

Bibliography from ADS file: smartt.bib

September 14, 2022

- Bharti, L., Rimmele, T., Jain, R., Jaaffrey, S. N. A., & Smartt, R. N., “*Detection of opposite polarities in a sunspot light bridge: evidence of low-altitude magnetic reconnection*”, 2007MNRAS.376.1291B [ADS](#)
- Crowther, P. A., Lennon, D. J., Walborn, N. R., & Smartt, “*Properties of Galactic B supergiants*”, 2006astro.ph..6717C [ADS](#)
- Zhang, Z., Smartt, R. N., & Landman, D. A., “*Interpretation of Localized Deficits in Coronal Emission*”, 2002SoPh..207..63Z [ADS](#)
- Sivaraman, K. R., Gupta, S. S., Livingston, W. C., et al., “*Results from a revisit to the K₂V bright points*”, 2000A&A...363..279S [ADS](#)
- Gallagher, P. T., Williams, D. R., Phillips, K. J. H., et al., “*Multi-wavelength observations of the 1998 September 27 flare spray*”, 2000SoPh..195..367G [ADS](#)
- Phillips, K. J. H., Read, P. D., Gallagher, P. T., et al., “*SECIS: The Solar Eclipse Coronal Eclipse Imaging System*”, 2000SoPh..193..259P [ADS](#)
- Dunn, R. B., Smartt, R. N., & Zirker, J. B., “*Obituary John Wainwright Evans, Jr.*”, 2000PhT...53c..94D [ADS](#)
- Dunn, R. B., Simon, G. W., Smartt, R. N., & Zirker, J. B., “*John W. Evans died 31 October 1999*”, 2000SoPh..191..227D [ADS](#)
- Dunn, R. B., Simon, G. W., Smartt, R. N., & Zirker, J. B., “*Obituary: John Wainwright Evans, 1909–1999*”, 2000BAAS...32.1663D [ADS](#)
- Koutchmy, S., di Folco, E., Auchere, F., et al., “*The Prolate Solar Chromosphere*”, 1999ESASP.446..385K [ADS](#)
- Golub, L., Pasachoff, J. M., & Smartt, R. N., “*The Solar Corona*”, 1999AmJPh..67..263G [ADS](#)
- Kaghshvili, E. & Smartt, R., “*Fine-Scale Structure of Coronal Loops and Consequences for Coronal Loop Interactions*”, 1999ASPC..183..397K [ADS](#)
- Hassler, D. M., Slater, D. C., Smartt, R. N., & Koutchmy, S. L., “*SOPHIE: a solar EUV multilayer reflecting coronagraph*”, 1998SPIE.3443..61H [ADS](#)
- Smartt, R. N. & Koutchmy, S. L., “*Advances in ground-based and space-based reflecting coronagraph designs*”, 1998SPIE.3352..614S [ADS](#)
- Auchere, F., Boulade, S., Koutchmy, S., et al., “*The prolate solar chromosphere*”, 1998A&A...336L..57A [ADS](#)
- Kim, I. S., Krussanova, N. L., Alekseeva, I. V., & Smartt, R. N., “*Recurrent solar wind streams*”, 1998R&QE..41..94K [ADS](#)
- Kaghshvili, E. K. & Smartt, R. N., “*Analysis of the cross-sectional form of coronal loops: properties and temporal behavior*”, 1998joso.proc..110K [ADS](#)
- Smartt, R. N., Zhang, Z., Kim, I. S., & Kaghshvili, E. K., “*Coronal loop crossings and associated Hα activity*”, 1998ESASP.421..333S [ADS](#)
- Smartt, R. N., Zhang, Z., Airapetian, V. S., & Kim, I. S., “*Observations of the Association of Prominences and the Surrounding Corona*”, 1998ASPC..150..37S [ADS](#)
- Morgan, T. H., Slater, D. C., & Smartt, R. N., “*New missions for space-based observations of the moon, planets, and planetary systems with new all-reflecting coronagraph optics*”, 1997SPIE.3116..27M [ADS](#)
