Alessandro Bemporad

PUBLICATIONS

(March 2024)

During his career he published a total of 115 referee papers, 28 conference proceedings, 36 technical papers, 14 technical reports, and 11 outreach papers, all listed below.

- **REFEREED PUBLICATIONS (H index = 25 – from NASA ADS)**

1. "Space weather-related activities and projects on-going at INAF-Turin Observatory", **Bemporad, A.**, Fineschi, S., Abbo, L., and 18 co-authors, Rendiconti Lincei. Scienze Fisiche e Naturali. Scienze Fisiche e Naturali, Volume 34, Issue 4, 2023

https://ui.adsabs.harvard.edu/abs/2023RLSFN..34.1055B/abstract

2. "Analysis of the first coronagraphic multi-band observations of a sungrazing comet", **Bemporad, A.**, Pennella, S., Battams, K., and 35 co-authors, Astronomy & Astrophysics, Volume 680, id.A90, 2023.

https://ui.adsabs.harvard.edu/abs/2023A%26A...680A..90B/abstract

3. "First Metis Detection of the Helium D3 Line Polarization in a Large Eruptive Prominence", Heinzel, P., Jejčič, S., Štěpán, J., and 24 co-authors, The Astrophysical Journal Letters, Volume 957, Issue 1, id.L10, 2023.

https://ui.adsabs.harvard.edu/abs/2023ApJ...957L..10H/abstract

4. "Two-dimensional MHD modelling of switchbacks from jetlets in the slow solar wind", Biondo, R., Bemporad, A., Pagano, P., Reale, F., Astronomy & Astrophysics, Volume 679, id.L14, 2023

https://ui.adsabs.harvard.edu/abs/2023A%26A...679L..14B/abstract

5. "Physics-driven Machine Learning for the Prediction of Coronal Mass Ejections' Travel Times", Guastavino, S., Candiani, V., **Bemporad, A.**, The Astrophysical Journal, Volume 954, Issue 2, id.151, 2023.

https://ui.adsabs.harvard.edu/abs/2023ApJ...954..151G/abstract

6. "Reconstrucción tridimensional de la velocidad del viento solar mediante tomografía Lyman-α", Nuevo, F. A., Vásquez, A. M., Frassati, F., Bemporad, A., and 4 co-authors, Boletín de la Asociación Argentina de Astronomía. Edited by R.D. Rohrmann, C.H. Mandrini, C.E. Boeris and M.A. Sgró. Vol. 64, 2023.

https://ui.adsabs.harvard.edu/abs/2023BAAA...64....8N/abstract

7. "A high-latitude coronal mass ejection observed by a constellation of coronagraphs: Solar Orbiter/Metis, STEREO-A/COR2, and SOHO/LASCO", Zimbardo, G., Ying, B., Nisticò, G., and 35 co-authors, Astronomy & Astrophysics, Volume 676, id.A48, 2023

https://ui.adsabs.harvard.edu/abs/2023A%26A...676A..48Z/abstract

8. "In-flight radiometric calibration of the Metis Visible Light channel using stars and comparison with STEREO-A/COR2 data", De Leo, Y., Burtovoi, A., Teriaca, L., and 45 co-authors, Astronomy & Astrophysics, Volume 676, id.A45, 2023.

https://ui.adsabs.harvard.edu/#abs/2023A%26A...676A..45D/abstract

9. "A New Method Linking the Solar Wind Speed to the Coronal Magnetic Field", Casti, M., Arge, C. N., **Bemporad, A.**, Pinto, R. F.; Henney, C. J., The Astrophysical Journal, Volume 949, Issue 2, id.42, 2023.

https://ui.adsabs.harvard.edu/abs/2023ApJ...949...42C/abstract

10. "Three Eruptions Observed by Remote Sensing Instruments Onboard Solar Orbiter", Mierla, M., Cremades, H., Andretta, V., and 31 co-authors, Solar Physics, Volume 298, Issue 3, article id.42, 2023.

https://ui.adsabs.harvard.edu/abs/2023SoPh..298...42M/abstract

11. "Coronal Magnetic Fields Derived with Images Acquired during the 2017 August 21 Total Solar Eclipse", **Bemporad A.**, The Astrophysical Journal, Volume 946, Issue 1, id.14, 2023.

https://ui.adsabs.harvard.edu/abs/2023ApJ...946...14B/abstract

12. "Is There a Dynamic Difference between Stealthy and Standard Coronal Mass Ejections?", Beili, Y., **Bemporad, A.**, and 3 coauthors, The Astrophysical Journal, Volume 942, Issue 1, id.3,, 2023.

https://ui.adsabs.harvard.edu/abs/2023ApJ...942....3Y/abstract

13. "Three-dimensional reconstruction of type U radio bursts: a novel remote sensing approach for coronal loops", Mancuso, S., Barghini, D., **Bemporad, A.**, and 5 coauthors, Astronomy & Astrophysics, Volume 669, id.A28, 2023.

https://ui.adsabs.harvard.edu/abs/2023A%26A...669A..28M/abstract

14. “Connecting Solar Orbiter remote-sensing observations and Parker Solar Probe in situ measurements with a numerical MHD reconstruction of the Parker spiral”, Biondo, R., **Bemporad, A.**, and 22 coauthors, Astronomy & Astrophysics, Volume 668, id.A144, 2022.
https://ui.adsabs.harvard.edu/abs/2022A%26A...668A.144B/abstract
15. “Tomography of the Solar Corona with the Metis Coronagraph I: Predictive Simulations with Visible-Light Images”, Vasquez, A.M., and 7 coauthors, Solar Physics, Volume 297, Issue 9, article id.120, 2022.
https://ui.adsabs.harvard.edu/abs/2022SoPh..297..120V/abstract
16. “Coronal mass ejection followed by a prominence eruption and a plasma blob as observed by Solar Orbiter”, **Bemporad, A.**, and 28 coauthors, Astronomy & Astrophysics, Volume 665, id.A7, 2022.
https://ui.adsabs.harvard.edu/abs/2022A%26A...665A...7B/abstract
17. “Polarimetric Studies of a Fast Coronal Mass Ejection”, Mierla, M., and 6 coauthors, Solar Physics, Volume 297, Issue 7, article id.78, 2022.
https://ui.adsabs.harvard.edu/abs/2022SoPh..297...78M/abstract
18. “Acceleration of Solar Energetic Particles through CME-driven Shock and Streamer Interaction”, Frassati, F., and 7 coauthors, The Astrophysical Journal, Volume 926, Issue 2, id.227, 2022.
https://ui.adsabs.harvard.edu/abs/2022ApJ...926..227F/abstract
19. “Temperature and Thermal Energy of a Coronal Mass Ejection”, **Bemporad, A.**, Symmetry, vol. 14, issue 3, p. 468, 2022.
https://ui.adsabs.harvard.edu/abs/2022Symm...14..468B/abstract
20. “Ultraviolet Observations of Comet 96/P Machholz at Perihelion”, Raymond, J.C., and 4 coauthors, The Astrophysical Journal, Volume 926, Issue 1, id.93, 2022.
https://ui.adsabs.harvard.edu/abs/2022ApJ...926...93R/abstract
21. “The first coronal mass ejection observed in both visible-light and UV H I Ly-α channels of the Metis coronagraph on board Solar Orbiter”, Andretta, V., **Bemporad, A.**, and 69 coauthors, Astronomy & Astrophysics, Volume 656, id.L14, 2021.
https://ui.adsabs.harvard.edu/abs/2021A%26A...656L..14A/abstract
22. “First light observations of the solar wind in the outer corona with the Metis coronagraph”, Romoli, M., and 67 coauthors, Astronomy & Astrophysics, Volume 656, id.A32, 2021.
https://ui.adsabs.harvard.edu/abs/2021A%26A...656A..32R/abstract
23. “Cosmic-ray flux predictions and observations for and with Metis on board Solar Orbiter”, Grimani, C., and 43 coauthors, Astronomy & Astrophysics, Volume 656, id.A15, 2021.
https://ui.adsabs.harvard.edu/abs/2021A%26A...656A..15G/abstract
24. “Exploring the Solar Wind from Its Source on the Corona into the Inner Heliosphere during the First Solar Orbiter-Parker Solar Probe Quadrature”, Telloni, D., and 70 coauthors, The Astrophysical Journal Letters, Volume 920, Issue 1, id.L14, 2021.
https://ui.adsabs.harvard.edu/abs/2021ApJ...920L..14T/abstract
25. “Tracing the ICME plasma with a MHD simulation”, Biondo, R., and 3 coauthors, Astronomy & Astrophysics, Volume 654, id.L3, 2021.
https://ui.adsabs.harvard.edu/abs/2021A%26A...654L...3B/abstract
26. “Combining white light and UV Lyman-α coronagraphic images to determine the solar wind speed. The quick inversion method”, **Bemporad, A.**, and 3 coauthors, Astronomy & Astrophysics, Volume 654, id.A58, 2021.
https://ui.adsabs.harvard.edu/abs/2021A%26A...654A..58B/abstract
27. “Magnetic imaging of the outer solar atmosphere (MImOSA)”, Peter, H., and 23 coauthors, Experimental Astronomy, Online First, 2021.
https://ui.adsabs.harvard.edu/abs/2021ExA...tmp...95P/abstract
28. “Effects of the chromospheric Lyα line profile shape on the determination of the solar wind H I outflow velocity using the Doppler dimming technique”, Capuano, G.E., and 17 coauthors, Astronomy & Astrophysics, Volume 652, id.A85, 2021.
https://ui.adsabs.harvard.edu/abs/2021A%26A...652A..85C/abstract
29. “Radio evidence for a shock wave reflected by a coronal hole”, Mancuso, S., **Bemporad, A.**, and 5 coauthors, Astronomy & Astrophysics, Volume 651, id.L14, 2021.
https://ui.adsabs.harvard.edu/abs/2021A%26A...651L..14M/abstract
30. “Metrology on-board PROBA-3: The shadow position sensors subsystem”, Noce, V., and 13 coauthors, Advances in Space Research, Volume 67, Issue 11, p. 3807-3818, 2021
https://ui.adsabs.harvard.edu/abs/2021AdSpR..67.3807N/abstract

