David J Mccomas

List of Publications by Citations

722 papers	30,337 citations	88 h-index	137 g-index
755 ext. papers	33,837 ext. citations	6.5 avg, IF	6.89 L-index

#	Paper	IF	Citations
722	The Solar Probe Plus Mission: Humanity's First Visit to Our Star. *Space Science Reviews*, **2016**, 204, 7-48	7.5	488
721	Geomagnetic activity associated with earth passage of interplanetary shock disturbances and coronal mass ejections. *Journal of Geophysical Research*, **1991**, 96, 7831		485
720	Cassini Plasma Spectrometer Investigation. *Space Science Reviews*, **2004**, 114, 1-112	7.5	411
719	Global observations of the interstellar interaction from the Interstellar Boundary Explorer (IBEX). *Science*, **2009**, 326, 959-62	33.3	382
718	Solar wind observations over Ulysses' first full polar orbit. *Journal of Geophysical Research*, **2000**, 105, 10419-10433		354
717	Electron velocity distributions near the Earth's bow shock. *Journal of Geophysical Research*, **1983**, 88, 96		354
716	Weaker solar wind from the polar coronal holes and the whole Sun. *Geophysical Research Letters*, **2008**, 35,	4.9	335
715	The FIELDS Instrument Suite for Solar Probe Plus: Measuring the Coronal Plasma and Magnetic Field, Plasma Waves and Turbulence, and Radio Signatures of Solar Transients. *Space Science Reviews*, **2016**, 204, 49-82	7.5	303
714	The Pluto system: Initial results from its exploration by New Horizons. *Science*, **2015**, 350, aad1815	33.3	295
713	Beyond kappa distributions: Exploiting Tsallis statistical mechanics in space plasmas. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		279
712	Composition and dynamics of plasma in Saturn's magnetosphere. *Science*, **2005**, 307, 1262-6	33.3	261
711	Direct evidence for magnetic reconnection in the solar wind near 1 AU. *Journal of Geophysical Research*, **2005**, 110,		259
710	Solar Wind Electrons Alphas and Protons (SWEAP) Investigation: Design of the Solar Wind and Coronal Plasma Instrument Suite for Solar Probe Plus. *Space Science Reviews*, **2016**, 204, 131-186	7.5	257
709	Ulysses solar wind plasma observations from pole to pole. *Geophysical Research Letters*, **1995**, 22, 3301-3304	4.9	256
708	IBEX: Interstellar Boundary Explorer. *Space Science Reviews*, **2009**, 146, 11-33	7.5	252
707	Radial evolution of the electron distribution functions in the fast solar wind between 0.3 and 1.5 AU. *Journal of Geophysical Research*, **2005**, 110,		249
706	A magnetic reconnection X-line extending more than 390 Earth radii in the solar wind. *Nature*, **2006**, 439, 175-8	50.4	247

705	Understanding Kappa Distributions: A Toolbox for Space Science and Astrophysics. *Space Science Reviews*, **2013**, 175, 183-214	7.5	238
704	Structure of the magnetotail at 220 RE and its response to geomagnetic activity. *Geophysical Research Letters*, **1984**, 11, 5-7	4.9	227
703	Highly structured slow solar wind emerging from an equatorial coronal hole. *Nature*, **2019**, 576, 237-242	50.4	215
702	Magnetospheric plasma analyzer for spacecraft with constrained resources. *Review of Scientific Instruments*, **1993**, 64, 1026-1033	1.7	207
701	The heliosphere's interstellar interaction: no bow shock. *Science*, **2012**, 336, 1291-3	33.3	195
700	Comparison of Interstellar Boundary Explorer observations with 3D global heliospheric models. *Science*, **2009**, 326, 966-8	33.3	190
699	The heliospheric plasma sheet. *Journal of Geophysical Research*, **1994**, 99, 6667		190
698	Predicting interplanetary magnetic field (IMF) propagation delay times using the minimum variance technique. *Journal of Geophysical Research*, **2003**, 108,		189
697	The three-dimensional solar wind around solar maximum. *Geophysical Research Letters*, **2003**, 30, n/a-n/a	4.9	189
696	Ulysses' return to the slow solar wind. *Geophysical Research Letters*, **1998**, 25, 1-4	4.9	185
695	Coronal mass ejections and large geomagnetic storms. *Geophysical Research Letters*, **1990**, 17, 901-904	4.9	185
694	The geology of Pluto and Charon through the eyes of New Horizons. *Science*, **2016**, 351, 1284-93	33.3	180
693	PICK-UP IONS IN THE OUTER HELIOSHEATH: A POSSIBLE MECHANISM FOR THE INTERSTELLAR BOUNDARY EXplorer RIBBON. *Astrophysical Journal Letters*, **2010**, 708, L126-L130	7.9	180
692	Comet giacobini-zinner: plasma description. *Science*, **1986**, 232, 356-61	33.3	176
691	Alfvēnic velocity spikes and rotational flows in the near-Sun solar wind. *Nature*, **2019**, 576, 228-231	50.4	172
690	Structures and spectral variations of the outer heliosphere in IBEX energetic neutral atom maps. *Science*, **2009**, 326, 964-6	33.3	171
689	Extremely high speed solar wind: 29–30 October 2003. *Journal of Geophysical Research*, **2004**, 109,		169
688	The Interstellar Boundary Explorer High Energy (IBEX-Hi) Neutral Atom Imager. *Space Science Reviews*, **2009**, 146, 75-103	7.5	168

