Jerald W Harder

List of Publications by Year
in descending order

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26 papers	1,751 citations	516215 16 h-index	580395 25 g-index
26 all docs	26 docs citations	26 times ranked	1917 citing authors

#	Article	IF	Citations
1	SORCE Contributions to New Understanding of Global Change and Solar Variability. Solar Physics, 2005, 230, 27-53.	1.0	280
2	An influence of solar spectral variations on radiative forcing of climate. Nature, 2010, 467, 696-699.	13.7	242
3	Trends in solar spectral irradiance variability in the visible and infrared. Geophysical Research Letters, 2009, 36, .	1.5	202
4	Solar Irradiance Reference Spectra (SIRS) for the 2008 Whole Heliosphere Interval (WHI). Geophysical Research Letters, 2009, 36, .	1.5	171
5	Solar irradiance variability during the October 2003 solar storm period. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	166
6	The Spectral Irradiance Monitor: Scientific Requirements, Instrument Design, and Operation Modes. Solar Physics, 2005, 230, 141-167.	1.0	101
7	The solar magnetic activity band interaction and instabilities that shape quasi-periodic variability. Nature Communications, 2015, 6, 6491.	5.8	97
8	Regional climate impacts of a possible future grand solar minimum. Nature Communications, 2015, 6, 7535.	5.8	75
9	The impact of solar spectral irradiance variability on middle atmospheric ozone. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	70
10	The Mg II Index from SORCE. Solar Physics, 2005, 230, 325-344.	1.0	54
11	The Spectral Irradiance Monitor: Measurement Equations and Calibration. Solar Physics, 2005, 230, 169-204.	1.0	53
12	Decoupling Solar Variability and Instrument Trends Using the Multiple Same-Irradiance-Level (MuSIL) Analysis Technique. Solar Physics, 2018, 293, 76.	1.0	43
13	Temperature responses to spectral solar variability on decadal time scales. Geophysical Research Letters, 2010, 37, .	1.5	35
14	The Spectral Irradiance Monitor (SIM): Early Observations. Solar Physics, 2005, 230, 205-224.	1.0	31
15	A Different View of Solar Spectral Irradiance Variations: Modeling Total Energy over Six-Month Intervals. Solar Physics, 2015, 290, 2649-2676.	1.0	24
16	Revision of the Sunâ€™s Spectral Irradiance as Measured by SORCE SIM. Solar Physics, 2018, 293, 1.	1.0	18
17	Midlatitude atmospheric OH response to the most recent 11-y solar cycle. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2023-2028.	3.3	17
18	Overview of the Solar Radiation and Climate Experiment (SORCE) Seventeen-Year Mission. Solar Physics, 2021, 296, 127.	1.0	16

#	Article	IF	Citations
19	How long do satellites need to overlap? Evaluation of climate data stability from overlapping satellite records. Atmospheric Chemistry and Physics, 2017, 17, 15069-15093.	1.9	14
20	Solar-Cycle Variability Results from the Solar Radiation and Climate Experiment (SORCE) Mission. Solar Physics, 2022, 297, 43.	1.0	14
21	SORCEâ€Based Solar Spectral Irradiance (SSI) Record for Input Into Chemistryâ€Climate Studies. Earth and Space Science, 2019, 6, 2487-2507.	1.1	8
22	Long-Term Trend Analysis in the Solar Radiation and Climate Experiment (SORCE)/Spectral Irradiance Monitor (SIM). Solar Physics, 2022, 297, .	1.0	6
23	Reconciliation of modeled climate responses to spectral solar forcing. Journal of Geophysical Research D: Atmospheres, 2013, 118, 6281-6289.	1.2	5
24	SORCE and TSISâ€1 SIM Comparison: Absolute Irradiance Scale Reconciliation. Earth and Space Science, 2022, 9, .	1.1	5
25	Ultraviolet Solar Spectral Irradiance Variation on Solar Cycle Timescales. Proceedings of the International Astronomical Union, 2018, 13, 203-208.	0.0	3
26	Spectral solar UV radiation and its variability and climate responses. , 2013, , .		1