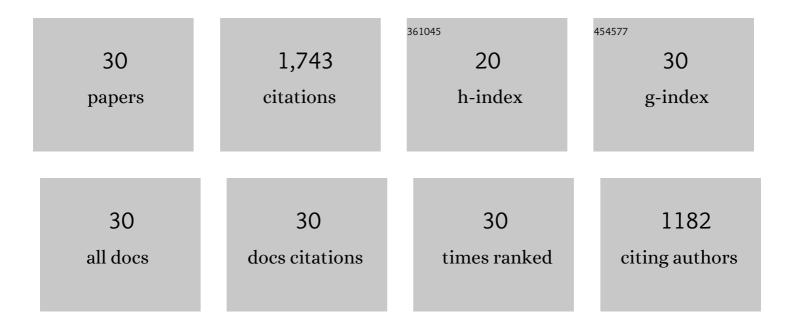
## Brian T Welsch

List of Publications by Year in descending order

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RDIAN T WEISCH

#	Article	IF	CITATIONS
1	Data-driven, time-dependent modeling of pre-eruptive coronal magnetic field configuration at the periphery of NOAA AR 11726. Astronomy and Astrophysics, 2022, 658, A200.	2.1	10
2	Toward Improved Understanding of Magnetic Fields Participating in Solar Flares: Statistical Analysis of Magnetic Fields within Flare Ribbons. Astrophysical Journal, 2022, 926, 56.	1.6	9
3	Invited Review: Short-term Variability with the Observations from the Helioseismic and Magnetic Imager (HMI) Onboard the Solar Dynamics Observatory (SDO): Insights into Flare Magnetism. Solar Physics, 2022, 297, .	1.0	11
4	Reconstruction of Photospheric Velocity Fields from Highly Corrupted Data. Astrophysical Journal, 2022, 933, 2.	1.6	3
5	Critical Science Plan for the Daniel K. Inouye Solar Telescope (DKIST). Solar Physics, 2021, 296, 1.	1.0	65
6	The PDFI_SS Electric Field Inversion Software. Astrophysical Journal, Supplement Series, 2020, 248, 2.	3.0	24
7	The Coronal Global Evolutionary Model: Using HMI Vector Magnetogram and Doppler Data to Determine Coronal Magnetic Field Evolution. Astrophysical Journal, Supplement Series, 2020, 250, 28.	3.0	22
8	Probing the Effect of Cadence on the Estimates of Photospheric Energy and Helicity Injections in Eruptive Active Region NOAA AR 11158. Solar Physics, 2019, 294, 1.	1.0	10
9	Flux Accretion and Coronal Mass Ejection Dynamics. Solar Physics, 2018, 293, 1.	1.0	28
10	A Database of Flare Ribbon Properties from the Solar Dynamics Observatory. I. Reconnection Flux. Astrophysical Journal, 2017, 845, 49.	1.6	98
11	The Roles of Reconnected Flux and Overlying Fields in CME Speeds. Solar Physics, 2017, 292, 1.	1.0	11
12	Deriving Potential Coronal Magnetic Fields from Vector Magnetograms. Solar Physics, 2016, 291, 1681-1710.	1.0	3
13	Active Region Emergence and Remote Flares. Solar Physics, 2016, 291, 383-410.	1.0	8
14	The Coronal Global Evolutionary Model: Using HMI Vector Magnetogram and Doppler Data to Model the Buildup of Free Magnetic Energy in the Solar Corona. Space Weather, 2015, 13, 369-373.	1.3	51
15	PHOTOSPHERIC ELECTRIC FIELDS AND ENERGY FLUXES IN THE ERUPTIVE ACTIVE REGION NOAA 11158. Astrophysical Journal, 2015, 811, 16.	1.6	47
16	A COMPREHENSIVE METHOD OF ESTIMATING ELECTRIC FIELDS FROM VECTOR MAGNETIC FIELD AND DOPPLER MEASUREMENTS. Astrophysical Journal, 2014, 795, 17.	1.6	56
17	A MAGNETIC CALIBRATION OF PHOTOSPHERIC DOPPLER VELOCITIES. Astrophysical Journal, 2013, 765, 98.	1.6	32
18	GLOBAL ENERGETICS OF THIRTY-EIGHT LARGE SOLAR ERUPTIVE EVENTS. Astrophysical Journal, 2012, 759, 71.	1.6	340

BRIAN T WELSCH

#	Article	IF	CITATIONS
19	DECORRELATION TIMES OF PHOTOSPHERIC FIELDS AND FLOWS. Astrophysical Journal, 2012, 747, 130.	1.6	15
20	ARE DECAYING MAGNETIC FIELDS ABOVE ACTIVE REGIONS RELATED TO CORONAL MASS EJECTION ONSET?. Astrophysical Journal, 2012, 758, 22.	1.6	3
21	Can We Determine Electric Fields and Poynting Fluxes from Vector Magnetograms and Doppler Measurements?. Solar Physics, 2012, 277, 153-163.	1.0	29
22	Clobal Forces in Eruptive Solar Flares: The Lorentz Force Acting on the Solar Atmosphere and the Solar Interior. Solar Physics, 2012, 277, 59-76.	1.0	109
23	ESTIMATING ELECTRIC FIELDS FROM VECTOR MAGNETOGRAM SEQUENCES. Astrophysical Journal, 2010, 715, 242-259.	1.6	48
24	WHAT IS THE RELATIONSHIP BETWEEN PHOTOSPHERIC FLOW FIELDS AND SOLAR FLARES?. Astrophysical Journal, 2009, 705, 821-843.	1.6	75
25	Tests and Comparisons of Velocityâ€Inversion Techniques. Astrophysical Journal, 2007, 670, 1434-1452.	1.6	103
26	Solar Magnetic Tracking. I. Software Comparison and Recommended Practices. Astrophysical Journal, 2007, 666, 576-587.	1.6	105
27	Magnetic Flux Cancellation and Coronal Magnetic Energy. Astrophysical Journal, 2006, 638, 1101-1109.	1.6	36
28	ILCT: Recovering Photospheric Velocities from Magnetograms by Combining the Induction Equation with Local Correlation Tracking. Astrophysical Journal, 2004, 610, 1148-1156.	1.6	171
29	Magnetic Helicity Injection by Horizontal Flows in the Quiet Sun. I. Mutualâ€Helicity Flux. Astrophysical Journal, 2003, 588, 620-629.	1.6	79
30	A Model for the Emergence of a Twisted Magnetic Flux Tube. Astrophysical Journal, 2000, 545, 1089-1100.	1.6	142