

## Bibliography from ADS file: foukal.bib

September 14, 2022

- Foukal, P., "Some developments in observational and theoretical solar astronomy since 1970", 2021JAHH..24..1059F [ADS](#)
- Pasachoff, J. M., Dupree, A. K., Foukal, P., Weart, S., & Zirker, J., "The Fiftieth Anniversary Celebration of the Solar Physics Division of the American Astronomical Society", 2021JAHH..24..1057P [ADS](#)
- Foukal, P. V., "Solar Physics Then and Now", 2020SPD...5110102F [ADS](#)
- Foukal, P., "An Explanation of the Vaughan - Preston Gap", 2018arXiv181006558F [ADS](#)
- Carrasco, V. M. S., García-Romero, J. M., Vaquero, J. M., et al., "The Umbra-Penumbra Area Ratio of Sunspots During the Maunder Minimum", 2018ApJ...865..88C [ADS](#)
- Foukal, P., "Reddened Dimming of Boyajian's Star Supports Internal Storage of Its Missing Flux", 2017RNAAS...1...52F [ADS](#)
- Foukal, P., "An Explanation of the Missing Flux from Boyajian's Mysterious Star", 2017ApJ...842L..3F [ADS](#)
- Criscuoli, S. & Foukal, P., "A Study of Solar Photospheric Temperature Gradient Variation Using Limb Darkening Measurements", 2017ApJ...835...99C [ADS](#)
- Criscuoli, S. & Foukal, P. V., "Investigation of photospheric temperature gradient variations using limb darkening measurements and simulations", 2016SPD...4730301C [ADS](#)
- Foukal, P., "Dimming of the Mid-20th Century Sun", 2015ApJ...815....9F [ADS](#)
- Foukal, P. V., "An Explanation of the Differences Between the Sunspot Area Scales of the Royal Greenwich and Mt. Wilson Observatories, and the SOON Program.", 2014AA...22442201F [ADS](#)
- Foukal, P., "An Explanation of the Differences Between the Sunspot Area Scales of the Royal Greenwich and Mt. Wilson Observatories, and the SOON Program", 2014SoPh..289.1517F [ADS](#)
- Foukal, P. V., "An Explanation of the Difference in the Sunspot Area Scales of the Royal Greenwich Observatory and the SOON Program", 2013SPD...44..154F [ADS](#)
- Foukal, P., "A New Look at Solar Irradiance Variation", 2012SoPh..279..365F [ADS](#)
- Bernasconi, P. N. & Foukal, P. V., "Solar Bolometric Imager for Investigating the Sources of Solar Irradiance Variability", 2012AA...22020114B [ADS](#)
- Foukal, P. & Kováć, Š., "A Different Pathway to the Stars", 2012S&T...123c..38F [ADS](#)
- Foukal, P., Ortiz, A., & Schnerr, R., "Dimming of the 17th Century Sun", 2011ApJ...733L..38F [ADS](#)
- Foukal, P. V., Ortiz, A., & Schnerr, R., "Dimming of the 17th Century Sun", 2011SPD...42..0702F [ADS](#)
- Foukal, P. V., Ortiz, A., & Schnerr, R., "Dimming of the 17th Century Sun", 2011AA...21822423F [ADS](#)
- Foukal, P., "Comment on A homogeneous database of sunspot areas covering more than 130 years by L. A. Balmaceda et al.", 2010JGRA..115.9102F [ADS](#)
- Foukal, P. V., "What Irradiance Studies Tell Us about Solar/Stellar Convection and Magnetism", 2010AA...21621901F [ADS](#)
- Foukal, P. V., Bernasconi, P., & Fröhlich, C., "Recent Anomalous TSI Decrease Not Due To Low Polar Facula and Network Areas: Time to Broaden Our View of Solar Luminosity Variation?", 2009SPD...40..1113F [ADS](#)
- Foukal, P., Bertello, L., Livingston, W. C., et al., "A Century of Solar Ca II Measurements and Their Implication for Solar UV Driving of Climate", 2009SoPh..255..229F [ADS](#)
- Bernasconi, P. N. & Foukal, P. V., "Solar Network Bolometric Properties at Minimum of Activity Observed by the Solar Bolometric Imager", 2008AGUFMSH23A1625B [ADS](#)
- Noble, M., Bernasconi, P., Francomacaro, A., et al., "Barium strontium titanate (BST) pyroelectric detector for bolometric solar imaging", 2008SPIE.7055E..0AN [ADS](#)
- Bernasconi, P. N. & Foukal, P. V., "Do Photospheric Brightness Structures Outside Magnetic Flux Tubes Contribute to Solar Luminosity Variation?", 2008AGUSMSP53B..07B [ADS](#)
