

NSO Papers, 2000 – 2005
Alphabetically by Author

1. Adjabshirizadeh, A. and S. Koutchmy. 2002. "Center-Limb and Shape-Factor Variations of Facular Elements". in *ESA SP-506, Solar Variability: from Core to Outer Frontiers. 10th European Solar Physics Meeting, Prague Czech Republic, 9-14 Sept.2002*, edited by A.Wilson. 415-418.(European Space Agency).
2. Allende Prieto, Carlos, David L. Lambert, and Martin Asplund. 2002. "A Reappraisal of the Solar Photospheric C/O Ratio". *Astrophysical Journal* 573:L137-L140.
3. Allende Prieto, Carlos, Paul S. Barklem, Martin Asplund, and Basilio Ruiz Cobo. 2001. "Chemical Abundances from Inversions of Stellar Spectra: Analysis of Solar-Type Stars with Homogeneous and Static Model Atmospheres". *Astrophysical Journal* 558:830-851.
4. Almeida, J. S. and B. W. Lites. 2000. "Physical Properties of the Solar Magnetic Photosphere Under the MISMA Hypothesis. II. Network and Internetwork Fields at the Disk Center". *Astrophysical Journal* 532:1215-1229.
5. Almeida, J. S. 2005. "Physical Properties of the Solar Magnetic Photosphere Under the MISMA Hypothesis. III. Sunspot at Disk Center.". *Astrophysical Journal* 622:1292-1313.
6. Altrock, R. C. 2003. "A Study of the Rotation of the Solar Corona". *Solar Physics* 213:23-37.
7. Altrock, R. C., T. W. Henry, and J. L. Cornett. 2000. "Coronal Line Emission (Sacramento Peak), 1999". In *Solar-Geophysical Data, Part 1 (Prompt Reports), no.655-666 (Mar.1999- Feb.2000)*, edited by H.E.Coffey (NOAA, Boulder, CO).
8. Altrock, R. C., T. W. Henry, and J. L. Cornett. 2001. "Coronal Line Emission (Sacramento Peak), 2000". In *Solar-Geophysical Data, Part 1 (Prompt Reports), no.667-678 (Mar.2000-Feb.2001)*, edited by H.E.Coffey (NOAA, Boulder CO).
9. Altrock, R. C., T. W. Henry, and J. L. and Cornett. 2002. "Coronal Line Emission (Sacramento Peak), 2001". In *Solar-Geophysical Data, Part 1 (Prompt Reports), no.679-690 (Mar.2001-Feb.2002)*, edited by H.E.Coffey (NOAA, Boulder CO).
10. Altrock, R. C., T. W. Henry, and J. L. Cornett. 2003. "Coronal Line Emission (Sacramento Peak), 2002". In *Solar-Geophysical Data, Part 1 (Prompt Reports), no. 691-702 (Mar. 2002-- Feb. 2003)* , edited by H.E.Coffey Electronic ed. (NOAA, Boulder CO).
11. Altrock, R. C., T. W. Henry, and J. L. Cornett. 2004. "Coronal Line Emission (Sacramento Peak), 2003". In *Solar-Geophysical Data, Part 1 (Prompt Reports), no.703-714 (Mar 2003- Feb 2004)*, edited by H.E.Coffey Electronic ed. (NOAA, Boulder CO).
12. Altrock, R. C., T. W. Henry, and J. L. Cornett. 2005. "Coronal Line Emission (Sacramento Peak), 2004". In *Solar-Geophysical Data, Part 1 (Prompt Reports), no. 715-726 (March 2004--Feb. 2005)* , edited by H.E.Coffey Electronic ed. (NOAA, Boulder CO).

13. Altrock, R. C. 2002. "Long-Term Variation of the Rotation of the Solar Corona". in *Multi-Wavelength Observations of Coronal Structure and Dynamics-- 10th Yohkoh Anniversary Meeting (COSPAR)*, edited by P.C.Martens and D.Cauffman, eds. 337-340.(Pergamon).
14. Altrock, R. C., T. W. Henry, and J. L. Cornett. 2000. "Sacramento Peak Coronal Line Synoptic Maps, 1999". In *Solar-Geophysical Data, Part 1 (Prompt Reports)*, no.655-666 (Mar.1999- Feb.2000). , edited by H.E.Coffey (NOAA, Boulder, CO.).
15. Altrock, R. C., T. W. Henry, and J. L. Cornett. 2001. "Sacramento Peak Coronal Line Synoptic Maps, 2000". In *Solar-Geophysical Data, Part 1 (Prompt Reports)*, no.667-678 (Mar.2000-Feb.2001), edited by H.E.Coffey (NOAA, Boulder CO).
16. Altrock, R. C., T. W. Henry, and J. L. and Cornett. 2002. "Sacramento Peak Coronal line Synoptic Maps, 2001". In *Solar-Geophysical Data, Part 1 (Prompt Reports)*, no.679-690 (Mar.2001- Feb.2002), edited by H.E.Coffey (NOAA, Boulder CO).
17. Altrock, R. C., T. W. Henry, and J. L. Cornett. 2003. "Sacramento Peak Coronal Line Synoptic Maps, 2002". In *Solar-Geophysical Data, Part 1 (Prompt Reports)*, no. 691-702 (Mar. 2002--Feb. 2003), edited by H.E.Coffey Electronic ed. (NOAA, Boulder CO).
18. Altrock, R. C., T. W. Henry, and J. L. Cornett. 2004. "Sacramento Peak Coronal Line Synoptic Maps, 2003". In *Solar-Geophysical Data, Part 1 (Prompt Reports)*, no.703-714 (Mar.2003-Feb.2004), edited by H.E.Coffey Electronic ed. (NOAA, Boulder CO).
19. Altrock, R. C., T. W. Henry, and J. L. Cornett. 2005. "Sacramento Peak Coronal Line Synoptic Maps, 2004". In *Solar-Geophysical Data, Part 1 (Prompt Reports)*, no. 715-726 (March 2004-- Feb. 2005), edited by H.E.Coffey Electronic ed. (NOAA, Boulder CO).
20. Altrock, R. C. 2004. "The Temperature of the Low Corona During Solar Cycles 21-23". *Solar Physics* 224:255-268.
21. Altrock, R. C. 2003. "Use of Ground-Based Coronal Data to Predict the Date of Solar-Cycle Maximum". *Solar Physics* 216:343-352.
22. Altyntsev, A. T., R. A. Sych, V. V. Grechnev, N. S. Meshalkina, and G. V. Rudenko. 2002. "A flare of 23 September 1998: relation between temporal and spatial structures". *Solar Physics* 206:155-176.
23. Ambastha, A. 2003. "The Active and Explosive Sun". edited by H.M.Antia, A.Bhatnagar, and P.Ulmschneider 2003 (Springer).
24. Ambroz, P. 2001. "Large-Scale Transport of Magnetic Flux on the Sun". *Solar Physics* 198:253-277.
25. Andersen, T., A. Ardeberg, J. M. Beckers, R. Flicker, A. Gontcharov, N. C. Jessen, E. Mannery, M. Owner-Petersen, and H. Riewaldt. 2000. "The Proposed 50 Meter Swedish Extremely Large Telescope". edited by T.Andersen, A.Ardeberg, and R.Gilmozzi. 72.(European Southern Observatory).

