Dave G Sibeck

List of Publications by Citations

263 papers	8,832 citations	44 h-index	84 g-index
272 ext. papers	9,748 ext. citations	3.6 avg, IF	5.96 L-index

#	Paper	IF	Citations
263	Science Objectives and Rationale for the Radiation Belt Storm Probes Mission. *Space Science Reviews*, **2013**, 179, 3-27	7.5	686
262	Tail reconnection triggering substorm onset. *Science*, **2008**, 321, 931-5	33.3	464
261	Solar wind control of the magnetopause shape, location, and motion. *Journal of Geophysical Research*, **1991**, 96, 5489		396
260	Some low-altitude cusp dependencies on the interplanetary magnetic field. *Journal of Geophysical Research*, **1989**, 94, 8921		278
259	A model for the transient magnetospheric response to sudden solar wind dynamic pressure variations. *Journal of Geophysical Research*, **1990**, 95, 3755		242
258	Magnetopause shape as a bivariate function of interplanetary magnetic field Bz and solar wind dynamic pressure. *Journal of Geophysical Research*, **1993**, 98, 21421-21450		234
257	The magnetospheric response to 8-minute period strong-amplitude upstream pressure variations. *Journal of Geophysical Research*, **1989**, 94, 2505		211
256	The link between shocks, turbulence, and magnetic reconnection in collisionless plasmas. *Physics of Plasmas*, **2014**, 21, 062308	2.1	175
255	Upstream pressure variations associated with the bow shock and their effects on the magnetosphere. *Journal of Geophysical Research*, **1990**, 95, 3773		161
254	On the 3-dimensional structure of plasmoids. *Geophysical Research Letters*, **1987**, 14, 636-639	4.9	150
253	Comprehensive study of the magnetospheric response to a hot flow anomaly. *Journal of Geophysical Research*, **1999**, 104, 4577-4593		146
252	First Results from the THEMIS Mission. *Space Science Reviews*, **2008**, 141, 453-476	7.5	143
251	THEMIS Science Objectives and Mission Phases. *Space Science Reviews*, **2008**, 141, 35-59	7.5	143
250	Solar wind dynamic pressure variations and transient magnetospheric signatures. *Geophysical Research Letters*, **1989**, 16, 13-16	4.9	113
249	Magnetic field drift shell splitting: Cause of unusual dayside particle pitch angle distributions during storms and substorms. *Journal of Geophysical Research*, **1987**, 92, 13485		110
248	On the electron diffusion region in planar, asymmetric, systems. *Geophysical Research Letters*, **2014**, 41, 8673-8680	4.9	109
247	The distant magnetotail's response to a strong interplanetary magnetic field By: Twisting, flattening, and field line bending. *Journal of Geophysical Research*, **1985**, 90, 4011		107

246	Formation of hot flow anomalies and solitary shocks. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		92
245	Observations of multiple X-line structure in the Earth's magnetotail current sheet: A Cluster case study. *Geophysical Research Letters*, **2005**, 32,	4.9	91
244	Simultaneous ground- and space-based observations of the plasmaspheric plume and reconnection. *Science*, **2014**, 343, 1122-5	33.3	88
243	Foreshock bubbles and their global magnetospheric impacts. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		87
242	Wind observations of foreshock cavities: A case study. *Journal of Geophysical Research*, **2002**, 107, SMP 4-1		86
241	Energetic magnetospheric ions at the dayside magnetopause: Leakage or merging?. *Journal of Geophysical Research*, **1987**, 92, 12097		85
240	Spontaneous hot flow anomalies at quasi-parallel shocks: 1. Observations. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 3357-3363	2.6	81
239	First observations of foreshock bubbles upstream of Earth's bow shock: Characteristics and comparisons to HFAs. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 1552-1570	2.6	78
238	Transient flux enhancements in the magnetosheath. *Geophysical Research Letters*, **1998**, 25, 1273-1276	4.9	77
237	THEMIS observations of a hot flow anomaly: Solar wind, magnetosheath, and ground-based measurements. *Geophysical Research Letters*, **2008**, 35,	4.9	73
236	Spontaneous hot flow anomalies at quasi-parallel shocks: 2. Hybrid simulations. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 173-180	2.6	72
235	MHD simulation for the interaction of an interplanetary shock with the Earth's magnetosphere. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		70
234	A multisatellite study of a pseudo-substorm onset in the near-Earth magnetotail. *Journal of Geophysical Research*, **1993**, 98, 19355-19367		69
233	Jets Downstream of Collisionless Shocks. *Space Science Reviews*, **2018**, 214, 1	7.5	66
232	Time History of Events and Macroscale Interactions during Substorms observations of a series of hot flow anomaly events. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		65
231	The plasmaspheric plume and magnetopause reconnection. *Geophysical Research Letters*, **2014**, 41, 223-228	4.9	63
230	Magnetopause expansions for quasi-radial interplanetary magnetic field: THEMIS and Geotail observations. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		60
229	THEMIS observations of extreme magnetopause motion caused by a hot flow anomaly. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		59