- Keller, C. U. & Smartt, R. N., “*Imaging Coronal Emission Lines under High Sky-Background Conditions*”, 1996SoPh..166..311K [ADS](#)
- Smartt, R. N., Airapetian, V. S., & Zhang, Z., “*Coronal Loop Interactions Observed in Optical Emission Lines*”, 1996mpsa.conf..531S [ADS](#)
- Smartt, R. N., Dunn, R. B., Carmichael, R. B., et al., “*White-Light Reflecting Corona graph for the SWATH Mission*”, 1996ASPC...95..531S [ADS](#)
- , “*Solar drivers of the interplanetary and terrestrial disturbances*”, 1996ASPC...95....B [ADS](#)
- Airapetian, V. S. & Smartt, R. N., “*Optical Diagnostics of Coronal Loop Interactions*”, 1995ApJ...445..489A [ADS](#)
- Zhang, Z.-D., Li, X.-Q., & Smartt, R. N., “*Magnetic Reconnection Model for X-Ray Flare Loop Interaction*”, 1995Ap&SS.226..31Z [ADS](#)
- Beckers, J. M., Kuhn, J., Neidig, D., et al., “*CLEAR: A Concept for a “Coronagraph and Low Emissivity Astronomical Reflector” for Solar and Nighttime Observations*”, 1995SPD...26..722B [ADS](#)
- Neidig, D. F., Smartt, R. N., Kim, I. S., & Koutchmy, S., “*Near-Infrared Coronagraphic Detection of Space Debris*”, 1995itsa.conf..253N [ADS](#)
- Kim, I. S., Bougaenko, O. I., Brouevitch, V. V., et al., “*Mirror Coronagraphic Device and Its Application*”, 1995itsa.conf..239K [ADS](#)
- Smartt, R. N. & Koutchmy, S., “*Reflecting Coronagraphs: Prospects*”, 1995itsa.conf..163S [ADS](#)
- Airapetian, V. S. & Smartt, R. N., “*Emission-Line Signatures of Coronal Loop Interactions*”, 1995itsa.conf..31A [ADS](#)
- Zhang, Z. & Smartt, R. N., “*Progress in dynamic research of solar flare magnetic loops.*”, 1994PABei..12..287Z [ADS](#)
- Altrock, R. C. & Smartt, R. N., “*Photometric imaging observations of the emission corona*”, 1994ESASP.373..425A [ADS](#)
- Kim, I. S., Alexeeva, I. V., & Smartt, R. N., “*Comments on Doppler shifts deduced by the Fabry-Perot technique*”, 1994ESASP.373..71K [ADS](#)
- Airapetian, V. S. & Smartt, R. N., “*Role of loop-loop encounters in coronal heating*”, 1994ESASP.373..29A [ADS](#)
- Li, X. Q., Zhang, Z., & Smartt, R. N., “*Magnetic reconnection theory for coronal loop interaction.*”, 1994A&A...290..963L [ADS](#)
- Vial, J. C., Koutchmy, S., & Smartt, R. N., “*Moon-based UV reflecting coronagraph*”, 1994AdSpR..14f..43V [ADS](#)
- Zhang, Z., Li, X. Q., & Smartt, R. N., “*Analysis of loop interaction in the visible emission corona*”, 1994AdSpR..14d..41Z [ADS](#)
- Kim, I. S. & Smartt, R. N., “*On the Eclipse E-Corona Observations by the Fabry-Perot Technique*”, 1994scs..conf..549K [ADS](#)
- Smartt, R. N., Zhang, Z., Kim, I. S., & Reardon, K. P., “*Coronal Loop Interaction Observed at Visible Wavelengths*”, 1994scs..conf..219S [ADS](#)
- Smartt, R. N., Koutchmy, S., & Noens, J. C., “*Near-IR Solar Coronal Observations with New-Technology Reflecting Coronagraphs*”, 1994IAUS..154..603S [ADS](#)
- Kuhn, J. R., Lin, H., Lamy, P., Koutchmy, S., & Smartt, R. N., “*IR Observations of the K and F Corona During the 1991 Eclipse*”, 1994IAUS..154..185K [ADS](#)
