Sarah E Gibson

List of Publications by Year
in descending order

42	892	567281 15	477307 29
papers	citations	h-index	g-index

43	43	43	906
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Origins of the Ambient Solar Wind: Implications for Space Weather. Space Science Reviews, 2017, 212, 1345-1384.	8.1	107
2	Global maps of the magnetic field in the solar corona. Science, 2020, 369, 694-697.	12.6	92
3	Solar prominences: theory and models. Living Reviews in Solar Physics, 2018, 15, 7.	22.0	82
4	FORWARD: A Toolset for Multiwavelength Coronal Magnetometry. Frontiers in Astronomy and Space Sciences, 2016, 3, .	2.8	79
5	THE MAGNETIC STRUCTURE OF SOLAR PROMINENCE CAVITIES: NEW OBSERVATIONAL SIGNATURE REVEALED BY CORONAL MAGNETOMETRY. Astrophysical Journal Letters, 2013, 770, L28.	8.3	78
6	Critical Science Plan for the Daniel K. Inouye Solar Telescope (DKIST). Solar Physics, 2021, 296, 1.	2.5	65
7	THERMAL PROPERTIES OF A SOLAR CORONAL CAVITY OBSERVED WITH THE X-RAY TELESCOPE ONHINODE. Astrophysical Journal, 2012, 746, 146.	4.5	48
8	Coronal Cavities: Observations and Implications for the Magnetic Environment of Prominences. Astrophysics and Space Science Library, 2015, , 323-353.	2.7	36
9	Type III Solar Radio Burst Source Region Splitting due to a Quasi-separatrix Layer. Astrophysical Journal, 2017, 851, 151.	4.5	31
10	DIAGNOSING THE PROMINENCE-CAVITY CONNECTION. Astrophysical Journal, 2013, 770, 35.	4.5	26
11	A Snapshot of the Sun Near Solar Minimum: The Whole Heliosphere Interval. Solar Physics, 2011, 274, 29-56.	2.5	25
12	Diagnostics of Coronal Magnetic Fields through the Hanle Effect in UV and IR Lines. Frontiers in Astronomy and Space Sciences, 2016, 3, .	2.8	25
13	Global Solar Magnetic Field Evolution Over 4 Solar Cycles: Use of the McIntosh Archive. Frontiers in Astronomy and Space Sciences, 2018, 5, .	2.8	23
14	Magnetic Nulls and Super-radial Expansion in the Solar Corona. Astrophysical Journal Letters, 2017, 840, L13.	8.3	22
15	The Evolution of Coronal Holes over Three Solar Cycles Using the McIntosh Archive. Solar Physics, 2020, 295, 1.	2.5	17
16	Line-of-Sight Velocity As a Tracer of Coronal Cavity Magnetic Structure. Frontiers in Astronomy and Space Sciences, 2016, 3, .	2.8	14
17	Simulating the Solar Corona in the Forbidden and Permitted Lines with Forward Modeling. I. Saturated and Unsaturated Hanle Regimes. Astrophysical Journal, 2019, 883, 55.	4.5	12
18	Simulating the Solar Minimum Corona in UV Wavelengths with Forward Modeling II. Doppler Dimming and Microscopic Anisotropy Effect. Astrophysical Journal, 2021, 912, 141.	4.5	11

#	Article	IF	Citations
19	SunCET: The Sun Coronal Ejection Tracker Concept. Journal of Space Weather and Space Climate, 2021, 11, 20.	3.3	11
20	ROAM: A Radial-Basis-Function Optimization Approximation Method for Diagnosing the Three-Dimensional Coronal Magnetic Field. Frontiers in Astronomy and Space Sciences, 2016, 3, .	2.8	10
21	The Eruption of a Prominence-carrying Coronal Flux Rope: Forward Synthesis of the Magnetic Field Strength Measurement by the COronal Solar Magnetism Observatory Large Coronagraph. Astrophysical Journal, 2018, 866, 57.	4.5	10
22	The Sunâ€“Earth Connection near Solar Minimum: Placing it into Context. Solar Physics, 2011, 274, 1-3.	2.5	9
23	Preserving a Unique Archive for Longâ€Term Solar Variability Studies. Space Weather, 2017, 15, 1442-1446.	3.7	7
24	Magnetofrictional Modeling of an Erupting Pseudostreamer. Astrophysical Journal, 2021, 913, 47.	4.5	7
25	Tracking Movement of Long-lived Equatorial Coronal Holes from Analysis of Long-term McIntosh Archive Data. Astrophysical Journal, 2022, 931, 54.	4.5	6
26	Beyond sunspots: Studies using the McIntosh Archive of global solar magnetic field patterns. Proceedings of the International Astronomical Union, 2016, 12, 93-100.	0.0	5
27	Forward Modeling of a Pseudostreamer. Astrophysical Journal, 2019, 883, 74.	4.5	5
28	Thermal Properties of Coronal Cavities. Solar Physics, 2019, 294, 1.	2.5	4
29	The spatial relation between EUV cavities and linear polarization signatures. Proceedings of the International Astronomical Union, 2013, 8, 395-396.	0.0	3
30	Data-model comparison using FORWARD and CoMP. Proceedings of the International Astronomical Union, 2014, 10, 245-250.	0.0	3
31	A porcupine Sun? Implications for the solar wind and Earth. Proceedings of the International Astronomical Union, 2011, 7, 210-214.	0.0	2
32	Magnetism and the Invisible Man: The mysteries of coronal cavities. Proceedings of the International Astronomical Union, 2013, 8, 139-146.	0.0	2
33	The Formation of a Cavity in a 3D Flux Rope. Proceedings of the International Astronomical Union, 2013, 8, 147-150.	0.0	2
34	Convolutional Neural Networks for Predicting the Strength of the Near-Earth Magnetic Field Caused by Interplanetary Coronal Mass Ejections. Frontiers in Astronomy and Space Sciences, 2020, 7, .	2.8	2
35	Inward-propagating Plasma Parcels in the Solar Corona: Models with Aerodynamic Drag, Ablation, and Snowplow Accretion. Astrophysical Journal, 2021, 913, 4.	4.5	2
36	Solving 3D magnetohydrostatics with RBF-FD: Applications to the solar corona. Journal of Computational Physics, 2022, 462, 111214.	3.8	2

#	Article	IF	Citations
37	Whole Heliosphere Interval: Overview of JD16. Proceedings of the International Astronomical Union, 2009, 5, 471-479.	0.0	1
38	Designing a New Coronal Magnetic Field Energy Diagnostic. Astrophysical Journal, 2021, 907, 23.	4.5	1
39	Origins of the Ambient Solar Wind: Implications for Space Weather. Space Sciences Series of ISSI, 2017, , 41-80.	0.0	1
40	Reconstructing the Coronal Magnetic Field: The Role of Cross-field Currents in Solution Uniqueness. Astrophysical Journal, 2020, 898, 70.	4.5	1
41	Coronal Cavities in CoMP Observations. Astrophysical Journal, 2022, 926, 146.	4.5	1
42	Partially-ejected flux ropes: implications for space weather. Proceedings of the International Astronomical Union, 2006, 2, 319.	0.0	0