31. “PROBA-3 mission and the Shadow Position Sensors: Metrology measurement concept and budget”, Loreggia, D., and 26 coauthors, Advances in Space Research, Volume 67, Issue 11, p. 3793-3806, 2021
https://ui.adsabs.harvard.edu/abs/2021AdSpR..67.3793L/abstract
32. “The Solar Wind”, Rouillard, A.P., and 12 coauthors, Space Physics and Aeronomy, Volume 1, Solar Physics and Solar Wind, 2021
https://ui.adsabs.harvard.edu/abs/2021GMS...258....1R/abstract
33. “Possible advantages of a twin spacecraft Heliospheric mission at the Sun-Earth Lagrangian points L4 and L5”, **Bemporad A.**, Frontiers in Astronomy and Space Sciences, Volume 8, id.11, 2021
https://ui.adsabs.harvard.edu/abs/2021FrASS...8...11B/abstract
34. “Reconstruction of the Parker spiral with the Reverse In situ data and MHD APproach - RIMAP”, Biondo, R., **Bemporad, A.**, and 2 coauthors, Journal of Space Weather and Space Climate, Volume 11, id.7, 2021.
https://ui.adsabs.harvard.edu/abs/2021JSWSC..11....7B/abstract
35. “Coronal Electron Densities Derived with Images Acquired during the 2017 August 21 Total Solar Eclipse”, **Bemporad A.**, ApJ, 904, Issue 2, id.178, 2020.
https://ui.adsabs.harvard.edu/abs/2020ApJ...904..178B/abstract
36. “Metis: the Solar Orbiter visible light and ultraviolet coronal imager”, Antonucci, E., Romoli, E., Andretta, V., and 100 coauthors, 642, A10, 2020.
https://www.aanda.org/articles/aa/full_html/2020/10/aa35338-19/aa35338-19.html
37. “Coordination within the remote sensing payload on the Solar Orbiter mission”, F. Auchère, F., Andretta, V., Antonucci, E., Bach, N., Battaglia, M., **Bemporad, A.**, and 68 coauthors, A&A, 642, A6, 2020.
https://www.aanda.org/articles/aa/full_html/2020/10/aa37032-19/aa37032-19.html
38. “The Solar Orbiter Science Activity Plan”, Zouganelis, I., De Groof, A., Walsh, A.P., and 182 co authors, A&A, 642, A3, 2020.
https://www.aanda.org/articles/aa/full_html/2020/10/aa38445-20/aa38445-20.html
39. “Models and data analysis tools for the Solar Orbiter mission”, Rouillard, A.P., Pinto, R., Vourlidas, A., De Groof, A., Thomson, W.T., **Bemporad, A.**, and 101 coauthors, A&A, 642, A2, 2020.
https://www.aanda.org/articles/aa/full_html/2020/10/aa35305-19/aa35305-19.html
40. “Estimate of Plasma Temperatures Across a CME-Driven Shock from a Comparison Between EUV and Radio Data”, Frassati, F., Mancuso, S., & **Bemporad, A.**, Sol. Phys., 295, 124, 2019.
https://link.springer.com/article/10.1007/s11207-020-01686-0?
41. “Hydrogen non-equilibrium ionisation effects in coronal mass ejections”, Pagano, P., **Bemporad, A.**, Mackay, D. H., A&A, 637, id.A49, 2020.
https://ui.adsabs.harvard.edu/abs/2020A%26A...637A..49P/abstract
42. “Extensive Study of a Coronal Mass Ejection with UV and White-light Coronagraphs: The Need for Multiwavelength Observations”, Ying, B., **Bemporad, A.**, Feng, L., and 3 coauthors, 899, Issue 1, id.12, 2020.
https://ui.adsabs.harvard.edu/abs/2020ApJ...899...12Y/abstract
43. “On the Possibility of Detecting Helium D_3 Line Polarization with Metis”, Heinzel, P., Štěpán, J., **Bemporad, A.**, and 4 coauthors, ApJ, 900, Issue 1, id.8, 2020.
https://ui.adsabs.harvard.edu/abs/2020ApJ...900....8H/abstract
44. “Current state and perspectives of Space Weather science in Italy”, Plainaki, C., Antonucci, M., **Bemporad, A.**, and 17 coauthors, JSWSC, 10, id.6, 2020.
https://ui.adsabs.harvard.edu/abs/2020JSWSC..10....6P/abstract
45. “Comprehensive Analysis of the Formation of a Shock Wave Associated with a Coronal Mass Ejection”, Frassati, F., Susino, R., Mancuso, S., **Bemporad, A.**, ApJ, 871, Issue 2, article id. 212, 2019.
https://ui.adsabs.harvard.edu/abs/2019ApJ...871..212F/abstract
46. “Three-dimensional reconstruction of CME-driven shock-streamer interaction from radio and EUV observations: a different take on the diagnostics of coronal magnetic fields”, Mancuso, S., Frassati, F., **Bemporad, A.**, Barghini, D., A&A, 624, id.L2, 2019.
https://ui.adsabs.harvard.edu/abs/2019A%26A...624L...2M/abstract
47. “Comparing extrapolations of the coronal magnetic field structure at 2.5 $R_\odot$ with multi-viewpoint coronagraphic observations”, Sasso, C., Pinto, R. F., Andretta, V., Howard, R. A., Vourlidas, A., **Bemporad, A.**, and 16 coauthors, A&A, 627, id.A9, 2019.
https://ui.adsabs.harvard.edu/abs/2019A%26A...627A...9S/abstract
48. “Effect of the non-uniform solar chromospheric Lyα radiation on determining the coronal H I outflow velocity”, Dolei, S., Spadaro, D., Ventura, R., **Bemporad, A.**; and 12 coauthors, A&A, 627, id.A18, 2019.
https://ui.adsabs.harvard.edu/abs/2019A%26A...627A..18D/abstract