26. Antia, H. M. and et al. 2001. "How Correlated are f-Mode Frequencies with Solar Activity?". edited by A.Wilson, ed. 27.(ESA).
27. Antia, H. M., S. M. Chitre, and M. J. Thompson. 2003. "On Variation of the Latitudinal Structure of the Solar Convection Zone". *Astronomy and Astrophysics* 399:329.
28. Antia, H. M. 2003. "Seismic Studies of Temporal Variations Inside the Sun". edited by S.C.Tripathy and eds. P.V.Venkatkrishnan. 13.(Alpha Science).
29. Antia, H. M., S. M. Chitre, and M. J. Thompson. 2003. "Seismic Study of Temporal Variations of Solar Magnetic Field". edited by O.Engvold, ed. 30.(International Astronomical Union).
30. Antia, H. M., S. Basu, F. Hill, R. Howe, R. W. Komm, and J. Schou. 2001. "Solar-cycle variation of the sound-speed asphericity from GONG and MDI data 1995-2000". *Monthly Notices of the Royal Astronomical Society* 327:1029-1040.
31. Antia, H. M., Sarbani Basu, J. Pintar, and B. Pohl. 2000. "Solar Cycle Variation in Solar f-Mode Frequencies and Radius". *Solar Physics* 192:459-468.
32. Antia, H. M. 2003. "Solar Interior and Seismology". edited by H.M.Antia, A.Bhatnagar, and P.Ulmschneider 2003 (Springer).
33. Antia, H. M. and et al. 2001. "Studying Asphericity in the Solar Sound Speed from MDI and GONG Data". edited by A.Wilson, ed. 45.(ESA).
34. Antia, H. M. 2002. "Subsurface magnetic fields from helioseismology". edited by H.Sawaya-Lacoste, ed. 71.(European Space Agency).
35. Antia, H. M. and S. Basu. 2000. "Temporal Variations of the Rotation Rate in the Solar Interior". *Astrophysical Journal* 541:442-448.
36. Antia, H. M. and S. Basu. 2000. "Temporal Variations of the Solar Rotation Rate at High Latitudes". *Astrophysical Journal Letters* 559:L67-L70.
37. Antia, H. M., S. M. Chitre, and M. J. Thompson. 2000. "The Sun's Acoustic Asphericity and Magnetic Fields in the Solar Convection Zone". *Astronomy and Astrophysics* 360:335-344.
38. Appourchaux, T., C. Frohlich, and B. et al Andersen. 2000. "Observational Upper Limits to Low-Degree Solar g-Modes". *Astrophysical Journal* 538:401-414.
39. Arge, C. N., E. Hildner, V. J. Pizzo, and J. W. Harvey. 2002. "Two solar cycles of nonincreasing magnetic flux". *Journal of Geophysical Research (Space Physics)* 107:1319.
40. Asensio Ramos, A., J. Trujillo Bueno, M. Bianda, R. Manso Sainz, and H. Uitenbroek. 2004. "Observation of the Molecular Zeeman Effect in the G Band". *Astrophysical Journal* 611:L61-L64.

41. Ashbourn, J. M. and L. C. Woods. 2004. "On the Support of Loop Prominences". *Astrophysical Journal* 602:1021-1023.
42. Asplund, M., N. Grevesse, A. J. Sauval, C. Allende Prieto, and D. Kiselman. 2004. "Line Formation in Solar Granulation. IV. [O1], O1 and OH Lines and the Photospheric O Abundance". *Astronomy and Astrophysics* 417:751-768.
43. Asplund, M., N. Grevesse, A. J. Sauval, C. Allende Prieto, and R. Blomme. 2005. "Line Formation in Solar Granulation. VI. [C1], C1, CH and C2 Lines and the Photospheric C Abundance". *Astronomy and Astrophysics* 431:693-705.
44. Aulanier, G., N. Srivastava, and S. F. Martin. 2000. "Model Prediction for an Observed Filament". *Astrophysical Journal* 543:447-456.
45. Aulanier, G., E. E. DeLuca, S. K. Antiochos, R. A. McMullen, and L. Golub. 2000. "The Topology and Evolution of the Bastille Day Flare". *Astrophysical Journal* 540:1126-1142.
46. Ayres, T. R. 2002. "Does the Sun Have a Full-Time COmosphere?". *Astrophysical Journal* 575:1104-1115.
47. Ayres, T. R. 2003. "Resolution of the COmosphere Controversy". edited by A.A.Pevtsov and eds. H.Uitenbroek. 431-442.(ASP).
48. Ayres, Thomas R. 2000. "The SOHO-Stellar Connection". *Solar Physics* 193:273-297.
49. Bachmann, K. T., H. Maymani, K. Nautiyal, and V. Te Velde. 2003. "An Analysis of Solar-Cycle Temporal Relationships among Activity Indicators". *Advances in Space Research* vol.34, 34, no. 2:274-281.
50. Bahcall, J. N., M. H. Pinsonneault, and S. Basu. 2001. "Solar Models: Current Epoch and Time Dependencies, Neutrinos, and Helioseismological Properties". *Astrophysical Journal* 555:990-1012.
51. Balasubramaniam, K. S. and T. Titus. 2003. "High Resolution Imaging Spectroscopy of Sunspots". edited by A.A.Pevtsov and eds. H.Uitenbroek. 259-266.(ASP).
52. Balasubramaniam, K. S. 2002. "Imaging Spectroscopy of a Sunspot: Thermal and Velocity Structure". *Astrophysical Journal* 575:553-570.
53. Balasubramaniam, K. S., E. B. Christopoulou, and H. Uitenbroek. 2004. "Promises and Pitfalls of Solar Hydrogen Alpha Zeeman Spectropolarimetry". *Astrophysical Journal* 606:1233-1238.
54. Balasubramaniam, K. S., A. A. Pevtsov, D. F. Neidig, and E. W. Cliver. 2005. "Sequential Chromospheric Brightenings Beneath a Transequatorial Halo Coronal Mass Ejection". *Astrophysical Journal* 630:1160-1167.

