Leila M Mays

List of Publications by Year
in descending order

46 papers	1,926 citations	257450 24 h-index	254184 43 g-index
46 all docs	46 docs citations	46 times ranked	1768 citing authors

#	Article	IF	Citations
1	A major solar eruptive event in July 2012: Defining extreme space weather scenarios. Space Weather, 2013, 11, 585-591.	3.7	189
2	Ensemble Modeling of CMEs Using the WSAâ€"ENLIL+Cone Model. Solar Physics, 2015, 290, 1775-1814.	2.5	170
3	Forecasting the Arrival Time of Coronal Mass Ejections: Analysis of the CCMC CME Scoreboard. Space Weather, 2018, 16, 1245-1260.	3.7	94
4	Simulation of the 23 July 2012 extreme space weather event: What if this extremely rare CME was Earth directed?. Space Weather, 2013, 11, 671-679.	3.7	87
5	Interplanetary coronal mass ejection observed at STEREOâ€A, Mars, comet 67P/Churyumovâ€Gerasimenko, Saturn, and New Horizons en route to Pluto: Comparison of its Forbush decreases at 1.4, 3.1, and 9.9ÂAU. Journal of Geophysical Research: Space Physics, 2017, 122, 7865-7890.	2.4	87
6	Observations and Impacts of the 10 September 2017 Solar Events at Mars: An Overview and Synthesis of the Initial Results. Geophysical Research Letters, 2018, 45, 8871-8885.	4.0	77
7	HELIOSPHERIC PROPAGATION OF CORONAL MASS EJECTIONS: COMPARISON OF NUMERICAL WSA-ENLIL+CONE MODEL AND ANALYTICAL DRAG-BASED MODEL. Astrophysical Journal, Supplement Series, 2014, 213, 21.	7.7	76
8	Verification of real-time WSAâ^'ENLIL+Cone simulations of CME arrival-time at the CCMC from 2010 to 2016. Journal of Space Weather and Space Climate, 2018, 8, A17.	3.3	68
9	Predicting the magnetic vectors within coronal mass ejections arriving at Earth: 1. Initial architecture. Space Weather, 2015, 13, 374-385.	3.7	65
10	Forecasting the Structure and Orientation of Earthbound Coronal Mass Ejections. Space Weather, 2019, 17, 498-526.	3.7	65
11	Modeling the Evolution and Propagation of 10 September 2017 CMEs and SEPs Arriving at Mars Constrained by Remote Sensing and In Situ Measurement. Space Weather, 2018, 16, 1156-1169.	3.7	61
12	Longitudinal conjunction between MESSENGER and STEREO A: Development of ICME complexity through stream interactions. Journal of Geophysical Research: Space Physics, 2016, 121, 6092-6106.	2.4	58
13	The Drag-based Ensemble Model (DBEM) for Coronal Mass Ejection Propagation. Astrophysical Journal, 2018, 854, 180.	4.5	58
14	MESSENGER Observations of Disappearing Dayside Magnetosphere Events at Mercury. Journal of Geophysical Research: Space Physics, 2019, 124, 6613-6635.	2.4	53
15	Benchmarking CME Arrival Time and Impact: Progress on Metadata, Metrics, and Events. Space Weather, 2019, 17, 6-26.	3.7	47
16	The Solar Energetic Particle Event of 2010 August 14: Connectivity with the Solar Source Inferred from Multiple Spacecraft Observations and Modeling. Astrophysical Journal, 2017, 838, 51.	4.5	45
17	Update on the Worsening Particle Radiation Environment Observed by CRaTER and Implications for Future Human Deepâ€Space Exploration. Space Weather, 2018, 16, 289-303.	3.7	44
18	PROPAGATION OF THE 2014 JANUARY 7 CME AND RESULTING GEOMAGNETIC NON-EVENT. Astrophysical Journal, 2015, 812, 145.	4.5	43