49. “First Determination of 2D Speed Distribution within the Bodies of Coronal Mass Ejections with Cross-correlation Analysis”, Ying, B., **Bemporad, A.**, Giordano, S., and 5 coauthors, ApJ, 880, Issue 1, article id. 41, 2019.
https://ui.adsabs.harvard.edu/abs/2019ApJ...880...41Y/abstract
50. “Evidence for Rayleigh-Taylor Plasma Instability at the Front of Solar Coronal Mass Ejections”, Telloni, D., Carbone, F., **Bemporad, A.**, & Antonucci, E., Atmosphere, vol. 10, issue 8, 2019.
https://ui.adsabs.harvard.edu/abs/2019Atmos..10..468T/abstract
51. “Detection of Coronal Mass Ejections at L1 and Forecast of Their Geoeffectiveness”, Telloni, D., Antonucci, E., **Bemporad, A.**, and 6 coauthors, ApJ, 885, Issue 2, article id. 120, 2019.
https://ui.adsabs.harvard.edu/abs/2019ApJ...885..120T/abstract
52. “Visibility of Prominences Using the HeI D_3 Line Filter on the PROBA-3/ASPIICS Coronagraph”, Jejčič, S. Heinzel, P., Labrosse, N., Zhukov, A. N., **Bemporad, A.**, and 2 coauthors, Sol. Phys., 293, Issue 2, article id. 33, 2018.
https://ui.adsabs.harvard.edu/abs/2018SoPh..293...33J/abstract
53. “Mapping the solar wind HI outflow velocity in the inner heliosphere by coronagraphic ultraviolet and visible-light observations”, Dolei, S., Susino, R., Sasso, C., **Bemporad, A.**, and 17 coauthors, A&A, 612, id.A84, 2018.
https://ui.adsabs.harvard.edu/abs/2018A%26A...612A..84D/abstract
54. “Hot prominence detected in the core of a coronal mass ejection. III. Plasma filling factor from UVCS Lyman-α and Lyman-β observations”, Susino, R., **Bemporad, A.**, Jejčič, S., Heinzel, P., A&A, 617, id.A21, 2018.
https://ui.adsabs.harvard.edu/abs/2018A%26A...617A..21S/abstract
55. “Evolution of the Solar Wind Speed with Heliocentric Distance and Solar Cycle. Surprises from Ulysses and Unexpectedness from Observations of the Solar Corona”, Khabarova, O. V., Obridko, V. N., Kislov, R. A., Malova, H. V., **Bemporad, A.**, and 3 coauthors, Plasma Physics Reports, Vol. 44, Issue 9, 2018.
https://ui.adsabs.harvard.edu/abs/2018PlPhR..44..840K/abstract
56. “Measuring the electron temperatures of coronal mass ejections with future space-based multi-channel coronagraphs: a numerical test”, **Bemporad, A.**, Pagano, P., Giordano, S., A&A, 619, id.A25, 2018.
https://ui.adsabs.harvard.edu/#abs/2018A%26A...619A..25B/abstract
57. “Comprehensive Analysis of the Geoeffective Solar Event of 21 June 2015: Effects on the Magnetosphere, Plasmasphere, and Ionosphere Systems”, Piersanti M., Alberti T., **Bemporad A.**, et al., Sol. Phys., 292, 169, 2017.
https://ui.adsabs.harvard.edu/#abs/2017SoPh..292..169P/abstract
58. “Hot prominence detected in the core of a coronal mass ejection. II. Analysis of the C III line detected by SOHO/UVCS”, Jejčič, S., Susino, R., Heinzel, P., Dzifčáková, E., **Bemporad, A.**, Anzer, U., ApJ, 607, 80, 2017.
https://ui.adsabs.harvard.edu/#abs/2017A%26A...607A..80J/abstract
59. “Constraining the pass-band of future space-based coronagraphs for observations of solar eruptions in the FeXIV 530.3 nm "green line"”, **Bemporad A.**, Pagano P., Giordano S., Fineschi S., Exp. Astron., 44, 83, 2017.
https://ui.adsabs.harvard.edu/#abs/2017ExA....44...83B/abstract
60. “Study of the early phase of a Coronal Mass Ejection driven shock in EUV images”, Frassati F., Susino R., Mancuso S., **Bemporad, A.**, Astroph. & Sp. Sci., 362, 194, 2017.
https://ui.adsabs.harvard.edu/#abs/2017Ap%26SS.362..194F/abstract
61. “Exploring the Inner Acceleration Region of Solar Wind: A Study Based on Coronagraphic UV and Visible Light Data”, **Bemporad A.**, ApJ, 846, 86, 2017 .
https://ui.adsabs.harvard.edu/#abs/2017ApJ...846...86B/abstract
62. “Determination of Coronal Mass Ejection Physical Parameters from a Combination of Polarized Visible Light and UV Lyα Observations”, Susino R., & **Bemporad A.**, ApJ, 830 (2), 58, 2016.
https://ui.adsabs.harvard.edu/#abs/2016ApJ...830...58S/abstract
63. “Measuring coronal magnetic fields with remote sensing observations of shock waves”, **Bemporad A.**, Susino R., Frassati F., Fineschi S., Frontiers in Astronomy and Space Sciences, Vol- 3, id.17, 2016.
https://ui.adsabs.harvard.edu/#abs/2016FrASS...3...17B/abstract
64. “Hot prominence detected in the core of a coronal mass ejection: Analysis of SOHO/UVCS Lα and SOHO/LASCO visible-light observations”, Heinzel P., Susino R., Jejčič S., **Bemporad A.**, Anzer U., A&A, 589, id.A128, 2016.
https://ui.adsabs.harvard.edu/#abs/2016A%26A...589A.128H/abstract

