Michal Sobotka

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Horizontal motions in sunspot penumbrae. Astronomy and Astrophysics, 2022, 662, A13.	5.1	4
2	Evolution and motions of magnetic fragments during the active region formation and decay: A statistical study. Astronomy and Astrophysics, 2021, 647, A146.	5.1	1
3	IRIS observations of chromospheric heating by acoustic waves in solar quiet and active regions. Astronomy and Astrophysics, 2021, 648, A28.	5.1	7
4	High-resolution spectroscopy of a surge in an emerging flux region. Astronomy and Astrophysics, 2020, 639, A19.	5.1	7
5	Observational study of chromospheric heating by acoustic waves. Astronomy and Astrophysics, 2020, 642, A52.	5.1	19
6	High-resolution imaging and near-infrared spectroscopy of penumbral decay. Astronomy and Astrophysics, 2018, 614, A2.	5.1	14
7	How Temperature And Magnetic Field Are Related In Sunspots?. , 2018, , .		0
8	The Temperature – Magnetic Field Relation in Observed and Simulated Sunspots. Solar Physics, 2017, 292, 1.	2.5	5
9	Ca II 8542 à brightenings induced by a solar microflare. Astronomy and Astrophysics, 2017, 608, A117.	5.1	4
10	Fitting peculiar spectral profiles in He <scp>I</scp> 10830 Ã absorption features. Astronomische Nachrichten, 2016, 337, 1057-1063.	1.2	12
11	Horizontal flow fields in and around a small active region. Astronomy and Astrophysics, 2016, 596, A3.	5.1	13
12	Magnetic fields of opposite polarity in sunspot penumbrae. Astronomy and Astrophysics, 2016, 596, A4.	5.1	21
13	Active region fine structure observed at 0.08 arcsec resolution. Astronomy and Astrophysics, 2016, 596, A7.	5.1	23
14	Spectropolarimetric observations of an arch filament system with the GREGOR solar telescope. Astronomische Nachrichten, 2016, 337, 1050-1056.	1.2	9
15	Flow and magnetic field properties in the trailing sunspots of active region NOAA 12396. Astronomische Nachrichten, 2016, 337, 1090-1098.	1.2	1
16	Slipping reconnection in a solar flare observed in high resolution with the GREGOR solar telescope. Astronomy and Astrophysics, 2016, 596, A1.	5.1	10
17	Deep probing of the photospheric sunspot penumbra: no evidence of field-free gaps. Astronomy and Astrophysics, 2016, 596, A2.	5.1	29
18	Inference of magnetic fields in the very quiet Sun. Astronomy and Astrophysics, 2016, 596, A5.	5.1	24

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19	Probing deep photospheric layers of the quiet Sun with high magnetic sensitivity. Astronomy and Astrophysics, 2016, 596, A6.	5.1	28
20	CHROMOSPHERIC HEATING BY ACOUSTIC WAVES COMPARED TO RADIATIVE COOLING. Astrophysical Journal, 2016, 826, 49.	4.5	17
21	Upper chromospheric magnetic field of a sunspot penumbra: observations of fine structure. Astronomy and Astrophysics, 2016, 596, A8.	5.1	20
22	Three-dimensional structure of a sunspot light bridge. Astronomy and Astrophysics, 2016, 596, A59.	5.1	41
23	White-light continuum emission from a solar flare and plage. Proceedings of the International Astronomical Union, 2015, 11, 268-277.	0.0	Ο
24	Orphan penumbrae: Submerging horizontal fields. Astronomy and Astrophysics, 2014, 564, A91.	5.1	11
25	MOAT FLOW SYSTEM AROUND SUNSPOTS IN SHALLOW SUBSURFACE LAYERS. Astrophysical Journal, 2014, 790, 135.	4.5	10
26	Atmosphere above a large solar pore. Journal of Physics: Conference Series, 2013, 440, 012049.	0.4	0
27	Dynamics of the solar atmosphere above a pore with a light bridge. Astronomy and Astrophysics, 2013, 560, A84.	5.1	36
28	Optimisation of solar synoptic observations. Proceedings of SPIE, 2012, , .	0.8	0
29	The 1.5 meter solar telescope GREGOR. Astronomische Nachrichten, 2012, 333, 796-809.	1.2	131
30	A retrospective of the GREGOR solar telescope in scientific literature. Astronomische Nachrichten, 2012, 333, 810-815.	1.2	8
31	Magnetic and velocity fields of a solar pore. Astronomy and Astrophysics, 2012, 537, A85.	5.1	20
32	Auxiliary full-disc telescope for the European Solar Telescope. , 2010, , .		4
33	GREGOR solar telescope: Design and status. Astronomische Nachrichten, 2010, 331, 624-627.	1.2	13
34	Morphology and evolution of umbral dots and their substructures. Astronomy and Astrophysics, 2009, 504, 575-581.	5.1	32
35	EVOLUTION OF PHYSICAL CHARACTERISTICS OF UMBRAL DOTS AND PENUMBRAL GRAINS. Astrophysical Journal, 2009, 694, 1080-1084.	4.5	31
36	Large-scale horizontal flows in the solar photosphere IV. On the vertical structure of large-scale horizontal flows. New Astronomy, 2009, 14, 429-434.	1.8	7

