

David Berghmans

List of Publications by Year in descending order

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103
papers

3,950
citations

172457

29
h-index

123424

61
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106
all docs

106
docs citations

106
times ranked

2096
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparing the Heliospheric Cataloging, Analysis, and Techniques Service (HELICATS) Manual and Automatic Catalogues of Coronal Mass Ejections Using Solar Terrestrial Relations Observatory/Heliospheric Imager (STEREO/HI) Data. <i>Solar Physics</i> , 2022, 297, 1.	2.5	3
2	The magnetic drivers of campfires seen by the Polarimetric and Helioseismic Imager (PHI) on Solar Orbiter. <i>Astronomy and Astrophysics</i> , 2022, 660, A143.	5.1	14
3	SoLO/EUI Observations of Ubiquitous Fine-scale Bright Dots in an Emerging Flux Region: Comparison with a Bifrost MHD Simulation. <i>Astrophysical Journal</i> , 2022, 929, 103.	4.5	10
4	Automatic detection of small-scale EUV brightenings observed by the Solar Orbiter/EUI. <i>Astronomy and Astrophysics</i> , 2022, 663, A128.	5.1	5
5	Prominence eruption observed in He II 304 Å... up to $>6 \times 10^8 \text{ km}^2$ by EUI/FSI aboard Solar Orbiter. <i>Astronomy and Astrophysics</i> , 2022, 662, L5.	5.1	12
6	Transient small-scale brightenings in the quiet solar corona: A model for campfires observed with Solar Orbiter. <i>Astronomy and Astrophysics</i> , 2021, 656, L7.	5.1	49
7	Extreme-UV quiet Sun brightenings observed by the Solar Orbiter/EUI. <i>Astronomy and Astrophysics</i> , 2021, 656, L4.	5.1	90
8	Evidence for local particle acceleration in the first recurrent galactic cosmic ray depression observed by Solar Orbiter. <i>Astronomy and Astrophysics</i> , 2021, 656, L10.	5.1	2
9	Stereoscopy of extreme UV quiet Sun brightenings observed by Solar Orbiter/EUI. <i>Astronomy and Astrophysics</i> , 2021, 656, A35.	5.1	18
10	Coronal Microjets in Quiet-Sun Regions Observed with the Extreme Ultraviolet Imager on Board the Solar Orbiter. <i>Astrophysical Journal Letters</i> , 2021, 918, L20.	8.3	24
11	Space Weather Services for Civil Aviation – Challenges and Solutions. <i>Remote Sensing</i> , 2021, 13, 3685.	4.0	22
12	Capturing transient plasma flows and jets in the solar corona. <i>Astronomy and Astrophysics</i> , 2021, 656, L13.	5.1	14
13	The Magnetic Origin of Solar Campfires. <i>Astrophysical Journal Letters</i> , 2021, 921, L20.	8.3	29
14	Propagating brightenings in small loop-like structures in the quiet-Sun corona: Observations from Solar Orbiter/EUI. <i>Astronomy and Astrophysics</i> , 2021, 656, L16.	5.1	17
15	Understanding the origins of the heliosphere: integrating observations and measurements from Parker Solar Probe, Solar Orbiter, and other space- and ground-based observatories. <i>Astronomy and Astrophysics</i> , 2020, 642, A4.	5.1	35
16	The Solar Orbiter mission. <i>Astronomy and Astrophysics</i> , 2020, 642, A1.	5.1	514
17	Models and data analysis tools for the Solar Orbiter mission. <i>Astronomy and Astrophysics</i> , 2020, 642, A2.	5.1	53
18	The Solar Orbiter EUI instrument: The Extreme Ultraviolet Imager. <i>Astronomy and Astrophysics</i> , 2020, 642, A8.	5.1	185