- Bernasconi, P. N., Foukal, P. V., Eaton, H. H., & Noble, M., "Preliminary Results Of the 2007 Flight of the Solar Bolometric Imager at Solar Minimum", 2008AGUSMSP41B..05B [ADS](#)
- Foukal, P. & Bernasconi, P. N., "Do Photospheric Brightness Structures Outside Magnetic Flux Tubes Contribute to Solar Luminosity Variation?", 2008SoPh..248....1F [ADS](#)
- Bernasconi, P. N. & Foukal, P., "Do Photospheric Brightness Structures Outside Magnetic Flux Tubes Contribute to Solar Luminosity Variation?", 2007AGUFMGC31B0345B [ADS](#)
- Foukal, P. & Eddy, J., "Did the Sun's Prairie Ever Stop Burning?", 2007SoPh..245..247F [ADS](#)
- Foukal, P., Fröhlich, C., Spruit, H., & Wigley, T. M. L., "Variations in solar luminosity and their effect on the Earth's climate", 2006Natur.443..161F [ADS](#)
- Foukal, P., Bernasconi, P. N., & Walton, S. R., "Can Changing Sunspot and Facular Areas Reproduce the Amplitude of Total Irradiance Variations? (Look, Mom, No Free Parameters!)", 2005AGUFMSH22B..02F [ADS](#)
- Bernasconi, P. N., Foukal, P., Rust, D. M., & LaBonte, B. J., "Finding the sources of irradiance variation at sunspot minimum", 2005MmSAI..76..907B [ADS](#)
- Foukal, P. & Spruit, H., "Comment on 'Variations of Total Solar Irradiance Produced by Structural Changes in the Solar Interior'", 2004EOSTr..85..524F [ADS](#)
- Rust, D. M., Bernasconi, P. N., Foukal, P. V., & Labonte, B. J., "Finding the Sources of Irradiance Variation at Sunspot Minimum", 2004AGUFMSH51E..02R [ADS](#)
- Foukal, P., "Solar Irradiance Variation on Centennial to Millennial Time Scales", 2004AGUFM.U41B..04F [ADS](#)
- Foukal, P., Bernasconi, P., Eaton, H., & Rust, D., "Broadband Measurements of Facular Photometric Contrast Using the Solar Bolometric Imager", 2004ApJ...611L..57F [ADS](#)
- Foukal, P. V.: 2004, *Solar Astrophysics*, 2nd, Revised Edition 2004soas.book.....F [ADS](#)
- Bernasconi, P. N., Eaton, H. A. C., Foukal, P., & Rust, D. M., "The solar bolometric imager", 2004AdSpR..33.1746B [ADS](#)
- Bernasconi, P. N., Foukal, P., Eaton, H. H., & Rust, D. M., "First Results Of The Solar Bolometric Imager", 2003AGUFMSH32A1101B [ADS](#)
- Bernasconi, P. N., Foukal, P., & Rust, D. M., "The Solar Bolometric Imager: Characteristics and Performance.", 2003SPD....34.2002B [ADS](#)
- Foukal, P., "A Cryogenic Pyrheliometer for More Accurate Solar Irradiance Measurements", 2003SPD....34.2001F [ADS](#)
- Foukal, P., "Reply: Evaluation of Climate Sensitivity to Solar Influences Is an Important Goal", 2003EOSTr..84..532F [ADS](#)
- Foukal, P., "Can Slow Variations in Solar Luminosity Provide Missing Link Between the Sun and Climate?", 2003EOSTr..84..205F [ADS](#)
- Foukal, P., "A comparison of variable solar total and ultraviolet irradiance outputs in the 20th century", 2002GeoRL..29.2089F [ADS](#)
- LaBonte, B. J., Bernasconi, P. N., Rust, D., et al., "Investigation of the Sources of Irradiance Variation on the Sun (ISIS)", 2002AA...200.5608L [ADS](#)
- Bernasconi, P. N., Foukal, P., & Rust, D. M., "The Solar Bolometric Imager", 2002AA...200.5605B [ADS](#)
- Foukal, P. V., "A Comparison of Variable Total and Ultraviolet Solar Irradiance Inputs to 20 th Century Global Warming", 2002AA...200.2802F [ADS](#)
- Rust, D., Bernasconi, P., & Foukal, P., "The solar bolometric imager", 2002cosp...34E1200R [ADS](#)
- Foukal, P., "Radiometric and Photometric Tests of Solar Luminosity Variation Mechanisms", 2001AGUSM..SP31B04F [ADS](#)
- Foukal, P. & Milano, L., "A measurement of the quiet network contribution to solar irradiance variation", 2001GeoRL..28..883F [ADS](#)
- Foukal, P. & Libonate, S., "Total-Light Imager with Flat Spectral Response for Solar Photometric Measurements", 2001ApOpt..40.1138F [ADS](#)