65. “Study of sungrazing comets with space-based coronagraphs: New possibilities offered by METIS on board Solar Orbiter”, **Bemporad A.**, et al., Adv. Sp. Res., 56 (10), 2288, 2015.
https://ui.adsabs.harvard.edu/#abs/2015AdSpR..56.2288B/abstract
66. “Physical Conditions of Coronal Plasma at the Transit of a Shock Driven by a Coronal Mass Ejection”, Susino R., **Bemporad A.**, Mancuso S., ApJ, 812, 119, 2015.
https://ui.adsabs.harvard.edu/#abs/2015ApJ...812..119S/abstract
67. “Future capabilities of CME polarimetric 3D reconstructions with the METIS instrument: A numerical test”, Pagano P., **Bemporad A.**, Mackay D. H., A&A, 582, A72, 2015.
https://ui.adsabs.harvard.edu/#abs/2015A%26A...582A..72P/abstract
68. “Plasma Physical Parameters along CME-driven Shocks. II. Observation-Simulation Comparison”, Bacchini F., Susino R., **Bemporad A.**, Lapenta, G., ApJ, 809, 58, 2015.
https://ui.adsabs.harvard.edu/#abs/2015ApJ...809...58B/abstract
69. “Physical properties of solar polar jets. A statistical study with Hinode XRT data”, Parashiv A.R., **Bemporad A.**, Sterling, A.C., A&A, 579, A96, 2015.
https://ui.adsabs.harvard.edu/#abs/2015A%26A...579A..96P/abstract
70. “Uncertainties in polarimetric 3D reconstructions of coronal mass ejections”, **Bemporad A**. & Pagano P., A&A, 576, A93, 2015.
https://ui.adsabs.harvard.edu/#abs/2015A%26A...576A..93B/abstract
71. “Three-dimensional Stereoscopic Analysis of a Coronal Mass Ejection and Comparison with UV Spectroscopic Data”, Susino R., **Bemporad A.**, Dolei S., ApJ, 790, 25, 2014.
https://ui.adsabs.harvard.edu/#abs/2014ApJ...790...25S/abstract
72. “Plasma Physical Parameters along Coronal-mass-ejection-driven Shocks. I. Ultraviolet and White-light Observations”, **Bemporad, A.**; Susino, R.; Lapenta, G., ApJ, 784, 102, 2014.
https://ui.adsabs.harvard.edu/#abs/2014ApJ...784..102B/abstract
73. “Measurements with STEREO/COR1 data of drag forces acting on small-scale blobs falling in the intermediate corona”, Dolei S., **Bemporad A.**, Spadaro D., A&A, 562, 74, 2014.
https://ui.adsabs.harvard.edu/#abs/2014A%26A...562A..74D/abstract
74. “Characteristics of polar coronal hole jets”, Chandrashekhar K., **Bemporad A.**, Banerjee D., Gupta G. R., Teriaca L., A&A, 561, id.A104, 2014.
https://ui.adsabs.harvard.edu/#abs/2014A%26A...561A.104C/abstract
75. “Plasma Heating in a Post Eruption Current Sheet: A Case Study Based on Ultraviolet, Soft, and Hard X-Ray Data”, Susino R., **Bemporad A.**, & Krucker S., ApJ, 777 (2), article id. 93, 2013.
https://ui.adsabs.harvard.edu/#abs/2013ApJ...777...93S/abstract
76. “Study of a Coronal Mass Ejection with SOHO/UVCS and STEREO data”, Susino R., **Bemporad A.**, Dolei S., Vourlidas A., Adv. Space Res., 52 (5), 957, 2013.
https://ui.adsabs.harvard.edu/#abs/2013AdSpR..52..957S/abstract
77. “Super- and sub-critical regions in shocks driven by radio-loud and radio-quiet CMEs”, **Bemporad A**. & Mancuso S., Journ. of Adv. Res., 4 (3), 287, 2013.
https://ui.adsabs.harvard.edu/#abs/2013JAdR....4..287B/abstract
78. “SWIFF: Space Weather Integrated Forecasting Framework”, Lapenta G., Pierrard V., Keppens R., Markidis S., Poedts S., Šebek O., Trávníček P.M., Henri P., Califano F., Pegoraro F., Faganello M., Olshevsky V., Restante A., Nordlund A., Frederiksen J.T., Mackay D.H., Parnell C.E., **Bemporad A.**, Susino R. and Borremans K., Journal of Space Weather and Space Climate, 3, id.A05, 2013.
https://ui.adsabs.harvard.edu/#abs/2013JSWSC...3A..05L/abstract
79. “Study of Multiple Coronal Mass Ejections at Solar Minimum Conditions”, **Bemporad A.**, Zuccarello F.P., Jacobs C., Mierla M., Poedts S., Sol. Phys., 281, 223, 2012.
https://ui.adsabs.harvard.edu/#abs/2012SoPh..281..223B/abstract
80. “Spectroscopic Signature of Alfvén Waves Damping in a Polar Coronal Hole up to 0.4 Solar Radii”, **Bemporad A.** & Abbo L., ApJ, 751, 110, 2012.
https://ui.adsabs.harvard.edu/#abs/2012ApJ...751..110B/abstract
81. “Solar magnetism eXplorer (SolmeX). Exploring the magnetic field in the upper atmosphere of our closest star”, Hardi P., Abbo L., Andretta V., Auchère F., **Bemporad A.**, and 34 coauthors, Experimental Astronomy, 33, 271, 2012.
https://ui.adsabs.harvard.edu/#abs/2012ExA....33..271P/abstract
82. “The Role of Streamers in the Deflection of Coronal Mass Ejections: Comparison between STEREO Three-dimensional Reconstructions and Numerical Simulations”, Zuccarello F. P., **Bemporad A.**, Jacobs C., Mierla M., Poedts S., Zuccarello, F., ApJ, 744, 66, 2012.

https://ui.adsabs.harvard.edu/#abs/2012ApJ...744...66Z/abstract
83. “Identification of Super- and Subcritical Regions in Shocks Driven by Coronal Mass Ejections”, **Bemporad A.** & Mancuso S., ApJ, 739, L64, 2011.
https://ui.adsabs.harvard.edu/#abs/2011ApJ...739L..64B/abstract
84. “Rotation of an erupting filament observed by STEREO EUVI and COR1 instruments”, **Bemporad A.**, Mierla M., Tripathi D., A&A, 531, id.A147, 2011.
https://ui.adsabs.harvard.edu/#abs/2011A%26A...531A.147B/abstract
85. “Prominence 3D reconstruction in the STEREO era: A review”, **Bemporad A.**, Journ. of Atmosph. & Sol.-Terr. Phys., 73, 1117, 2011.
https://ui.adsabs.harvard.edu/#abs/2011JASTP..73.1117B/abstract
86. “Side Magnetic Reconnections Induced by Coronal Mass Ejections: Observations and Simulations”, **Bemporad A.**, Soenen A., Jacobs C., Landini F., Poedts, S., ApJ, 718, 251, 1010.
https://ui.adsabs.harvard.edu/#abs/2010ApJ...718..251B/abstract
87. “First Complete Determination of Plasma Physical Parameters Across a Coronal Mass Ejection-driven Shock”, **Bemporad A.**, & Mancuso S., ApJ, 720, 130, 2010.
https://ui.adsabs.harvard.edu/#abs/2010ApJ...720..130B/abstract
88. “Stereoscopic Reconstruction from STEREO/EUV Imagers Data of the Three-dimensional Shape and Expansion of an Erupting Prominence”, **Bemporad A.**, ApJ, 701, 298, 2009.
https://ui.adsabs.harvard.edu/#abs/2009ApJ...701..298B/abstract
89. “Multispacecraft observations of a Prominence Eruption”, **Bemporad A.**, Del Zanna G., Andretta V., Poletto G., Magrì M., Ann. Geophys., 27, 3841, 2009.
https://ui.adsabs.harvard.edu/#abs/2009AnGeo..27.3841B/abstract
90. “The role of lateral magnetic reconnection in solar eruptive events”, Soenen A., **Bemporad A.**, Jacobs C., Poedts S., Ann. Geophys., 27, 3941, 2009.
https://ui.adsabs.harvard.edu/#abs/2009AnGeo..27.3941S/abstract
91. “Interpretation of the SOHO/UVCS Observations of two CME-driven Shocks”, Mancuso S. & **Bemporad A.**, Adv. Space Res., 44, 451, 2009.
https://ui.adsabs.harvard.edu/#abs/2009AdSpR..44..451M/abstract
92. “Morphology and Density of post-CME Current Sheets”, Vršnak B., Poletto G., Vujić E., Vourlidas A., Ko Y.-K., Raymond J. C., Ciaravella A., Žic T., Webb D. F., **Bemporad A.**, Landini F., Schettino G., Jacobs C., Suess S. T., A&A, 499, 905, 2009.
https://ui.adsabs.harvard.edu/#abs/2009A%26A...499..905V/abstract
93. “Spectroscopic detection of turbulence in post-CME Current Sheets”, **Bemporad A.**, ApJ, 689, 572, 2008.
https://ui.adsabs.harvard.edu/#abs/2008ApJ...689..572B/abstract
94. “Reconnection in a slow Coronal Mass Ejection”, Poletto G., **Bemporad A.**, Landini F., Romoli M., Ann. Geoph., 26, 3067, 2008.
https://ui.adsabs.harvard.edu/#abs/2008AnGeo..26.3067P/abstract
95. “Magnetic Reconnection processes induced by a CME expansion”, **Bemporad A.**, Poletto G., Landini F., Romoli M., Ann. Geoph., 26, 10, 2008.
https://ui.adsabs.harvard.edu/#abs/2008AnGeo..26.3017B/abstract
96. “Low-frequency Lyman-α power spectra observed by UVCS in a polar coronal hole”, **Bemporad A.**, Matthaeus W. H., Poletto G., ApJL, 677, 137, 2008.
https://ui.adsabs.harvard.edu/#abs/2008ApJ...677L.137B/abstract
97. “A Comprehensive Study of the Initiation and Early Evolution of a CME from UV and White Light Data”, **Bemporad A.**, Raymond J. C., Poletto G., Romoli M., ApJ, 655, 576, 2007.
https://ui.adsabs.harvard.edu/#abs/2007ApJ...655..576B/abstract
98. “Density and magnetic field signatures of interplanetary 1/f noise”, Matthaeus W. H., Breech B., Dmitruk P., **Bemporad A.**, Poletto G., Velli M., Romoli M., ApJL, 657, 121, 2007.
https://ui.adsabs.harvard.edu/#abs/2007ApJ...657L.121M/abstract
99. “A review of SOHO/UVCS observations of sungrazing comets”, **Bemporad A.**, Poletto G., Raymond J. C., Giordano S., Planetary & Space Sc., 55, 1021, 2007.
https://ui.adsabs.harvard.edu/#abs/2007P%26SS...55.1021B/abstract
100. “Current sheet evolution in the aftermath of a CME event”, **Bemporad A.**, Poletto G., Suess S.T., Ko Y.-K., Schwadron N.A., Elliott H.A., Raymond J.C., ApJ, 638, 1110, 2006.
https://ui.adsabs.harvard.edu/#abs/2006ApJ...638.1110B/abstract
101. "Evidence for pyroxene dust grains in C/2001 C2 sungrazing comet", **Bemporad A.**, Poletto G., Raymond J.C., Advances in Space Research, Vol. 38, Issue 9, pp. 1972-1975, 2006.

