Louis J Lanzerotti

List of Publications by Citations

245 papers	8,424 citations	50 h-index	82 g-index
259 ext. papers	8,991 ext. citations	12.1 avg, IF	5.38 L-index

#	Paper	IF	Citations
245	Particle Diffusion in the Radiation Belts. *Physics and Chemistry in Space*, **1974**,		826
244	Voyager 1 in the foreshock, termination shock, and heliosheath. *Science*, **2005**, 309, 2020-4	33.3	359
243	"Sputtering" of Ice by MeV Light Ions. *Physical Review Letters*, **1978**, 40, 1027-1030	7.4	217
242	Mediation of the solar wind termination shock by non-thermal ions. *Nature*, **2008**, 454, 67-70	50.4	190
241	Dynamics of Saturn's magnetosphere from MIMI during Cassini's orbital insertion. *Science*, **2005**, 307, 1270-3	33.3	158
240	Search for the exit: Voyager 1 at heliosphere's border with the galaxy. *Science*, **2013**, 341, 144-7	33.3	149
239	An impenetrable barrier to ultrarelativistic electrons in the Van Allen radiation belts. *Nature*, **2014**, 515, 531-4	50.4	135
238	Voyager 1 exited the solar wind at a distance of approximately 85 Au from the Sun. *Nature*, **2003**, 426, 45-8	50.4	135
237	Possible evidence of flux transfer events in the polar ionosphere. *Geophysical Research Letters*, **1986**, 13, 1089-1092	4.9	135
236	Radiation Belt Storm Probes Ion Composition Experiment (RBSPICE). *Space Science Reviews*, **2013**, 179, 263-308	7.5	132
235	Hot plasma environment at jupiter: voyager 2 results. *Science*, **1979**, 206, 977-84	33.3	130
234	Low-energy charged particle environment at jupiter: a first look. *Science*, **1979**, 204, 998-1003	33.3	126
233	Sputtering of sodium on the planet Mercury. *Nature*, **1986**, 323, 694-696	50.4	121
232	Linear and Nonlinear Processes in the Erosion of H2O Ice by Fast Light Ions. *Physical Review Letters*, **1980**, 45, 1632-1635	7.4	112
231	Electron beams and ion composition measured at Io and in its torus. *Science*, **1996**, 274, 401-3	33.3	111
230	Observations of trapped electrons at low and high altitudes. *Journal of Geophysical Research*, **1968**, 73, 5673-5696		108
229	Fast ion bombardment of ices and its astrophysical implications. *Science*, **1982**, 218, 525-31	33.3	106

228	Temporal variations in the electron flux at synchronous altitudes. *Journal of Geophysical Research*, **1967**, 72, 5893-5902		98
227	Drift mirror instability in the magnetosphere: Particle and field oscillations and electron heating. *Journal of Geophysical Research*, **1969**, 74, 5565-5578		95
226	Hot Plasma and Energetic Particles in Neptune's Magnetosphere. *Science*, **1989**, 246, 1483-9	33.3	88
225	Low-energy solar electrons and ions observed at Ulysses February-April, 1991: The inner heliosphere as a particle reservoir. *Geophysical Research Letters*, **1992**, 19, 1243-1246	4.9	87
224	Low-Energy Charged Particles in Saturn's Magnetosphere: Results from Voyager 1. *Science*, **1981**, 212, 225-31	33.3	85
223	Morphology and interpretation of magnetospheric plasma waves at conjugate points during December Solstice. *Journal of Geophysical Research*, **1972**, 77, 6731-6745		83
222	The magnetosphere of uranus: hot plasma and radiation environment. *Science*, **1986**, 233, 97-102	33.3	82
221	Propagation of solar oscillations through the interplanetary medium. *Nature*, **1995**, 376, 139-144	50.4	81
220	Magnetospheric substorm of August 25–26, 1967. *Journal of Geophysical Research*, **1971**, 76, 2977-3009		80
219	Modes of magnetohydrodynamic waves in the magnetosphere. *Reviews of Geophysics*, **1974**, 12, 724	23.1	77
218	On the contribution of water products from Galilean satellites to the Jovian magnetosphere. *Geophysical Research Letters*, **1978**, 5, 155-158	4.9	76
217	The role of small-scale ion injections in the buildup of Earth's ring current pressure: Van Allen Probes observations of the 17 March 2013 storm. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 7327-7342	2.6	75
216	Outage of the L4 System and the Geomagnetic Disturbances of 4 August 1972. *Bell System Technical Journal*, **1974**, 53, 1817-1837		71
215	Laboratory studies of charged particle erosion of SO2 ice and applications to the frosts of Io. *Astrophysical Journal*, **1982**, 259, 920	4.7	70
214	Formaldehyde formation in a H2O/CO2 ice mixture under irradiation by fast ions. *Astrophysical Journal*, **1982**, 262, 636	4.7	68
213	ULF pulsation evidence of the plasmapause 3. Interpretation of polarization and spectral amplitude studies of Pc 3 and Pc 4 pulsations near L=4. *Journal of Geophysical Research*, **1974**, 79, 4648-4653		67
212	The Peak Flux Distribution of Solar Radio Bursts. *Astrophysical Journal*, **2002**, 570, 423-438	4.7	66
211	Erosion of galilean satellite surfaces by jovian magnetosphere particles. *Science*, **1981**, 212, 1027-30	33.3	62

