## **David Berghmans**

List of Publications by Year in descending order

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		172457	123424
103	3,950	29	61
papers	citations	h-index	g-index
106	106	106	2096
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	The Solar Orbiter mission. Astronomy and Astrophysics, 2020, 642, A1.	5.1	514
2	Eit Observations of the Extreme Ultraviolet Sun. Solar Physics, 1997, 175, 571-599.	2.5	313
3	Active region EUV transient brightenings – First Results by EIT of SOHO JOP 80. Solar Physics, 1999, 186, 207-229.	2.5	219
4	Automated recognition of coronal mass ejections (CMEs) in near-real-time data. Astronomy and Astrophysics, 2004, 425, 1097-1106.	5.1	214
5	AUTOMATED LASCO CME CATALOG FOR SOLAR CYCLE 23: ARE CMEs SCALE INVARIANT?. Astrophysical Journal, 2009, 691, 1222-1234.	4.5	199
6	The Solar Orbiter EUI instrument: The Extreme Ultraviolet Imager. Astronomy and Astrophysics, 2020, 642, A8.	5.1	185
7	Slow magnetoacoustic waves in coronal loops: EIT and TRACE. Astronomy and Astrophysics, 2001, 370, 591-601.	5.1	137
8	The SWAP EUV Imaging Telescope Part I: Instrument Overview and Pre-Flight Testing. Solar Physics, 2013, 286, 43-65.	2.5	120
9	JHelioviewer. Astronomy and Astrophysics, 2017, 606, A10.	5.1	110
10	From the Wolf number to the International Sunspot Index: 25 years of SIDC. Advances in Space Research, 2007, 40, 919-928.	2.6	106
11	Extreme-UV quiet Sun brightenings observed by the Solar Orbiter/EUI. Astronomy and Astrophysics, 2021, 656, L4.	5.1	90
12	Automated Detection Of Eit Waves And Dimmings. Solar Physics, 2005, 228, 265-284.	2.5	80
13	LYRA, a solar UV radiometer on Proba2. Advances in Space Research, 2006, 37, 303-312.	2.6	80
14	On-Orbit Degradation of Solar Instruments. Solar Physics, 2013, 288, 389-434.	2.5	80
15	SWAP onboard PROBA 2, a new EUV imager for solar monitoring. Advances in Space Research, 2006, 38, 1807-1811.	2.6	79
16	LYRA OBSERVATIONS OF TWO OSCILLATION MODES IN A SINGLE FLARE. Astrophysical Journal, 2011, 740, 90.	4.5	73
17	The Solar Orbiter Science Activity Plan. Astronomy and Astrophysics, 2020, 642, A3.	5.1	67
18	TIME DELAYS IN QUASI-PERIODIC PULSATIONS OBSERVED DURING THE X2.2 SOLAR FLARE ON 2011 FEBRUARY 15. Astrophysical Journal Letters, 2012, 749, L16.	8.3	63

#	Article	IF	Citations
19	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
20	Intensity variations in EIT shutterless mode: Waves or flows?. Astronomy and Astrophysics, 2004, 415, 1141-1151.	5.1	59
21	The SWAP EUV Imaging Telescope. Part II: In-flight Performance and Calibration. Solar Physics, 2013, 286, 67-91.	2.5	57
22	Detailed comparison of downflows seen both in EITÂ30.4 nm and Big Bear Hα movies. Astronomy and Astrophysics, 2005, 443, 319-328.	5.1	53
23	OBSERVATIONAL CHARACTERISTICS OF CORONAL MASS EJECTIONS WITHOUT LOW-CORONAL SIGNATURES. Astrophysical Journal, 2014, 795, 49.	4.5	53
24	Models and data analysis tools for the Solar Orbiter mission. Astronomy and Astrophysics, 2020, 642, A2.	5.1	53
25	Transient small-scale brightenings in the quiet solar corona: A model for campfires observed with Solar Orbiter. Astronomy and Astrophysics, 2021, 656, L7.	5.1	49
26	Active region transient brightenings. Astronomy and Astrophysics, 2001, 369, 291-304.	5.1	46
27	Understanding the origins of the heliosphere: integrating observations and measurements from Parker Solar Probe, Solar Orbiter, and other space- and ground-based observatories. Astronomy and Astrophysics, 2020, 642, A4.	5.1	35
28	SWAP–SECCHI OBSERVATIONS OF A MASS-LOADING TYPE SOLAR ERUPTION. Astrophysical Journal Letters, 2011, 727, L10.	8.3	33
29	Multi-instrument observations of the solar eclipse on 20 March 2015 and its effects on the ionosphere over Belgium and Europe. Journal of Space Weather and Space Climate, 2017, 7, A19.	3.3	33
30	SWAP OBSERVATIONS OF THE LONG-TERM, LARGE-SCALE EVOLUTION OF THE EXTREME-ULTRAVIOLET SOLAR CORONA. Astrophysical Journal, 2013, 777, 72.	4.5	30
31	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. Solar Physics, 2013, 286, 201-219.	2.5	29
32	The Magnetic Origin of Solar Campfires. Astrophysical Journal Letters, 2021, 921, L20.	8.3	29
33	The Sidc: World Data Center for the Sunspot Index. Solar Physics, 2004, 224, 113-120.	2.5	27
34	Coordination within the remote sensing payload on the Solar Orbiter mission. Astronomy and Astrophysics, 2020, 642, A6.	5.1	27
35	Coronal Loop Oscillations Driven by Footpoint Motions: Analytical Results for a Model Problem. Astrophysical Journal, 1995, 453, 495.	4.5	27
36	CMOS-APS Detectors for Solar Physics: Lessons Learned during the SWAP Preflight Calibration. Solar Physics, 2008, 249, 147-163.	2.5	26