https://ui.adsabs.harvard.edu/#abs/2006AdSpR..38.1972B/abstract

102. "Lyman-α observations of sungrazing comets with the SOHO/UVCS instruments", **Bemporad A.**, Poletto G., Raymond J. C., Giordano S., Adv. in Geosc., vol.3 "Planetary Science", 171, 2005.
https://ui.adsabs.harvard.edu/#abs/2006aogs....3..171B/abstract
103. "A new variety of CMEs: streamer puffs", **Bemporad A.**, Moore R. T., Sterling A. C., Poletto G., ApJL, v635, 189, 2005.
https://ui.adsabs.harvard.edu/#abs/2005ApJ...635L.189B/abstract
104. "UVCS observation of sungrazer C/2001 C2: possible comet fragmentation and plasma-dust interactions", **Bemporad A.**, Poletto G., Raymond J. C., Biesecker D. A., Ko Y. K., P. Lamy, Marsden B., Uzzo M., ApJ, v620, 2005.
https://ui.adsabs.harvard.edu/#abs/2005ApJ...620..523B/abstract
105. "Evidence for the same hot plasma after CME events in both remote and in situ observations", Poletto G., Suess S., **Bemporad A.**, Zurbuchen T., Ko Y. K., ApJL, v613, L173, 2004.
https://ui.adsabs.harvard.edu/#abs/2004ApJ...613L.173P/abstract
106. "A slow streamer blowout at the Sun and Ulysses", Suess S. T., **Bemporad A.**, Poletto G., GRL, v. 31, Issue 5, CiteID L05801, 2004.
https://ui.adsabs.harvard.edu/#abs/2004GeoRL..31.5801S/abstract
107. "Temporal evolution of a Streamer Complex: Coronal and in situ Plasma Parameters", **Bemporad A.**, Poletto G., Suess S.T., Ko Y-K., Parenti S., Riley P., Romoli M., Zurbuchen T.Z., ApJ, v593, 2003.
https://ui.adsabs.harvard.edu/#abs/2003ApJ...593.1146B/abstract

- **CONFERENCE PROCEEDINGS**

1. "The Heliospheric Space Weather Center: A novel space weather service", Casti, M., Mulone, A.F., Susino, R., and 12 coauthors, Proceedings of "SOHE3" meeting, Turin, 38 – 31 October 2018, Il Nuovo Cimento C, Volume 42, Issue 1, article id. 48, 2019.
https://ui.adsabs.harvard.edu/#abs/2019NCimC..42...48C/abstract
2. "Determination of the physical properties of an erupting prominence from SOHO/LASCO and UVCS observations", Susino, R., **Bemporad, A.**, Heinzel, P., and 3 coauthors, Proceedings of "SOHE3" meeting, Turin, 38 – 31 October 2018, Il Nuovo Cimento C, Volume 42, Issue 1, article id. 37, 2019.
https://ui.adsabs.harvard.edu/#abs/2019NCimC..42...37S/abstract
3. "Measuring the 2D distribution of the expansion speed of solar eruptions: A first test based on synthetic coronagraphic data", Ying, B., **Bemporad, A.**, Giordano, S., Pagano, P., Feng, L., Proceedings of "SOHE3" meeting, Turin, 38 – 31 October 2018, Il Nuovo Cimento C, Volume 42, Issue 1, article id. 36, 2019.
https://ui.adsabs.harvard.edu/#abs/2019NCimC..42...36Y/abstract
4. "Kinematics of a compression front associated with a Coronal Mass Ejection", Frassati, F., Susino, R., Mancuso, S., **Bemporad, A.**, Proceedings of "SOHE3" meeting, Turin, 38 – 31 October 2018, Il Nuovo Cimento C, Volume 42, Issue 1, article id. 35, 2019.
https://ui.adsabs.harvard.edu/#abs/2019NCimC..42...35F/abstract
5. "Metrology on-board PROBA-3: The Shadow Position Sensor (SPS) subsystem", Noce, V., Romoli, M., Focardi, M., and 11 coauthors, Proceedings of "SOHE3" meeting, Turin, 38 – 31 October 2018, Il Nuovo Cimento C, Volume 42, Issue 1, article id. 27, 2019.
https://ui.adsabs.harvard.edu/#abs/2019NCimC..42...27N/abstract
6. "AntarctiCor: Solar Coronagraph in Antarctica for the ESCAPE Project", Fineschi, S.; Capobianco, G.; Massone, G., and 11 coauthors, Proceedings of "SOHE3" meeting, Turin, 38 – 31 October 2018, Il Nuovo Cimento C, Volume 42, Issue 1, article id. 26, 2019.
https://ui.adsabs.harvard.edu/#abs/2019NCimC..42...26F/abstract
7. "Preface", Bemporad, A.; Criscuoli, S.; Del Moro, D., and 6 coauthors, Proceedings of "SOHE3" meeting, Turin, 38 – 31 October 2018, Il Nuovo Cimento C, Volume 42, Issue 1, article id. 1, 2019.
https://ui.adsabs.harvard.edu/#abs/2019NCimC..42....1B/abstract
8. "Distributed framework for Space Weather forecasts", Mulone, A.F., Casti, M., Susino, R., and 11 coauthors, Proceedings of EPSC-DPS Joint Meeting 2019, Vol. 13, EPSC-DPS2019-1997-1, 2019.
https://ui.adsabs.harvard.edu/#abs/2019EPSC...13.1997F/abstract
9. "Data Integration of Remote Sensing and In Situ Data from several Solar Space Missions for Space Weather Services", Casti, M., Fineschi, S., Messineo, R., Antonucci, E., Mulone, A.F., **Bemporad, A.**,

and 7 coauthors, Proceedings of the 2017 conference on Big Data from Space (BiDS'17), Toulouse, France 28–30 November 2017, 2017.
https://ui.adsabs.harvard.edu/abs/2018cosp...42E.268B/abstract

