Christoph Kuckein

List of Publications by Year
in descending order

55 papers	764 citations	567281 15 h-index	552781 26 g-index
55 all docs	55 docs citations	55 times ranked	681 citing authors

#	Article	IF	Citations
1	An active region filament studied simultaneously in the chromosphere and photosphere. Astronomy and Astrophysics, 2012, 539, A131.	5.1	79
2	Critical Science Plan for the Daniel K. Inouye Solar Telescope (DKIST). Solar Physics, 2021, 296, 1.	2.5	65
3	Magnetic field strength of active region filaments. Astronomy and Astrophysics, 2009, 501, 1113-1121.	5.1	60
4	The Effects of Stellar Activity on Optical High-resolution Exoplanet Transmission Spectra. Astronomical Journal, 2018, 156, 189.	4.7	46
5	Three-dimensional structure of a sunspot light bridge. Astronomy and Astrophysics, 2016, 596, A59.	5.1	41
6	An active region filament studied simultaneously in the chromosphere and photosphere. Astronomy and Astrophysics, 2012, 542, A112.	5.1	34
7	THE THREE-DIMENSIONAL STRUCTURE OF AN ACTIVE REGION FILAMENT AS EXTRAPOLATED FROM PHOTOSPHERIC AND CHROMOSPHERIC OBSERVATIONS. Astrophysical Journal, 2012, 748, 23.	4.5	29
8	Probing deep photospheric layers of the quiet Sun with high magnetic sensitivity. Astronomy and Astrophysics, 2016, 596, A6.	5.1	28
9	Inference of magnetic fields in the very quiet Sun. Astronomy and Astrophysics, 2016, 596, A5.	5.1	24
10	Height variation of the cutoff frequency in a sunspot umbra. Astronomy and Astrophysics, 2018, 617, A39.	5.1	24
11	Giant quiescent solar filament observed with high-resolution spectroscopy. Astronomy and Astrophysics, 2016, 589, A84.	5.1	20
12	MAGNETIC AND DYNAMICAL PHOTOSPHERIC DISTURBANCES OBSERVED DURING AN M3.2 SOLAR FLARE. Astrophysical Journal Letters, 2015, 799, L25.	8.3	19
13	Observational study of chromospheric heating by acoustic waves. Astronomy and Astrophysics, 2020, 642, A52.	5.1	19
14	Properties of the inner penumbral boundary and temporal evolution of a decaying sunspot. Astronomy and Astrophysics, 2018, 620, A191.	5.1	17
15	Counter-streaming flows in a giant quiet-Sun filament observed in the extreme ultraviolet. Astronomy and Astrophysics, 2018, 611, A64.	5.1	16
16	Image Quality in High-resolution and High-cadence Solar Imaging. Solar Physics, 2018, 293, 1.	2.5	14
17	Temporal evolution of arch filaments as seen in Heâ€I 10 830 Ã…. Astronomy and Astrophysics, 2018, 617, A55.	5.1	14
18	High-resolution imaging and near-infrared spectroscopy of penumbral decay. Astronomy and Astrophysics, 2018, 614, A2.	5.1	14

