

Carolus J Schrijver

List of Publications by Year in descending order

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112
papers

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43973

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times ranked

4265
citing authors

#	ARTICLE	IF	CITATIONS
1	Coronal Mass Ejections and Dimmings: A Comparative Study Using MHD Simulations and SDO Observations. <i>Astrophysical Journal</i> , 2022, 928, 154.	1.6	12
2	Extreme solar events. <i>Living Reviews in Solar Physics</i> , 2022, 19, 1.	7.8	60
3	Testing the Solar Activity Paradigm in the Context of Exoplanet Transits. <i>Astrophysical Journal</i> , 2020, 890, 121.	1.6	10
4	Sun-as-a-star Spectral Irradiance Observations of Transiting Active Regions. <i>Astrophysical Journal</i> , 2020, 902, 36.	1.6	22
5	Coronal dimming as a proxy for stellar coronal mass ejections. <i>Proceedings of the International Astronomical Union</i> , 2019, 15, 426-432.	0.0	8
6	MAGNETIC PROPERTIES OF SOLAR ACTIVE REGIONS THAT GOVERN LARGE SOLAR FLARES AND ERUPTIONS. <i>Astrophysical Journal</i> , 2017, 834, 56.	1.6	134
7	Publication Statistics on the Sun and the Heliosphere. <i>Solar Physics</i> , 2016, 291, 1267-1272.	1.0	4
8	A NUMERICAL STUDY OF LONG-RANGE MAGNETIC IMPACTS DURING CORONAL MASS EJECTIONS. <i>Astrophysical Journal</i> , 2016, 820, 16.	1.6	41
9	THE NONPOTENTIALITY OF CORONAE OF SOLAR ACTIVE REGIONS, THE DYNAMICS OF THE SURFACE MAGNETIC FIELD, AND THE POTENTIAL FOR LARGE FLARES. <i>Astrophysical Journal</i> , 2016, 820, 103.	1.6	29
10	The Characteristics of Solar X-Class Flares and CMEs: A Paradigm for Stellar Superflares and Eruptions?. <i>Solar Physics</i> , 2016, 291, 1761-1782.	1.0	69
11	THE INFLUENCE OF SPATIAL RESOLUTION ON NONLINEAR FORCE-FREE MODELING. <i>Astrophysical Journal</i> , 2015, 811, 107.	1.6	78
12	Understanding space weather to shield society: A global road map for 2015â€“2025 commissioned by COSPAR and ILWS. <i>Advances in Space Research</i> , 2015, 55, 2745-2807.	1.2	256
13	Blind Stereoscopy of the Coronal Magnetic Field. <i>Solar Physics</i> , 2015, 290, 2765-2789.	1.0	9
14	A Statistical Study of Distant Consequences of Large Solar Energetic Events. <i>Solar Physics</i> , 2015, 290, 2943-2950.	1.0	11
15	THERMAL DIAGNOSTICS WITH THE ATMOSPHERIC IMAGING ASSEMBLY ON BOARD THE SOLAR DYNAMICS OBSERVATORY: A VALIDATED METHOD FOR DIFFERENTIAL EMISSION MEASURE INVERSIONS. <i>Astrophysical Journal</i> , 2015, 807, 143.	1.6	201
16	Socioâ€“Economic Hazards and Impacts of Space Weather: The Important Range Between Mild and Extreme. <i>Space Weather</i> , 2015, 13, 524-528.	1.3	37
17	BRIGHT HOT IMPACTS BY ERUPTED FRAGMENTS FALLING BACK ON THE SUN: UV REDSHIFTS IN STELLAR ACCRETION. <i>Astrophysical Journal Letters</i> , 2014, 797, L5.	3.0	22
18	USING CORONAL LOOPS TO RECONSTRUCT THE MAGNETIC FIELD OF AN ACTIVE REGION BEFORE AND AFTER A MAJOR FLARE. <i>Astrophysical Journal</i> , 2014, 783, 102.	1.6	57