- Benz, A. O., Bogdan, T., Foukal, P. V., et al., "Division II: Sun and Heliosphere", 2001IAUTB..24..110B [ADS](#)
- Libonate, S. & Foukal, P., "Total Light Imager with Flat Spectral Response for Solar Photometric Measurements", 2000SPD...3102118L [ADS](#)
- Foukal, P. & Milano, L., "A Measurement of the Quiet Network Contribution to Solar Irradiance Variation", 2000SPD...31.0805F [ADS](#)
- Foukal, P., Solanki, S., Mariska, J., et al., "Commission 12: Solar Radiation and Structure (Radiation et Structure Solaires)", 2000IAUTA..24..73F [ADS](#)
- Foukal, P., Ai, G., Benz, A., et al., "Division II: The Sun and Heliosphere: (Le Soleil et Heliosphère)", 2000IAUTA..24..65F [ADS](#)
- Libonate, S. & Foukal, P. V., "The Solar Bolometric Imager -A New Direction in Solar Irradiance Studies", 1999AA...194.7608L [ADS](#)
- Foukal, P. V., "Bolometric imager for solar irradiance studies", 1998SPIE.3442..34F [ADS](#)
- Foukal, P., "Extension of the F10.7 Index to 1905 using Mt. Wilson Ca K Spectroheliograms", 1998GeoRL..25.2909F [ADS](#)
- Foukal, P., "What Determines the Relative Areas of Spots and Faculae on Sun-like Stars?", 1998ApJ...500..958F [ADS](#)
- Foukal, P., "Solar Irradiance Variations and Climate", 1998fsm.conf..103F [ADS](#)
- Foukal, P., "Chirality, Helicity, and Joy's Law", 1998ASPC..150..446F [ADS](#)
- Foukal, P., "Plasma Electric Field Measurements as a Diagnostic of Neutral Sheets in Prominences", 1998ASPC..150..119F [ADS](#)
- Foukal, P., "The Behavior of solar magnetic plages measured from Mt. Wilson observations between 1915-1984", 1996GeoRL..23.2169F [ADS](#)

- Foukal, P., "Spectrapolarimetry of the 15-9 Transition of HI as a Diagnostic of Plasma Electric Fields", 1996AAS...188.3620F [ADS](#)
- Casini, R. & Foukal, P., "Calculated profiles of H I lines of interest for solar plasma electric field measurements", 1996SoPh..163...65C [ADS](#)
- Foukal, P., Harman, M., Risacher, S., & Yang, R., "Daily Digital Mt Wilson CaK Images and Plage Areas 1915-1985", 1995SPD....26..513F [ADS](#)
- Foukal, P. V. & Behr, B. B., "Testing MHD Models of Prominences and Flares with Observations of Solar Plasma Electric Fields", 1995SoPh..156..293F [ADS](#)
- Foukal, P., "Solar irradiance variability and luminosity changes", 1995HiA....10..294F [ADS](#)
- Foukal, P., "Reply to the comment on "Stellar luminosity variations and global warming", by R. R. Radick.", 1994Sci...266.1073F [ADS](#)
- Radick, R. R. & Foukal, P., "Stellar Variability and Global Warming", 1994Sci...266.1072R [ADS](#)
- Foukal, P., "Stellar Luminosity Variations and Global Warming", 1994Sci...264..238F [ADS](#)
- Foukal, P. V. & Behr, B. B., "Measurements of Electric Fields in Coronal Magnetic Structures (Invited)", 1994scs..conf..177F [ADS](#)
- Foukal, P. & Moran, T., "Properties of Faculae from Observations Near the Opacity Minimum", 1994IAUS..154..23F [ADS](#)
- Foukal, P., "Study of solar irradiance variations holds key to climate questions", 1994EOSTr..75..377F [ADS](#)
- Foukal, P., "The Curious Case of the Greenwich Faculae", 1993SoPh..148..219F [ADS](#)
- Foukal, P. & Behr, B., "Measurement of Plasma Electric Fields in Prominences", 1993BAAS...25Q1206F [ADS](#)
- Kuhn, J. R. & Foukal, P. V., "The RISE Precision Solar Photometric Telescope Project", 1993BAAS...25.1184K [ADS](#)
- Moran, T., Foukal, P., & Rabin, D., "A Photometric Study of Faculae and Sunspots Between 1.2-MICRONS and 1.6-MICRONS", 1992SoPh..142..35M [ADS](#)
- Foukal, P., "Darkness can illuminate", 1992Natur.358..285F [ADS](#)
- Foukal, P. V., "The Case of the Missing Faculae", 1992AAS...180.0703F [ADS](#)
- Foukal, P. V., "Book-Review - Solar Astrophysics", 1992S&T....83..173F [ADS](#)
- Foukal, P., "Solar Luminosity Variation", 1992ASPC...27..439F [ADS](#)