55. Balasubramaniam, K. S., E. B. Christopoulou, and H. Uitenbroek. 2003. "Simultaneous Chromospheric and Photospheric Spectropolarimetry of a Sunspot". edited by A.A.Pevtsov and eds. H.Uitenbroek. 227-234.(ASP).
56. Balasubramaniam, K. S. 2001. "Spectral Diagnostics of Chromospheres-- A Signature of Emergent Magnetic Flux". *Astrophysical Journal* 557:366-375.
57. Balasubramaniam, K. S. and M. S. Eydenberg. 2003. "Spectroscopy and Polarimetry of Sunspots". edited by J.Trujillo-Bueno and J.S.Almeida. 358-363.(Astronomical Society of the Pacific).
58. Balasubramaniam, K. S., A. A. Pevtsov, and J. W. Rogers. 2004. "Statistical Properties of Superpenumbral Whorls Around Sunspots". *Astrophysical Journal* 608:1148-1155.
59. Ballester, J. L., R. Oliver, and M. Carbonell. 2002. "The Near 160 Day Periodicity in the Photospheric Magnetic Flux". *Astrophysical Journal* 566:505-511.
60. Barban, C. and F. Hill. 2001. "A Comparison of GONG Intensity and Velocity Helioseismic Data". edited by F.Combes and eds. D.Barret. 197.(Editions de Physique).
61. Barban, C. and F. Hill. 2004. "Comparison of GONG and MDI Solar p-Mode Background". *Solar Physics* 220:399-402.
62. Barban, C., R. Howe, F. Hill, R. W. Komm, J. W. Leibacher, C. Toner, R. Bogart, D. Braun, D. Haber, B. Hindman, and C. Lindsey. 2002. "MDI and GONG Inferences of the Changing Solar Interior". edited by A.Wilson.(ESA).
63. Barban, C., M. J. Goupil, C. Veer-Menneret, R. Garrido, F. Kupka, and U. Heiter. 2003. "New grids of ATLAS9 atmospheres. II. Limb-darkening coefficients for the Strouvel;mgren photometric system for A-F stars". *Astronomy and Astrophysics* 405:1095-1105.
64. Barban, C., F. Hill, and S. Kras. 2004. "Simultaneous Velocity-Intensity Spectral and Cross-Spectral Fitting of Helioseismal Data". *Astrophysical Journal* 602:516-527.
65. Barban, C. and F. Hill. 2003. "Solar Oscillation Parameters: Simultaneous Velocity-Intensity Spectral and Cross-Spectral Fitting". edited by A.Wilson, ed. 223.(ESA).
66. Basu, S., J. Christensen-Dalsgaard, R. Howe, J. Schou, M. J. Thompson, F. Hill, and R. Komm. 2003. "A Comparison of Solar p-Mode Parameters from MDI and GONG: Mode Frequencies and Structure Inversions". *Astrophysical Journal* 591:432-445.
67. Basu, S. and H. M. Antia. 2003. "Changes in Solar Dynamics from 1995 to 2002". *Astrophysical Journal* 585:553-565.
68. Basu, S. and H. M. Antia. 2004. "Constraining Solar Abundances Using Helioseismology". *Astrophysical Journal Letters* 606:L85-L88.

69. Basu, S. and A. Mandel. 2004. "Does Solar Structure Vary with Solar Magnetic Activity?". *Astrophysical Journal* 617:L155-L158.
70. Basu, S. and H. M. Antia. 2003. "Helioseismic Estimates of Solar Structure and Dynamics". edited by S.C.Keller and R.M.Cavallo, eds. 250.(Astronomical Society of the Pacific).
71. Basu, Sarbani and H. M. Antia. 2001. "A study of possible temporal and latitudinal variations in the properties of the solar tachocline". *Monthly Notices of the Royal Astronomical Society* 324:498-508.
72. Basu, Sarbani and H. M. Antia. 2001. "A study of temporal variations of the tachocline". edited by A.Wilson, ed. 297.(ESA).
73. Basu, Sarbani and H. M. Antia. 2000. "Effect of Asymmetry in Peak Profiles on Solar Oscillation Frequencies". *Astrophysical Journal* 531:1088-1093.
74. Basu, Sarbani, M. H. Pinsonneault, and John N. Bahcall. 2000. "How Much Do Helioseismological Inferences Depend on the Assumed Reference Model?". *Astrophysical Journal* 529:1084-1100.
75. Basu, Sarbani, Brooke Simmons, and Richard Bogart. 2003. "Near-surface sound speed from ring diagrams". edited by H.Sawaya-Lacoste, ed. 227.(European Space Agency).
76. Basu, Sarbani and H. M. Antia. 2000. "Possible solar cycle variations in the convection zone". *Solar Physics* 192:449-458.
77. Basu, Sarbani and H. M. Antia. 2001. "Seismic investigation of changes in the rotation rate in the solar interior". edited by A.Wilson, ed. 179.(ESA).
78. Basu, Sarbani and H. M. Antia. 2003. "Temporal variations of solar structure". edited by H.Sawaya-Lacoste, ed. 231.(European Space Agency).
79. Basu, Sarbani and H. M. Antia. 2003. "Temporal variations in the rotation rate in the solar interior". edited by H.Sawaya-Lacoste, ed. 235.(European Space Agency).
80. Baudin, F., R. Samadi, M. J. Goupil, T. Appourchaux, C. Barban, P. Boumier, W. J. Chaplin, and P. Gouttebroze. 2005. "Inferred Acoustic Rates of Solar p Modes from Several Helioseismic Instruments". *Astronomy and Astrophysics* 433:349-356.
81. Bauschlicher, Charles W., Jr., R. S. Ram, Peter F. Bernath, C. G. Parsons, and D. Galehouse. 2001. "The A Σ^+ -X Σ^+ transition of CrH, Einstein coefficients, and an improved description of the A state". *Journal of Chemical Physics* 115:1312-1318.
82. Beck, John G. 2000. "A comparison of differential rotation measurements - (Invited Review)". *Solar Physics* 191:47-70.

83. Beckers, J. M. 2001. "A Seeing Monitor for Solar and Extended Object Observations". *Experimental Astronomy* 12:1-20.
84. Beckers, J. M., Z. Liu, and Z. Jin. 2003. "ATST Seeing Monitor: February 2002 Observations at Fuxian Lake". edited by S.L.Keil and S.V.Avakyan. 273-284.(SPIE).
85. Beckers, J. M. 2001. "Chromosphere: Spicules". edited by P.Murdin 2001 ed. 2001 (Institute of Physics Publishing).
86. Beckers, J. M. 2002. "Daytime Seeing Measurements for the Advanced Technology Solar Telescope". edited by J.Vernin, C.Mupoiz-Tupon, and Z.Benkhaldoun. 350.(Astronomical Society of the Pacific).
87. Beckers, J. M. 2000. "Extremely large multiple mirror telescopes". edited by T.Andersen, A.Ardeberg, and eds. R.Gilmozzi. 83.(Not Given).
88. Beckers, J. M., J. W. Briggs, S. Fletcher, S. Gregory, F. Hill, E. Leon, R. R. Radick, and L. W. Wilkins. 2003. "First Analysis of Extended Source Seeing Monitor Observations". edited by S.L.Keil, ed.(SPIE).
89. Beckers, J. M. 2000. "Multiconjugate adaptive optics: experiments in atmospheric tomography". edited by P.L.Wizinowich, ed. 1056-1065.(SPIE).
90. Beckers, J. M. 2001. "The daytime use of Adaptive Optics for solar and stellar Extremely Large Telescopes". edited by R.Ragazzoni, N.Hubin, and S.Esposito. 83.(European Southern Observatory).
91. Beckers, J. M. and A. Cacciani. 2001. "Using Laser Beacons for Daytime Adaptive Optics". *Experimental Astronomy* 11:133.
92. Beckers, Jacques M. and T. R. Rimmele. 2004. "Development of SCIDAR for solar observations". edited by S.Fineschi and M.A.Gummin. 195-206.(SPIE).
93. Bellot Rubio, L. R., B. Ruiz Cobo, and M. Collados. 2000. "Inversion of Stokes Profiles from Solar Magnetic Elements". *Astrophysical Journal* 535:475-488.
94. Bellot Rubio, L. R., M. Collados, B. Ruiz Cobo, and I. Rodríguez Hidalgo. 2000. "Oscillations in the Photosphere of a Sunspot Umbra from the Inversion of Infrared Stokes Profiles". *Astrophysical Journal* 534:989-996.
95. Bellot Rubio, L. R., B. Ruiz Cobo, and M. Collados. 2000. "Structure of Plage Flux Tubes from the Inversion of Stokes Spectra. I. Spatially Averaged Stokes I and V Profiles". *Astrophysical Journal* 535:489-500.
96. Benevolenskaya, E. E., A. G. Kosovichev, P. H. Scherrer, J. R. Lemen, and G. L. Slater. 2002. "Coronal Patterns of Activity from Yohkoh and SOHO/EIT Data". edited by P.C.Martens and D.Cauffman, eds. 329-333.(Pergamon).