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19	The Interface Region Imaging Spectrograph (IRIS). <i>Solar Physics</i> , 2014, 289, 2733-2779.	1.0	948
20	Photometric and Thermal Cross-calibration of Solar EUV Instruments. <i>Solar Physics</i> , 2014, 289, 2377-2397.	1.0	79
21	Assessing the impact of space weather on the electric power grid based on insurance claims for industrial electrical equipment. <i>Space Weather</i> , 2014, 12, 487-498.	1.3	64
22	Space Weather From Explosions on the Sun: How Bad Could It Be?. <i>Eos</i> , 2014, 95, 201-202.	0.1	12
23	LARGE-SCALE CORONAL PROPAGATING FRONTS IN SOLAR ERUPTIONS AS OBSERVED BY THE ATMOSPHERIC IMAGING ASSEMBLY ON BOARD THE SOLAR DYNAMICS OBSERVATORY—AN ENSEMBLE STUDY. <i>Astrophysical Journal</i> , 2013, 776, 58.	1.6	101
24	Comets as solar probes. <i>Physics Today</i> , 2013, 66, 27-32.	0.3	22
25	Probing the Solar Magnetic Field with a Sun-Grazing Comet. <i>Science</i> , 2013, 340, 1196-1199.	6.0	55
26	PATHWAYS OF LARGE-SCALE MAGNETIC COUPLINGS BETWEEN SOLAR CORONAL EVENTS. <i>Astrophysical Journal</i> , 2013, 773, 93.	1.6	50
27	Bright Hot Impacts by Erupted Fragments Falling Back on the Sun: A Template for Stellar Accretion. <i>Science</i> , 2013, 341, 251-253.	6.0	47
28	A survey of customers of space weather information. <i>Space Weather</i> , 2013, 11, 529-541.	1.3	69
29	The standard flare model in three dimensions. <i>Astronomy and Astrophysics</i> , 2013, 549, A66.	2.1	158
30	Disturbances in the US electric grid associated with geomagnetic activity. <i>Journal of Space Weather and Space Climate</i> , 2013, 3, A19.	1.1	25
31	Destruction of Sun-Grazing Comet C/2011 N3 (SOHO) Within the Low Solar Corona. <i>Science</i> , 2012, 335, 324-328.	6.0	30
32	QUASI-PERIODIC FAST-MODE WAVE TRAINS WITHIN A GLOBAL EUV WAVE AND SEQUENTIAL TRANSVERSE OSCILLATIONS DETECTED BY SDO/AIA. <i>Astrophysical Journal</i> , 2012, 753, 52.	1.6	131
33	Estimating the frequency of extremely energetic solar events, based on solar, stellar, lunar, and terrestrial records. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	141
34	GUIDING NONLINEAR FORCE-FREE MODELING USING CORONAL OBSERVATIONS: FIRST RESULTS USING A QUASI-GRAD-RUBIN SCHEME. <i>Astrophysical Journal</i> , 2012, 756, 153.	1.6	54
35	The Atmospheric Imaging Assembly (AIA) on the Solar Dynamics Observatory (SDO). <i>Solar Physics</i> , 2012, 275, 17-40.	1.0	3,385
36	The Helioseismic and Magnetic Imager (HMI) Investigation for the Solar Dynamics Observatory (SDO). <i>Solar Physics</i> , 2012, 275, 207-227.	1.0	1,677

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37	Long-range magnetic couplings between solar flares and coronal mass ejections observed by SDO and STEREO. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	142
38	The minimal solar activity in 2008-2009 and its implications for long-term climate modeling. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	84
39	THE 2011 FEBRUARY 15 X2 FLARE, RIBBONS, CORONAL FRONT, AND MASS EJECTION: INTERPRETING THE THREE-DIMENSIONAL VIEWS FROM THE <i>SOLAR DYNAMICS OBSERVATORY</i> AND <i>STEREO</i> GUIDED BY MAGNETOHYDRODYNAMIC FLUX-ROPE MODELING. <i>Astrophysical Journal</i> , 2011, 738, 167.	1.6	156
40	COMMISSION 10: SOLAR ACTIVITY. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 69-80.	0.0	3
41	NEW SOLAR EXTREME-ULTRAVIOLET IRRADIANCE OBSERVATIONS DURING FLARES. <i>Astrophysical Journal</i> , 2011, 739, 59.	1.6	144
42	CORONAL LOOP OSCILLATIONS OBSERVED WITH ATMOSPHERIC IMAGING ASSEMBLY KINK MODE WITH CROSS-SECTIONAL AND DENSITY OSCILLATIONS. <i>Astrophysical Journal</i> , 2011, 736, 102.	1.6	150
43	DIRECT IMAGING OF QUASI-PERIODIC FAST PROPAGATING WAVES OF $\sim 1/42000 \text{ km s}^{-1}$ IN THE LOW SOLAR CORONA BY THE <i>SOLAR DYNAMICS OBSERVATORY</i> ATMOSPHERIC IMAGING ASSEMBLY. <i>Astrophysical Journal Letters</i> , 2011, 736, L13.	3.0	128
44	Solar spectral irradiance: measurements and models. , 2010, , 269-298.		14
45	Terrestrial ionospheres. , 2010, , 351-362.		2
46	Perspective on heliophysics. , 2010, , 1-14.		1
47	Introduction to space storms and radiation. , 2010, , 15-42.		1
48	<i>In-situ</i> detection of energetic particles. , 2010, , 43-78.		2
49	Energetic particles and manned spaceflight. , 2010, , 359-380.		2
50	The heliosphere and cosmic rays. , 2010, , 243-268.		1
51	Energetic particles and technology. , 2010, , 381-400.		2
52	Radiative signatures of energetic particles. , 2010, , 79-122.		2
53	Observations of solar and stellar eruptions, flares, and jets. , 2010, , 123-158.		7
54	Models of coronal mass ejections and flares. , 2010, , 159-192.		26