210	The hot plasma environment at jupiter: ulysses results. *Science*, **1992**, 257, 1518-24	33.3	60
209	Penetration of Solar Protons and Alphas to the Geomagnetic Equator. *Physical Review Letters*, **1968**, 21, 929-933	7.4	58
208	Energetic particle signatures at Ganymede: Implications for Ganymede's magnetic field. *Geophysical Research Letters*, **1997**, 24, 2163-2166	4.9	56
207	ULF pulsation evidence of the plasmapause: 1. Spectral studies of Pc 3 and Pc 4 pulsations near L = 4. *Journal of Geophysical Research*, **1974**, 79, 142-158		56
206	High-Energy Charged Particles in the Innermost Jovian Magnetosphere. *Science*, **1996**, 272, 856-8	33.3	55
205	Low-Energy Hot Plasma and Particles in Saturn's Magnetosphere. *Science*, **1982**, 215, 571-7	33.3	55
204	Excitation of the Plasmapause at Ultralow Frequencies. *Physical Review Letters*, **1973**, 31, 624-628	7.4	54
203	The sun and heliosphere at solar maximum. *Science*, **2003**, 302, 1165-9	33.3	53
202	Plasma ion-induced molecular ejection on the Galilean satellites: Energies of ejected molecules. *Geophysical Research Letters*, **1983**, 10, 892-895	4.9	53
201	Production of ammonia-depleted surface layers on the saturnian satellites by ion sputtering. *Nature*, **1984**, 312, 139-140	50.4	52
200	ULF geomagnetic power near L = 4: 2. Temporal variation of the radial diffusion coefficient for relativistic electrons. *Journal of Geophysical Research*, **1973**, 78, 4600-4610		52
199	Experimental study of erosion of methane ice by energetic ions and some considerations for astrophysics. *Astrophysical Journal*, **1987**, 313, 910	4.7	52
198	The evolution of ring current ion energy density and energy content during geomagnetic storms based on Van Allen Probes measurements. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 7493-7511	2.6	50
197	Detection of energetic hydrogen molecules in Jupiter's magnetosphere by Voyager 2: Evidence for an ionospheric plasma source. *Geophysical Research Letters*, **1980**, 7, 813-816	4.9	50
196	Latitude and longitude dependence of storm time Pc 5 type plasma wave. *Journal of Geophysical Research*, **1975**, 80, 1014-1018		50
195	Observed solar radio burst effects on GPS/Wide Area Augmentation System carrier-to-noise ratio. *Space Weather*, **2006**, 4, n/a-n/a	3.7	49
194	Radial diffusion of outer-zone electrons: An empirical approach to third-invariant violation. *Journal of Geophysical Research*, **1970**, 75, 5351-5371		49
193	The source of O+ in the storm time ring current. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 5333-5349	2.6	47

