps of Polar Crown Filaments. <i>Solar Physics</i> , 2019, 294, 1.	2.5	7
14	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
15	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
16	Dynamics and connectivity of an extended arch filament system. <i>Astronomy and Astrophysics</i> , 2019, 629, A48.	5.1	1
17	Image Quality in High-resolution and High-cadence Solar Imaging. <i>Solar Physics</i> , 2018, 293, 1.	2.5	14
18	Calibration of full-disk He $\lambda$ 10 830 Å... filtergrams of the Chromospheric Telescope. <i>Astronomische Nachrichten</i> , 2018, 339, 661-671.	1.2	6

#	ARTICLE	IF	CITATIONS
19	Synoptic maps in three wavelengths of the Chromospheric Telescope. Proceedings of the International Astronomical Union, 2018, 14, 339-341.	0.0	0
20	The Effects of Stellar Activity on Optical High-resolution Exoplanet Transmission Spectra. Astronomical Journal, 2018, 156, 189.	4.7	46
21	Temporal evolution of arch filaments as seen in He I 10 830 Å... Astronomy and Astrophysics, 2018, 617, A55.	5.1	14
22	High-cadence Imaging and Imaging Spectroscopy at the GREGOR Solar Telescope – A Collaborative Research Environment for High-resolution Solar Physics. Astrophysical Journal, Supplement Series, 2018, 236, 5.	7.7	11
23	On the extent of the moat flow in axisymmetric sunspots. Astronomische Nachrichten, 2018, 339, 268-276.	1.2	4
24	High-resolution imaging and near-infrared spectroscopy of penumbral decay. Astronomy and Astrophysics, 2018, 614, A2.	5.1	14
25	Counter-streaming flows in a giant quiet-Sun filament observed in the extreme ultraviolet. Astronomy and Astrophysics, 2018, 611, A64.	5.1	16
26	Ca II 8542 Å... brightenings induced by a solar microflare. Astronomy and Astrophysics, 2017, 608, A117.	5.1	4
27	Giant quiescent solar filament observed with high-resolution spectroscopy. Astronomy and Astrophysics, 2016, 589, A84.	5.1	20
28	Solar physics at the Einstein Tower. Astronomische Nachrichten, 2016, 337, 1105-1113.	1.2	1
29	Horizontal flow fields in and around a small active region. Astronomy and Astrophysics, 2016, 596, A3.	5.1	13
30	Active region fine structure observed at 0.08 arcsec resolution. Astronomy and Astrophysics, 2016, 596, A7.	5.1	23
31	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
32	Horizontal flow fields observed in Hinode G-band images. Astronomy and Astrophysics, 2014, 563, A112.	5.1	19
33	Sunspot splitting triggering an eruptive flare. Astronomy and Astrophysics, 2014, 562, A110.	5.1	20
34	The 1.5 meter solar telescope GREGOR. Astronomische Nachrichten, 2012, 333, 796-809.	1.2	131
35	A retrospective of the GREGOR solar telescope in scientific literature. Astronomische Nachrichten, 2012, 333, 810-815.	1.2	8
36	The GREGOR Fabry-Pérot Interferometer. Astronomische Nachrichten, 2012, 333, 880-893.	1.2	46

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37	GRIS: The GREGOR Infrared Spectrograph. <i>Astronomische Nachrichten</i> , 2012, 333, 872-879.	1.2	93
38	Horizontal flow fields observed in Hinode G-band images. <i>Astronomy and Astrophysics</i> , 2012, 538, A109.	5.1	31
39	Horizontal flow fields observed in Hinode G-band images. <i>Astronomy and Astrophysics</i> , 2012, 545, A92.	5.1	9
40	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
41	Horizontal flow fields observed in Hinode G-band images. <i>Astronomy and Astrophysics</i> , 2011, 529, A153.	5.1	29
42	The GREGOR Fabry-Perot interferometer: a new instrument for high-resolution solar observations. <i>Proceedings of SPIE</i> , 2010, , .	0.8	16
43	GREGOR solar telescope: Design and status. <i>Astronomische Nachrichten</i> , 2010, 331, 624-627.	1.2	13
44	Instrument and data analysis challenges for imaging spectropolarimetry. <i>Astronomische Nachrichten</i> , 2010, 331, 648-651.	1.2	3
45	The Big Bear Solar Observatory Ca $\text{H}$ & K line index for solar cycle 23. <i>Astronomische Nachrichten</i> , 2010, 331, 696-703.	1.2	5
46	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
47	High-resolution observations of extremely bright penumbral grains. <i>Astronomische Nachrichten</i> , 2008, 329, 773-779.	1.2	2
48	Mini-filaments – small-scale analogues of solar eruptive events?. <i>Proceedings of the International Astronomical Union</i> , 2008, 4, 223-224.	0.0	1
49	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
50	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
51	Field-Dependent Adaptive Optics Correction Derived with the Spectral Ratio Technique. <i>Solar Physics</i> , 2007, 241, 411-426.	2.5	12
52	Two-Dimensional Spectroscopy of Photospheric Shear Flows in a Small $\hat{\Gamma}$ Spot. <i>Solar Physics</i> , 2007, 245, 219-238.	2.5	10
53	Site testing for the Advanced Technology Solar Telescope. , 2006, 6267, 621.		16
54	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

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55	Near Real-Time Image Reconstruction. Solar Physics, 2001, 202, 63-70.	2.5	27
56	Title is missing!. Solar Physics, 2000, 195, 333-346.	2.5	56
57	Minifilament Eruption on the Quiet Sun. I. Observations at H $\alpha$ ± Central Line. Astrophysical Journal, 2000, 530, 1071-1084.	4.5	79
58	Title is missing!. Solar Physics, 1999, 184, 87-102.	2.5	98
59	New Digital Magnetograph At Big Bear Solar Observatory. Solar Physics, 1998, 183, 1-13.	2.5	23