97. Berdyugina, S. V. and W. C. Livingston. 2002. "Detection of the mercapto radical SH in the solar atmosphere". *Astronomy and Astrophysics* 387:L6-L9.
98. Berdyugina, S. V., C. Frutiger, S. K. Solanki, and W. Livingston. 2000. "Successful spectral synthesis of Zeeman-split molecular bands in sunspot spectra". *Astronomy and Astrophysics* 364:L101-L104.
99. Berdyugina, S. V., C. Frutiger, S. K. Solanki, and W. Livingston. 2001. "The Molecular Zeeman Effect and Solar Magnetic Fields". edited by M.Sigwarth, ed. 551-558.(ASP).
100. Berger, T. E. and A. M. Title. 2004. "Recent Progress in High-Resolution Observations". edited by T.Sakurai and T.Sekii. 95.(Astronomical Society of the Pacific).
101. Berger, T. E., R. E. Reid I. N. Rutledge, L. Bildsten, J. E. Gizis, J. Liebert, E. Martin, G. Basri, R. Jawardhana, A. Brandeker, T. A. Fleming, C. M. Johns-Krull, M. S. Giampapa, S. L. Hawley, and J. H. Schmidt. 2005. "The Magnetic Properties of an L Dwarf Derived from Simultaneous Radio, X-Ray, and H-Alpha Observations". *Astrophysical Journal* 627:960-973.
102. Berger, T. E. and B. W. Lites. 2002. "Weak-Field Magnetogram Calibration Using Advanced Stokes Polarimeter Flux-Density Maps". *Solar Physics* 208:181-210.
103. Berger, T. E. and B. W. Lites. 2003. "Weak-Field Magnetogram Calibration Using Advanced Stokes Polarimeter Flux Density Maps. II. SOHO/MDI Full-Disk Mode Calibration". *Solar Physics* 213:213-229.
104. Berrilli, F., D. Del Moro, A. Florio, and L. Santillo. 2005. "Segmentation of Photospheric and Chromospheric Solar Features". *Solar Physics* 228:81-95.
105. Berrilli, F., D. Del Moro, S. Russo, G. Consolini, and Th Straus. 2005. "Spatial Clustering of Photospheric Structures". *Astrophysical Journal* 632:677-683.
106. Bertello, L., C. J. Henney, R. K. Ulrich, F. Varadi, A. G. Kosovichev, P. H. Scherrer, T. Roca Cortés, S. Thiery, P. Boumier, A. H. Gabriel, and S. Turck-Chièze. 2000. "Comparison of Frequencies and Rotational Splittings of Solar Acoustic Modes of Low Angular Degree from Simultaneous MDI and GOLF Observations". *Astrophysical Journal* 535:1066-1077.
107. Bertello, L., F. Varadi, R. K. Ulrich, C. J. Henney, A. G. Kosovichev, R. A. García, and S. Turck-Chièze. 2000. "Identification of Solar Acoustic Modes of Low Angular Degree and Low Radial Order". *Astrophysical Journal* 537:L143-L146.
108. Bertello, L., A. G. Kosovichev, A. G. Brun, S. Couvidat, C. J. Henney, R. K. Ulrich, and F. Varadi. 2001. "Low-Degree Low-Order Solar p-Modes as Seen by GOLF Onboard SOHO". *Solar Physics* 200:361.
109. Bhatnagar, A. and W. C. Livingston. 2005/7. *Fundamentals of Solar Astronomy*. 2005 vols.: World Scientific.

110. Bhattacharya, J., E. Pereda, R. Kariyappa, and P. P. Kanjilal. 2001. "Application of Non-Linear Analysis to Intensity Oscillations of the Chromospheric Bright Points". *Solar Physics* 199:267-290.
111. Bianda, M. 2003/12. *Observations of Scattering Polarization and the Hanle Effect in the Sun's Atmosphere.*: (PhD Thesis) Cuvillier Verlag (Gottingen, Germany). 212 pp.
112. Bigazzi, Alberto and Alexander A. Ruzmaikin. 2003. "The magnetic field in the convection zone". edited by H.Sawaya-Lacoste, ed. 239.(European Space Agency).
113. Bilenko, I. A. 2002. "Coronal Holes and the Solar Polar Field Reversal". *Astronomy and Astrophysics* 396:657-666.
114. Bilenko, I. A. 2004. "Longitudinal Distribution of Coronal Holes During 1976-2002". *Solar Physics* 221:261-282.
115. Bloomfield, D. S., R. T. McAteer, B. W. Lites, P. G. Judge, and M. Mathioudakis. 2004. "Oscillatory Signatures Above Quiet Sun Magnetic Elements". edited by H.Lacoste. 51.(European Space Agency).
116. Bloomfield, D. S., R. T. McAteer, M. Mathioudakis, D. R. Williams, and F. P. Keenan. 2004. "Propagating Waves and Magnetohydrodynamic Mode Coupling in the Quiet Sun". *Astrophysical Journal* 604:936-942.
117. Bloomfield, D. S., R. T. McAteer, B. W. Lites, P. G. Judge, M. Mathioudakis, and F. P. Keenan. 2004. "Wavelet Phase Coherence Analysis: Application to a Quiet-Sun Magnetic Element". *Astrophysical Journal* 617:623-632.
118. Bogart, R. S., Tian, K., Hill, F., Wampler, S., Martens, P., Davey, A., Gurman, J. B., and Dimitoglou, G. 2002. "Virtual Solar Observatory: Design Proposal". -26 pp.
119. Boyer, R. and D. Heristchi. 2004. "A Method for Rebuilding Blended Solar Lines". *Solar Physics* 223:27-38.
120. Brault, J. W., L. R. Brown, C. Chackerian, R. Freedman, A. Predoi-Cross, and A. S. Pine. 2003. "Self-broadened C^{12} - O^{16} line shapes in the v=2<-0 band". *Journal of Molecular Spectroscopy* 222:220-239.
121. Braun, D. C. and C. Lindsey. 2000. "Helioseismic Holography of Active-Region Subphotospheres - (Invited Review)". *Solar Physics* 192:285-305.
122. Braun, D. C. and C. Lindsey. 2003. "Helioseismic imaging of the farside and the interior". edited by H.Sawaya-Lacoste, ed. 15.(European Space Agency).
123. Braun, D. C., A. C. Birch, and C. Lindsey. 2004. "Local Helioseismology of Near-Surface Flows". edited by D.Danesy. 337-340.(European Space Agency).