#	Article	IF	CITATIONS
37	Solar activity: nowcasting and forecasting at the SIDC. Annales Geophysicae, 2005, 23, 3115-3128.	1.6	25
38	Signatures of Slow Solar Wind Streams from Active Regions in the Inner Corona. Solar Physics, 2013, 286, 157-184.	2.5	25
39	Coronal Microjets in Quiet-Sun Regions Observed with the Extreme Ultraviolet Imager on Board the Solar Orbiter. Astrophysical Journal Letters, 2021, 918, L20.	8.3	24
40	Space Weather Services for Civil Aviation—Challenges and Solutions. Remote Sensing, 2021, 13, 3685.	4.0	22
41	Stereoscopy of extreme UV quiet Sun brightenings observed by Solar Orbiter/EUI. Astronomy and Astrophysics, 2021, 656, A35.	5.1	18
42	Hierarchical approach to forecasting recurrent solar wind streams. Solar System Research, 2011, 45, 546-556.	0.7	17
43	Study of a Prominence Eruption using PROBA2/SWAP and STEREO/EUVI Data. Solar Physics, 2013, 286, 241-253.	2.5	17
44	Assessment and recommendations for a consolidated European approach to space weather – as part of a global space weather effort. Journal of Space Weather and Space Climate, 2019, 9, A37.	3.3	17
45	Propagating brightenings in small loop-like structures in the quiet-Sun corona: Observations from Solar Orbiter/EUI. Astronomy and Astrophysics, 2021, 656, L16.	5.1	17
46	First light of SWAP on-board PROBA2. Proceedings of SPIE, 2010, , .	0.8	16
47	The Footpointâ€driven Coronal Sausage Wave. Astrophysical Journal, 1996, 472, 398-411.	4.5	16
48	Entering The Era Of Automated Cme Recognition: A Review Of Existing Tools. Solar Physics, 2005, 228, 239-251.	2.5	15
49	Solar weather monitoring. Annales Geophysicae, 2005, 23, 3149-3161.	1.6	15
50	Capturing transient plasma flows and jets in the solar corona. Astronomy and Astrophysics, 2021, 656, L13.	5.1	14
51	The magnetic drivers of campfires seen by the Polarimetric and Helioseismic Imager (PHI) on Solar Orbiter. Astronomy and Astrophysics, 2022, 660, A143.	5.1	14
52	Poisson Recoding Of Solar Images For Enhanced Compression. Solar Physics, 2005, 228, 253-264.	2.5	13
53	The Effect of Limited Sample Sizes on the Accuracy of the Estimated Scaling Parameter for Power-Law-Distributed Solar Data. Solar Physics, 2016, 291, 1561-1576.	2.5	13
54	Solar signatures and eruption mechanism of the August 14, 2010 coronal mass ejection (CME). Journal of Space Weather and Space Climate, 2017, 7, A7.	3.3	12

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55	Prominence eruption observed in He II 304 à up to >6 <i>R</i> <sub>⊙</sub> by EUI/FSI aboard Solar Orbiter. Astronomy and Astrophysics, 2022, 662, L5.	5.1	12
56	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
57	The solar influences data analysis centre. Journal of Atmospheric and Solar-Terrestrial Physics, 2002, 64, 757-761.	1.6	10
58	SoFAST: Automated Flare Detection with the PROBA2/SWAP EUV Imager. Solar Physics, 2013, 286, 185-199.	2.5	10
59	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. Solar Physics, 2013, 286, 93-110.	2.5	10
60	SolO/EUI Observations of Ubiquitous Fine-scale Bright Dots in an Emerging Flux Region: Comparison with a Bifrost MHD Simulation. Astrophysical Journal, 2022, 929, 103.	4.5	10
61	SWAP: a novel EUV telescope for space weather. Proceedings of SPIE, 2007, , .	0.8	9
62	Objective CME detection over the solar cycle: A first attempt. Advances in Space Research, 2006, 38, 475-479.	2.6	8
63	Visualization of Distributed Solar Data and Metadata with the Solar Weather Browser. Solar Physics, 2008, 248, 225-232.	2.5	8
64	The EUI instrument on board the Solar Orbiter mission: from breadboard and prototypes to instrument model validation. Proceedings of SPIE, 2012, , .	0.8	8
65	Temperature Response of the 171 Ã Passband of the SWAP Imager on PROBA2, with a Comparison to TRACE, SOHO, STEREO, and SDO. Solar Physics, 2013, 286, 111-124.	2.5	8
66	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
67	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
68	The technical challenges of the Solar-Orbiter EUI instrument. , 2010, , .		6
69	Preliminary Results on Irradiance Measurements from Lyra and Swap. Advances in Astronomy, 2012, 2012, 1-5.	1.1	6
70	The extreme UV imager of solar orbiter: from detailed design to flight model. Proceedings of SPIE, 2014, , .	0.8	5
71	Automatic detection of small-scale EUV brightenings observed by the Solar Orbiter/EUI. Astronomy and Astrophysics, 2022, 663, A128.	5.1	5
72	MAGRITTE: an instrument suite for the solar atmospheric imaging assembly (AIA) aboard the Solar Dynamics Observatory. , 2004, , .		4