687	Ulysses observations of a recurrent high speed solar wind stream and the heliomagnetic streamer belt. *Geophysical Research Letters*, **1993**, 20, 2323-2326	4.9	165
686	The atmosphere of Pluto as observed by New Horizons. *Science*, **2016**, 351, aad8866	33.3	164
685	Characteristic plasma properties during dispersionless substorm injections at geosynchronous orbit. *Journal of Geophysical Research*, **1997**, 102, 2309-2324		163
684	Plasma sheet access to geosynchronous orbit. *Journal of Geophysical Research*, **1999**, 104, 25047-25061		160
683	Ulysses solar wind plasma observations at high southerly latitudes. *Science*, **1995**, 268, 1030-3	33.3	156
682	Substorm electron injections: Geosynchronous observations and test particle simulations. *Journal of Geophysical Research*, **1998**, 103, 9235-9248		147
681	The IBEX-Lo Sensor. *Space Science Reviews*, **2009**, 146, 117-147	7.5	145
680	Field line draping about fast coronal mass ejecta: A source of strong out-of-the-ecliptic interplanetary magnetic fields. *Geophysical Research Letters*, **1987**, 14, 355-358	4.9	145
679	Width and variation of the ENA flux ribbon observed by the Interstellar Boundary Explorer. *Science*, **2009**, 326, 962-4	33.3	140
678	MICROSTRUCTURE OF THE HELIOSPHERIC TERMINATION SHOCK: IMPLICATIONS FOR ENERGETIC NEUTRAL ATOM OBSERVATIONS. *Astrophysical Journal*, **2010**, 708, 1092-1106	4.7	140
677	INTERSTELLAR GAS FLOW PARAMETERS DERIVED FROM INTERSTELLAR BOUNDARY EXPLORER-Lo OBSERVATIONS IN 2009 AND 2010: ANALYTICAL ANALYSIS. *Astrophysical Journal, Supplement Series*, **2012**, 198, 11	8	139
676	Magnetospheric plasma analyzer: Initial three-spacecraft observations from geosynchronous orbit. *Journal of Geophysical Research*, **1993**, 98, 13453-13465		139
675	Magnetospheric Science Objectives of the Juno Mission. *Space Science Reviews*, **2017**, 213, 219-287	7.5	138
674	WEAKEST SOLAR WIND OF THE SPACE AGE AND THE CURRENT MINIMUM SOLAR MAXIMUM. *Astrophysical Journal*, **2013**, 779, 2	4.7	138
673	The Jovian Auroral Distributions Experiment (JADE) on the Juno Mission to Jupiter. *Space Science Reviews*, **2017**, 213, 547-643	7.5	136
672	HELIOSPHERIC STRUCTURE: THE BOW WAVE AND THE HYDROGEN WALL. *Astrophysical Journal*, **2013**, 763, 20	4.7	129
671	NEUTRAL INTERSTELLAR HELIUM PARAMETERS BASED ON IBEX-Lo OBSERVATIONS AND TEST PARTICLE CALCULATIONS. *Astrophysical Journal, Supplement Series*, **2012**, 198, 12	8	129
670	Substorm ion injections: Geosynchronous observations and test particle orbits in three-dimensional dynamic MHD fields. *Journal of Geophysical Research*, **1997**, 102, 2325-2341		128

