Robert L Mcpherron

List of Publications by Citations

183 papers	12,219 citations	55 h-index	106 g-index
184 ext. papers	12,851 ext. citations	5.4 avg, IF	5.96 L-index

#	Paper	IF	Citations
183	An empirical relationship between interplanetary conditions and Dst. *Journal of Geophysical Research*, **1975**, 80, 4204-4214		975
182	Satellite studies of magnetospheric substorms on August 15, 1968: 9. Phenomenological model for substorms. *Journal of Geophysical Research*, **1973**, 78, 3131-3149		947
181	Neutral line model of substorms: Past results and present view. *Journal of Geophysical Research*, **1996**, 101, 12975-13010		737
180	Semiannual variation of geomagnetic activity. *Journal of Geophysical Research*, **1973**, 78, 92-108		692
179	Growth phase of magnetospheric substorms. *Journal of Geophysical Research*, **1970**, 75, 5592-5599		365
178	Magnetospheric impulse response for many levels of geomagnetic activity. *Journal of Geophysical Research*, **1985**, 90, 6387		317
177	An empirical phase space analysis of ring current dynamics: Solar wind control of injection and decay. *Journal of Geophysical Research*, **2000**, 105, 7707-7719		291
176	Corotating solar wind streams and recurrent geomagnetic activity: A review. *Journal of Geophysical Research*, **2006**, 111,		290
175	Magnetospheric substorms. *Reviews of Geophysics*, **1979**, 17, 657	23.1	220
174	Geomagnetic storms driven by ICME- and CIR-dominated solar wind. *Journal of Geophysical Research*, **2006**, 111,		182
173	Mapping the local time-universal time development of magnetospheric substorms using mid-latitude magnetic observations. *Journal of Geophysical Research*, **1974**, 79, 2811-2820		182
172	Multipoint analysis of a bursty bulk flow event on April 11, 1985. *Journal of Geophysical Research*, **1996**, 101, 4967-4989		170
171	Triggering of substorms by solar wind discontinuities. *Journal of Geophysical Research*, **1977**, 82, 74-86		169
170	Substorm and interplanetary magnetic field effects on the geomagnetic tail lobes. *Journal of Geophysical Research*, **1975**, 80, 191-194		156
169	Multiple-satellite studies of magnetospheric substorms: Distinction between polar magnetic substorms and convection-driven negative bays. *Journal of Geophysical Research*, **1978**, 83, 663		144
168	The evolution from weak to strong geomagnetic activity: An interpretation in terms of deterministic chaos. *Geophysical Research Letters*, **1990**, 17, 41-44	4.9	142
167	Substorm Current Wedge Revisited. *Space Science Reviews*, **2015**, 190, 1-46	7.5	141

166	Harmonic structure of Pc 3–4 pulsations. *Journal of Geophysical Research*, **1982**, 87, 1504-1516		140
165	An experimental test of the electromagnetic ion cyclotron instability within the earth's magnetosphere. *Physics of Fluids*, **1980**, 23, 2111		136
164	Fluctuating magnetic fields in the magnetosphere. *Space Science Reviews*, **1972**, 13, 411-454	7.5	136
163	On the cause of geomagnetic storms. *Journal of Geophysical Research*, **1974**, 79, 1105-1109		131
162	Growth-phase thinning of the near-Earth current sheet during the CDAW 6 substorm. *Journal of Geophysical Research*, **1994**, 99, 5805		127
161	Physical Processes Producing Magnetospheric Substorms and Magnetic Storms **1991**, 593-739		119
160	Dynamics of the 1054 UT March 22, 1979, substorm event: CDAW 6. *Journal of Geophysical Research* , **1985**, 90, 1175		111
159	Magnetotail changes in relation to the solar wind magnetic field and magnetospheric substorms. *Journal of Geophysical Research*, **1971**, 76, 4381-4401		111
158	Solar wind control of auroral zone geomagnetic activity. *Geophysical Research Letters*, **1981**, 8, 915-918	4.9	109
157	Statistical characteristics of storm-associated Pc 5 micropulsations observed at the synchronous equatorial orbit. *Journal of Geophysical Research*, **1972**, 77, 4720-4733		105
156	Alfvén waves generated by an inverted plasma energy distribution. *Nature*, **1978**, 275, 43-45	50.4	103
155	Modeling the growth phase of a substorm using the Tsyganenko Model and multi-spacecraft observations: CDAW-9. *Geophysical Research Letters*, **1991**, 18, 1963-1966	4.9	101
154	Characteristics of the association between the interplanetary magnetic field and substorms. *Journal of Geophysical Research*, **1977**, 82, 4837-4842		101
153	The statistical magnetic signature of magnetospheric substorms. *Planetary and Space Science*, **1978**, 26, 269-279	2	98
152	Solar wind triggering of substorm expansion onset.. *Journal of Geomagnetism and Geoelectricity*, **1986**, 38, 1089-1108		97
151	Plasma sheet turbulence observed by Cluster II. *Journal of Geophysical Research*, **2005**, 110,		96
150	Outer magnetosphere near midnight at quiet and disturbed times. *Journal of Geophysical Research*, **1972**, 77, 5487-5502		96
149	Solar wind and substorm-related changes in the lobes of the geomagnetic tail. *Journal of Geophysical Research*, **1973**, 78, 8087-8096		92