10. "Temporal Characterization of the Remote Sensors Response to Radiation Damage in L2", De March, R., Busonero, D., Messineo, R., **Bemporad, A.**, and 4 coauthors, Proceedings of the 2016 conference on Big Data from Space (BiDS'16), Santa Cruz de Tenerife, Spain 15–17 March 2016, 2016.
https://ui.adsabs.harvard.edu/#abs/2017arXiv170905130D/abstract
11. "A decade of coronagraphic and spectroscopic studies of CME-driven shocks", Vourlidas A. & **Bemporad A.**, Proc. of the 10th AIP Conferenc, 1436, 279, 2012.
https://ui.adsabs.harvard.edu/#abs/2012AIPC.1436..279V/abstract
12. "The solar orbiter METIS coronagraph data signal processing chain", Pancrazzi M., Focardi M., Uslenghi M., Nicolini G., Magli E., Landini F., Romoli M., **Bemporad A.**, and 6 coauthors, Proceedings of the SPIE, 8167, 81672C, 2011.
https://ui.adsabs.harvard.edu/#abs/2011SPIE.8167E..2CP/abstract
13. "Liquid crystals Lyot filter for solar coronagraphy", Fineschi S., Capobianco G., Massone G., Baur T., **Bemporad A.**, Abbo L., Zangrilli L., Dadeppo V., Proceedings of the SPIE, 8148, 814808, 2011.
https://ui.adsabs.harvard.edu/#abs/2011SPIE.8148E..08F/abstract
14. "An erupting filament and associated CME observed by Hinode, STEREO and SOHO", **Bemporad A.**, Del Zanna G., Andretta V., Magri M., Poletto G., Ko Y.-K., Proceedings of the "2nd Hinode Science Meeting", Boulder (CO), September 29 – October 3, 2009.
https://ui.adsabs.harvard.edu/#abs/2009ASPC..415..385B/abstract
15. "Multi-instruments campaigns to observe the off-limb corona", Del Zanna G., Andretta V., Poletto G., Teriaca L., Ko Y.-K., Mason H.E., Vourdilas A., **Bemporad A.**, Magrì M., Proceedings of the "2nd Hinode Science Meeting", Boulder (CO), September 29 – October 3, 2009.
https://ui.adsabs.harvard.edu/#abs/2009ASPC..415..315D/abstract
16. "Comparison of Large-Scale Density Fluctuations in the Outer Corona and in the Inner Heliosphere for Both Fast and Slow Solar Wind", Telloni, D., Bruno, R., Antonucci, E., D'Amicis, R., **Bemporad, A.**, Proceedings of the "AGU Fall Meeting 2008", San Francisco, 15 – 19 December, 2008.
17. "Results from recent studies of CMEs with SOHO/UVCS", **Bemporad A.**, Poletto G., Proceedings of the "LI Congresso della SAIT", Firenze (Italy), 2007.
https://ui.adsabs.harvard.edu/#abs/2007MmSAI..78..600B/abstract
18. "SOHO/UVCS and Mauna Loa Mark IV observations of a slow CME below 2 solar radii", **Bemporad A.**, Poletto G., Raymond J. C., Proceedings of the "SOHO 17" Meeting, Giardini Naxos (Italy), Edited by H. Lacoste and L. Ouwehand. ESA SP-617, Published on CDROM, p.24.1, 2006.
https://ui.adsabs.harvard.edu/#abs/2006ESASP.617E..24B/abstract
19. "Structure of a slow CME in the low corona", **Bemporad A.**, Poletto G., Raymond J. C., Proceedings of the "IV Convegno della Ricerca Italiana in Fisica Solare", Trieste, 2005.
20. "Current Sheet Evolution in the Aftermath of a CME", **Bemporad A.**, Poletto G., Sess S.T., et al., Proceedings of the Solar Wind 11 / SOHO 16, "Connecting Sun and Heliosphere" Conference (ESA SP-592). 12 - 17 June 2005 Whistler, Canada. Editored by B. Fleck, T. H. Zurbuchen and H. Lacoste. Published by ESA Publications Division, ESTEC, Postbus 299, 2200 AG Noordwijk, The Netherlands, p.715, 2005.
https://ui.adsabs.harvard.edu/#abs/2005ESASP.592..715B/abstract
21. "Early Evolution of a CME from White Light and UV Observations", **Bemporad A.**, Poletto G., Raymond J.C., Proceedings of the Solar Wind 11 / SOHO 16, "Connecting Sun and Heliosphere" Conference (ESA SP-592). 12 - 17 June 2005 Whistler, Canada. Editors: B. Fleck, T.H. Zurbuchen, H. Lacoste. Published by ESA Publications Division, ESTEC, Postbus 299, 2200 AG Noordwijk, The Netherlands, p. 711, 2005.
https://ui.adsabs.harvard.edu/#abs/2005ESASP.592..711B/abstract
22. "Recursive narrow CMEs within a coronal streamer", **Bemporad A.**, Sterling A. C., Moore R. T., Poletto G., Proceedings del "11th Solar Physics Meeting", Editors: D. Danesy, S. Poedts, A. De Groof and J. Andries. Published on CDROM., p.153, 2005.
https://ui.adsabs.harvard.edu/abs/2005ESASP.600E.153B/abstract
23. "Post-CME events: cool jets and current sheet evolution", **Bemporad A.**, Poletto G., Suess S.T., IAU 226 Symposium Proceedings, Cambridge University Press, pp. 77-82, 2005.
https://ui.adsabs.harvard.edu/#abs/2005IAUS..226...77B/abstract
24. "Evidence for Pyroxene dust grains in C/2001 C2 sungrazing comet", **Bemporad A.**, Poletto G., Raymond J. C., Proceedings del "XXXV Cospar Meeting", Paris, p.3526, 2005.

https://ui.adsabs.harvard.edu/#abs/2006AdSpR..38.1972B/abstract

25. "A Detection of the Same Hot Plasma in the Corona - During a CME - and Later at Ulysses", Suess, S., Poletto, G., **Bemporad, A.**, AGU Fall Meeting 2004 Proceedings (Abstract num. SH21B-0402), 2004. https://ui.adsabs.harvard.edu/#abs/2004AGUFMSH21B0402S/abstract
26. "Preliminary analysis of a CME observed by SOHO and Ulysses experiments", **Bemporad A.**, Poletto G., Romoli M., Suess S.T., ISCS 2003 Symposium, ESA Publications Division, ISBN 92-9092-845-X, pp. 567 - 570, 2003. https://ui.adsabs.harvard.edu/#abs/2003ESASP.535..567B/abstract
27. "Physical parameters of coronal streamers near the maximum phase of solar cycle", **Bemporad A.**, Poletto G., Romoli M., Mem. S.A.It., v.74, p. 721, 2003. https://ui.adsabs.harvard.edu/#abs/2003MmSAI..74..721B/abstract
28. "Spatial and temporal behavior of the oxygen abundance in a streamer complex", **Bemporad A.**, Poletto G., Romoli M., In: Solar variability: from core to outer frontiers., ESA SP-506, p.545-548, 2002. https://ui.adsabs.harvard.edu/#abs/2002ESASP.506..545B/abstract

- **TECHNICAL PAPERS**

1. "Theoretical, on-ground, and in-flight study of the Metis coronagraph vignetting", Casini, C., Chioetto, P., De leo, Y., and 31 co-authors, Proceedings of the SPIE, Volume 12777, id. 1277705, 2023. https://ui.adsabs.harvard.edu/abs/2023SPIE12777E..05C/abstract
2. "In-flight Metis radiometric performance verification using the light retro-reflected from its door", Casini, C., and 33 coauthors, Proceedings of the SPIE, Volume 12180, id. 121803E, 2022. https://ui.adsabs.harvard.edu/abs/2022SPIE12180E..3EC/abstract
3. "Laboratory testbed for the calibration and the validation of the shadow position sensor subsystem of the PROBA3 ESA mission", Loreggia, D., and 13 coauthors, Proceedings of the SPIE, Volume 11852, id. 118526Q, 2021. https://ui.adsabs.harvard.edu/abs/2021SPIE11852E..6QL/abstract
4. "Formation flying performances simulator for the shadow position sensors of the ESA PROBA-3 mission", Capobianco, G., and 12 coauthors, Proceedings of the SPIE, Volume 11852, id. 118526P, 2021. https://ui.adsabs.harvard.edu/abs/2021SPIE11852E..6PC/abstract
5. "On-ground flat-field calibration of the Metis coronagraph onboard the Solar Orbiter ESA mission", Casini, C., and 33 coauthors, Proceedings of the SPIE, Volume 11852, id. 118525B, 2021. https://ui.adsabs.harvard.edu/abs/2021SPIE11852E..5BC/abstract
6. "Challenges during Metis-Solar Orbiter commissioning phase", Romoli, M., Andretta, V., Bemporad, A., and 28 coauthors, Proceedings of the SPIE, Volume 11852, id. 118525A, 2021. https://ui.adsabs.harvard.edu/abs/2021SPIE11852E..5AR/abstract
7. "In-flight calibration of Metis coronagraph on board of Solar Orbiter", Liberatore, A., and 30 coauthors, Proceedings of the SPIE, Volume 11852, id. 1185248, 2021. https://ui.adsabs.harvard.edu/abs/2021SPIE11852E..48L/abstract
8. "First-light Science Observations of the Metis Solar Coronagraph", Fineschi, S., and 9 coauthors, Proceedings of the SPIE, Volume 11852, id. 1185211, 2021. https://ui.adsabs.harvard.edu/abs/2021SPIE11852E..11F/abstract
9. "In-flight optical performance assessment for the Metis solar coronagraph", Da Deppo, V., and 32 coauthors, Proceedings of the SPIE, Volume 11852, id. 1185210, 2021. https://ui.adsabs.harvard.edu/abs/2021SPIE11852E..10D/abstract
10. "PROBA-3 formation-flying metrology: algorithms for the shadow position sensor system", Casti, M., **Bemporad, A**., Fineschi, S., and 7 coauthors, SPIE, 11180, id. 1118082, 2019. https://ui.adsabs.harvard.edu/#abs/2019SPIE11180E..82C/abstract
11. "Formation flying metrology system for the ESA-PROBA3 mission: the Shadow Positioning Sensors (SPS)", Loreggia, D., Fineschi, S., **Bemporad, A**., and 22 coauthors, SPIE, 10695, id. 1069503, 2018. https://ui.adsabs.harvard.edu/abs/2018SPIE10695E..03L/abstract
12. "Development of ASPIICS: a coronagraph based on Proba-3 formation flying mission", Galano, D., **Bemporad, A**., Buckley, S., and 31 coauthors, SPIE, 10698, id. 106982Y, 2018. https://ui.adsabs.harvard.edu/#abs/2018SPIE10698E..2YG/abstract
13. "Metis: the Visible and UV Coronagraph for Solar Orbiter", Romoli, M., Landini, F., Antonucci, E., and 26 coauthors, SPIE, 10563 105631M-2, 2017. https://ui.adsabs.harvard.edu/#abs/2017SPIE10563E..1MR/abstract