#	Article	IF	Citations
19	Horizontal flow fields in and around a small active region. Astronomy and Astrophysics, 2016, 596, A3.	5.1	13
20	Fitting peculiar spectral profiles in He <scp>I</scp> 10830 Ã... absorption features. Astronomische Nachrichten, 2016, 337, 1057-1063.	1.2	12
21	Height variation of magnetic field and plasma flows in isolated bright points. Astronomy and Astrophysics, 2019, 630, A139.	5.1	12
22	High-cadence Imaging and Imaging Spectroscopy at the GREGOR Solar Telescopeâ€"A Collaborative Research Environment for High-resolution Solar Physics. Astrophysical Journal, Supplement Series, 2018, 236, 5.	7.7	11
23	Determining the dynamics and magnetic fields in Heâ€¯I 10830 Ã... during a solar filament eruption. Astronomy and Astrophysics, 2020, 640, A71.	5.1	11
24	Slipping reconnection in a solar flare observed in high resolution with the GREGOR solar telescope. Astronomy and Astrophysics, 2016, 596, A1.	5.1	10
25	Spiral-shaped wavefronts in a sunspot umbra. Astronomy and Astrophysics, 2019, 621, A43.	5.1	10
26	Capabilities of bisector analysis of the Siâ€¯I 10 827 Ã... line for estimating line-of-sight velocities in the quiet Sun. Astronomy and Astrophysics, 2020, 634, A19.	5.1	10
27	Emergence of small-scale magnetic flux in the quiet Sun. Astronomy and Astrophysics, 2020, 633, A67.	5.1	10
28	Classification of High-resolution Solar HÎ± Spectra Using t-distributed Stochastic Neighbor Embedding. Astrophysical Journal, 2021, 907, 54.	4.5	10
29	Chromospheric Resonances above Sunspots and Potential Seismological Applications. Astrophysical Journal Letters, 2020, 900, L29.	8.3	10
30	Spectropolarimetric observations of an arch filament system with the GREGOR solar telescope. Astronomische Nachrichten, 2016, 337, 1050-1056.	1.2	9
31	Signatures of the impact of flare-ejected plasma on the photosphere of a sunspot light bridge. Astronomy and Astrophysics, 2017, 608, A97.	5.1	9
32	Observational evidence for two-component distributions describing solar magnetic bright points. Astronomy and Astrophysics, 2022, 657, A79.	5.1	8
33	sTools â€" a data reduction pipeline for the GREGOR Fabry-PÃ©rot 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
34	High-resolution spectroscopy of a surge in an emerging flux region. Astronomy and Astrophysics, 2020, 639, A19.	5.1	7
35	Flare-induced changes of the photospheric magnetic field in aÎ´-spot deduced from ground-based observations. Astronomy and Astrophysics, 2017, 602, A60.	5.1	6
36	Multiple Stokes I inversions for inferring magnetic fields in the spectral range around Crâ€¯I 5782 Ã.... Astronomy and Astrophysics, 2021, 653, A165.	5.1	6

#	Article	IF	Citations
37	High-resolution Spectroscopy of an Erupting Minifilament and Its Impact on the Nearby Chromosphere. Astrophysical Journal, 2020, 898, 144.	4.5	5
38	Ca II 8542â€‰Ã… brightenings induced by a solar microflare. Astronomy and Astrophysics, 2017, 608, A117.	5.1	4
39	Solar HÎ± excess during Solar Cycle 24 from full-disk filtergrams of the Chromospheric Telescope. Astronomy and Astrophysics, 2022, 661, A107.	5.1	4
40	The association between sunspot magnetic fields and superpenumbral fibrils. Astronomische Nachrichten, 2014, 335, 161-167.	1.2	3
41	NLTE modeling of a small active region filament observed with the VTT. Astronomische Nachrichten, 2016, 337, 1045-1049.	1.2	3
42	Full Stokes observations in the He <scp>i</scp> 1083 nm spectral region covering an M3.2 flare. Proceedings of the International Astronomical Union, 2014, 10, 73-78.	0.0	2
43	Magnetic Flux Emergence in a Coronal Hole. Solar Physics, 2020, 295, 1.	2.5	2
44	Testing commercial variable fiber attenuators and lenslet arrays for equalized integral field spectroscopy applications. Proceedings of SPIE, 2008, , .	0.8	1
45	High-resolution spectroscopy of a giant solar filament. Proceedings of the International Astronomical Union, 2013, 8, 437-438.	0.0	1
46	Solar physics at the Einstein Tower. Astronomische Nachrichten, 2016, 337, 1105-1113.	1.2	1
47	Flow and magnetic field properties in the trailing sunspots of active region NOAA 12396. Astronomische Nachrichten, 2016, 337, 1090-1098.	1.2	1
48	Filigree in the Surroundings of Polar Crown and High-Latitude Filaments. Solar Physics, 2021, 296, 1.	2.5	1
49	Dynamics and connectivity of an extended arch filament system. Astronomy and Astrophysics, 2019, 629, A48.	5.1	1
50	Tracking Downflows from the Chromosphere to the Photosphere in a Solar Arch Filament System. Astrophysical Journal, 2020, 890, 82.	4.5	1
51	Formation and evolution of an active region filament. Proceedings of the International Astronomical Union, 2013, 8, 40-43.	0.0	0
52	Flows along arch filaments observed in the GRIS â€˜very fast spectroscopic modeâ€™. Proceedings of the International Astronomical Union, 2016, 12, 28-33.	0.0	0
53	The magnetic structure and dynamics of a decaying active region. Proceedings of the International Astronomical Union, 2019, 15, 53-57.	0.0	0
54	Revisiting the building blocks of solar magnetic fields by GREGOR. Proceedings of the International Astronomical Union, 2019, 15, 38-41.	0.0	0

#	Article	IF	Citations
55	Coordinated observations between China and Europe to follow active region 12709. Proceedings of the International Astronomical Union, 2019, 15, 58-61.	0.0	0