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55	ERUPTIONS FROM SOLAR EPHEMERAL REGIONS AS AN EXTENSION OF THE SIZE DISTRIBUTION OF CORONAL MASS EJECTIONS. <i>Astrophysical Journal</i> , 2010, 710, 1480-1485.	1.6	24
56	THE NATURE OF FLARE RIBBONS IN CORONAL NULL-POINT TOPOLOGY. <i>Astrophysical Journal</i> , 2009, 700, 559-578.	1.6	288
57	A CRITICAL ASSESSMENT OF NONLINEAR FORCE-FREE FIELD MODELING OF THE SOLAR CORONA FOR ACTIVE REGION 10953. <i>Astrophysical Journal</i> , 2009, 696, 1780-1791.	1.6	318
58	Driving major solar flares and eruptions: A review. <i>Advances in Space Research</i> , 2009, 43, 739-755.	1.2	173
59	Nonlinear Force-Free Modeling of Coronal Magnetic Fields. II. Modeling a Filament Arcade and Simulated Chromospheric and Photospheric Vector Fields. <i>Solar Physics</i> , 2008, 247, 269-299.	1.0	186
60	The Global Solar Magnetic Field Through a Full Sunspot Cycle: Observations and Model Results. <i>Solar Physics</i> , 2008, 252, 19-31.	1.0	63
61	Nonlinear Force-free Field Modeling of a Solar Active Region around the Time of a Major Flare and Coronal Mass Ejection. <i>Astrophysical Journal</i> , 2008, 675, 1637-1644.	1.6	254
62	The Dependence of Ephemeral Region Emergence on Local Flux Imbalance. <i>Astrophysical Journal</i> , 2008, 678, 541-548.	1.6	52
63	A Characteristic Magnetic Field Pattern Associated with All Major Solar Flares and Its Use in Flare Forecasting. <i>Astrophysical Journal</i> , 2007, 655, L117-L120.	1.6	259
64	On Connecting the Dynamics of the Chromosphere and Transition Region with Hinode SOT and EIS. <i>Publication of the Astronomical Society of Japan</i> , 2007, 59, S699-S706.	1.0	16
65	Nonlinear Force-Free Modeling of Coronal Magnetic Fields Part I: A Quantitative Comparison of Methods. <i>Solar Physics</i> , 2006, 235, 161-190.	1.0	286
66	The Heating of Cool Star Coronae: From Individual Loops to Global Flux-Flux Scalings. <i>Astrophysical Journal</i> , 2005, 619, 1077-1083.	1.6	17
67	The Nonpotentiality of Active-Region Coronae and the Dynamics of the Photospheric Magnetic Field. <i>Astrophysical Journal</i> , 2005, 628, 501-513.	1.6	142
68	Photospheric and heliospheric magnetic fields. <i>Solar Physics</i> , 2003, 212, 165-200.	1.0	560
69	The Properties of Small Magnetic Regions on the Solar Surface and the Implications for the Solar Dynamo(s). <i>Astrophysical Journal</i> , 2003, 584, 1107-1119.	1.6	169
70	Asterospheric Magnetic Fields and Winds of Cool Stars. <i>Astrophysical Journal</i> , 2003, 590, 493-501.	1.6	34
71	Title is missing!. <i>Solar Physics</i> , 2002, 206, 99-132.	1.0	344
72	Title is missing!. <i>Solar Physics</i> , 2002, 206, 69-98.	1.0	216