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19	Coordination within the remote sensing payload on the Solar Orbiter mission. <i>Astronomy and Astrophysics</i> , 2020, 642, A6.	5.1	27
20	The Solar Orbiter Science Activity Plan. <i>Astronomy and Astrophysics</i> , 2020, 642, A3.	5.1	67
21	LUCI onboard Lagrange, the next generation of EUV space weather monitoring. <i>Journal of Space Weather and Space Climate</i> , 2020, 10, 49.	3.3	3
22	Long-Term Evolution of the Solar Corona Using PROBA2 Data. <i>Solar Physics</i> , 2020, 295, .	2.5	4
23	Assessment and recommendations for a consolidated European approach to space weather “ as part of a global space weather effort. <i>Journal of Space Weather and Space Climate</i> , 2019, 9, A37.	3.3	17
24	The detection of ultra-relativistic electrons in low Earth orbit. <i>Journal of Space Weather and Space Climate</i> , 2018, 8, A01.	3.3	1
25	SWAP: Sun watcher with a new EUV telescope on a technology demonstration platform. , 2018, , .		2
26	The EUI flight instrument of Solar Orbiter: from optical alignment to end-to-end calibration. , 2018, , .		0
27	Multi-instrument observations of the solar eclipse on 20 March 2015 and its effects on the ionosphere over Belgium and Europe. <i>Journal of Space Weather and Space Climate</i> , 2017, 7, A19.	3.3	33
28	Solar signatures and eruption mechanism of the August 14, 2010 coronal mass ejection (CME). <i>Journal of Space Weather and Space Climate</i> , 2017, 7, A7.	3.3	12
29	JHelioviewer. <i>Astronomy and Astrophysics</i> , 2017, 606, A10.	5.1	110
30	Performances of swap on-board PROBA-2. , 2017, , .		0
31	EUV high resolution imager on-board solar orbiter: optical design and detector performances. , 2017, , .		2
32	The Effect of Limited Sample Sizes on the Accuracy of the Estimated Scaling Parameter for Power-Law-Distributed Solar Data. <i>Solar Physics</i> , 2016, 291, 1561-1576.	2.5	13
33	Validation of Earth atmosphere models using solar EUV observations from the CORONAS and PROBA2 satellites in occultation mode. <i>Journal of Space Weather and Space Climate</i> , 2016, 6, A7.	3.3	2
34	The qualification campaign of the EUI instrument of Solar Orbiter. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
35	The extreme UV imager telescope on-board the Solar Orbiter mission: overview of phase C and D. , 2015, , .		0
36	The extreme UV imager of solar orbiter: from detailed design to flight model. <i>Proceedings of SPIE</i> , 2014, , .	0.8	5

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37	OBSERVATIONAL CHARACTERISTICS OF CORONAL MASS EJECTIONS WITHOUT LOW-CORONAL SIGNATURES. <i>Astrophysical Journal</i> , 2014, 795, 49.	4.5	53
38	Solar TERrestrial Relations Observatory-A (STEREO-A) and PROject for On-Board Autonomy 2 (PROBA2) Quadrature Observations of Reflections of Three EUV Waves from a Coronal Hole. <i>Solar Physics</i> , 2013, 286, 201-219.	2.5	29
39	SoFAST: Automated Flare Detection with the PROBA2/SWAP EUV Imager. <i>Solar Physics</i> , 2013, 286, 185-199.	2.5	10
40	The SWAP EUV Imaging Telescope Part I: Instrument Overview and Pre-Flight Testing. <i>Solar Physics</i> , 2013, 286, 43-65.	2.5	120
41	The SWAP EUV Imaging Telescope. Part II: In-flight Performance and Calibration. <i>Solar Physics</i> , 2013, 286, 67-91.	2.5	57
42	Temperature Response of the 171 Å... Passband of the SWAP Imager on PROBA2, with a Comparison to TRACE, SOHO, STEREO, and SDO. <i>Solar Physics</i> , 2013, 286, 111-124.	2.5	8
43	Signatures of Slow Solar Wind Streams from Active Regions in the Inner Corona. <i>Solar Physics</i> , 2013, 286, 157-184.	2.5	25
44	Study of a Prominence Eruption using PROBA2/SWAP and STEREO/EUVI Data. <i>Solar Physics</i> , 2013, 286, 241-253.	2.5	17
45	The Projects for Onboard Autonomy (PROBA2) Science Centre: Sun Watcher Using APS Detectors and Image Processing (SWAP) and Large-Yield Radiometer (LYRA) Science Operations and Data Products. <i>Solar Physics</i> , 2013, 286, 93-110.	2.5	10
46	On-Orbit Degradation of Solar Instruments. <i>Solar Physics</i> , 2013, 288, 389-434.	2.5	80
47	SWAP OBSERVATIONS OF THE LONG-TERM, LARGE-SCALE EVOLUTION OF THE EXTREME-ULTRAVIOLET SOLAR CORONA. <i>Astrophysical Journal</i> , 2013, 777, 72.	4.5	30
48	Temperature Response of the 171 Å... Passband of the SWAP Imager on PROBA2, with a Comparison to TRACE, SOHO, STEREO, and SDO. , 2013, , 111-124.		0
49	Preliminary Results on Irradiance Measurements from Lyra and Swap. <i>Advances in Astronomy</i> , 2012, 2012, 1-5.	1.1	6
50	Plasmoid Ejection at a Solar Total Eclipse. <i>EAS Publications Series</i> , 2012, 55, 223-226.	0.3	3
51	TIME DELAYS IN QUASI-PERIODIC PULSATIONS OBSERVED DURING THE X2.2 SOLAR FLARE ON 2011 FEBRUARY 15. <i>Astrophysical Journal Letters</i> , 2012, 749, L16.	8.3	63
52	The EUV instrument on board the Solar Orbiter mission: from breadboard and prototypes to instrument model validation. <i>Proceedings of SPIE</i> , 2012, , .	0.8	8
53	Solar TERrestrial Relations Observatory-A (STEREO-A) and PROject for On-Board Autonomy 2 (PROBA2) Quadrature Observations of Reflections of Three EUV Waves from a Coronal Hole. , 2012, , 201-219.		0
54	Signatures of Slow Solar Wind Streams from Active Regions in the Inner Corona. , 2012, , 157-184.		0