228	The first in situ observation of Kelvin-Helmholtz waves at high-latitude magnetopause during strongly dawnward interplanetary magnetic field conditions. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		56
227	A large statistical study of the entry of interplanetary magnetic field Y-component into the magnetosphere. *Geophysical Research Letters*, **1995**, 22, 2083-2086	4.9	55
226	Dawn-dusk asymmetries in the Earth's magnetosheath. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		51
225	Magnetopause reconnection across wide local time. *Annales Geophysicae*, **2011**, 29, 1683-1697	2	49
224	Foreshock compressional boundary. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		49
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222	Spatial distribution of rolled up Kelvin-Helmholtz vortices at Earth's dayside and flank magnetopause. *Annales Geophysicae*, **2012**, 30, 1025-1035	2	48
221	Major flattening of the distant geomagnetic tail. *Journal of Geophysical Research*, **1986**, 91, 4223		47
220	A case study of transient event motion in the magnetosphere and in the ionosphere. *Journal of Geophysical Research*, **1995**, 100, 35		45
219	Magnetopause motion driven by interplanetary magnetic field variations. *Journal of Geophysical Research*, **2000**, 105, 25155-25169		44
218	First Results from ARTEMIS, a New Two-Spacecraft Lunar Mission: Counter-Streaming Plasma Populations in the Lunar Wake. *Space Science Reviews*, **2011**, 165, 93-107	7.5	41
217	Concerning flux erosion from the dayside magnetosphere. *Journal of Geophysical Research*, **1994**, 99, 13425		41
216	The two-lobe structure of the distant (X □200 Re) magnetotail. *Geophysical Research Letters*, **1984**, 11, 1066-1069	4.9	41
215	ARTEMIS Science Objectives. *Space Science Reviews*, **2011**, 165, 59-91	7.5	40
214	The magnetosphere as a sufficient source for upstream ions on November 1, 1984. *Journal of Geophysical Research*, **1988**, 93, 14328		40
213	Extended magnetic reconnection across the dayside magnetopause. *Physical Review Letters*, **2011**, 107, 025004	7.4	39
212	A case and statistical study of transient magnetic field events at geosynchronous orbit and their solar wind origin. *Journal of Geophysical Research*, **1995**, 100, 5643		39
211	Concerning the location of magnetopause merging as a function of the magnetopause current strength. *Journal of Geophysical Research*, **1998**, 103, 6675-6684		38

210	Flux transfer events in the cusp. *Geophysical Research Letters*, **2007**, 34,	4.9	37
209	Pressure-pulse interaction with the magnetosphere and ionosphere. *Journal of Geophysical Research*, **2003**, 108,		37
208	The Global Statistical Response of the Outer Radiation Belt During Geomagnetic Storms. *Geophysical Research Letters*, **2018**, 45, 3783-3792	4.9	36
207	Geosynchronous magnetic field temporal response to solar wind and IMF variations. *Journal of Geophysical Research*, **2002**, 107, SMP 32-1-SMP 32-10		36
206	Relativistic Electrons Produced by Foreshock Disturbances Observed Upstream of Earth's Bow Shock. *Physical Review Letters*, **2016**, 117, 215101	7.4	35
205	A new three-dimensional magnetopause model with a support vector regression machine and a large database of multiple spacecraft observations. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 2173-2184	2.6	35
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203	Magnetospheric plasma flows associated with boundary waves and flux transfer events. *Geophysical Research Letters*, **1992**, 19, 1903-1906	4.9	35
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201	Magnetic field properties of the distant magnetotail magnetopause and boundary layer. *Journal of Geophysical Research*, **1985**, 90, 9561		35
200	Dynamics of the foreshock compressional boundary and its connection to foreshock cavities. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 823-831	2.6	34
199	Survival of flux transfer event (FTE) flux ropes far along the tail magnetopause. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		34
198	Impacts of spontaneous hot flow anomalies on the magnetosheath and magnetopause. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 3155-3169	2.6	34
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196	Magnetosheath filamentary structures formed by ion acceleration at the quasi-parallel bow shock. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 2593-2604	2.6	32
195	Electron distribution function formation in regions of diffuse aurora. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 9891-9915	2.6	32
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184	Plasma and energetic particle behaviors during asymmetric magnetic reconnection at the magnetopause. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 1658-1672	2.6	28
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181	Imaging Plasma Density Structures in the Soft X-Rays Generated by Solar Wind Charge Exchange with Neutrals. *Space Science Reviews*, **2018**, 214, 1	7.5	28
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176	Propagation of a sudden impulse through the magnetosphere initiating magnetospheric Pc5 pulsations. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		26
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163	Kinetic aspects of foreshock cavities. *Geophysical Research Letters*, **2006**, 33,	4.9	22
162	Observations of energetic particle escape at the magnetopause: Early results from the MMS Energetic Ion Spectrometer (EIS). *Geophysical Research Letters*, **2016**, 43, 5960-5968	4.9	22
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157	Properties of Magnetic Reconnection and FTEs on the Dayside Magnetopause With and Without Positive IMF Bx Component During Southward IMF. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 4037-4048	2.6	20

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147	Traveling Foreshocks and Transient Foreshock Phenomena. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 9148-9168	2.6	18
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124	Formation and Topology of Foreshock Bubbles. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA028058	2.6	14
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