- Foukal, P., Harvey, K., & Hill, F., "Do Changes in the Photospheric Magnetic Network Cause the 11 Year Variation of Total Solar Irradiance?", 1991ApJ...383L..89F [ADS](#)
- Moran, T. & Foukal, P., "An Electrograph for Measurement of Macroscopic Electric Fields in Prominences and Flares", 1991SoPh..135..179M [ADS](#)
- Foukal, P. & Hinata, S., "Electric Fields in the Solar Atmosphere - a Review", 1991SoPh..132..307F [ADS](#)
- Harvey, K. L. & Foukal, P. V., "On the Role of the Photospheric Magnetic Network in the 11-Year Variation of Total Solar Irradiance", 1991BAAS...23.1068H [ADS](#)
- Foukal, P., "Objectives and Scope of RISE", 1991BAAS...23.1040F [ADS](#)
- Fröhlich, C., Foukal, P. V., Hickey, J. R., Hudson, H. S., & Willson, R. C., "Solar Irradiance Variability from Modern Measurements", 1991suti.conf...11F [ADS](#)
- Moran, T. & Foukal, P., "Measurement of polarization-dependent Stark broadening as a diagnostic of electric fields in the solar atmosphere.", 1991sopowrk..393M [ADS](#)
- Rosner, R., Noyes, R., Antiochos, S. K., et al.: 1991, *Solar astronomy*, In National Academy of Sciences/National Research Council, Working Papers: Astronomy and Astrophysics Panel Reports 35 p (SEE N91-33017 24-89) 1991aap..reptR....R [ADS](#)
- Lean, J. & Foukal, P., "Solar cycle modulation of total irradiance: an empirical model from 1874 to 1988.", 1990NASCP3086..197L [ADS](#)
- Foukal, P. V., "The program on radiative inputs of the Sun to the Earth (RISE).", 1990NASCP3086..116F [ADS](#)
- Foukal, P. V., "Die veränderliche Sonne.", 1990SpWis...4..66F [ADS](#)
- Foukal, P., "Solar Luminosity Variations over Timescales of Days to the past Few Solar Cycles", 1990RSPTA.330..591F [ADS](#)
- Stanford, J. S., Ribes, E., & Foukal, P., "Astronomical Determinations of the Solar Variability: Discussion", 1990RSPTA.330..497S [ADS](#)
- Foukal, P., Little, R., Graves, J., Rabin, D., & Lynch, D., "Infrared Imaging of Faculae at the Deepest Photospheric Layers", 1990ApJ...353..712F [ADS](#)
- Moran, T. & Foukal, P., "An Electrograph for the Measurement of Electric Fields in Coronal Structures", 1990BAAS...22..794M [ADS](#)
- Foukal, P. V., "The variable sun", 1990SciAm.262b..34F [ADS](#)
- Foukal, P. V., "The variable sun.", 1990SciAm.262b..26F [ADS](#)
- Foukal, P. & Lean, J., "An Empirical Model of Total Solar Irradiance Variation Between 1874 and 1988", 1990Sci...247..556F [ADS](#)
- Foukal, P.: 1990a, *Solar astrophysics* 1990soas.book.....F [ADS](#)
- Foukal, P., "Solar luminosity variations over timescales of days to the past few solar cycles.", 1990ecvs.conf..591F [ADS](#)
- Foukal, P., "Comment on 'asymmetry and variations of solar limb darkening along the diameter defined by diurnal motion in April 1981' by Neckel and Labs (1987)", 1989SoPh..120..249F [ADS](#)
- Foukal, P. V., "The Solar Radiative Output Variation Program", 1989BAAS...21..832F [ADS](#)
- Foukal, P., Little, R., Graves, B., Rabin, D., & Lynch, D., "Infrared Imaging of Faculae at the Deepest Photospheric Layers", 1989BAAS...21..828F [ADS](#)
- Foukal, P., Little, R., & Mooney, J., "Infrared Imaging of Sunspots and Faculae at the Photospheric Opacity Minimum", 1989ApJ...336L..33F [ADS](#)
- Lean, J. & Foukal, P., "A Model of Solar Luminosity Modulation by Magnetic Activity between 1954 and 1984", 1988Sci...240..906L [ADS](#)
- Foukal, P. & Lean, J., "Magnetic Modulation of Solar Luminosity by Photospheric Activity", 1988ApJ...328..347F [ADS](#)
- Foukal, P., Little, R., & Gilliam, L., "Paschen-line Stark-broadening as an electric field diagnostic in erupting prominences", 1988SoPh..114..65F [ADS](#)
- Foukal, P., Little, R., & Mooney, J., "Infrared Imaging of Magnetic Faculae at the Photospheric Opacity Minimum", 1988BAAS...20..689F [ADS](#)