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55	Study of a Prominence Eruption using PROBA2/SWAP and STEREO/EUVI Data. , 2012, , 241-253.		0
56	The Projects for Onboard Autonomy (PROBA2) Science Centre: Sun Watcher Using APS Detectors and Image Processing (SWAP) and Large-Yield Radiometer (LYRA) Science Operations and Data Products. , 2012, , 93-110.		0
57	The SWAP EUV Imaging Telescope. Part II: In-flight Performance and Calibration. , 2012, , 67-91.		2
58	SoFAST: Automated Flare Detection with the PROBA2/SWAP EUV Imager. , 2012, , 185-199.		0
59	The SWAP EUV Imaging Telescope Part I: Instrument Overview and Pre-Flight Testing. , 2012, , 43-65.		1
60	SWAPâ€™SECCHI OBSERVATIONS OF A MASS-LOADING TYPE SOLAR ERUPTION. Astrophysical Journal Letters, 2011, 727, L10.	8.3	33
61	LYRA OBSERVATIONS OF TWO OSCILLATION MODES IN A SINGLE FLARE. Astrophysical Journal, 2011, 740, 90.	4.5	73
62	Hierarchical approach to forecasting recurrent solar wind streams. Solar System Research, 2011, 45, 546-556.	0.7	17
63	Validation of CME Detection Software (CACTus) by Means of Simulated Data, and Analysis of Projection Effects on CME Velocity Measurements. Solar Physics, 2011, 270, 253-272.	2.5	7
64	First light of SWAP on-board PROBA2. Proceedings of SPIE, 2010, , .	0.8	16
65	The technical challenges of the Solar-Orbiter EUI instrument. , 2010, , .		6
66	On 3D Reconstruction of Coronal Mass Ejections: I.ÂMethod Description and Application to SECCHI-COR Data. Solar Physics, 2009, 259, 123-141.	2.5	61
67	AUTOMATED LASCO CME CATALOG FOR SOLAR CYCLE 23: ARE CMEs SCALE INVARIANT?. Astrophysical Journal, 2009, 691, 1222-1234.	4.5	199
68	Visualization of Distributed Solar Data and Metadata with the Solar Weather Browser. Solar Physics, 2008, 248, 225-232.	2.5	8
69	CMOS-APS Detectors for Solar Physics: Lessons Learned during the SWAP Preflight Calibration. Solar Physics, 2008, 249, 147-163.	2.5	26
70	SWAP: a novel EUV telescope for space weather. Proceedings of SPIE, 2007, , .	0.8	9
71	From the Wolf number to the International Sunspot Index: 25 years of SIDC. Advances in Space Research, 2007, 40, 919-928.	2.6	106
72	Objective CME detection over the solar cycle: A first attempt. Advances in Space Research, 2006, 38, 475-479.	2.6	8