- Bookbinder, J., Golub, L., Deluca, E., & Smartt, R., “*The SWATH Satellite Program*”, 1993AAS...183.0810B [ADS](#)
- Smartt, R. N., Zhang, Z., & Smutko, M. F., “*Post-Flare Coronal Loop Interaction*”, 1993SoPh..148..139S [ADS](#)
- Smartt, R. N. & Zhang, Z., “*Coronal Loop Interaction*”, 1993ASSL..183..183S [ADS](#)
- Smartt, R. N. & Zhang, Z., “*Morphology of coronal loop interactions.*”, 1992ESASP.348..185S [ADS](#)
- Lamy, P., Kuhn, J. R., Lin, H., Koutchmy, S., & Smartt, R. N., “*No Evidence of a Circumsolar Dust Ring from Infrared Observations of the 1991 Solar Eclipse*”, 1992Sci...257.1377L [ADS](#)
- Smartt, R. N., “*Some considerations for instrumentation for a lunar-based solar observatory*”, 1992ecos.proc.1890S [ADS](#)
- Zhang, Z. & Smartt, R. N., “*Interaction of Coronal Loops*”, 1992AcASn..32..233Z [ADS](#)
- Smartt, R. N. & Koutchmy, S., “*Development of Reflecting Coronagraphs*”, 1992ASPC...26..660S [ADS](#)
- Smartt, R. N., Li, X. Q., & Zhang, Z., “*Interpretation of Coronal Loop Interactions*”, 1992AA...179.3806S [ADS](#)
- Lin, J., Zhang, Z., Wang, Z., & Smartt, R. N., “*The morphological characteristics and cooling mechanisms of the post-flare loop system of April 28, 1980*”, 1992A&A...253..557L [ADS](#)
- Zhang, Z.-D. & Smartt, R. N., “*Interaction of coronal loops*”, 1991AcASn..32..233Z [ADS](#)
- Smartt, R. N., Zhang, Z., & Landman, D. A., “*Dark Gaps in Emission Corona Images*”, 1991BAAS...2301045S [ADS](#)
- Zirker, J. B., Koutchmy, S., Coulter, R. L., November, L. J., & Smartt, R. N., “*Eclipse Plans for NSO/SP*”, 1991BAAS..23.1063Z [ADS](#)
- Smartt, R. N. & Querfeld, C. W., “*Interpretation of polarization measurements of coronal Fe XIII (10747 Å) emission.*”, 1991sopo.work..326S [ADS](#)
- Dunn, R. B. & Smartt, R. N., “*High resolution telescopes at the National Solar Observatory*”, 1991AdSpR..11e.139D [ADS](#)
- Lin, J., Zhang, Z., Wang, Z., & Smartt, R. N., “*The Morphology Evolution of the Cool Post-Flare Loop System of April 28, 1980*”, 1990AcASn..31..313L [ADS](#)
- Smartt, R. N., Koutchmy, S. L., Colley, S. A., et al., “*New technology mirror coronagraph with extended applications*”, 1990SPIE.1236..206S [ADS](#)
- Koutchmy, S., Colley, S., Smartt, R., Nitschelm, C., & Zimmermann, J. P., “*Real-time image processing and data handling for ground-based and space-borne coronal observations*”, 1990SPIE.1235..849K [ADS](#)
- Smartt, R. N., Koutchmy, S., & Vial, J. C., “*UV solar reflecting coronagraph*”, 1990AIPC..207..578S [ADS](#)
- Smartt, R. N. & Zhang, Z., “*Interacting Coronal Loops*”, 1990BAAS...22R.870S [ADS](#)
- Smartt, R. N. & Zhang, Z., “*Coronal Loop Interaction*”, 1990IAUS..142..350S [ADS](#)
- Koutchmy, S. & Smartt, R. N., “*High resolution observations of the solar corona: why and how?*”, 1989hsrs.conf..560K [ADS](#)
- Smartt, R. N., “*Measurement of telescope system aberrations*”, 1989hsrs.conf..232S [ADS](#)
- Smartt, R. N., Koutchmy, S., & Schwenn, R., “*Ground-Based Mirror Coronagraph: First Results*”, 1989BAAS...21..848S [ADS](#)