- Foukal, P., "Introduction", 1988srov.procD...1F [ADS](#)
- Foukal, P. & Lean, J., "A Model of Solar Luminosity Modulation by Magnetic Activity Between 1954-1984", 1988srov.proc..323F [ADS](#)
- , "Solar Radiative Output Variation", 1988srov.proc.....F [ADS](#)
- Foukal, P., "Theoretical interpretation of total solar irradiance variations", 1988AdSpR...8g..43P [ADS](#)
- Foukal, P.: 1987a, *Measurement of macroscopic electric fields in solar plasma structures*, Final Technical Report, 27 May - 27 Nov. 1987 Cambridge Research and Instrumentation, Inc., MA. 1987crii.rept.....F [ADS](#)
- Foukal, P., "Active region flows.", 1987NASCP2483..15F [ADS](#)
- Foukal, P., Little, R., & Gilliam, L., "Flare Electric Fields Measured by Stark Effect in Paschen and Balmer Lines", 1987BAAS...19..950F [ADS](#)
- Graves, B., Foukal, P., Rieke, M., & Fowler, A., "The Performance of a Schottky Barrier and HgCdTe Infrared Arrays in Monochromatic Light", 1987BAAS...19..928G [ADS](#)
- Foukal, P. & Lean, J., "Magnetic Modulation of Solar Luminosity by Photospheric Activity", 1987BAAS...19..924F [ADS](#)
- Chiang, W. H., Petro, L. D., & Foukal, P. V., "A Photometric Search for Solar Giant Convection Cells", 1987SoPh..110..129C [ADS](#)
- Foukal, P., Little, R., & Gilliam, L., "Paschen-line Stark-broadening as an electric field diagnostic in erupting prominences", 1987SoPh..114..65F [ADS](#)
- Foukal, P., "Physical interpretation of variations in total solar irradiance.", 1987JGR....92..801F [ADS](#)
- Foukal, P., Hoyt, C., & Gilliam, L., "Electric Fields and Plasma Structure in Coronal Magnetic Loops", 1986ApJ...303..861F [ADS](#)
- Foukal, P., Hoyt, C., & Gilliam, L., "Electric Fields in Coronal Loops", 1986BAAS...18..708F [ADS](#)
- Foukal, P. & Lean, J., "The Influence of Faculae on Total Solar Irradiance and Luminosity", 1986ApJ...302..826F [ADS](#)
- Foukal, P. & Duvall, T. J., "Differential photometry of magnetic faculae", 1985ApJ...296..739F [ADS](#)
- Petro, L. D., Foukal, P. V., & Kurucz, R. L., "Photospheric Limb Darkening Signatures of Global Structure Variations", 1985SoPh...98..23P [ADS](#)
- Chiang, W. H. & Foukal, P., "The Influence of Faculae on Sunspot Heat Blocking", 1985SoPh..97..9C [ADS](#)
- Petro, L. D., Foukal, P. V., Rosen, W. A., Pierce, A. K., & Kurucz, R. L., "Investigation of Photospheric Limb-Darkening Variation Between 1980 and 1985", 1985BAAS...17..644P [ADS](#)
- Petro, L. D., Foukal, P. V., Rosen, W. A., Kurucz, R. L., & Pierce, A. K., "A study of solar photospheric limb-darkening variations", 1984ApJ...283..426P [ADS](#)
- Foukal, P. & Fowler, L., "A photometric study of heat flow at the solar photosphere", 1984ApJ...281..442F [ADS](#)
- Miller, P., Foukal, P., & Keil, S., "On the Interpretation of Fraunhofer Line Doppler Shifts at Supergranule Boundaries", 1984SoPh...92..33M [ADS](#)
- Foukal, P., "Photometric studies of heat flow at the photosphere.", 1984NASCP2310..97F [ADS](#)
- Foukal, P. & Landman, D., "Interpretation of Electric Fields in Coronal Magnetic Loops", 1984uxsa.col1..25F [ADS](#)
- Foukal, P., "Radiometric and photometric studies of Solar luminosity variations", 1984stp..conf..411F [ADS](#)
- Foukal, P. & Fowler, L., "Erratum: A Photometric Study of Heat Flow at the Solar Photosphere", 1984ApJ...286..377F [ADS](#)
- Petro, L. D., Foukal, P. V., Rosen, W. A., Kurucz, R. L., & Pierce, A. K., "Variation of Solar Limb Darkening", 1983BAAS...15..951P [ADS](#)
- Foukal, P. & Hoyt, D., "Solar constant", 1983Natur.303..372F [ADS](#)

- Fowler, L. A., Foukal, P., & Duvall, T., J., "Sunspot Bright Rings and the Thermal Diffusivity of Solar Convection", 1983SoPh...84...33F [ADS](#)