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73	SWAP onboard PROBA 2, a new EUV imager for solar monitoring. <i>Advances in Space Research</i> , 2006, 38, 1807-1811.	2.6	79
74	LYRA, a solar UV radiometer on Proba2. <i>Advances in Space Research</i> , 2006, 37, 303-312.	2.6	80
75	SWAP: An EUV imager for solar monitoring on board of PROBA2. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
76	A broad perspective on automated CME tracking: Towards higher level space weather forecasting. <i>Geophysical Monograph Series</i> , 2006, , 33-41.	0.1	4
77	SWAP: an EUV imager for solar monitoring on board of PROBA2. , 2005, , .		0
78	Detailed comparison of downflows seen both in EIT 30.4 nm and Big Bear H α movies. <i>Astronomy and Astrophysics</i> , 2005, 443, 319-328.	5.1	53
79	Poisson Recoding Of Solar Images For Enhanced Compression. <i>Solar Physics</i> , 2005, 228, 253-264.	2.5	13
80	Entering The Era Of Automated Cme Recognition: A Review Of Existing Tools. <i>Solar Physics</i> , 2005, 228, 239-251.	2.5	15
81	Automated Detection Of Eit Waves And Dimmings. <i>Solar Physics</i> , 2005, 228, 265-284.	2.5	80
82	Solar weather monitoring. <i>Annales Geophysicae</i> , 2005, 23, 3149-3161.	1.6	15
83	Solar activity: nowcasting and forecasting at the SIDC. <i>Annales Geophysicae</i> , 2005, 23, 3115-3128.	1.6	25
84	The Sidc: World Data Center for the Sunspot Index. <i>Solar Physics</i> , 2004, 224, 113-120.	2.5	27
85	SWAP: Sun watcher using APS detector on-board PROBA-2, a new EUV off-axis telescope on a technology demonstration platform. , 2004, 5171, 143.		7
86	MAGRITTE: an instrument suite for the solar atmospheric imaging assembly (AIA) aboard the Solar Dynamics Observatory. , 2004, , .		4
87	Automated recognition of coronal mass ejections (CMEs) in near-real-time data. <i>Astronomy and Astrophysics</i> , 2004, 425, 1097-1106.	5.1	214
88	Intensity variations in EIT shutterless mode: Waves or flows?. <i>Astronomy and Astrophysics</i> , 2004, 415, 1141-1151.	5.1	59
89	Space weather. <i>European Review</i> , 2002, 10, 249-261.	0.7	0
90	The solar influences data analysis centre. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2002, 64, 757-761.	1.6	10

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91	Long term variations in the Extreme UV corona: the EIT/SoHO perspective. Symposium - International Astronomical Union, 2001, 203, 501-504.	0.1	1
92	Active region transient brightenings. Astronomy and Astrophysics, 2001, 369, 291-304.	5.1	46
93	Slow magnetoacoustic waves in coronal loops: EIT and TRACE. Astronomy and Astrophysics, 2001, 370, 591-601.	5.1	137
94	Observations of solar wave/instability phenomena as imaged by EIT/SOHO, TRACE and Yohkoh/SXT. AIP Conference Proceedings, 2000, , .	0.4	0
95	Slow magnetoacoustic waves in coronal loops: EIT vs TRACE. AIP Conference Proceedings, 2000, , .	0.4	1
96	Active region EUV transient brightenings " First Results by EIT of SOHO JOP 80. Solar Physics, 1999, 186, 207-229.	2.5	219
97	Eit Observations of the Extreme Ultraviolet Sun. Solar Physics, 1997, 175, 571-599.	2.5	313
98	The Footpoint-driven Coronal Sausage Wave. Astrophysical Journal, 1996, 472, 398-411.	4.5	16
99	Coronal Loop Oscillations Driven by Footpoint Motions: Analytical Results for a Model Problem. Astrophysical Journal, 1995, 453, 495.	4.5	27
100	SWAP and LYRA: space weather from a small spacecraft. , 0, , .		2
101	Magnetic imaging of the outer solar atmosphere (MImOSA). Experimental Astronomy, 0, , 1.	3.7	1
102	Stereoscopic measurements of coronal Doppler velocities. Astronomy and Astrophysics, 0, , .	5.1	2
103	The first Coronal Mass Ejection observed in both visible-light and UV H I Ly-alpha channels of the Metis Coronagraph on board Solar Orbiter. Astronomy and Astrophysics, 0, , .	5.1	11