Lon L Hood

List of Publications by Year
in descending order

62 papers	3,390 citations	117453 34 h-index	155451 55 g-index
62 all docs	62 docs citations	62 times ranked	1781 citing authors

#	Article	IF	Citations
1	Lunar Surface Magnetic Fields and Their Interaction with the Solar Wind: Results from Lunar Prospector. , 1998, 281, 1480-1484.		230
2	Initial mapping and interpretation of lunar crustal magnetic anomalies using Lunar Prospector magnetometer data. Journal of Geophysical Research, 2001, 106, 27825-27839.	3.3	187
3	Solar cycle variation of stratospheric ozone: Multiple regression analysis of long-term satellite data sets and comparisons with models. Journal of Geophysical Research, 2006, 111, .	3.3	173
4	Lunar Magnetic Anomalies and Surface Optical Properties. Science, 1980, 208, 49-51.	6.0	144
5	Antipodal effects of lunar basin-forming impacts: Initial 3D simulations and comparisons with observations. Icarus, 2008, 193, 485-502.	1.1	142
6	Mapping of crustal magnetic anomalies on the lunar near side by the Lunar Prospector electron reflectometer. Journal of Geophysical Research, 2001, 106, 27841-27852.	3.3	132
7	Quasi-Decadal Variability of the Stratosphere: Influence of Long-Term Solar Ultraviolet Variations. Journals of the Atmospheric Sciences, 1993, 50, 3941-3958.	0.6	127
8	The solar cycle variation of total ozone: Dynamical forcing in the lower stratosphere. Journal of Geophysical Research, 1997, 102, 1355-1370.	3.3	121
9	The Origin of Chondrules at Jovian Resonances. Science, 1998, 279, 681-684.	6.0	119
10	Apparent solar cycle variations of upper stratospheric ozone and temperature: Latitude and seasonal dependences. Journal of Geophysical Research, 1996, 101, 20933-20944.	3.3	103
11	Coupled stratospheric ozone and temperature responses to shortâ€term changes in solar ultraviolet flux: An analysis of Nimbus 7 SBUV and SAMS data. Journal of Geophysical Research, 1986, 91, 5264-5276.	3.3	95
12	A preliminary global map of the vector lunar crustal magnetic field based on Lunar Prospector magnetometer data. Journal of Geophysical Research, 2008, 113, .	3.3	91
13	Effects of solar UV variability on the stratosphere. Geophysical Monograph Series, 2004, , 283-303.	0.1	81
14	The deep lunar electrical conductivity profile: Structural and thermal inferences. Journal of Geophysical Research, 1982, 87, 5311-5326.	3.3	80
15	Formation of magnetic anomalies antipodal to lunar impact basins: Twoâ€dimensional model calculations. Journal of Geophysical Research, 1991, 96, 9837-9846.	3.3	77
16	Central magnetic anomalies of Nectarian-aged lunar impact basins: Probable evidence for an early core dynamo. Icarus, 2011, 211, 1109-1128.	1.1	74
17	The Nebular Shock Wave Model for Chondrule Formation: One-Dimensional Calculations. Icarus, 1993, 106, 179-189.	1.1	73
18	Thermal processing of chondrule precursors in planetesimal bow shocks. Meteoritics and Planetary Science, 1998, 33, 97-107.	0.7	71

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19	Mapping and modeling of magnetic anomalies in the northern polar region of Mars. Journal of Geophysical Research, 2001, 106, 14601-14619.	3.3	62
20	Possible solar modulation of the equatorial quasi-biennial oscillation: Additional statistical evidence. Journal of Geophysical Research, 2001, 106, 14855-14868.	3.3	61
21	Quasi-Decadal Variability of the Tropical Lower Stratosphere: The Role of Extratropical Wave Forcing. Journals of the Atmospheric Sciences, 2003, 60, 2389-2403.	0.6	57
22	Modeling of major martian magnetic anomalies: Further evidence for polar reorientations during the Noachian. Icarus, 2005, 177, 144-173.	1.1	53
23	Correlation of a strong lunar magnetic anomaly with a high-albedo region of the Descartes mountains. Geophysical Research Letters, 2003, 30, .	1.5	52
24	Solarâ€QBO interaction and its impact on stratospheric ozone in a zonally averaged photochemical transport model of the middle atmosphere. Journal of Geophysical Research, 2007, 112, .	3.3	51
25	Contour maps of lunar remanent magnetic fields. Journal of Geophysical Research, 1981, 86, 1055-1069.	3.3	50
26	Evaluating planetesimal bow shocks as sites for chondrule formation. Meteoritics and Planetary Science, 2004, 39, 1809-1821.	0.7	48
27	The frequency of compound chondrules and implications for chondrule formation. Meteoritics and Planetary Science, 2004, 39, 531-544.	0.7	48
28	Decadal variability of the tropical stratosphere: Secondary influence of the El NiÃ±oâ€“Southern Oscillation. Journal of Geophysical Research, 2010, 115, .	3.3	48
29	Correlations between magnetic anomalies and surface geology antipodal to lunar impact basins. Journal of Geophysical Research, 2005, 110, .	3.3	47
30	Magnetic anomalies near Apollinaris Patera and the Medusae Fossae Formation in Lucus Planum, Mars. Icarus, 2010, 208, 118-131.	1.1	45
31	components of interannual ozone change based on NIMBUS 7 TOMS data. Geophysical Research Letters, 1992, 19, 2309-2312.	1.5	44
32	The Lower-Stratospheric Response to 11-Yr Solar Forcing: Coupling to the Troposphereâ€“Ocean Response. Journals of the Atmospheric Sciences, 2012, 69, 1841-1864.	0.6	43
33	Solar signals in CMIPâ€5 simulations: the ozone response. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 2670-2689.	1.0	43
34	Magnetic field and remanent magnetization effects of basinâ€forming impacts on the Moon. Geophysical Research Letters, 1987, 14, 844-847.	1.5	36
35	Demagnetization signatures of lunar impact craters. Geophysical Research Letters, 2002, 29, 23-1.	1.5	36
36	Solar induced variations of odd nitrogen: Multiple regression analysis of UARS HALOE data. Geophysical Research Letters, 2006, 33, .	1.5	35