- Foukal, P., Fowler, L. A., & Livshits, M., "A thermal model of sunspot influence on solar luminosity", 1983ApJ...267..863F [ADS](#)
- Foukal, P., Miller, P., & Keil, S., "Interpretation of Fraunhofer-Line Red Shifts at Supergranule Boundaries", 1983BAAS...15..719F [ADS](#)
- Foukal, P., Miller, P., & Gilliam, L., "Electric Fields in Coronal Magnetic Loops", 1983SoPh...83..83F [ADS](#)
- Eddy, J. A. & Foukal, P. V., "A Summary of the Joint Discussion at Patras on Solar Luminosity Variations", 1983HiA.....6...79E [ADS](#)
- Fowler, L. A., Foukal, P., & Duvall, T., J., "A Photometric Study of Low-Amplitude Temperature Inhomogeneities at the Photosphere", 1982BAAS...14..938F [ADS](#)
- Foukal, P., Miller, P., & Gilliam, L., "Electric Fields in Coronal Magnetic Loops", 1982BAAS...14..923F [ADS](#)
- Rosen, W., Petro, L., Foukal, P., & Pierce, K., "A Study of Variations in Photospheric Limb-Darkening and Solar Luminosity", 1982BAAS...14..922R [ADS](#)
- Foukal, P. & Miller, P., "A Helium-Cooled Absolute Cavity Radiometer for Solar Irradiance Measurement", 1982BAAS...14..922F [ADS](#)
- Fowler, L. A. & Foukal, P., "Observations of Sunspot Bright Rings and Comparisons with a Convective Blocking Model", 1982BAAS...14..624F [ADS](#)
- Foukal, P. V., "Variations in solar luminosity.", 1982SA0SR.392B..17F [ADS](#)
- Rosen, W. A., Foukal, P. V., Kurucz, R. L., & Pierce, A. K., "Variations in photospheric limb darkening as a diagnostic of changes in solar luminosity", 1982ApJ...253L..89R [ADS](#)
- Raymond, J. C. & Foukal, P., "The thermal structure of solar coronal loops and implications for physical models of coronae", 1982ApJ...253..323R [ADS](#)
- Foukal, P., "Magnetic Loops in the Sun's Atmosphere", 1981S&T....62..547F [ADS](#)
- Foukal, P., Duvall, T., J., & Gillipsie, B., "Detection of a temperature deficit in magnetic faculae at the solar photosphere", 1981ApJ...249..394F [ADS](#)
- Foukal, P., "Erratum - The CI Opacity and Physical Structure of Cool Very Dense Plasma in the Solar Corona", 1981ApJ...247..382F [ADS](#)
- Foukal, P., "The C I opacity and physical structure of cool, very dense plasma in the solar corona", 1981ApJ...245..304F [ADS](#)
- Foukal, P., Fowler, L. A., & Duvall, T., J., "A Photometric Study of Heat Flow Inhomogeneities at the Solar Photosphere", 1981BAAS...13..879F [ADS](#)
- Rosen, W. A., Foukal, P. V., Kurucz, R., & Pierce, A. K., "Photospheric Limb Darkening as a Ground-based Diagnostic for Variations in the Solar Effective Temperature", 1981BAAS...13..551R [ADS](#)
- Foukal, P., Duvall, T., J., & Gillespie, B., "Detection of a Temperature Deficit in Magnetic Faculae at the Solar Photosphere", 1981BAAS...13..551F [ADS](#)
- Foukal, P. V., "Solar Luminosity Variation on Directly Observable Time Scales : Observational Evidence and Basic Mechanisms", 1981sucl.conf..275F [ADS](#)
- Foukal, P., "Sunspots and changes in the global output of the sun", 1981phss.conf..391F [ADS](#)
- Foukal, P., "Comments on the thermodynamic structure and dynamics of the cool solar corona over sunspots", 1981phss.conf..191F [ADS](#)
- Foukal, P. & Smart, M., "Propagation of Magnetically Guided Acoustic Shocks in the Solar Chromosphere", 1981SoPh...69..15F [ADS](#)
- Vernazza, J. & Foukal, P., "On the secular behavior of seasonal changes in ozone column density", 1980GeoRL...7..993V [ADS](#)
- Foukal, P. & Duvall, T. L., J., "Comment on 'average photospheric poloidal and toroidal magnetic field components near solar minimum' by Duvall et al.", 1980SoPh...67....9F [ADS](#)
- Foukal, P. V.: 1980a, *A study of acoustic heating and forced convection in the solar corona*, Final Report, 1 Jan. 1979 - 1 Apr. 1980 Atmospheric and Environmental Research, Inc., Cambridge, MA. 1980aeri.rept.....F [ADS](#)