124. Braun, D. C. and C. Lindsey. 2000. "Phase-sensitive Holography of Solar Activity". *Solar Physics* 192:307-319.
125. Braun, D. C. and C. Lindsey. 2001. "Seismic Imaging of the Far Hemisphere of the Sun". *Astrophysical Journal* 560:L189-L192.
126. Braun, D. C. and J. Toomre. 2003. "Solar Turbulence and Magnetism Studied Within a Rotating Convective Spherical Shell". edited by S.Turcote, S.C.Keller, and eds. R.M.Cavallo. 134.(Astronomical Society of the Pacific).
127. Brown, L. R., D. Chris Benner, J. P. Champion, V. M. Devi, L. Fejard, R. R. Gamache, T. Gabard, J. C. Hilico, B. Lavorel, M. Loete, G. C. Mellau, A. Nikitin, A. S. Pine, A. Predoi-Cross, C. P. Rinsland, O. Robert, R. L. Sams, M. A. H. Smith, S. A. Tashkun, and V. G. Tyuterev. 2003. "Methane line parameters in HITRAN". *Journal of Quantitative Spectroscopy and Radiative Transfer* 82:219-238.
128. Buechner, J. and A. A. eds. Pevtsov. 2003/10. 2003 vols. Vol. 10: Elsevier.
129. Burnette, A. B., R. C. Canfield, and A. A. Pevtsov. 2004. "Photospheric and Coronal Currents in Solar Active Regions". *Astrophysical Journal* 606:565-570.
130. Burtseval, O., A. Serebryanskiy, S. Kholikov, D. Y. Chou, and and the Ton Team. 2004. "On Lifetimes of High-l Solar p-Modes: TON Data". edited by D.Danesy. 353-355.(European Space Agency).
131. Cacciani, A., M. Dolci, S. M. Jefferies, W. Finsterle, E. Fossat, C. Sigismondi, L. Cesario, L. Bertello, and F. Varadi. 2003. "A Two Color Pupil Imaging Method to Detect Stellar Oscillations". *Memorie della Societa Astronomica Italiana Supplement* 2:172-176.
132. Cacciani, A., S. M. Jefferies, W. Finsterle, C. Giebink, A. Knox, P. Rapex, B. Subrizi, and L. Cesario. 2003. "Mapping the Sound Speed Structure of the Sun's Atmosphere". *Memorie della Societa Astronomica Italiana Supplement* 2:190-193.
133. Caccin, B. and V. Penza. 2002. "Line Ratios and Temperature Structure in the Deep Photosphere". *Il Nuovo Cimento* 25, no. 5-6:573-579.
134. Cadavid, A. C., J. K. Lawrence, D. P. McDonald, and A. Ruzmaikin. 2005. "Independent Global Modes of Solar Magnetic Field Fluctuations". *Solar Physics* 226:359-376.
135. Cao, W. D., B. X. Ye, and W. Livingston. 2001. "The Observation and Study of Two Prominence Events in the Infrared". edited by P.Brekke, B.Fleck, and J.B.Gurman. 257.(Kluwer Academic).
136. Casini, R., A. Lopez Ariste, S. Tomczyk, and B. W. Lites. 2003. "Magnetic Maps of Prominences from Full Stokes Analysis of the He I D3 Line". *Astrophysical Journal Letters* 598:L67-L70.

137. Cauzzi, G., A. Falchi, and R. Falciani. 2000. "Network and internetwork: a compared multiwavelength analysis". *Astronomy and Astrophysics* 357:1093-1104.
138. Cauzzi, G., A. Falchi, and R. Falciani. 2001. "Search for Microflaring Activity in the Magnetic Network". *Solar Physics* 199:47-60.
139. Ceja, J. A. and S. R. Walton. 2005. "Nonlinear Least-Squares Analysis of Stokes Profiles". *Solar Physics* 226:17-36.
140. Chae, J., Y. Moon, and A. A. Pevtsov. 2004. "Observational Evidence of Magnetic Flux Submergence in Flux Cancellation Sites". *Astrophysical Journal Letters* 602:L65-L68.
141. Chae, J., S. F. Martin, H. S. Yun, J. Kim, S. Lee, P. R. Goode, T. Spirock, and H. Wang. 2001. "Small Magnetic Bipoles Emerging in a Filament Channel". *Astrophysical Journal* 548:497-507.
142. Chang, H. Y. 2002. "Spectral Behavior of Solar Oscillations Modulated by Magnetic Variation". *Astronomy and Astrophysics* 390:359-362.
143. Chaplin, W. J., Y. Elsworth, G. R. Isaak, and R. New. 2001. "Helioseismic signatures of localized structural discontinuities in BiSON and GONG data". edited by A.Wilson, ed. 79.(ESA).
144. Chaplin, W. J., Y. Elsworth, G. R. Isaak, R. New, and T. Appourchaux. 2001. "Probing the solar cycle: a comparative and complementary analysis of GONG BiSON and VIRGO/LOI eigenfrequency shifts". edited by A.Wilson, ed. 83.(ESA).
145. Chaplin, W. J., T. Appourchaux, Y. Elsworth, G. R. Isaak, and R. New. 2001. "The phenomenology of solar-cycle-induced acoustic eigenfrequency variations: a comparative and complementary analysis of GONG, BiSON and VIRGO/LOI data". *Monthly Notices of the Royal Astronomical Society* 324:910-916.
146. Chitre, S. M. and H. M. Antia. 2003. "Seismic Sun". edited by B.N.Dwivedi, ed. 2003 (Astronomical Society of the Pacific).
147. Chou, D. and A. Serebryanskiy. 2002. "Searching for the Signature of the Magnetic Fields at the Base of the Solar Convection Zone with Solar Cycle Variations of p-Mode Travel Time". *Astrophysical Journal Letters* 578:L157-L160.
148. Chou, D. Y. and O. Ladenkov. 2005. "Evolution of Solar Subsurface Meridional Flows in the Declining Phase of Cycle 23". *Astrophysical Journal* 630:1206-1212.
149. Chou, Dean Yi, Ming Tsung Sun, and Hsiang Kuang Chang. 2000. "A Study of Sunspots with Phase Time and Travel Time of P-Mode Waves in Acoustic Imaging". *Astrophysical Journal* 532:622-627.
150. Chou, Dean Yi. 2000. "Acoustic Imaging of Solar Active Regions - (Invited Review)". *Solar Physics* 192:241-259.