- Smartt, R. N., Koutchmy, O., Koutchmy, S., Nitschelm, C., & Sykora, J.: 1989b, *Image processing of coronal pictures* 1989STIN..8924252S [ADS](#)
- Lin, J., Wang, Z. Y., Zhang, Z. D., & Smartt, R. N., “*The Plasma Property of Cool Flare Loops of 1980APR28*”, 1989AcASn..30..52L [ADS](#)
- Harvey, J., Abdel-Gawad, K., Ball, W., et al., “*The GONG instrument.*”, 1988ESASP.286..203H [ADS](#)
- Bonacinni, D. & Smartt, R. N., “*Lithium niobate double channel Fabry-Perot interferometer for solar corona uses*”, 1988ApOpt..27.5095B [ADS](#)

- Smartt, R. N., Colley, S. A., Gilliam, L. B., Koutchmy, S., & Zirker, J. B., "Spectroscopic Coronal Observations Using A High-Sensitivity Camera", 1988BAAS...20..704S [ADS](#)
- Smartt, R. N. & Arnaud, J., "Coronal emission-line polarization.", 1988sscd.conf..451S [ADS](#)
- Koutchmy, O., Koutchmy, S., Nitschelm, C., Sykora, J., & Smartt, R. N., "Image processing of coronal pictures.", 1988sscd.conf..256K [ADS](#)
- Brandt, P. N., Mauter, H. A., & Smartt, R., "Day-time seeing statistics at Sacramento Peak Observatory", 1987A&A...188..163B [ADS](#)
- Smartt, R. N. & Zhang, Z., "Loop interaction in the visible emission corona - morphological details.", 1987NASCP2483..129S [ADS](#)
- Smartt, R. N., Koutchmy, S., & Zirker, J. P., "High Spatial Resolution Coronal Physics: The Need for Larger Coronagraphs", 1987BAAS...19Q1122S [ADS](#)
- Smartt, R., "Near-Infrared Measurements of the Radiance of the Solar Corona", 1987BAAS...19..924S [ADS](#)
- Jain, R., Smartt, R. N., & Zhang, Z., "Flare Associated Coronal Loop Systems in FeXIV 5303A FeX 6374 and H α Morphological Details and Derived Parameters", 1987BASI...15..193 [ADS](#)
- Brandt, P. N., Mauter, H. A., & Smartt, R., "Day-time seeing statistics at Sacramento Peak Observatory", 1987LFLTR...26..41B [ADS](#)
- Smartt, R. N., "Mass Estimate of an Erupting Loop Prominence", 1986BAAS...18..899S [ADS](#)
- Zhang, Z. & Smartt, R. N., "Electric Field Measurements in Solar Flares", 1986SoPh..105..355Z [ADS](#)
- Smartt, R. N. & Zhang, Z., "Coronal Loop Interaction in the Post-Flare Phase", 1986BAAS...18..699S [ADS](#)
- Smartt, R. N. & Hariharan, P., "Zone-plate Radial-shear Interferometers a Study of Possible Configurations", 1985AcOpt..32.1475S [ADS](#)
- Smartt, R. N. & Steel, W. H., "Point-diffraction interference microscopy", 1985ApOpt..24.1402S [ADS](#)
- Querfeld, C. W., Smartt, R. N., Bommier, V., Landi Degl'Innocenti, E., & House, L. L., "Vector Magnetic Fields in Prominences - Part Two HeI d3 Stokes Profiles Analysis for Two Quiescent Prominences", 1985SoPh...96..277Q [ADS](#)
- Smartt, R. N. & Jain, R., "Detailed Morphology of Flare-Associated Coronal Loops", 1985BAAS...17Q.645S [ADS](#)
- Querfeld, C. W. & Smartt, R. N., "Comparison of Coronal Emission Line Structure and Polarization", 1984SoPh..91..299Q [ADS](#)
- Smartt, R. N. & Zhang, Z., "Visible Coronal Emission Associated with a Quiescent Prominence", 1984SoPh..90..315S [ADS](#)
- Smartt, R. N. & Zirker, J. B., "New observations of the Solar Emission Corona in Fe X and Fe XIV", 1984stpc..conf..269S [ADS](#)
