

Sarah E Gibson

List of Publications by Year in descending order

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papers

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567281

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docs citations

43
times ranked

906
citing authors

#	ARTICLE	IF	CITATIONS
1	Coronal Cavities in CoMP Observations. <i>Astrophysical Journal</i> , 2022, 926, 146.	4.5	1
2	Solving 3D magnetohydrostatics with RBF-FD: Applications to the solar corona. <i>Journal of Computational Physics</i> , 2022, 462, 111214.	3.8	2
3	Tracking Movement of Long-lived Equatorial Coronal Holes from Analysis of Long-term McIntosh Archive Data. <i>Astrophysical Journal</i> , 2022, 931, 54.	4.5	6
4	Designing a New Coronal Magnetic Field Energy Diagnostic. <i>Astrophysical Journal</i> , 2021, 907, 23.	4.5	1
5	Critical Science Plan for the Daniel K. Inouye Solar Telescope (DKIST). <i>Solar Physics</i> , 2021, 296, 1.	2.5	65
6	Simulating the Solar Minimum Corona in UV Wavelengths with Forward Modeling II. Doppler Dimming and Microscopic Anisotropy Effect. <i>Astrophysical Journal</i> , 2021, 912, 141.	4.5	11
7	Inward-propagating Plasma Parcels in the Solar Corona: Models with Aerodynamic Drag, Ablation, and Snowplow Accretion. <i>Astrophysical Journal</i> , 2021, 913, 4.	4.5	2
8	Magnetofrictional Modeling of an Erupting Pseudostreamer. <i>Astrophysical Journal</i> , 2021, 913, 47.	4.5	7
9	SunCET: The Sun Coronal Ejection Tracker Concept. <i>Journal of Space Weather and Space Climate</i> , 2021, 11, 20.	3.3	11
10	Convolutional Neural Networks for Predicting the Strength of the Near-Earth Magnetic Field Caused by Interplanetary Coronal Mass Ejections. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 7, .	2.8	2
11	The Evolution of Coronal Holes over Three Solar Cycles Using the McIntosh Archive. <i>Solar Physics</i> , 2020, 295, 1.	2.5	17
12	Global maps of the magnetic field in the solar corona. <i>Science</i> , 2020, 369, 694-697.	12.6	92
13	Reconstructing the Coronal Magnetic Field: The Role of Cross-field Currents in Solution Uniqueness. <i>Astrophysical Journal</i> , 2020, 898, 70.	4.5	1
14	Forward Modeling of a Pseudostreamer. <i>Astrophysical Journal</i> , 2019, 883, 74.	4.5	5
15	Simulating the Solar Corona in the Forbidden and Permitted Lines with Forward Modeling. I. Saturated and Unsaturated Hanle Regimes. <i>Astrophysical Journal</i> , 2019, 883, 55.	4.5	12
16	Thermal Properties of Coronal Cavities. <i>Solar Physics</i> , 2019, 294, 1.	2.5	4
17	Global Solar Magnetic Field Evolution Over 4 Solar Cycles: Use of the McIntosh Archive. <i>Frontiers in Astronomy and Space Sciences</i> , 2018, 5, .	2.8	23
18	Solar prominences: theory and models. <i>Living Reviews in Solar Physics</i> , 2018, 15, 7.	22.0	82

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19	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. <i>Astrophysical Journal</i> , 2018, 866, 57.	4.5	10
20	Magnetic Nulls and Super-radial Expansion in the Solar Corona. <i>Astrophysical Journal Letters</i> , 2017, 840, L13.	8.3	22
21	Origins of the Ambient Solar Wind: Implications for Space Weather. <i>Space Science Reviews</i> , 2017, 212, 1345-1384.	8.1	107
22	Preserving a Unique Archive for Long-term Solar Variability Studies. <i>Space Weather</i> , 2017, 15, 1442-1446.	3.7	7
23	Type III Solar Radio Burst Source Region Splitting due to a Quasi-separatrix Layer. <i>Astrophysical Journal</i> , 2017, 851, 151.	4.5	31
24	Origins of the Ambient Solar Wind: Implications for Space Weather. <i>Space Sciences Series of ISSI</i> , 2017, , 41-80.	0.0	1
25	Line-of-Sight Velocity As a Tracer of Coronal Cavity Magnetic Structure. <i>Frontiers in Astronomy and Space Sciences</i> , 2016, 3, .	2.8	14
26	FORWARD: A Toolset for Multiwavelength Coronal Magnetometry. <i>Frontiers in Astronomy and Space Sciences</i> , 2016, 3, .	2.8	79
27	Diagnostics of Coronal Magnetic Fields through the Hanle Effect in UV and IR Lines. <i>Frontiers in Astronomy and Space Sciences</i> , 2016, 3, .	2.8	25
28	ROAM: A Radial-Basis-Function Optimization Approximation Method for Diagnosing the Three-Dimensional Coronal Magnetic Field. <i>Frontiers in Astronomy and Space Sciences</i> , 2016, 3, .	2.8	10
29	Beyond sunspots: Studies using the McIntosh Archive of global solar magnetic field patterns. <i>Proceedings of the International Astronomical Union</i> , 2016, 12, 93-100.	0.0	5
30	Coronal Cavities: Observations and Implications for the Magnetic Environment of Prominences. <i>Astrophysics and Space Science Library</i> , 2015, , 323-353.	2.7	36
31	Data-model comparison using FORWARD and CoMP. <i>Proceedings of the International Astronomical Union</i> , 2014, 10, 245-250.	0.0	3
32	THE MAGNETIC STRUCTURE OF SOLAR PROMINENCE CAVITIES: NEW OBSERVATIONAL SIGNATURE REVEALED BY CORONAL MAGNETOMETRY. <i>Astrophysical Journal Letters</i> , 2013, 770, L28.	8.3	78
33	Magnetism and the Invisible Man: The mysteries of coronal cavities. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 139-146.	0.0	2
34	The Formation of a Cavity in a 3D Flux Rope. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 147-150.	0.0	2
35	The spatial relation between EUV cavities and linear polarization signatures. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 395-396.	0.0	3
36	DIAGNOSING THE PROMINENCE-CAVITY CONNECTION. <i>Astrophysical Journal</i> , 2013, 770, 35.	4.5	26

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37	THERMAL PROPERTIES OF A SOLAR CORONAL CAVITY OBSERVED WITH THE X-RAY TELESCOPE ON <i>Hinode</i> . <i>Astrophysical Journal</i> , 2012, 746, 146.	4.5	48
38	A porcupine Sun? Implications for the solar wind and Earth. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 210-214.	0.0	2
39	A Snapshot of the Sun Near Solar Minimum: The Whole Heliosphere Interval. <i>Solar Physics</i> , 2011, 274, 29-56.	2.5	25
40	The Sun-Earth Connection near Solar Minimum: Placing it into Context. <i>Solar Physics</i> , 2011, 274, 1-3.	2.5	9
41	Whole Heliosphere Interval: Overview of JD16. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 471-479.	0.0	1
42	Partially-ejected flux ropes: implications for space weather. <i>Proceedings of the International Astronomical Union</i> , 2006, 2, 319.	0.0	0