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37	Large-scale horizontal flows in the solar photosphere. Astronomy and Astrophysics, 2009, 506, 875-884.	5.1	8
38	Large-scale horizontal flows in the solar photosphere. Astronomy and Astrophysics, 2008, 477, 285-292.	5.1	14
39	Observational Evidence for Rising Penumbral Flux Tubes?. Solar Physics, 2007, 241, 223-233.	2.5	3
40	Properties of sunspot moats derived from horizontal motions. Astronomy and Astrophysics, 2007, 472, 277-282.	5.1	20
41	Large-scale horizontal flows in the solar photosphere. Astronomy and Astrophysics, 2006, 458, 301-306.	5.1	21
42	The new 1.5m solar telescope GREGOR: first light and start of commissioning. , 2006, , .		2
43	The magnetic canopy above light bridges. Astronomy and Astrophysics, 2006, 453, 1079-1088.	5.1	73
44	Dynamics of Magnetic Bright Points in an Active Region. Solar Physics, 2006, 237, 13-23.	2.5	26
45	Phase diversity restoration of sunspot images. Astronomy and Astrophysics, 2005, 430, 1089-1097.	5.1	15
46	High-Pressure Enantioselective Allylation of Aldehydes Catalyzed by (Salen)Chromium(III) Complexes. Synlett, 2005, 2005, 227-230.	1.8	1
47	The structure of a penumbral connection between solar pores. Astronomy and Astrophysics, 2005, 442, 1079-1086.	5.1	3
48	Photometry of umbral dots. Astronomy and Astrophysics, 2005, 442, 323-329.	5.1	30
49	Observational evidence of Joule heating in some umbral dots. Astronomy and Astrophysics, 2004, 428, 215-218.	5.1	8
50	Progress report of the 1.5 m solar telescope GREGOR. , 2004, , .		4
51	Phase diversity restoration of sunspot images. Astronomy and Astrophysics, 2004, 423, 737-744.	5.1	18
52	A CCD-based guiding and control system for solar telescopes. Astronomische Nachrichten, 2003, 324, 305-307.	1.2	0
53	Solar activity II: Sunspots and pores. Astronomische Nachrichten, 2003, 324, 369-373.	1.2	24
54	Infrared photometry of a sunspot near the disk center. Astronomische Nachrichten, 2003, 324, 376-377.	1.2	0

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55	GREGOR: the new 1.5m solar telescope on Tenerife. , 2003, 4853, 360.		12
56	Centre-to-limb variation of solar granulation in the infrared. Astronomy and Astrophysics, 2003, 397, 1075-1081.	5.1	8
57	Properties of horizontal flows inside and outside a solar pore. Astronomy and Astrophysics, 2002, 395, 249-255.	5.1	14
58	Evolution and motions of small-scale photospheric structures near a large solar pore. Astronomy and Astrophysics, 2002, 387, 665-671.	5.1	7
59	Fine structure and dynamics in a light bridge inside a solar pore. Astronomy and Astrophysics, 2002, 383, 275-282.	5.1	36
60	Reconstruction of the HSFA telescopes. Astronomische Nachrichten, 2001, 322, 371-374.	1.2	2
61	Fine structure in sunspots. Astronomy and Astrophysics, 2001, 380, 714-718.	5.1	33
62	Infrared Photometry of Solar Photospheric Structures. I. Active Regions at the Center of the Disk. Astrophysical Journal, 2000, 544, 1155-1168.	4.5	17
63	Power-law spectra of 1–2 GHz narrowband dm-spikes. Solar Physics, 2000, 195, 165-174.	2.5	19
64	Infrared photometry of solar active regions. Journal of Astrophysics and Astronomy, 2000, 21, 289-292.	1.0	0
65	Temporal Evolution of Fine Structures in and around Solar Pores. Astrophysical Journal, 1999, 511, 436-450.	4.5	66
66	Time Series of Solar Granulation Images. I. Differences between Small and Large Granules in Quiet Regions. Astrophysical Journal, 1997, 480, 406-419.	4.5	71
67	Narrowband dm-spikes in the 2 GHz frequency range and MHD cascading waves in reconnection outflows. Solar Physics, 1996, 168, 375-383.	2.5	40
68	On the Dynamics of Bright Features in Sunspot Umbrae. Astrophysical Journal, 1995, 447, .	4.5	16
69	A high-resolution study of the structure of sunspot light bridges and abnormal granulation. Astrophysical Journal, 1994, 426, 404.	4.5	53
70	A High-Resolution Study of Inhomogeneities in Sunspot Umbrae. Astrophysical Journal, 1993, 415, 832.	4.5	77
71	Spectroscopic observations and models of umbral light bridges. Solar Physics, 1989, 124, 37-52.	2.5	7