151. Chou, Dean Yi and Thomas L. Duvall, Jr. 2000. "Phase Time and Envelope Time in Time-Distance Analysis and Acoustic Imaging". *Astrophysical Journal* 533:568-573.
152. Choudhary, D. P., K. S. Balasubramaniam, and Y. Suematsu. 2004. "Asymmetric Stokes-V Profiles at the Penumbral Boundary of a Sunspot". edited by T.Sakurai and T.Sekii. 137.(Astronomical Society of the Pacific).
153. Choudhary, D. P. and R. L. Moore. 2003. "Filament Eruption Without Coronal Mass Ejection". *Geophysical Research Letters* 30:2107.
154. Choudhary, D. P. and S. Gosain. 2003. "Magnetic and Velocity Fields of Active Regions". *Astronomische Nachrichten* 324, no. 4:362-363.
155. Choudhary, D. P. and S. Gosain. 2003. "Study of bright points in the off-band Halpha filtergrams of active regions". *Astronomische Nachrichten* 324:367-368.
156. Choudhary, D. P. and S. Gosain. 2002. "Three Dimensional Structure of Active Regions". *Bulletin of the Astronomical Society of India* 30:583-585.
157. Choudhary, Debi Prasad, P. Venkatakrishnan, and Sanjay Gosain. 2002. "On Magnetic Flux Imbalance in Solar Active Regions". *Astrophysical Journal* 573:851-856.
158. Christopoulou, E. B., A. A. Georgikilas, and S. Koutchmy. 2002. "Evaluation of a Method for the Resolution Improvement of Near Limb Images". *Il Nuovo Cimento* 25, no. 5-6:631-637.
159. Christopoulou, E. B., A. A. Georgakilas, and S. Koutchmy. 2001. "Fine Structure of the Magnetic Chromosphere: Near-Limb Imaging, Data Processing and Analysis of Spicules and Mottles". *Solar Physics* 199:61-80.
160. Christopoulou, E. B., A. A. Georgakilas, and S. Koutchmy. 2000. "Oscillations and running waves observed in sunspots". *Astronomy and Astrophysics* 354:305-314.
161. Christopoulou, E. B., A. A. Georgakilas, and S. Koutchmy. 2001. "Oscillations and Running Waves Observed in Sunspots III: Multilayer Study". *Astronomy and Astrophysics* 375:617-628.
162. Christopoulou, E. B., A. A. Georgakilas, and O. Koutchmy. 2002. "The Evershed Flow from Simultaneous Chromospheric and Photospheric Observations". *Il Nuovo Cimento* 25, no. 5-6:587-593.
163. Christopoulou, E. B., A. Skodras, A. A. Georgakilas, and S. Koutchmy. 2003. "Wavelet Analysis of Umbral Oscillations". *Astrophysical Journal* 591:416-431.
164. Clark, R., C. Toner, F. Hill, K. D. Hanna, G. Ladd, R. Komm, R. Howe, I. Gonzalez-Hernandez, and S. Kholikov. 2004. "An Automated Image Rejection System for GONG". edited by D.Danesy. 381-383.(European Space Agency).

165. Clark, R., J. W. Harvey, F. Hill, and C. Toner. 2003. "Correcting GONG+ Magnetograms for Instrumental Non-Uniformities". edited by A.Wilson, ed. 251-.(ESA).
166. Consolini, G., F. Berilli, A. Florio, E. Pietropaolo, and L. A. Smaldone. 2003. "Information Entropy in Solar Atmospheric Fields. I. Intensity Photospheric Structures". *Astronomy and Astrophysics* 402:1115-1127.
167. Cook, J. W., J. S. Newmark, and R. C. Altrock. 2005. "Comparison of the Sacramento Peak Fe XIV Index with a Model Index Computed from Differential Emission Measure Maps". *Astrophysical Journal* 633:518-527.
168. Corbard, T., M. Dikpati, P. A. Gilman, and M. J. Thompson. 2002. "Effect of subsurface radial differential rotation on flux-transport solar dynamo". edited by A.Wilson, ed. 75.(European Space Agency).
169. Corbard, T., C. Toner, F. Hill, K. D. Hanna, D. Haber, B. Hindman, and R. Bogart. 2003. "Ring Diagram Analysis with GONG++". edited by A.Wilson, ed. 255.(ESA).
170. Cottaz, C., G. Tarrago, I. Kleiner, and L. R. Brown. 2001. "Assignments and Intensities of $\text{NH}_{3(3n+2)2(4n+2)}$ and $\text{NH}_{3(4n+2)2(2n+1)}$ Regions". *Journal of Molecular Spectroscopy* 209:30-49.
171. Cottaz, C., I. Kleiner, G. Tarrago, L. R. Brown, J. S. Margolis, R. L. Poynter, H. M. Pickett, T. Fouchet, P. Drossart, and E. Lellouch. 2000. "Line Positions and Intensities in the $2\nu_2/\nu_4$ Vibrational System of 14NH_3 near 5-7 micron". *Journal of Molecular Spectroscopy* 203:285.
172. Couvidat, S., R. A. García, S. Turck-Chieze, T. Corbard, C. J. Henney, and S. J. Jimenez-Reyes. 2003. "The Rotation of the Deep Solar Layers". *Astrophysical Journal* 597:L77-L79.
173. Dalrymple, N. and Rimmele, T. R. 2003. -ii, 3 pp.
174. Dalrymple, N. 2003. -iii, 4 pp.
175. Dalrymple, N., J. Oschmann, and R. Hubbard. 2004. "ATST Enclosure: Seeing Performance, Thermal Modeling, and Error Budgets". in *SPIE vol.5497, Modeling and Systems Engineering for Astronomy*, edited by S.Craig and M.Cullum. 497-507.(SPIE).
176. Dalrymple, N. 2003. "Cooling Schemes for Secondary and Transfer Optics". -iii, 7 pp.
177. Dalrymple, N. 2003. "Heat Stop Concepts". -iii, 7 pp.
178. Dalrymple, N. E. 2002. -9 pp.

