M K Dougherty

List of Publications by Citations

317 papers	13,245 citations	64 h-index	93 g-index
324 ext. papers	13,903 ext. citations	7.3 avg, IF	5.93 L-index

#	Paper	IF	Citations
317	The Cassini Magnetic Field Investigation. *Space Science Reviews*, **2004**, 114, 331-383	7.5	391
316	JUpiter ICy moons Explorer (JUICE): An ESA mission to orbit Ganymede and to characterise the Jupiter system. *Planetary and Space Science*, **2013**, 78, 1-21	2	308
315	Identification of a dynamic atmosphere at Enceladus with the Cassini magnetometer. *Science*, **2006**, 311, 1406-9	33.3	297
314	Multi-instrument analysis of electron populations in Saturn's magnetosphere. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		290
313	The variable rotation period of the inner region of Saturn's plasma disk. *Science*, **2007**, 316, 442-5	33.3	212
312	Cassini magnetometer observations during Saturn orbit insertion. *Science*, **2005**, 307, 1266-70	33.3	196
311	A pulsating auroral X-ray hot spot on Jupiter. *Nature*, **2002**, 415, 1000-3	50.4	163
310	Control of Jupiter's radio emission and aurorae by the solar wind. *Nature*, **2002**, 415, 985-7	50.4	150
309	Morphological differences between Saturn's ultraviolet aurorae and those of Earth and Jupiter. *Nature*, **2005**, 433, 717-9	50.4	141
308	Response of Jupiter's and Saturn's auroral activity to the solar wind. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		138
307	A new form of Saturn's magnetopause using a dynamic pressure balance model, based on in situ, multi-instrument Cassini measurements. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		134
306	Recurrent energization of plasma in the midnight-to-dawn quadrant of Saturn's magnetosphere, and its relationship to auroral UV and radio emissions. *Planetary and Space Science*, **2009**, 57, 1732-1742	2	133
305	Warping of Saturn's magnetospheric and magnetotail current sheets. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		132
304	Titan's magnetic field signature during the first Cassini encounter. *Science*, **2005**, 308, 992-5	33.3	130
303	Modeling the size and shape of Saturn's magnetopause with variable dynamic pressure. *Journal of Geophysical Research*, **2006**, 111,		126
302	Magnetic field observations during the ulysses flyby of jupiter. *Science*, **1992**, 257, 1515-8	33.3	124
301	Origin of Saturn's aurora: Simultaneous observations by Cassini and the Hubble Space Telescope. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		117

300	Energetic ion acceleration in Saturn's magnetotail: Substorms at Saturn?. *Geophysical Research Letters*, **2005**, 32,	4.9	116
299	Solar wind dynamic pressure and electric field as the main factors controlling Saturn's aurorae. *Nature*, **2005**, 433, 720-2	50.4	116
298	Ion and neutral sources and sinks within Saturn's inner magnetosphere: Cassini results. *Planetary and Space Science*, **2008**, 56, 3-18	2	113
297	The magnetic memory of Titan's ionized atmosphere. *Science*, **2008**, 321, 1475-8	33.3	108
296	Cassini observations of the variation of Saturn's ring current parameters with system size. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		104
295	A regular period for Saturn's magnetic field that may track its internal rotation. *Nature*, **2006**, 441, 62-4	50.4	103
294	Interplanetary magnetic field at ~9 AU during the declining phase of the solar cycle and its implications for Saturn's magnetospheric dynamics. *Journal of Geophysical Research*, **2004**, 109,		103
293	Periodic perturbations in Saturn's magnetic field. *Geophysical Research Letters*, **2000**, 27, 2785-2788	4.9	101
292	The importance of plasma conditions for magnetic reconnection at Saturn's magnetopause. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	98
291	Planetary period oscillations in Saturn's magnetosphere: Phase relation of equatorial magnetic field oscillations and Saturn kilometric radiation modulation. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		94
290	An Earth-like correspondence between Saturn's auroral features and radio emission. *Nature*, **2005**, 433, 722-5	50.4	94
289	Cassini observations of a Kelvin-Helmholtz vortex in Saturn's outer magnetosphere. *Journal of Geophysical Research*, **2010**, 115,		91
288	Magnetospheric period oscillations at Saturn: Comparison of equatorial and high-latitude magnetic field periods with north and south Saturn kilometric radiation periods. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		91
287	Strong rapid dipolarizations in Saturn's magnetotail: In situ evidence of reconnection. *Geophysical Research Letters*, **2007**, 34,	4.9	91
286	Evidence for reconnection at Saturn's magnetopause. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		89
285	Comparisons between MHD model calculations and observations of Cassini flybys of Titan. *Journal of Geophysical Research*, **2006**, 111,		88
284	Saturn's magnetodisc current sheet. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		86
283	Saturn's magnetic field revealed by the Cassini Grand Finale. *Science*, **2018**, 362,	33.3	85