- Foukal, P., "Solar luminosity variation on short time scales - Observational evidence and basic mechanisms", 1980asfr.symp..29F [ADS](#)
- Foukal, P., "Does the Sun's Luminosity Vary?", 1980S&T....59..111F [ADS](#)
- Foukal, P., "A Doppler measurement with low scattered light of the higher rotation rate of sunspot magnetic fields at the photosphere.", 1979ApJ...234..716F [ADS](#)
- Foukal, P. & Vernazza, J., "The effect of magnetic fields on solar luminosity.", 1979ApJ...234..707F [ADS](#)
- Gilman, P. A. & Foukal, P. V., "Angular velocity gradients in the solar convection zone.", 1979ApJ...229.1179G [ADS](#)
- Foukal, P. V., "Solar Luminosity Variation: Observational Evidence and Basic Mechanisms", 1979BAAS...11Q.421F [ADS](#)
- Foukal, P. V., "Solar luminosity variation: observational evidence and basic mechanisms.", 1979BAAS...11..423F [ADS](#)
- Foukal, P. V., "Solar luminosity variation on short time scales: Observational evidence and basic mechanisms", 1979LPICo.390...37F [ADS](#)
- Foukal, P. & Vernazza, J., "The Effect of Sunspots and Faculae upon the Solar Constant and Atmospheric Transmission", 1978BAAS...10R.620F [ADS](#)
- Foukal, P., "Magnetic loop, downflows, and convection in the solar corona.", 1978ApJ...223.1046F [ADS](#)
- Foukal, P., "Supergranulation and the dynamics of gas and magnetic field below the solar photosphere.", 1977ApJ...218..539F [ADS](#)
- Foukal, P. V., Mack, P. E., & Vernazza, J. E., "The effect of sunspots and faculae on the solar constant.", 1977ApJ...215..952F [ADS](#)
- Foukal, P. V., "Magnetic fields and solar convection and rotation.", 1977BAAS....9..375F [ADS](#)
- Foukal, P., "INVITED PAPER - Magnetic Fields and Solar Convection and Rotation.", 1977BAAS....9..374F [ADS](#)
- Foukal, P. V., "Dynamics of Gas and Magnetic Field in the Supergranular Layer", 1977lsm.s.proc..113F [ADS](#)
- Foukal, P. V., "The pressure and energy balance of the cool corona over sunspots.", 1976ApJ...210..575F [ADS](#)
- Dupree, A. K., Foukal, P. V., & Jordan, C., "Plasma diagnostic techniques in the ultraviolet: the C III density-sensitive lines in the sun.", 1976ApJ...209..621D [ADS](#)
- Foukal, P. V., "The Relative Rotation of Gas and Magnetic Field at the Photosphere", 1976BAAS....8..344F [ADS](#)
- Foukal, P., "Spectroscopic evidence for a higher rotation rate of magnetized plasma at the solar photosphere.", 1976ApJ...203L.145F [ADS](#)
- Reeves, E. M., Timothy, J. G., Foukal, P. V., et al., "Initial results from the EUV spectropheliometer on ATM", 1976skl.s.conf..73R [ADS](#)
- Dupree, A. K., Foukal, P., & Jordan, C., "Ultraviolet observations of C III transitions in the sun.", 1976BAAS....8..292D [ADS](#)
- Withbroe, G. L., Jaffe, D. T., Foukal, P. V., et al., "Extreme-ultraviolet transients observed at the solar pole.", 1976ApJ...203..528W [ADS](#)
- Foukal, P., "The Temperature Structure and Pressure Balance of Magnetic Loops in Active Regions", 1975SoPh...43..327F [ADS](#)
- Vernazza, J. E., Foukal, P. V., Huber, M. C. E., et al., "Time variations in extreme-ultraviolet emission lines and the problem of coronal heating.", 1975ApJ...199L.123V [ADS](#)
- Foukal, P. & Jokipii, J. R., "On the rotation of gas and magnetic fields at the solar photosphere.", 1975ApJ...199L..71F [ADS](#)
- Foukal, P. V., "The Pressure Balance and Currents in Active Region Loop Structures", 1975BAAS....7..346F [ADS](#)
- Foukal, P., "The Contribution of Active Regions to Solar Variation in the Visible and Near Infrared", 1975scea.conf..109F [ADS](#)
- Noyes, R. W., Foukal, P. V., Huber, M. C. E., et al., "EUV Observations of the Active Sun from the Harvard Experiment on ATM", 1975IAUS...68....3N [ADS](#)