192	ULF pulsation evidence of the plasmapause 2. Polarization studies of Pc 3 and Pc 4 pulsations near L=4 and at a latitude network in the conjugate region. *Journal of Geophysical Research*, **1974**, 79, 4632-4647		47
191	Storm time Pc 5 magnetic pulsation at the equator in the magnetosphere and its latitude dependence as measured on the ground. *Journal of Geophysical Research*, **1974**, 79, 2420-2426		46
190	Encounter of theUlyssesSpacecraft with the Ion Tail of Comet McNaught. *Astrophysical Journal*, **2007**, 667, 1262-1266	4.7	44
189	Low energy cosmic ray erosion of ice grains in interplanetary and interstellar media. *Nature*, **1978**, 272, 431-433	50.4	43
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187	Review of hydromagnetic wave studies in the Antarctic. *Reviews of Geophysics*, **1988**, 26, 181	23.1	42
186	Latitude dependence of ionosphere total electron content: Observations during sudden commencement storms. *Journal of Geophysical Research*, **1975**, 80, 1287-1306		42
185	Magnetic impulses and associated optical signatures in the dayside aurora. *Geophysical Research Letters*, **1990**, 17, 131-134	4.9	41
184	An observation of atmospheric gravity wave cause and effect during the October 1985 WAGS campaign. *Radio Science*, **1988**, 23, 919-930	1.4	41
183	Proton drift echoes in the magnetosphere. *Journal of Geophysical Research*, **1971**, 76, 259-263		40
182	Spatial structure and temporal evolution of energetic particle injections in the inner magnetosphere during the 14 July 2013 substorm event. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 1924-1938	2.6	39
181	A reinterpretation of the reported energetic particle fluxes in the vicinity of Mercury. *Journal of Geophysical Research*, **1975**, 80, 4015-4017		39
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172	Energetic charged particle measurements from Voyager 2 at the heliopause and beyond. *Nature Astronomy*, **2019**, 3, 997-1006	12.1	35
171	A subauroral and mid-latitude view of substorm activity. *Journal of Geophysical Research*, **1975**, 80, 4279-4286		35
170	Comment on Solar wind dynamic pressure variations and transient magnetospheric signatures *Geophysical Research Letters*, **1989**, 16, 1197-1199	4.9	34
169	Magnetospheric substorms on September 14, 1968. *Journal of Geophysical Research*, **1971**, 76, 6765-6780		34
168	A comparison of ULF and VLF measurements of magnetospheric cold plasma densities. *Journal of Geophysical Research*, **1977**, 82, 5063-5072		32
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164	ENERGETIC PARTICLE OBSERVATIONS AND PROPAGATION IN THE THREE-DIMENSIONAL HELIOSPHERE DURING THE 2006 DECEMBER EVENTS. *Astrophysical Journal*, **2009**, 704, 469-476	4.7	28
163	Solar wind properties observed during high-latitude impulsive perturbation events. *Geophysical Research Letters*, **1990**, 17, 579-582	4.9	28
162	Induction of currents in long submarine cables by natural phenomena. *Reviews of Geophysics*, **1983**, 21, 795	23.1	28
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158	Energetic (~ 100-keV) tailward-directed ion beam outside the Jovian plasma boundary. *Geophysical Research Letters*, **1980**, 7, 13-16	4.9	27
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144	Anthropogenic Space Weather. *Space Science Reviews*, **2017**, 212, 985-1039	7.5	21
143	The Characteristic Pitch Angle Distributions of 1 eV to 600 keV Protons Near the Equator Based On Van Allen Probes Observations. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 9464-9473	2.6	21
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113	Abundance of solar cosmic ray alpha particles. *Journal of Geophysical Research*, **1973**, 78, 3935-3941		14
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