#	Article	IF	Citations
19	Validation for global solar wind prediction using Ulysses comparison: Multiple coronal and heliospheric models installed at the Community Coordinated Modeling Center. Space Weather, 2016, 14, 592-611.	3.7	38
20	SHOCK CONNECTIVITY IN THE 2010 AUGUST AND 2012 JULY SOLAR ENERGETIC PARTICLE EVENTS INFERRED FROM OBSERVATIONS AND ENLIL MODELING. Astrophysical Journal, 2016, 825, 1.	4.5	37
21	Modeling solar energetic particle events using ENLIL heliosphere simulations. Space Weather, 2017, 15, 934-954.	3.7	35
22	Shock Connectivity and the Late Cycle 24 Solar Energetic Particle Events in July and September 2017. Space Weather, 2018, 16, 557-568.	3.7	34
23	Opening a Window on ICME-driven GCR Modulation in the Inner Solar System. Astrophysical Journal, 2018, 856, 139.	4.5	27
24	Ensemble Prediction of a Halo Coronal Mass Ejection Using Heliospheric Imagers. Space Weather, 2018, 16, 784-801.	3.7	27
25	Identifying Critical Input Parameters for Improving Dragâ€Based CME Arrival Time Predictions. Space Weather, 2020, 18, e2019SW002382.	3.7	26
26	Forecasting the Ambient Solar Wind with Numerical Models. I. On the Implementation of an Operational Framework. Astrophysical Journal, Supplement Series, 2019, 240, 35.	7.7	25
27	Predicting the magnetic vectors within coronal mass ejections arriving at Earth: 2. Geomagnetic response. Space Weather, 2017, 15, 441-461.	3.7	24
28	Mars plasma system response to solar wind disturbances during solar minimum. Journal of Geophysical Research: Space Physics, 2017, 122, 6611-6634.	2.4	24
29	Prediction of Solar Energetic Particle Event Peak Proton Intensity Using a Simple Algorithm Based on CME Speed and Direction and Observations of Associated Solar Phenomena. Space Weather, 2018, 16, 1862-1881.	3.7	23
30	Unusual Plasma and Particle Signatures at Mars and STEREO-A Related to CMEâ€“CME Interaction. Astrophysical Journal, 2019, 880, 18.	4.5	22
31	Forecasting propagation and evolution of CMEs in an operational setting: What has been learned. Space Weather, 2013, 11, 557-574.	3.7	21
32	Modeling the 2012 May 17 Solar Energetic Particle Event Using the AWSoM and iPATH Models. Astrophysical Journal, 2021, 919, 146.	4.5	21
33	A propagation tool to connect remote-sensing observations with in-situ measurements of heliospheric structures. Planetary and Space Science, 2017, 147, 61-77.	1.7	19
34	Magnetic Structure and Propagation of Two Interacting CMEs From the Sun to Saturn. Journal of Geophysical Research: Space Physics, 2021, 126, .	2.4	16
35	CMEs and SEPs During Novemberâ€“December 2020: A Challenge for Realâ€Time Space Weather Forecasting. Space Weather, 2022, 20, .	3.7	16
36	Operational Modeling of Heliospheric Space Weather for the Parker Solar Probe. Astrophysical Journal, Supplement Series, 2020, 246, 73.	7.7	15

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37	The unusual widespread solar energetic particle event on 2013 August 19. Astronomy and Astrophysics, 2021, 653, A137.	5.1	15
38	The Streamer Blowout Origin of a Flux Rope and Energetic Particle Event Observed by Parker Solar Probe at 0.5 au. Astrophysical Journal, 2020, 897, 134.	4.5	14
39	Propagating Conditions and the Time of ICME Arrival: A Comparison of the Effective Acceleration Model with ENLIL and DBEM Models. Solar Physics, 2021, 296, 1.	2.5	14
40	Direct First Parker Solar Probe Observation of the Interaction of Two Successive Interplanetary Coronal Mass Ejections in 2020 November. Astrophysical Journal, 2022, 930, 88.	4.5	14
41	Continuous solar wind forcing knowledge: Providing continuous conditions at Mars with the WSAâ€ENLILâ€‰+â€‰Cone model. Journal of Geophysical Research: Space Physics, 2016, 121, 6207-6222.	2.4	10
42	OSPREI: A Coupled Approach to Modeling CMEâ€Driven Space Weather With Automatically Generated, Userâ€Friendly Outputs. Space Weather, 2022, 20, e2021SW002914.	3.7	9
43	Evidence of a complex structure within the 2013 August 19 coronal mass ejection. Astronomy and Astrophysics, 2022, 662, A45.	5.1	9
44	Effect of an Interplanetary Coronal Mass Ejection on Saturnâ€™s Radio Emission. Frontiers in Astronomy and Space Sciences, 2022, 9, .	2.8	2
45	First Measurements of Jovian Electrons by Parker Solar Probe/ISâŠ™IS within 0.5 au of the Sun. Astrophysical Journal, 2022, 933, 171.	4.5	2
46	Prospects for Modeling and Forecasting SEP Events with ENLIL and SEPMOD. Proceedings of the International Astronomical Union, 2017, 13, 263-267.	0.0	0