- Smartt, R. N. & House, L. L., "Vector Magnetic Fields in Prominences: Observations and Analysis", 1984KodOB..4..35S [ADS](#)
- Athay, R. G., Querfeld, C. W., Smartt, R. N., Landi Degl'Innocenti, E., & Bommier, V., "Vector Magnetic Fields in Prominences - Part Three - HeI d3 Stokes Profile Analysis for Quiescent and Eruptive Prominences", 1983SoPh..89..3A [ADS](#)
- Wagner, W. J., Illing, R. M. E., Sawyer, C. B., et al., "A White-Light / FeX / H α Coronal Transient Observation to 10-SOLAR-RADII", 1983SoPh..83..153W [ADS](#)
- Stauffer, F. R., Smith, G. H., Streander, G. W., et al., "Precision Tuning and Improved Stability of a Universal Birefringent Filter", 1983SPIE..380..77S [ADS](#)
- Engvold, O., Dunn, R. B., Livingston, W. C., & Smartt, R. N., "Test of vacuum vs helium in a solar telescope.", 1983ApOpt..22..10E [ADS](#)
- Smartt, R. N., "Solar corona photoelectric photometer using mica etalons", 1982SPIE..331..442S [ADS](#)
- House, L. L. & Smartt, R. N., "Vector Magnetic Fields in Prominences - Part One - Preliminary Discussion of Polarimeter Observations in he I D3", 1982SoPh..80..53H [ADS](#)
- Smartt, R. N. & Zhang, Z., "Coronal Emission Associated with a Quiescent Prominence", 1982BAAS...14Q.623S [ADS](#)
- Smartt, R. N., Zirker, J. B., & Mauter, H. A., "Interferometric Eclipse Observations of the Fe XIV Inner Corona", 1982tsef.conf..102S [ADS](#)
- Smartt, R. N., Zirker, J. B., & Mauter, H. A., "Interferometric eclipse observations of the Fe XIV inner corona.", 1982PINSA..48..102S [ADS](#)
- Smartt, R. N., Zirker, J. B., & Mauter, H. A., "Interferometric Eclipse Observations of the Fe XIV Inner Corona", 1982PIAS..48..102S [ADS](#)
- Smartt, R. N., Zirker, J. B., & Mauter, H. A., "Eclipse observations of coronal Fe XIV emission.", 1981otse.conf..36S [ADS](#)
- Smartt, R. N., Dunn, R. B., & Fisher, R. R., "Design and performance of a new emission-line coronograph.", 1981SPIE..288..395S [ADS](#)
- Wagner, W. J., Sawyer, C., Illing, R. M. E., et al., "A Three-Coronagraph Record from 1 to 10 R_O of the Energetics of a Coronal Transient", 1980BAAS...12Q.902W [ADS](#)
- Querfeld, C. W., Smartt, R. N., Bommier, V., & Landi Degl'Innocenti, E., "Vector Magnetic Fields Inferred from He I D_3 Polarization in the August 5, 1980 Eruptive Prominence", 1980BAAS...12..913Q [ADS](#)
- Smartt, R. N. & Querfeld, C. W., "Comparison of Coronal Emission-Line Structure and Observed Polarization", 1980BAAS...12..793S [ADS](#)
- Querfeld, C. W., Smartt, R. N., Bommier, V., & Landi Degl'Innocenti, E., "Quiescent Prominence Vector Magnetic Fields Inferred from He I D_3 Polarization", 1980BAAS...12..792Q [ADS](#)
- Smartt, R. N., Zirker, J. B., & Mauter, H. A., "Interferometric Eclipse Observations of Coronal FeXIV Emission", 1980BASI...8..59S [ADS](#)
- Gilliam, L. B., Smartt, R. N., & Zirker, J. B., "Solar corona spectra observations in active, quiescent and hole regions.", 1980BAAS...12..751G [ADS](#)