- Huber, M. C. E., Foukal, P. V., Noyes, R. W., et al., "Extreme-Ultraviolet Observations of Coronal Holes: Initial Results from SKYLAB", 1974ApJ...194L.115H [ADS](#)
- Foukal, P. V., Noyes, R. W., Reeves, E. M., et al., "Extreme-Ultraviolet Observations of Sunspots with the Harvard Spectrometer on the Apollo Telescope Mount", 1974ApJ...193L.143F [ADS](#)
- , "Initial results from the EUV spectropheliometer on ATM.", 1974aiaa.conf....R [ADS](#)
- Foukal, P., "A three-Component Concept of the Chromosphere and Transition Region", 1974SoPh...37..317F [ADS](#)
- Dupree, A. K., Foukal, P. V., Huber, M. C. E., et al., "Extreme Ultraviolet Solar Spectra from Skylab-Apollo Telescope Mount.", 1974BAAS....6..349D [ADS](#)
- Foukal, P., "A Measurement of Electron Temperature in the Orion Nebula from the Intensity Ratio of Forbidden Transitions in S III", 1974PASP...86..211F [ADS](#)
- Schmahl, E. J., Foukal, P. V., Huber, M. C. E., et al., "Solar Prominences in the Extreme Ultraviolet as Observed from the Apollo Telescope Mount", 1974SoPh...39..337S [ADS](#)
- Reeves, E. M., Foukal, P. V., Huber, M. C. E., et al., "Observations of the Chromospheric Network: Initial Results from the Apollo Telescope Mount", 1974ApJ...188L..27R [ADS](#)
- Reeves, E. M., Foukal, P. V., Huber, M. C. E., et al., "Solar EUV Photoelectric Observations from SKYLAB", 1974IAUS...57..497R [ADS](#)
- Huber, M. C. E., Foukal, P. V., Noyes, R. W., et al., "Observations of a Coronal Hole Boundary in the Extreme Ultraviolet.", 1973BAAS....5..446H [ADS](#)
- Noyes, R. W., Foukal, P. V., Huber, M. C. E., et al., "ATM Observations of Solar Flares in the Extreme Ultraviolet.", 1973BAAS....5..433N [ADS](#)
- Schmahl, E. J., Foukal, P. V., Huber, M. C. E., et al., "Solar Prominences-in the EUV as Observed from ATM.", 1973BAAS....5..432S [ADS](#)
- Foukal, P. V., Huber, M. C. E., Noyes, R. W., et al., "A Study of the Active Region McMath 12417 with the Harvard ATM EUV Spectrometer.", 1973BAAS....5..432F [ADS](#)
- Foukal, P. & Zirin, H., "Reply to 'The relations between chromospheric features and photospheric magnetic fields' by E. N. Frazier", 1972SoPh...26..148F [ADS](#)

- Foukal, P., "Measurement of the Electron Temperature of Small 3-cm Radio Bursts", 1972SoPh...24..411F [ADS](#)
- Foukal, P., "Magnetic Coupling of the Active Chromosphere to the Solar Interior", 1972ApJ...173..439F [ADS](#)
- Foukal, P., "Observations of Diffuse Nebulae in the  $\lambda 9532$  Forbidden Line of SIII", 1972BAAS....4..233F [ADS](#)
- Foukal, P., "Image-Tube Photography of Diffuse Nebulae in [s III]  $\lambda 9532$ .", 1972ApJ...172..591F [ADS](#)
- Foukal, P., "H $\alpha$  Fine Structure and the Chromospheric Field", 1971SoPh...20..298F [ADS](#)
- Foukal, P., "Morphological Relationships in the Chromospheric H $\alpha$  Fine Structure", 1971SoPh...19..59F [ADS](#)
- Foukal, P., "A morphological theory of the Halpha structure of the active chromosphere.", 1971BAAS....3R.261F [ADS](#)
- Foukal, P., "The Development and Flaring of an Active Region Exhibiting Unusual Magnetic Structure. II. Active Regions", 1970SoPh...13..330F [ADS](#)
- Foukal, P., "Erratum", 1970Ap&SS...6..340F [ADS](#)
- Foukal, P., "The Relation Between Chromospheric Structure, Magnetic Field and Filaments", 1970BBSOP...9....1F [ADS](#)
- Foukal, P., "The Electron Temperature Distributions and Internal Kinematics of Seven Diffuse Nebulae", 1969Ap&SS...5..469F [ADS](#)
- Foukal, P., "The Temperature and Internal Kinematics of M8", 1969Ap&SS...4..127F [ADS](#)
- Foukal, P. V.: 1968a, "The electron temperatures and internal motions of seven diffuse nebulae", Ph.D. thesis, University of Manchester, UK  
1968PhDT.....61F [ADS](#)
- Foukal, P., "A Possible observational correlation of lunar luminescence with the K\_p index", 1968Icar....9..162F [ADS](#)