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73	What Is Missing from Our Understanding of Long-Term Solar and Heliospheric Activity?. Astrophysical Journal, 2002, 577, 1006-1012.	1.6	134
74	Simulations of the Photospheric Magnetic Activity and Outer Atmospheric Radiative Losses of Cool Stars Based on Characteristics of the Solar Magnetic Field. Astrophysical Journal, 2001, 547, 475-490.	1.6	138
75	On the Formation of Polar Spots in Sun-like Stars. Astrophysical Journal, 2001, 551, 1099-1106.	1.6	152
76	Time Variability of the "Quiet" Sun Observed with TRACE. II. Physical Parameters, Temperature Evolution, and Energetics of Extreme-Ultraviolet Nanoflares. Astrophysical Journal, 2000, 535, 1047-1065.	1.6	291
77	Coronal Loop Oscillations Observed with the Transition Region and Coronal Explorer. Astrophysical Journal, 1999, 520, 880-894.	1.6	801
78	Sustaining the Quiet Photospheric Network: The Balance of Flux Emergence, Fragmentation, Merging, and Cancellation. Astrophysical Journal, 1997, 487, 424-436.	1.6	303
79	The photospheric magnetic flux budget. Solar Physics, 1994, 150, 1-18.	1.0	121
80	Relations between the photospheric magnetic field and the emission from the outer atmospheres of cool stars. I - The solar CA II K line core emission. Astrophysical Journal, 1989, 337, 964.	1.6	188
81	Interconnectedness in heliophysics. , 0, , 1-10.		0
82	Long-term evolution of magnetic activity of Sun-like stars. , 0, , 11-48.		0
83	Formation and early evolution of stars and protoplanetary disks. , 0, , 49-78.		0
84	Planetary habitability on astronomical time scales. , 0, , 79-98.		2
85	Modeling solar and stellar dynamos. , 0, , 141-178.		0
86	Planetary fields and dynamos. , 0, , 179-216.		0
87	The structure and evolution of the three-dimensional solar wind. , 0, , 217-242.		1
88	Astrophysical influences on planetary climate systems. , 0, , 299-332.		0
89	Assessing the Sun's climate relationship in paleoclimate records. , 0, , 333-350.		0
90	Long-term evolution of the geospace climate. , 0, , 363-388.		0

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91	Particle acceleration in shocks. , 0 , 209-232.		3
92	Energy conversion in planetary magnetospheres. , 0 , 263-292.		4
93	Energization of trapped particles. , 0 , 293-320.		0
94	Flares, coronal mass ejections, and atmospheric responses. , 0 , 321-358.		6
95	Energetic particle transport. , 0 , 233-262.		7
96	Solar variability, climate, and atmospheric photochemistry. , 0 , 425-448.		0
97	Waves and transport processes in atmospheres and oceans. , 0 , 389-424.		0
98	Solar internal flows and dynamo action. , 0 , 99-140.		0
99	Shocks in heliophysics. , 0 , 193-208.		1
100	Solar explosive activity throughout the evolution of the solar system. , 0 , 23-55.		3
101	Effects of stellar eruptions throughout astrospheres. , 0 , 80-103.		0
102	Characteristics of planetary systems. , 0 , 104-125.		0
103	Planetary dynamos: updates and new frontiers. , 0 , 126-146.		0
104	Climates of terrestrial planets. , 0 , 147-174.		2
105	Upper atmospheres of the giant planets. , 0 , 175-200.		0
106	Aeronomy of terrestrial upper atmospheres. , 0 , 201-225.		2
107	Moons, asteroids, and comets interacting with their surroundings. , 0 , 226-250.		0
108	Dusty plasmas. , 0 , 251-269.		0

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109	Energetic-particle environments in the solar system. , 0, , 270-288.		0
110	Heliophysics with radio scintillation and occultation. , 0, , 289-326.		5
111	Authors and editors. , 0, , 327-328.		0
112	Astrospheres, stellar winds, and the interstellar medium. , 0, , 56-79.		0