179. Dalrymple, N. E. 2002. -9 pp.
180. Dalrymple, N. E. 2003. "Enclosure Seeing". -17 pp.
181. Dalrymple, N. E., M. Bianda, and P. H. Wiborg. 2003. "Fast Flat Fields from Scanning Extended Sources". *Publications of the Astronomical Society of the Pacific* 115:628-634.
182. Dara, H. C., S. Koutchmy, T. G. Zachariadis, and C. E. Alissandrakis. 2001. "Brightness Variations of MgIb Bright Features". *Solar Physics* 198:313-324.
183. De Toma, G., O. R. White, G. A. Chapman, S. R. Walton, D. G. Preminger, A. M. Cookson, and K. L. Harvey. 2001. "Differences in the Sun's Radiative Output in Cycles 22 and 23". *Astrophysical Journal Letters* 549:L131-L134.
184. de Toma, Giuliana, Oran R. White, and Karen L. Harvey. 2000. "A Picture of Solar Minimum and the Onset of Solar Cycle 23. I. Global Magnetic Field Evolution". *Astrophysical Journal* 529:1101-1114.
185. DeForest, C., D. F. Elmore, M. P. Bradford, J. Elrod, and D. L. Gilliam. 2004. "Stereoscopic Spectroscopy for Efficient Imaging and Magnetography". *Astrophysical Journal* 616:600-616.
186. Del Moro, D. 2004. "Solar Granulation Properties Derived from Three Different Time Series". *Astronomy and Astrophysics* 428:1007-1015.
187. Demidov, M. L., R. M. Veretsky, and V. S. Peshcherov. 2003. "Near-Limb Observations of Solar Magnetic Fields and Some Issues of Their Interpretation". edited by J. Trujillo-Bueno and J. Sanchez Almeida. 352-357.(Astronomical Society of the Pacific).
188. Denker, C., D. Mascarinas, Y. Xu, W. Cao, G. Yang, H. Wang, P. R. Goode, and T. R. Rimmele. 2005. "High-Spatial Resolution Imaging Combining High-Order Adaptive Optics, Frame Selection, and Speckle Masking Reconstruction". *Solar Physics* 227:217-230.
189. Denker, C., T. J. Spirock, S. M. Jefferies, H. Chen, W. H. Marquette, H. Wang, and P. R. Goode. 2001. "Multi-Wavelength Observations of Solar Fine Structure with High Spatial Resolution". edited by R.J.Garcia Lopez and eds. R.Rebolo. 607.(Astronomical Society of the Pacific).
190. Denker, C., L. Didkovsky, W. H. Marquette, P. R. Goode, and T. R. Rimmele. 2003. "Seeing Characteristic at a Lake-Site Observatory". edited by A.A.Pevtsov and eds. H.Uitenbroek. 23-30.(ASP).
191. DeRosa, M. L., Peter A. Gilman, and Geoffrey C. Tomre. 2002. "Solar Multiscale Convection and Rotation Gradients Studied in Shallow Spherical Shells". *Astrophysical Journal* 581:1356-1374.
192. Devi, V. M., D. C. Benner, M. A. H. Smith, C. P. Rinsland, S. W. Sharpe, and R. L. Sams. 2004. "A multispectrum analysis of the 2@n"2 spectral region of H^1^2C^1^4N: intensities,

- broadening and pressure-shift coefficients". *Journal of Quantitative Spectroscopy and Radiative Transfer* 87:339-366.
193. Devi, V. M., D. C. Benner, M. A. H. Smith, and C. P. Rinsland. 2003. "Nitrogen broadening and shift coefficients in the 4.2-4.5-@mm bands of CO"2". *Journal of Quantitative Spectroscopy and Radiative Transfer* 76:289-307.
194. Didkovsky, L. V., A. I. Dolgushyn, W. H. Marquette, J. Nenow, J. R. Varsik, P. R. Goode, S. Hegwer, D. Ren, S. Fletcher, K. Richards, T. R. Rimmele, C. Denker, and H. Wang. 2003. "High-Order Adaptive Optical System for Big Bear Solar Observatory". edited by S.L.Keil and eds. S.V.Avakyan. 630-639.(SPIE).
195. Didkovsky, L. V., C. Denker, P. R. Goode, H. Wang, and T. R. Rimmele. 2003. "High-Order Adaptive Optical System for Big Bear Solar Observatory". *Astronomische Nachrichten* 324:297.
196. Dikpati, M., G. De Toma, P. A. Gilman, C. N. Arge, and O. R. White. 2004. "Diagnostics of Polar Field Reversal in Solar Cycle 23 Using a Flux Transport Dynamo Model". *Astrophysical Journal* 601:1136-1151.
197. Dikpati, Mausumi, Thierry Corbard, Michael J. Thompson, and Peter A. Gilman. 2002. "Flux Transport Solar Dynamos with Near-Surface Radial Shear". *Astrophysical Journal* 575:L41-L45.
198. Donea, A. C. and C. Lindsey. 2005. "Seismic Emission From the Solar Flares of 2003 October 28 and 29". *Astrophysical Journal* 630:1168-1183.
199. Donea, A. C., C. Lindsey, and D. C. Braun. 2000. "Stochastic Seismic Emission from Acoustic Glories and the Quiet Sun". *Solar Physics* 192:321-333.
200. Dorotovic, I., M. Sobotka, P. N. Brandt, and G. W. Simon. 2002. "Evolution and motions of small-scale photospheric structures near a large solar pore". *Astronomy and Astrophysics* 387:665-671.
201. Dorotovic, I., M. Sobotka, P. N. Brandt, and G. W. Simon. 2002. "Evolution of Small-Scale Structures in and Around a Large Solar Pore". edited by A.Wilson, ed. 435-438.(European Space Agency).
202. Dorotovic, I., M. Sobotka, P. N. Brandt, and G. W. Simon. 2002. "Temporal Evolution and Motions of Photospheric Fine Structure in the Vicinity of a Solar Pore (in Slovak)". edited by I.Dorotovic, ed. 46-51.(Slovak Central Observatory).
203. Doyle, J. G., D. Jevremovic, C. I. Short, P. H. Hauschildt, W. Livingston, and I. Vince. 2001. "Solar Mn I 5432/5395 Å line formation explained". *Astronomy and Astrophysics* 369:L13-L16.
204. Dulick, M., C. W. Bauschlicher, Jr., Adam Burrows, C. M. Sharp, R. S. Ram, and Peter Bernath. 2003. "Line Intensities and Molecular Opacities of the FeH F

- ⁴Δ_i-X ⁴Δ_i Transition". *Astrophysical Journal* 594:651-663.
205. Dunn, R. B., G. W. Simon, R. N. Smartt, and J. B. Zirker. 2000. "Obituary: John W. Evans". *Solar Physics* 191:227-229.
206. Durney, B. R. 2000. "On the Differences Between Odd and Even Cycles". *Solar Physics* 196:421.
207. Durney, B. R. 2004. "The Contribution of Sound Waves and Instabilities to the Penetration of the Solar Differential Rotation Below the Convection Zone". *Solar Physics* 219:231-250.
208. Durney, B. R. 2003. "The Energy Equation in the Lower Solar Convection Zone". *Solar Physics* 217:1-38.
209. Durney, Bernard R. 2001. "Approximate Isocontours For The Solar Angular Velocity In The Convection Zone". *Solar Physics* 202:201-228.
210. Durney, Bernard R. 2000. "The Energy Lost by Differential Rotation in the Generation of the Solar Toroidal Magnetic Field". *Solar Physics* 197:215-226.
211. Durrant, C. J. and J. Mccloughan. 2004. "A method of evolving synoptic maps of the solar magnetic field, II. Comparison with observations of the polar fields". *Solar Physics* 219:55-78.
212. Durrant, C. J., J. Turner, and P. R. Wilson. 2002. "Bipolar Magnetic Fields Emerging at High Latitudes". *Solar Physics* 211:103-124.
213. Durrant, C. J. and P. R. Wilson. 2003. "Observations and Simulations of the Polar Field Reversals in Cycle 23". *Solar Physics* 214:23-39.
214. Durrant, C. J. 2002. "Polar Magnetic Fields-- Filaments and the Zero-Flux Contour". *Solar Physics* 211:83-102.
215. Durrant, C. J., J. M. Kress, and P. R. Wilson. 2001. "The Evolution of Trailing Plumes from Active Regions". *Solar Physics* 201:57-69.
216. Durrant, C. J., J. P. Turner, and P. R. Wilson. 2004. "The Mechanism Involved in the Reversals of the Sun's Polar Magnetic Fields". *Solar Physics* 222:345-362.
217. Duvall, T. L., J. W. Harvey, A. G. Kosovichev, and Z. eds. Svestka. 2001/6. 2001 vols.: Kluwer.
218. Eff-Darwich, A. and S. G. Korzennik. 2003. "A new upper limit to the temporal variation of the rotation rate of the tachocline between 1994 and 2002". edited by H.Sawaya-Lacoste, ed. 267.(European Space Agency).