- Smartt, R. N. & House, L. L., "Polarization Measurements of Prominences - Characteristics of Stokes Profiles", 1979BAAS...11..409S [ADS](#)
- Landi Degl'Innocenti, M., Kundu, M. R., Landman, D. A., Smartt, R. N., & Stenflo, J., "Discussion", 1979phsp.co11..85L [ADS](#)
- House, L. L. & Smartt, R. N., "Stokes Polarimetry of Quiescent Prominences in HeI D_3", 1979phsp.col1..81H [ADS](#)
- Smartt, R. N., "Special applications of the point-diffraction interferometer", 1979SPIE..192..35S [ADS](#)
- Smartt, R. N., "Scattered-light measurements of optical surfaces", 1979SPIE..190..58S [ADS](#)
- Smartt, R. N. & Steel, W. H., "Point-Diffraction Interference Microscopy", 1979JOSA..69.1455S [ADS](#)
- House, L. L. & Smartt, R. N., "Stokes Polarimetry of Quiescent Prominences in He I D_3", 1978BAAS...10..672H [ADS](#)
- Smartt, R. N., "Zone-Plate Radial-Shear Interferometer", 1978JOSA..68.1391S [ADS](#)
- Smartt, R. N., "Scattering Properties of Coronagraph Objective Lenses and Mirrors.", 1977BAAS....9..370S [ADS](#)
- Smartt, R. N.: 1976a, "Observations of the near-infrared solar corona and a new interferometric telescope test", Ph.D. thesis, University of Massachusetts System 1976PhDT.....366S [ADS](#)
- Smartt, R. N.: 1976b, "Observations of the Near-Infrared Solar Corona and a New Interferometric Telescope Test.", Ph.D. thesis, UMass Amherst 1976PhDT.....3S [ADS](#)
- Smartt, R. N., "Absolute measurements of optical flats (A)", 1976JOSA..66.1104S [ADS](#)
- Smartt, R. N. & Steel, W. H., "Theory and Application of Point-Diffraction Interferometers", 1975JaJAP..14..14S [ADS](#)
- Smartt, R. N., "Simple unequal-path interferometer configurations (A)", 1975JOSA..65.1210S [ADS](#)
- Smartt, R. N., "Zone plate interferometer", 1974ApOpt..13.1093S [ADS](#)
- Smartt, R. N. & Strong, J., "Point-Diffraction Interferometer", 1974optEn..13.G198S [ADS](#)
- Smartt, R. N., "Telescope Test using the Point-Diffraction Interferometer", 1974JOSA..64..558S [ADS](#)
- Smartt, R. N. & Strong, J., "Point-Diffraction Interferometer", 1974JOSA..62..737S [ADS](#)
- Smartt, R. N. & Dalton, W. S., "Coronagraph Mirrors for the Near Infrared", 1971JOSA..61..665S [ADS](#)
- Smartt, R. N., "A Variable Transmittance Beam Splitter", 1970ApOpt..9..970S [ADS](#)
- Dumont, F. J. & Smartt, R. N., "Mica Polarizing Prism", 1969JOSA..59.1541D [ADS](#)
- Smartt, R. N. & Givens, M. P., "Fresnel Zone Plate Interferometer", 1969JOSA..59.1522S [ADS](#)
- Ramsay, J. V. & Smartt, R. N., "A Tunable Birefringent Fabry-Perot Interferometer", 1966ApOpt..5.1341R [ADS](#)
- Smartt, R. N. & Ramsay, J. V., "On the Production and Use of the Optical Contact Bond", 1964JPhE..41..514S [ADS](#)
- Smartt, R. N., "The Production of High-Quality Optical Surfaces on Calcite", 1961JPhE..38..165S [ADS](#)
- Steel, W. H., Smartt, R. N., & Giovanelli, R. G., "A 1/8 A Birefringent Filter for Solar Research", 1961AuJPh..14..201S [ADS](#)
- Smartt, R. N. & Steel, W. H., "Birefringence of quartz and calcite", 1959JOSA..49..710S [ADS](#)