669	The Two Wide-angle Imaging Neutral-atom Spectrometers (TWINS) NASA Mission-of-Opportunity. *Space Science Reviews*, **2009**, 142, 157-231	7.5	127
668	SEPARATION OF THEINTERSTELLAR BOUNDARY EXPLORERRIBBON FROM GLOBALLY DISTRIBUTED ENERGETIC NEUTRAL ATOM FLUX. *Astrophysical Journal*, **2011**, 731, 56	4.7	126
667	Latitudinal variation of solar wind corotating stream interaction regions: Ulysses. *Geophysical Research Letters*, **1993**, 20, 2789-2792	4.9	126
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663	The near-Earth cross-tail current sheet: Detailed ISEE 1 and 2 case studies. *Journal of Geophysical Research*, **1986**, 91, 4287		119
662	The average magnetic field draping and consistent plasma properties of the Venus magnetotail. *Journal of Geophysical Research*, **1986**, 91, 7939		119
661	FIRST SKY MAP OF THE INNER HELIOSHEATH TEMPERATURE USINGIBEXSPECTRA. *Astrophysical Journal*, **2011**, 734, 1	4.7	116
660	INVARIANT KAPPA DISTRIBUTION IN SPACE PLASMAS OUT OF EQUILIBRIUM. *Astrophysical Journal*, **2011**, 741, 88	4.7	116
659	LOCAL INTERSTELLAR MAGNETIC FIELD DETERMINED FROM THE INTERSTELLAR BOUNDARY EXPLORER RIBBON. *Astrophysical Journal Letters*, **2016**, 818, L18	7.9	113
658	Ion and neutral sources and sinks within Saturn's inner magnetosphere: Cassini results. *Planetary and Space Science*, **2008**, 56, 3-18	2	113
657	Effects of a high-density plasma sheet on ring current development during the November 24, 1993, magnetic storm. *Journal of Geophysical Research*, **1998**, 103, 26285-26305		108
656	Evolution of the Earth's distant magnetotail: ISEE 3 electron plasma results. *Journal of Geophysical Research*, **1984**, 89, 11007		107
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648	An explanation of the Voyager paradox: Particle acceleration at a blunt termination shock. *Geophysical Research Letters*, **2006**, 33,	4.9	103
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646	The transport of plasma sheet material from the distant tail to geosynchronous orbit. *Journal of Geophysical Research*, **1998**, 103, 20297-20331		102
645	LOCAL INTERSTELLAR MEDIUM: SIX YEARS OF DIRECT SAMPLING BY IBEX. *Astrophysical Journal, Supplement Series*, **2015**, 220, 22	8	101
644	Bulk properties of the slow and fast solar wind and interplanetary coronal mass ejections measured by Ulysses: Three polar orbits of observations. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		100
643	THE FIRST THREE YEARS OF IBEX OBSERVATIONS AND OUR EVOLVING HELIOSPHERE. *Astrophysical Journal, Supplement Series*, **2012**, 203, 1	8	99
642	October 1995 magnetic cloud and accompanying storm activity: Ring current evolution. *Journal of Geophysical Research*, **1998**, 103, 79-92		98
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635	Imaging the interaction of the heliosphere with the interstellar medium from Saturn with Cassini. *Science*, **2009**, 326, 971-3	33.3	88
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632	The Solar Wind Around Pluto (SWAP) Instrument Aboard New Horizons. *Space Science Reviews*, **2008**, 140, 261-313	7.5	84
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626	Evolving outer heliosphere: Large-scale stability and time variations observed by the Interstellar Boundary Explorer. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		79
625	SPATIAL RETENTION OF IONS PRODUCING THEIBEXRIBBON. *Astrophysical Journal*, **2013**, 764, 92	4.7	78
624	Overexpanding coronal mass ejections at high heliographic latitudes: Observations and simulations. *Journal of Geophysical Research*, **1998**, 103, 1941-1954		78
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574	Petschek-Type Reconnection Exhausts in the Solar Wind Well beyond 1 AU:Ulysses. *Astrophysical Journal*, **2006**, 644, 613-621	4.7	59
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