282	Planetary period oscillations in Saturn's magnetosphere: Evolution of magnetic oscillation properties from southern summer to post-equinox. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		84
281	Large-scale dynamics of Saturn's magnetopause: Observations by Cassini. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		83
280	Periodic motion of Saturn's nightside plasma sheet. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		82
279	Plasma in Saturn's nightside magnetosphere and the implications for global circulation. *Planetary and Space Science*, **2009**, 57, 1714-1722	2	82
278	Polarization and phase of planetary-period magnetic field oscillations on high-latitude field lines in Saturn's magnetosphere. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		82
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274	Fine jet structure of electrically charged grains in Enceladus' plume. *Geophysical Research Letters*, **2009**, 36,	4.9	79
273	Energetic particle pressure in Saturn's magnetosphere measured with the Magnetospheric Imaging Instrument on Cassini. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		79
272	Plasmoids in Saturn's magnetotail. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		78
271	The auroral footprint of Enceladus on Saturn. *Nature*, **2011**, 472, 331-3	50.4	77
270	Titan's near magnetotail from magnetic field and electron plasma observations and modeling: Cassini flybys TA, TB, and T3. *Journal of Geophysical Research*, **2006**, 111,		77
269	Ring current at Saturn: Energetic particle pressure in Saturn's equatorial magnetosphere measured with Cassini/MIMI. *Geophysical Research Letters*, **2007**, 34,	4.9	76
268	Electron sources in Saturn's magnetosphere. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		76
267	Evidence for temporal variability of Enceladus' gas jets: Modeling of Cassini observations. *Geophysical Research Letters*, **2008**, 35,	4.9	74
266	Ion conics and electron beams associated with auroral processes on Saturn. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		72
265	Bursty magnetic reconnection at Saturn's magnetopause. *Geophysical Research Letters*, **2013**, 40, 1027-1031	4.9	71

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262	How can Saturn impose its rotation period in a noncorotating magnetosphere?. *Journal of Geophysical Research*, **2003**, 108,		70
261	Dual periodicities in planetary-period magnetic field oscillations in Saturn's tail. *Journal of Geophysical Research*, **2012**, 117,		67
260	Interplanetary coronal mass ejection observed at STEREO-A, Mars, comet 67P/Churyumov-Gerasimenko, Saturn, and New Horizons en route to Pluto: Comparison of its Forbush decreases at 1.4, 3.1, and 9.9 AU. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 7865-7890	2.6	66
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257	Cassini observations of planetary-period magnetic field oscillations in Saturn's magnetosphere: Doppler shifts and phase motion. *Geophysical Research Letters*, **2006**, 33,	4.9	65
256	Saturn's very axisymmetric magnetic field: No detectable secular variation or tilt. *Earth and Planetary Science Letters*, **2011**, 304, 22-28	5.3	64
255	Magnetic field oscillations near the planetary period in Saturn's equatorial magnetosphere: Variation of amplitude and phase with radial distance and local time. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		64
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249	Ion cyclotron waves in Saturn's E ring: Initial Cassini observations. *Geophysical Research Letters*, **2006**, 33,	4.9	60
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245	Electron acceleration to relativistic energies at a strong quasi-parallel shock wave. *Nature Physics*, **2013**, 9, 164-167	16.2	57
244	Auroral current systems in Saturn's magnetosphere: comparison of theoretical models with Cassini and HST observations. *Annales Geophysicae*, **2008**, 26, 2613-2630	2	57
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229	Influence of negatively charged plume grains on the structure of Enceladus' Alfvẽn wings: Hybrid simulations versus Cassini Magnetometer data. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		50

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227	Cassini observations of planetary-period oscillations of Saturn's magnetopause. *Geophysical Research Letters*, **2006**, 33,	4.9	50
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220	Orientation, location, and velocity of Saturn's bow shock: Initial results from the Cassini spacecraft. *Journal of Geophysical Research*, **2006**, 111,		46
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209	Energetic particles in Saturn's magnetosphere during the Cassini nominal mission (July 2004–July 2008). *Planetary and Space Science*, **2009**, 57, 1754-1768	2	43
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