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37	Mesospheric effects of solar ultraviolet variations: Further analysis of SME IR ozone and Nimbus 7 SAMS temperature data. Journal of Geophysical Research, 1991, 96, 12989-13002.	3.3	33
38	Stratospheric effects of 27-day solar ultraviolet variations: An analysis of UARS MLS ozone and temperature data. Journal of Geophysical Research, 1998, 103, 3629-3638.	3.3	31
39	Approximate separation of volcanic and 11-year signals in the SBUV-SBUV/2 total ozone record over the 1979-1995 Period. Geophysical Research Letters, 1997, 24, 2729-2732.	1.5	30
40	Stratospheric dynamical effects of solar ultraviolet variations: Evidence from zonal mean ozone and temperature data. Journal of Geophysical Research, 1991, 96, 7565-7577.	3.3	29
41	Origin of strong lunar magnetic anomalies: Further mapping and examinations of LROC imagery in regions antipodal to young large impact basins. Journal of Geophysical Research E: Planets, 2013, 118, 1265-1284.	1.5	29
42	Nebular shock waves generated by planetesimals passing through Jovian resonances: Possible sites for chondrule formation. Meteoritics and Planetary Science, 2009, 44, 327-342.	0.7	28
43	Magnetic anomalies concentrated near and within Mercury's impact basins: Early mapping and interpretation. Journal of Geophysical Research E: Planets, 2016, 121, 1016-1025.	1.5	25
44	QBO/solar modulation of the boreal winter Maddenâ€Julian oscillation: A prediction for the coming solar minimum. Geophysical Research Letters, 2017, 44, 3849-3857.	1.5	24
45	Thermal response of the tropical tropopause region to solar ultraviolet variations. Geophysical Research Letters, 2003, 30, n/a-n/a.	1.5	20
46	Eastâ€“west trending magnetic anomalies in the Southern Hemisphere of Mars: Modeling analysis and interpretation. Icarus, 2007, 191, 113-131.	1.1	20
47	Initial mapping of Mercury's crustal magnetic field: Relationship to the Caloris impact basin. Geophysical Research Letters, 2015, 42, 10,565.	1.5	19
48	Constraining the Early History of Mercury and Its Core Dynamo by Studying the Crustal Magnetic Field. Journal of Geophysical Research E: Planets, 2019, 124, 2382-2396.	1.5	18
49	Lagged response of tropical tropospheric temperature to solar ultraviolet variations on intraseasonal time scales. Geophysical Research Letters, 2016, 43, 4066-4075.	1.5	17
50	Investigating Sources of Mercury's Crustal Magnetic Field: Further Mapping of MESSENGER Magnetometer Data. Journal of Geophysical Research E: Planets, 2018, 123, 2647-2666.	1.5	16
51	The planetesimal bow shock model for chondrule formation: A more quantitative assessment of the standard (fixed Jupiter) case. Meteoritics and Planetary Science, 2012, 47, 1715-1727.	0.7	15
52	A New Largeâ€Scale Map of the Lunar Crustal Magnetic Field and Its Interpretation. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006667.	1.5	12
53	Magnetic anomalies in the Imbrium and SchrÃ¶dinger impact basins: Orbital evidence for persistence of the lunar core dynamo into the Imbrian epoch. Journal of Geophysical Research E: Planets, 2016, 121, 2268-2281.	1.5	11
54	Short-Term Solar Modulation of the Maddenâ€“Julian Climate Oscillation. Journals of the Atmospheric Sciences, 2018, 75, 857-873.	0.6	9

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55	Stratospheric Influences on the MJO-Induced Rossby Wave Train: Effects on Intraseasonal Climate. Journal of Climate, 2020, 33, 365-389.	1.2	7
56	The scale size of chondrule formation regions: Constraints imposed by chondrule cooling rates. Meteoritics and Planetary Science, 2001, 36, 1571-1585.	0.7	6
57	Magnetic Anomalies in Five Lunar Impact Basins: Implications for Impactor Trajectories and Inverse Modeling. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006668.	1.5	6
58	Lunar Magnetic Anomalies. , 2014, , 1-8.		2
59	Mercury and the Moon. Science, 2015, 349, 1459-1459.	6.0	1
60	Asymmetric Magnetic Anomalies Over Young Impact Craters on Mercury. Geophysical Research Letters, 2021, 48, e2020GL091767.	1.5	1
61	Lunar Magnetic Anomalies. , 2015, , 1-8.		1
62	Lunar Magnetic Anomalies. , 2021, , 1-9.		1