Antoinette B Galvin

List of Publications by Year
in descending order

71 papers	3,513 citations	136740 32 h-index	138251 58 g-index
71 all docs	71 docs citations	71 times ranked	1939 citing authors

#	Article	IF	Citations
1	The Plasma and Suprathermal Ion Composition (PLASTIC) Investigation on the STEREO Observatories. Space Science Reviews, 2008, 136, 437-486.	3.7	360
2	Observations of an extreme storm in interplanetary space caused by successive coronal mass ejections. Nature Communications, 2014, 5, 3481.	5.8	223
3	A major solar eruptive event in July 2012: Defining extreme space weather scenarios. Space Weather, 2013, 11, 585-591.	1.3	189
4	CONNECTING SPEEDS, DIRECTIONS AND ARRIVAL TIMES OF 22 CORONAL MASS EJECTIONS FROM THE SUN TO 1 AU. Astrophysical Journal, 2014, 787, 119.	1.6	145
5	Multispacecraft observation of magnetic cloud erosion by magnetic reconnection during propagation. Journal of Geophysical Research, 2012, 117, .	3.3	143
6	Interstellar Mapping and Acceleration Probe (IMAP): A New NASA Mission. Space Science Reviews, 2018, 214, 1.	3.7	129
7	THE VERY UNUSUAL INTERPLANETARY CORONAL MASS EJECTION OF 2012 JULY 23: A BLAST WAVE MEDIATED BY SOLAR ENERGETIC PARTICLES. Astrophysical Journal, 2013, 770, 38.	1.6	123
8	MULTI-POINT SHOCK AND FLUX ROPE ANALYSIS OF MULTIPLE INTERPLANETARY CORONAL MASS EJECTIONS AROUND 2010 AUGUST 1 IN THE INNER HELIOSPHERE. Astrophysical Journal, 2012, 758, 10.	1.6	109
9	Statistical study of magnetic cloud erosion by magnetic reconnection. Journal of Geophysical Research: Space Physics, 2015, 120, 43-60.	0.8	106
10	STEREO observations of interplanetary coronal mass ejections and prominence deflection during solar minimum period. Annales Geophysicae, 2009, 27, 4491-4503.	0.6	102
11	Consequences of the force-free model of magnetic clouds for their heliospheric evolution. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	95
12	A Multispacecraft Analysis of a Small-Scale Transient Entrained by Solar Wind Streams. Solar Physics, 2009, 256, 307-326.	1.0	93
13	STEREO and Wind observations of a fast ICME flank triggering a prolonged geomagnetic storm on 5â€“7 April 2010. Geophysical Research Letters, 2010, 37, .	1.5	92
14	LINKING REMOTE IMAGERY OF A CORONAL MASS EJECTION TO ITS IN SITU SIGNATURES AT 1 AU. Astrophysical Journal, 2009, 705, L180-L185.	1.6	84
15	Energy dependence of the ionic charge state distribution during the November 1997 solar energetic particle event. Geophysical Research Letters, 1999, 26, 145-148.	1.5	79
16	Reconstruction of the 2007 May 22 Magnetic Cloud: How Much Can We Trust the Flux-Rope Geometry of CMEs?. Astrophysical Journal, 2008, 677, L133-L136.	1.6	74
17	Small Solar Wind Transients and Their Connection toÂtheÂLarge-Scale Coronal Structure. Solar Physics, 2009, 256, 327-344.	1.0	71
18	Optimized Gradâ€‰â€“â€‰Shafranov Reconstruction ofÂaÂMagnetic Cloud Using STEREO-Wind Observations. Solar Physics, 2009, 256, 427-441.	1.0	69