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73	A broad perspective on automated CME tracking: Towards higher level space weather forecasting. Geophysical Monograph Series, 2006, , 33-41.	0.1	4
74	Long-Term Evolution of the Solar Corona Using PROBA2 Data. Solar Physics, 2020, 295, .	2.5	4
75	Plasmoid Ejection at a Solar Total Eclipse. EAS Publications Series, 2012, 55, 223-226.	0.3	3
76	LUCI onboard Lagrange, the next generation of EUV space weather monitoring. Journal of Space Weather and Space Climate, 2020, 10, 49.	3.3	3
77	Comparing the Heliospheric Cataloging, Analysis, and Techniques Service (HELCATS) Manual and Automatic Catalogues of Coronal Mass Ejections Using Solar Terrestrial Relations Observatory/Heliospheric Imager (STEREO/HI) Data. Solar Physics, 2022, 297, 1.	2.5	3
78	SWAP and LYRA: space weather from a small spacecraft., 0, , .		2
79	Validation of Earth atmosphere models using solar EUV observations from the CORONAS and PROBA2 satellites in occultation mode. Journal of Space Weather and Space Climate, 2016, 6, A7.	3.3	2
80	Evidence for local particle acceleration in the first recurrent galactic cosmic ray depression observed by Solar Orbiter. Astronomy and Astrophysics, 2021, 656, L10.	5.1	2
81	Stereoscopic measurements of coronal Doppler velocities. Astronomy and Astrophysics, 0, , .	5.1	2
82	The SWAP EUV Imaging Telescope. Part II: In-flight Performance and Calibration., 2012,, 67-91.		2
83	EUV high resolution imager on-board solar orbiter: optical design and detector performances. , 2017, ,		2
84	SWAP: Sun watcher with a new EUV telescope on a technology demonstration platform. , 2018, , .		2
85	Slow magnetoacoustic waves in coronal loops: EIT vs TRACE. AIP Conference Proceedings, 2000, , .	0.4	1
86	Long term variations in the Extreme UV corona: the EIT/SoHO perspective. Symposium - International Astronomical Union, 2001, 203, 501-504.	0.1	1
87	The qualification campaign of the EUI instrument of Solar Orbiter. Proceedings of SPIE, 2016, , .	0.8	1
88	The detection of ultra-relativistic electrons in low Earth orbit. Journal of Space Weather and Space Climate, 2018, 8, A01.	3.3	1
89	Magnetic imaging of the outer solar atmosphere (MImOSA). Experimental Astronomy, $0,1.$	3.7	1
90	The SWAP EUV Imaging Telescope Part I: Instrument Overview and Pre-Flight Testing., 2012,, 43-65.		1

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91	Observations of solar wave/instability phenomena as imaged by EIT/SOHO, TRACE and Yohkoh/SXT. AIP Conference Proceedings, 2000, , .	0.4	0
92	Space weather. European Review, 2002, 10, 249-261.	0.7	0
93	SWAP: an EUV imager for solar monitoring on board of PROBA2., 2005,,.		O
94	SWAP: An EUV imager for solar monitoring on board of PROBA2. AIP Conference Proceedings, 2006, , .	0.4	0
95	The extreme UV imager telescope on-board the Solar Orbiter mission: overview of phase C and D. , 2015,		O
96	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
97	Signatures of Slow Solar Wind Streams from Active Regions in the Inner Corona. , 2012, , 157-184.		0
98	Study of a Prominence Eruption using PROBA2/SWAP and STEREO/EUVI Data., 2012,, 241-253.		0
99	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.		O
100	SoFAST: Automated Flare Detection with the PROBA2/SWAP EUV Imager. , 2012, , 185-199.		0
101	Temperature Response of the 171 $\tilde{A}$ Passband of the SWAP Imager on PROBA2, with a Comparison to TRACE, SOHO, STEREO, and SDO. , 2013, , 111-124.		0
102	Performances of swap on-board PROBA-2., 2017,,.		0
103	The EUI flight instrument of Solar Orbiter: from optical alignment to end-to-end calibration. , 2018, , .		0