

## All Publications – Christian Möstl

104 articles (16 as first author) published in internationally peer reviewed journals.

Total refereed citations: 3648, h-index 35 (source: [SAO/NASA ADS](#), July 2022).

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(a) peer-reviewed

*in preparation:*

108. Harrison, R. A., J. A. Davies, D. Barnes, **C. Möstl**, et al., A comparison between coronagraph and heliospheric imager observations at L1 and off the Sun-Earth line for Earth-directed CMEs: An analysis of anomalous observations, in preparation for *Space Weather*, 2022.

*submitted / in revision / revised:*

107. Rodriguez, L., A. Warmuth, V. Andretta, M. Mierla, A. N. Zhukov, D. Shukhobodskaya, A. Niemela, A. Maharana, M.J. West, E. K. J. Kilpua, C. Möstl, E. D’Huys, A. M. Veronig, F. Auchère, A. F. Battaglia, F. Benvenuto, D. Berghmans, E. C. M. Dickson, M. Dominique, S. Gissot, L. A. Hayes, T. Katsiyannis, E. Kraaikamp, F. Landini, J. Magdalenic, G. Mann, P. Massa, B. Nicula, M. Piana, O. Podladchikova, C. Sasso, F. Schuller, K. Stegen, R. Susino, M. Uslenghi, C. Verbeeck, The eruption of 22 April 2021 as observed by Solar Orbiter, STEREO and Earth bound instruments, *Solar Physics*, submitted, 2022.

106. Rüdiger, H. T., A. Windisch, U. V. Amerstorfer, C. Möstl, T. Amerstorfer, R. L. Bailey, M. A. Reiss, Automatic Detection of Interplanetary Coronal Mass Ejections in Solar Wind In Situ Data, *Space Weather*, in revision, 2022. <https://arxiv.org/abs/2205.03578>

105. Weiss, A. J., T. Nieves-Chinchilla, C. Möstl, M. A. Reiss, T. Amerstorfer, R. L. Bailey, Analytical Writhed Magnetic Flux Rope Model, *A&A*, submitted, 2022. <https://arxiv.org/abs/2202.10096>

*published / in press:*

104. Davies, E.E., R. M. Winslow, C. Scolini, R. J. Forsyth, C. Möstl, Multi-Spacecraft Observations of the Evolution of Interplanetary Coronal Mass Ejections Between 0.3 and 2.2 AU: Conjunctions with the Juno Spacecraft, *ApJ*, in press, 2022. <https://arxiv.org/abs/2205.09472>

103. Reiss, M.A., K. Muglach, R. Mullinix, M. M. Kuznetsova, C. Wiegand, M. Temmer, C. N. Arge, S. Dasso, S. F. Fung, J. J. Gonzalez Aviles, S. Gonzi, L. Jian, P. MacNeice, **C. Möstl**, M. Owens, B. Perri, R. Pinto, L. Rastätter, P. Riley, E. Samara, and ISWAT H1-01 Team Members, Unifying the Validation of Large-Scale Solar Wind Models, *Advances in Space Research*, in press, 2022.

<https://arxiv.org/abs/2201.13447> <https://doi.org/10.1016/j.asr.2022.05.026>

102. Lugaz, N., T. M. Salman, C. J. Farrugia, W. Yu, B. Zhuang, N. Al-Haddad, C. Scolini, R. M. Winslow, C. Möstl, E. E. Davies, A. B. Galvin, A Coronal Mass Ejection and Magnetic Ejecta Observed In Situ by STEREO-A and Wind at 55° Angular Separation, *ApJ*, 929, 2, 149, 2022.

<https://arxiv.org/abs/2203.16477> <https://iopscience.iop.org/article/10.3847/1538-4357/ac602f>

101. Palmerio, E., C. Lee, M. L. Mays, J. Luhmann, D. Lario, B. Sanchez-Cano, I. G. Richardson, R. Vainio, M. Stevens, C. M. S. Cohen, K. Steinvall, **C. Möstl**, A. J. Weiss, T. Nieves-Chinchilla, Y. Li, D. Larson, D. Heyner, S. Bale, A. Galvin, M. Holmström, Y.

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100. Bailey, R., R. Leonhardt, **C. Möstl**, C. Beggan, M. A. Reiss, A. Bashkar, A. J. Weiss, Forecasting GICs and geoelectric fields from solar wind data using LSTMs: application in Austria, *Space Weather*, e2021SW002907, 2022. <https://arxiv.org/abs/2109.08624>

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99. **Möstl, C.**, A. J. Weiss, R. L. Bailey, M. A. Reiss, T. Amerstorfer, J. Hinterreiter, M. Bauer, D. Barnes, J. A. Davies, R. A. Harrison, J. von Forstner, E. E. Davies, D. Heyner, T. Horbury, Multipoint ICME events during the first year of combined Solar Orbiter, BepiColombo, Parker Solar Probe, Wind and STEREO-A observations, *ApJL*, 924, L6, 2022.

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98. Rodriguez, L., D. Barnes, S. Hostenaux, J. A. Davies, S. Willems, V. Pant, R.A. Harrison, D. Berghmans, V. Bothmer, J. P. Eastwood, P. Gallagher, E. K. J. Kilpua, J. Magdalenic, M. Mierla, **C. Möstl**, A. P. Rouillard, D. Odstroil, S. Poedts, Comparing the HELCATS manual and automatic catalogues of CMEs using STEREO-HI data, *Solar Physics*, 297, 23, 2022.

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95. Barnard, L., M. J. Owens, C. J. Scott, M. Lockwood, C. A. de Koning, T. Amerstorfer, J. Hinterreiter, **C. Möstl**, J. A. Davies, P. Riley, Quantifying the uncertainty in CME kinematics derived from geometric modelling of Heliospheric Imager data, *Space Weather*, 20, 1, e2021SW002841, 2022. <https://doi.org/10.1029/2021SW002841>

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