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19	Multispacecraft Observations of Magnetic Clouds andÂTheir Solar Origins between 19 and 23 May 2007. Solar Physics, 2009, 254, 325-344.	1.0	68
20	Solar Wind Sources in the Late Declining Phase ofÂCycleÂ23: Effects of the Weak Solar Polar Field onÂHighÂSpeed Streams. Solar Physics, 2009, 256, 285-305.	1.0	65
21	Charge states of energetic (â‰ˆ0.5 MeV/n) ions in corotating interaction regions at 1 AU and implications on source populations. Geophysical Research Letters, 2002, 29, 1.	1.5	59
22	Longitudinal conjunction between MESSENGER and STEREO A: Development of ICME complexity through stream interactions. Journal of Geophysical Research: Space Physics, 2016, 121, 6092-6106.	0.8	58
23	STEREO Observations of Interplanetary Coronal Mass Ejections in 2007â€“2016. Astrophysical Journal, 2018, 855, 114.	1.6	55
24	Multispacecraft recovery of a magnetic cloud and its origin from magnetic reconnection on the Sun. Journal of Geophysical Research, 2009, 114, .	3.3	51
25	A statistical analysis of properties of small transients in the solar wind 2007â€“2009: STEREO and Wind observations. Journal of Geophysical Research: Space Physics, 2014, 119, 689-708.	0.8	51
26	Solar Terrestrial Relations Observatory (STEREO) Observations of Stream Interaction Regions in 2007â€‰â€“â€‰2016: Relationship with Heliospheric Current Sheets, Solar Cycle Variations, and Dual Observations. Solar Physics, 2019, 294, 1.	1.0	48
27	On the Spatial Coherence of Magnetic Ejecta: Measurements of Coronal Mass Ejections by Multiple Spacecraft Longitudinally Separated by 0.01 au. Astrophysical Journal Letters, 2018, 864, L7.	3.0	47
28	Solar wind iron charge states preceding a driver plasma. Journal of Geophysical Research, 1987, 92, 12069-12081.	3.3	44
29	On the source and acceleration of energetic He+: A long-term observation with ACE/SEPICA. Journal of Geophysical Research, 2003, 108, .	3.3	43
30	Temporal Evolution of the Solar Wind Bulk Velocity atÂSolar Minimum by Correlating the STEREO A andÂBÂPLASTIC Measurements. Solar Physics, 2009, 256, 365-377.	1.0	37
31	Modeling solar energetic particle events using ENLIL heliosphere simulations. Space Weather, 2017, 15, 934-954.	1.3	35
32	Heliospheric Evolution of Magnetic Clouds. Astrophysical Journal, 2019, 877, 77.	1.6	34
33	Small solar wind transients at 1ÂAU: STEREO observations (2007â€“2014) and comparison with nearâ€Earth wind results (1995â€“2014). Journal of Geophysical Research: Space Physics, 2016, 121, 5005-5024.	0.8	33
34	Multi-Spacecraft Observations: Stream Interactions andÂAssociated Structures. Solar Physics, 2009, 259, 345-360.	1.0	32
35	PLASMOID RELEASES IN THE HELIOSPHERIC CURRENT SHEET AND ASSOCIATED CORONAL HOLE BOUNDARY LAYER EVOLUTION. Astrophysical Journal, 2011, 737, 16.	1.6	32
36	Inflow direction of interstellar neutrals deduced from pickup ion measurements at 1 AU. Journal of Geophysical Research, 2012, 117, .	3.3	30

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37	A statistical analysis of heliospheric plasma sheets, heliospheric current sheets, and sector boundaries observed in situ by STEREO. Journal of Geophysical Research: Space Physics, 2014, 119, 8721-8732.	0.8	30
38	Solar wind observations at STEREO: 2007 - 2011. , 2013, , .		28
39	Inconsistencies Between Local and Global Measures of CME Radial Expansion as Revealed by Spacecraft Conjunctions. Astrophysical Journal, 2020, 899, 119.	1.6	24
40	In Situ Observations of Solar Wind Stream Interface Evolution. Solar Physics, 2009, 259, 323-344.	1.0	23
41	First Simultaneous In Situ Measurements of a Coronal Mass Ejection by Parker Solar Probe and STEREO-A. Astrophysical Journal, 2021, 916, 94.	1.6	23
42	The Effect of Stream Interaction Regions on ICME Structures Observed in Longitudinal Conjunction. Astrophysical Journal, 2021, 916, 40.	1.6	22
43	Asymmetric shear flow effects on magnetic field configuration within oppositely directed solar wind reconnection exhausts. Journal of Geophysical Research, 2009, 114, .	3.3	19
44	Solar-Wind Bulk Velocity Throughout the Inner Heliosphere from Multi-Spacecraft Measurements. Solar Physics, 2010, 264, 377-382.	1.0	17
45	Escape of O⁺ through the distant tail plasma sheet. Geophysical Research Letters, 2010, 37, .	1.5	16
46	Causes and Consequences of Magnetic Complexity Changes within Interplanetary Coronal Mass Ejections: A Statistical Study. Astrophysical Journal, 2022, 927, 102.	1.6	16
47	CMEs and SEPs During Novemberâ€“December 2020: A Challenge for Realâ€Time Space Weather Forecasting. Space Weather, 2022, 20, .	1.3	16
48	Observations of interstellar neon in the helium focusing cone. Journal of Geophysical Research, 2010, 115, .	3.3	14
49	Properties of the Sheath Regions of Coronal Mass Ejections with or without Shocks from STEREO in situ Observations near 1 au. Astrophysical Journal, 2020, 904, 177.	1.6	13
50	Solar wind ion trends and signatures: STEREO PLASTIC observations approaching solar minimum. Annales Geophysicae, 2009, 27, 3909-3922.	0.6	12
51	Suprathermal ions ahead of interplanetary shocks: New observations and critical instrumentation required for future space weather monitoring. Space Weather, 2004, 2, n/a-n/a.	1.3	11
52	Mirrorâ€mode storms inside stream interaction regions and in the ambient solar wind: A kinetic study. Journal of Geophysical Research: Space Physics, 2013, 118, 17-28.	0.8	11
53	A multispacecraft study of a small flux rope entrained by rolling back magnetic field lines. Journal of Geophysical Research: Space Physics, 2017, 122, 6927-6939.	0.8	11
54	Forecasting Periods of Strong Southward Magnetic Field Following Interplanetary Shocks. Space Weather, 2018, 16, 2004-2021.	1.3	11