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147	A statistical study of Pc 1 magnetic pulsations at synchronous orbit. *Journal of Geophysical Research*, **1976**, 81, 6083-6091		90
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145	Standing hydromagnetic oscillations in the magnetosphere. *Planetary and Space Science*, **1984**, 32, 1343-1359		89
144	The Role of Substorms in the Generation of Magnetic Storms. *Geophysical Monograph Series*, **1997**, 131-147		86
143	Ogo 5 observations of Pc 5 waves: Particle flux modulations. *Journal of Geophysical Research*, **1977**, 82, 2774-2786		83
142	A comparison of ULF fluctuations in the solar wind, magnetosheath, and dayside magnetosphere: 1. Magnetosheath morphology. *Journal of Geophysical Research*, **1991**, 96, 3441		82
141	Characteristics of plasma flows at the inner edge of the plasma sheet. *Journal of Geophysical Research*, **2011**, 116,		76
140	The terrestrial magnetosphere: a half-wave rectifier of the interplanetary electric field. *Science*, **1975**, 189, 717-8	33.3	74
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138	Satellite observations of Pi 2 activity at synchronous orbit. *Journal of Geophysical Research*, **1983**, 88, 7015		72
137	Studies of the magnetospheric substorm: 2. Correlated magnetic micropulsations and electron precipitation occurring during auroral substorms. *Journal of Geophysical Research*, **1968**, 73, 1697-1713		67
136	Multiple-satellite studies of magnetospheric substorms: Radial dynamics of the plasma sheet. *Journal of Geophysical Research*, **1976**, 81, 5921-5933		62
135	A comparative study of three techniques for using the spectral matrix in wave analysis. *Radio Science*, **1976**, 11, 833-845	1.4	62
134	Seasonal and diurnal variation of Dst dynamics. *Journal of Geophysical Research*, **2002**, 107, SMP 3-1		60
133	Diversion of plasma due to high pressure in the inner magnetosphere during steady magnetospheric convection. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		58
132	Substorms during the 10–11 August 2000 sawtooth event. *Journal of Geophysical Research*, **2006**, 111,		58
131	Substorms in space: The correlation between ground and satellite observations of the magnetic field. *Radio Science*, **1973**, 8, 1059-1076	1.4	57

130	Solar wind control of the low-latitude asymmetric magnetic disturbance field. *Journal of Geophysical Research*, **1983**, 88, 2123		56
129	Studies of the magnetospheric substorm: 1. Characteristics of modulated energetic electron precipitation occurring during auroral substorms. *Journal of Geophysical Research*, **1968**, 73, 1685-1696		56
128	Impact of CIR Storms on Thermosphere Density Variability during the Solar Minimum of 2008. *Solar Physics*, **2011**, 274, 427-437	2.6	55
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125	Magnetic field variations in the near geomagnetic tail associated with weak substorm activity. *Journal of Geophysical Research*, **1971**, 76, 1823-1829		51
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123	Fluctuating magnetic fields in the magnetosphere. *Space Science Reviews*, **1972**, 12, 810-856	7.5	50
122	An evaluation of the statistical significance of the association between northward turnings of the interplanetary magnetic field and substorm expansion onsets. *Journal of Geophysical Research*, **2002**, 107, SMP 31-1		49
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120	On the distinction between the auroral electrojet and partial ring current systems. *Journal of Geophysical Research*, **1972**, 77, 6886-6889		46
119	Studies of the magnetospheric substorm: 3. Concept of the magnetospheric substorm and its relation to electron precipitation and micropulsations. *Journal of Geophysical Research*, **1968**, 73, 1715-1722		45
118	Satellite studies of magnetospheric substorms on August 15, 1968: 4. Ogo 5 magnetic field observations. *Journal of Geophysical Research*, **1973**, 78, 3068-3078		43
117	Observations of ionospheric heating during the passage of solar coronal hole fast streams. *Geophysical Research Letters*, **2009**, 36,	4.9	42
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106	Variability of mid-latitude magnetic parameters used to characterize magnetospheric substorms. *Journal of Geophysical Research*, **1974**, 79, 2898-2900		35
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87	Response of the Earth's magnetosphere to changes in the solar wind. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2008**, 70, 303-315	2	27
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82	Relation of substorm onset to Harang discontinuity. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		24
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42	The importance of storm time steady magnetospheric convection in determining the final relativistic electron flux level. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 7433-7443	2.6	12
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15	The Synchronous Orbit Magnetic Field Data Set. *Geophysical Monograph Series*, **2013**, 35-47	1.1	3
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9	Magnetotail Flux Accumulation Leads to Substorm Current Wedge Formation: A Case Study. *Journal of Geophysical Research: Space Physics*, **2021**, 126,	2.6	3
8	Aeronomy of Ice in the Mesosphere receiver/communication lock analysis: When bad space weather is good. *Space Weather*, **2009**, 7, n/a-n/a	3.7	2
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6	Dynamic cross correlation studies of wave particle interactions in ULF phenomena. *Annales Des Telecommunications/Annals of Telecommunications*, **1979**, 34, 196-203	2	2
5	Characteristics of Reconnection Sites and Fast Flow Channels in an MHD Simulation. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027701	2.6	2

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3	On the azimuthal evolution and geoeffectiveness of the SIR-associated stream interface. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 1489-1508	2.6	1
2	The Mid-Latitude Positive Bay and the MPB Index of Substorm Activity. *Space Sciences Series of ISSI*, **2018**, 93-124	0.1	0
1	Characteristics of Substorm-Onset-Related and Nonsubstorm Earthward Fast Flows and Associated Magnetic Flux Transport: THEMIS Observations. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA028313	2.6	0