14. “Test plan for the PROBA3/ASPIICS scaled model measurement campaign”, Landini F., Baccani, C., Vives S., and 14 coauthors, SPIE, 10397, id. 103971C, 2017.
https://ui.adsabs.harvard.edu/#abs/2017SPIE10397E..1CL/abstract
15. “An improved version of the Shadow Position Sensor readout electronics on-board the ESA PROBA-3 Mission”, Noce, V.; Focardi, M.; Buckley, S.; **Bemporad, A.**, and 12 coauthors, SPIE, 10397, id. 103971B, 2017.
https://ui.adsabs.harvard.edu/#abs/2017SPIE10397E..1BN/abstract
16. “The satellite formation flying in lab: PROBA-3/ASPIICS metrology subsystems test-bed”, Capobianco, G., Loreggia, D., Fineschi, S., Focardi, M., **Bemporad, A.**, and 17 coauthors, SPIE, 9904, id. 99046E, 2016.
https://ui.adsabs.harvard.edu/#abs/2016SPIE.9904E..6EC/abstract
17. “Characterization of the ASPIICS/OPSE metrology sub-system and PSF centroiding procedure”, Loreggia, D., Fineschi, S., Capobianco, G., **Bemporad, A.**, and 15 coauthors, SPIE, 9904, id. 99045O, 2016.
https://ui.adsabs.harvard.edu/#abs/2016SPIE.9904E..5OL/abstract
18. “Preliminary evaluation of the diffraction behind the PROBA 3/ASPIICS optimized occulter”, Baccani, C., Landini, F., Romoli, M., Taccola, M., Schweitzer, H., Fineschi, S., **Bemporad, A.**, and 8 coauthors, SPIE, 9904, id. 990450, 2016.
https://ui.adsabs.harvard.edu/#abs/2016SPIE.9904E..50B/abstract
19. “The shadow position sensors (SPS) formation flying metrology subsystem for the ESA PROBA-3 mission: present status and future developments”, Focardi, M., Noce, V., Buckley, S., O'Neill, K., **Bemporad, A.**, and 15 coauthors, SPIE, 9904, id. 99044Z, 2015.
https://ui.adsabs.harvard.edu/#abs/2016SPIE.9904E..4ZF/abstract
20. “OPSE metrology system onboard of the PROBA3 mission of ESA”, Loreggia, D., **Bemporad, A.**, Capobianco, G., and 13 coauthors, SPIE, 9604, id. 96040F, 2015.
https://ui.adsabs.harvard.edu/#abs/2015SPIE.9604E..0FL/abstract
21. “Significance of the occulter diffraction for the PROBA3/ASPIICS formation flight metrology”, Landini, F., **Bemporad, A.**, Focardi, M., and 12 coauthors, SPIE, 9604, id. 96040E, 2015.
https://ui.adsabs.harvard.edu/#abs/2015SPIE.9604E..0EL/abstract
22. “Formation flying metrology for the ESA-PROBA3 mission: the Shadow Position Sensors (SPS) silicon photomultipliers (SiPMs) readout electronics”, Focardi, M., **Bemporad, A.**, Buckley, S., and 14 coauthors, SPIE, 9604, id. 96040D, 2015.
https://ui.adsabs.harvard.edu/#abs/2015SPIE.9604E..0DF/abstract
23. “The Shadow Positioning Sensors (SPS) for formation flying metrology on-board the ESA-PROBA3 mission”, **Bemporad, A.**, Baccani, C., Capobianco, G., and 14 coauthors, SPIE, 9604, id. 96040C, 2015.
https://ui.adsabs.harvard.edu/#abs/2015SPIE.9604E..0CB/abstract
24. “Design status of ASPIICS, an externally occulted coronagraph for PROBA-3”, Renotte, E., Alia, A., **Bemporad, A.**, and 81 coauthors, SPIE, 9604, id. 96040A, 2015.
https://ui.adsabs.harvard.edu/#abs/2015SPIE.9604E..0AR/abstract
25. “Polarimetric calibrations and astronomical polarimetry in the V-band with Solar Orbiter/METIS instrument”, Capobianco, G., Fineschi, S., Focardi, M., Andretta, V., Massone, G., **Bemporad, A.**, and 6 coauthors, SPIE, 9143, id. 91434V, 2014.
https://ui.adsabs.harvard.edu/#abs/2014SPIE.9143E..4VC/abstract
26. “ASPIICS: an externally occulted coronagraph for PROBA-3: Design evolution”, Renotte, E., Baston, E. C. **Bemporad, A.**, and 39 coauthors, SPIE, 9143, id. 91432M, 2014.
https://ui.adsabs.harvard.edu/#abs/2014SPIE.9143E..2MR/abstract
27. “On-board detection and removal of cosmic ray and solar energetic particle signatures for the Solar Orbiter-METIS coronagraph”, Andretta, V.; **Bemporad, A.**; Focardi, M., and 13 coauthors, SPIE, 9152, id. 91522Q, 2014.
https://ui.adsabs.harvard.edu/#abs/2014SPIE.9152E..2QA/abstract
28. “On-board CME detection algorithm for the Solar Orbiter-METIS coronagraph”, **Bemporad, A.**, Andretta, V., Pancrazzi, M., and 13 coauthors, SPIE, 9152, id. 91520K, 2014.
https://ui.adsabs.harvard.edu/#abs/2014SPIE.9152E..0KB/abstract
29. “Hardware and software architecture on board solar orbiter/METIS: an update”, Pancrazzi, M., Focardi, M., Nicolini, G., Andretta, V., Uslenghi, M., Magli, E., Ricci, M., **Bemporad, A.**, and 8 coauthors, SPIE, 9144, id. 91443F, 2014.
https://ui.adsabs.harvard.edu/#abs/2014SPIE.9144E..3FP/abstract