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55	A Coronal Mass Ejection and Magnetic Ejecta Observed In Situ by STEREO-A and Wind at 55Â° Angular Separation. Astrophysical Journal, 2022, 929, 149.	1.6	11
56	He Pickup Ions in the Inner Heliosphereâ€"Diagnostics of the Local Interstellar Gas and of Interplanetary Conditions. AIP Conference Proceedings, 2010, , .	0.3	9
57	A multievent study of the coincidence of heliospheric current sheet and stream interface. Journal of Geophysical Research: Space Physics, 2016, 121, 10,768.	0.8	9
58	Investigating the Cross Sections of Coronal Mass Ejections through the Study of Nonradial Flows with STEREO/PLASTIC. Astrophysical Journal, 2022, 927, 68.	1.6	9
59	Multi-spacecraft Observations of the Evolution of Interplanetary Coronal Mass Ejections between 0.3 and 2.2 au: Conjunctions with the Juno Spacecraft. Astrophysical Journal, 2022, 933, 127.	1.6	9
60	Categorization of Coronal Mass Ejection-driven Sheath Regions: Characteristics of STEREO Events. Astrophysical Journal, 2021, 921, 57.	1.6	8
61	The Solar Terrestrial Relations Observatory (STEREO) Education and Outreach (E/PO) Program. Space Science Reviews, 2008, 136, 627-646.	3.7	5
62	Correlation length of largeâ€scale solar wind velocity fluctuations measured tangent to the Earth's orbit: First results from Stereo. Journal of Geophysical Research, 2008, 113, .	3.3	5
63	Temporal Evolution of the Solar-Wind Electron Core Density at Solar Minimum by Correlating SWEA Measurements from STEREO A and B. Solar Physics, 2010, 266, 369-377.	1.0	5
64	In Situ Analysis of Heliospheric Current Sheet Propagation. Journal of Geophysical Research: Space Physics, 2017, 122, 9803-9814.	0.8	5
65	The Magnetic Field Geometry of Small Solar Wind Flux Ropes Inferred from Their Twist Distribution. Solar Physics, 2018, 293, 1.	1.0	5
66	Deep Solar Activity Minimum 2007â€‰â€“â€‰2009: Solar Wind Properties and Major Effects on the Terrestrial Magnetosphere. Solar Physics, 2012, 281, 461.	1.0	4
67	Timeâ€ofâ€flight mass spectrographsâ€"From ions to neutral atoms. Journal of Geophysical Research: Space Physics, 2016, 121, 11,647.	0.8	2
68	Concerning the heliumâ€toâ€hydrogen number density ratio in very slow ejecta and winds near solar minimum. Journal of Geophysical Research: Space Physics, 2017, 122, 1487-1512.	0.8	2
69	Solar Wind and Heliospheric Compositional Variations. Symposium - International Astronomical Union, 2001, 203, 533-540.	0.1	0
70	Long-distance Correlations of Interplanetary Parameters: A Case Study with HELIOS. AIP Conference Proceedings, 2003, , .	0.3	0
71	The Thermalization of Oxygen Ions and Protons at Shocks Associated with CIRs. , 2009, , .		0