30. "In-flight UV and polarized-VL radiometric calibrations of the solar orbiter/METIS imaging coronagraph", Focardi, M., Capobianco, G., Andretta, V., Sasso, C., Romoli, M., Landini, F., Fineschi, S., Pancrazzi, M., **Bemporad, A.**, and 9 coauthors, SPIE, 9144, id. 914409, 2014.
https://ui.adsabs.harvard.edu/#abs/2014SPIE.9144E..09F/abstract
31. "Novel Space Coronagraphs: METIS, a flexible optical design for multi-wavelength imaging and spectrography", Fineschi S., Antonucci E., Romoli M., **Bemporad A.**, and 22 coauthors, SPIE, 8862, 88620G, 2013.
https://ui.adsabs.harvard.edu/#abs/2013SPIE.8862E..0GF/abstract
32. "MESSI, the METIS instrument Software Simulator", Nicolini G., Andretta V., Abbo L., Antonucci E., **Bemporad A.**, and 12 coauthors, SPIE, 8449, 84491L, 2012.
https://ui.adsabs.harvard.edu/#abs/2012SPIE.8449E..1LN/abstract
33. "Multi Element Telescope for Imaging and Spectroscopy (METIS) coronagraph for the Solar Orbiter mission", Antonucci E., Fineschi S., Naletto G., Romoli M., Spadaro D., Nicolini G., Nicolosi P., Abbo L., Andretta V., **Bemporad A.**, and 24 coauthors, SPIE, 8443, 844309, 2012.
https://ui.adsabs.harvard.edu/#abs/2012SPIE.8443E..09A/abstract
34. "METIS: a novel coronagraph design for the Solar Orbiter mission", Fineschi S., Antonucci E., Naletto G., Romoli M., Spadaro D., Nicolini G., Abbo L., Andretta V., **Bemporad A.**, and 18 coauthors, SPIE, 8443, 84433H, 2012.
https://ui.adsabs.harvard.edu/#abs/2012SPIE.8443E..3HF/abstract
35. "The solar orbiter METIS coronagraph data signal processing chain", Pancrazzi M., Focardi M., Uslenghi M., Nicolini G., Magli E., Landini F., Romoli M., **Bemporad A.**, and 6 coauthors, SPIE, 8167, 81672C, 2011.
https://ui.adsabs.harvard.edu/#abs/2011SPIE.8167E..2CP/abstract
36. "Liquid crystals Lyot filter for solar coronagraphy", Fineschi S., Capobianco G., Massone G., Baur T., **Bemporad A.**, Abbo L., Zangrilli L., Dadeppo V., SPIE, 8148, 814808, 2011.
https://ui.adsabs.harvard.edu/#abs/2011SPIE.8148E..08F/abstract

- **TECHNICAL REPORTS**

1. "SWELTO - Space WEather Laboratory in Turin Observatory", Bemporad, A., and 22 coauthors, eprint arXiv:2101.07037, 2021.
https://ui.adsabs.harvard.edu/abs/2021arXiv210107037B/abstract
2. "Automatic Identification of EUV structures on the Sun with a Fuzzy Clustering Algorithm", Carella, F., & Bemporad, A., INAF Tec. Rep. n. 27, 2020.
https://openaccess.inaf.it/handle/20.500.12386/26079
3. "Search of possible correlations between the strength of geomagnetic storms and interplanetary magnetic field measurements", Andriuta, D., Bemporad, A., Tec. Rep. n. 183, 2018.
https://openaccess.inaf.it/handle/20.500.12386/690
4. "The 2017 Great American Eclipse: first report on the observational campaign", **Bemporad A.**, Abbo L., Benna C., Tec. Rep. n. 177, 2017.
https://openaccess.inaf.it/handle/20.500.12386/684
5. "Implementation of a CME flag for METIS: further tests on various transient emission sources", **Bemporad A.**, Tec. Rep. n. 174, 2016.
https://openaccess.inaf.it/handle/20.500.12386/680
6. "Implementation of a CME flag for METIS: first tests", **Bemporad A.**, Tec. Rep. n. 173, 2016.
https://openaccess.inaf.it/handle/20.500.12386/680
7. "Simulation of Visible Light and UV images for the METIS coronagraph", **Bemporad A.**, Tec. Rep. n. 167, 2014.
https://openaccess.inaf.it/handle/20.500.12386/674
8. "Coronagraphic WL and UV observations of CMEs: requirements for the development of future instrumentation", **Bemporad A.**, Tec. Rep. n. 165, 2013.
https://openaccess.inaf.it/handle/20.500.12386/672
9. "Comparative evaluation of METIS image compression algorithms", **Bemporad A.**, Tec. Rep. n. 157, 2012.
https://openaccess.inaf.it/handle/20.500.12386/664

10. “Total Solar Eclipse of of July 11th, 2010: Data Log And Raw Images”, Fineschi, S., Massone G., Capobianco G., Benna C., Calcidese P., Romoli M., Casetti L., Abbo L., **Bemporad A.**, Tec. Rep. n. 144, 2010.
    https://openaccess.inaf.it/handle/20.500.12386/651
11. “Estimate of the FeXIV λ5303 coronal “green line” radiances for the PROBA-3 ASPIICS coronagraph”, **Bemporad A.**, Tec. Rep. n. 134, 2010.
    https://openaccess.inaf.it/handle/20.500.12386/641
12. “Simulation of H Lyman-alpha images for the METIS coronagraph”, **Bemporad A.**, Tec. Rep. n. 132, 2010.
    https://openaccess.inaf.it/handle/20.500.12386/639
13. “The orbit of Solar Orbiter: characterization and implications for the METIS coronagraph (part I)”, **Bemporad A.**, Tec. Rep. n. 125, 2009.
    https://openaccess.inaf.it/handle/20.500.12386/632
14. “Uncertainties in the estimate of SiXI λ303.32 and HeII λ303.78 lines contribution to the coronal emission observed by the SCORE coronagraph”, **Bemporad A.**, Tec. Rep. n. 127, 2009.
    https://openaccess.inaf.it/handle/20.500.12386/634

- **OUTREACH PUBLICATIONS**

1. “Eclissi di Sole: dalle suggestioni del passato alla scienza del futuro”, **Bemporad A.,** Zangrilli L., Fineschi S., Coelum, vol. 216, pp. 68-83, 2017.
   https://view.joomag.com/coelum-astronomia-213-2017/0551048001497618770/p54
2. “Quasi tutto pronto per la missione della sonda Solar Orbiter”, **Bemporad A**. & Azzità E., La Rivista, aprile 2017.
   http://www.go-italy.net/item/incontro-con-lastrofisico-alessandro-bemporad/87/4535
3. “Solar Orbiter: nuovi punti di vista”, **Bemporad A**. & Azzità E., Le Stelle, vol. 169, pp. 30-33, 2017.
   https://archivio.bfcspace.com/index.php?p=le_stelle&num=169
4. “La nostra stella vista da vicino”, **Bemporad A**., Le Stelle, vol. 158, pp. 44-49, 2016.
   https://archivio.bfcspace.com/index.php?p=le_stelle&num=158
5. “L’Europa verso il sole con Solar Orbiter”, **Bemporad A.** & Lo Campo A., Nuovo Orione, n. 289, pp. 35-39, 2016.
   https://archivio.bfcspace.com/index.php?p=nuovo_orione&num=289
6. “Prevedere le Tempeste Spaziali”, **Bemporad A**., Berrilli F., Carbone V., Consolini G., De Michelis P., Zuccarello F., Le Stelle, vol. 148, pp. 36-41, 2015.
   https://archivio.bfcspace.com/index.php?p=le_stelle&num=148
7. “Sole, Terra, Umanità – uniti in un solo destino”, **Bemporad A**. & Azzità E., Le Stelle, vol. 134, pp. 55-59, 2014.
   https://archivio.bfcspace.com/index.php?p=le_stelle&num=134
8. “Alessandro Bemporad, una grande passione per la nostra stella”, **Bemporad A**., & Razzano M., Le Stelle, vol. 103, pp. 44-47, 2012.
   https://archivio.bfcspace.com/index.php?p=le_stelle&num=103
9. “Il mistero delle tempeste solari”, **Bemporad A.**, Darwin, vol. 34, pp. 38-45, 2009.
   https://www.researchgate.net/publication/230736262_Il_mIstero_delle_tempeste_solarI
10. “C'è qualcosa che non va sul Sole? - un'inchiesta sull'affidabilità della nostra stella come stabile fonte di energia (PARTE II)”, Andretta V., **Bemporad A.**, Berrilli F., Cauzzi G., Elidoro C., Gianpapa M., Hathaway D.H., Messerotti M., Oliviero M., Pasachoff J.M., Ramelli R., Zuccarello F., Coelum, vol. 124, pp. 28-39, 2009.
11. “C'è qualcosa che non va sul Sole? - un'inchiesta sull'affidabilità della nostra stella come stabile fonte di energia (PARTE I)”, Andretta V., **Bemporad A.**, Berrilli F., Cauzzi G., Elidoro C., Hathaway D.H., Oliviero M., Pasachoff J.M., Ramelli R., Zuccarello F., Coelum, vol. 123, pp. 26-40, 2008.