219. Eff-Darwich, A., S. G. Korzennik, S. J. Jimenez-Reyes, and F. P. Hernandez. 2002. "An Upper Limit on the Temporal Variations of the Solar Interior Stratification". *Astrophysical Journal* 580:574-578.
220. Eff-Darwich, A., S. G. Korzennik, and S. J. Jiménez-Reyes. 2002. "Inversion of the Internal Solar Rotation Rate". *Astrophysical Journal* 573:857-863.
221. Eff-Darwich, A., F. Pérez Hernández, and S. G. Korzennik. 2001. "Sensitivity of oscillation frequencies to temporal variations in the tachocline region". edited by A.Wilson, ed. 289.(ESA).
222. Eff-Darwich, Antonio and Sylvain G. Korzennik. 2000. "Response of the radial stratification at the base of the convection zone to the activity cycle". *Solar Physics* 193:365-371.
223. Efstathiou, G. 2004. "Myths and truths concerning estimation of power spectra: the case for a hybrid estimator". *Monthly Notices of the Royal Astronomical Society* 349:603-626.
224. Engvold, O. and J. W. eds. Harvey. 2001/12. 2001 vols.: Kluwer.
225. Engvold, O., H. Jakobsson, E. Tandberg-Hanssen, J. B. Gurman, and D. Moses. 2001. "On the Nature of Prominence Absorption and Emission in Highly Ionized Iron and in Neutral Hydrogen". *Solar Physics* 202:293-308.
226. Engvold, O., J. Harvey, and C. J. eds. Schrijver. 2000/5. *The Physics of the Solar Corona and Transition Region*. Edited by O.Engvold, ed. 2000 vols.: Kluwer.
227. Erdelyi, R. 2002. "Effects of the atmosphere and of sub-surface flows on solar oscillation modes (Invited review)". edited by A.Wilson, ed. 869.(European Space Agency).
228. Erofeev, D. V. and A. V. Erofeeva. 2000. "On the relationship between polar faculae and large-scale magnetic field". *Solar Physics* 191:281-292.
229. Erofeev, D. V. 2001. "The Relationship Between Solar Activity and the Large-Scale Axisymmetric Magnetic Field". *Solar Physics* 198:31-50.
230. Eydenberg, M. S., K. S. Balasubramaniam, and A. Lopez Ariste. 2005. "PCA-Interpolation Methods for Inversion of Solar Stokes Profiles: I. Inversion of Photospheric Profiles". *Astrophysical Journal* 619:1167-1188.
231. Eydenberg, M. S. 2003/8. *The Inversion of Solar Stokes Profiles Using Principal Component Analysis. PhD Thesis* . 2003 vols.: New Mexico Institute of Mining and Technology.
232. Fainshtein, V. G., A. V. Khotilovich, and G. V. Rudenko. 2003. "Some Properties of Solar Magnetic Fields as Deduced From NSO/KP Data and From Calculations". *Solar Physics* 216:5-20.

233. Fang, C., Y. X. Zhang, M. D. Ding, and W. C. Livingston. 2001. "Cyclic Variation in Solar Temperature Minimum Region". edited by P.Brekke, B.Fleck, and J.B.Gurman. 135.(Kluwer Academic).
234. Fang, C., Y. X. Zhang, M. D. Ding, and W. C. Livingston. 2002. "Cyclic variations in the solar lower atmosphere". *Advances in Space Research* vol.29 29:1947-1950.
235. Fang, C., M. Ding, J. C. Henoux, and W. C. Livingston. 2001. "Semi-Empirical Model of Solar Plages". *Science in China, Series A* 44, no. 4.
236. Fedchak, J. A., E. A. den Hartog, J. E. Lawler, P. Palmeri, P. Quinet, and E. Biémont. 2000. "Experimental and Theoretical Radiative Lifetimes, Branching Fractions, and Oscillator Strengths for Lu I and Experimental Lifetimes for Lu II and Lu III". *Astrophysical Journal* 542:1109-1118.
237. Feder, T. 2002. "NSO Plans Large Telescopes, Splits from Nighttime Astronomy". *Physics Today* 55, no. 9:29-30.
238. Féjard, L., J. P. Champion, J. M. Jouvard, L. R. Brown, and A. S. Pine. 2000. "The Intensities of Methane in the 3-5 μm Region Revisited". *Journal of Molecular Spectroscopy* 201:83-94.
239. Filippov, Boris and Serge Koutchmy. 2000. "On the origin of the prolate solar chromosphere". *Solar Physics* 196:311-320.
240. Finsterle, W., S. M. Jefferies, A. Cacciani, P. Rapex, and S. W. McIntosh. 2004. "Helioseismic Mapping of the Magnetic Canopy in the Solar Chromosphere". *Astrophysical Journal Letters* 613:L185-L188.
241. Finsterle, W., S. M. Jefferies, A. Cacciani, P. Rapex, C. Giebink, A. Knox, and V. DiMartino. 2004. "Seismology of the Solar Atmosphere". *Solar Physics* 220:317-331.
242. Flaud, J. M., C. Piccolo, B. Carli, A. Perrin, L. H. Coudeat, J. L. Teffo, and L. R. Brown. 2003. "Molecular Line Parameters for the MIPAS (Michelson Interferometer for Passive Atmospheric Sounding) Experiment". *Atmospheric and Oceanic Optics* 16:173-182.
243. Fleck, B. and C. U. Keller. 2003. "Solar Observing Facilities". edited by B.N.Dwivedi, ed. 2003 (Cambridge Univ. Press).
244. Fleming, Thomas A., Mark S. Giampapa, and Jürgen H. M. M. Schmitt. 2000. "An X-Ray Flare Detected on the M8 Dwarf VB 10". *Astrophysical Journal* 533:372-377.
245. Fleming, Thomas A., M. S. Giampapa, and David. Garza. 2003. "The Quiescent Corona of VB 10". *Astrophysical Journal*:982-986.
246. Foukal, P. and L. Milano. 2001. "A Measurement of the Quiet Network Contribution to Solar Irradiance Variation". *Journal of Geophysical Research* 28:883.

247. Frohlich, C. and J. Lean. 2004. "Solar Radiative Output and its Variability: Evidence and Mechanisms". *Astronomy and Astrophysics Review* 12, no. 4:273-320.
248. Gaizauskas, V., D. H. Mackay, and K. L. Harvey. 2001. "Evolution of Solar Filament Channels Observed during a Major Poleward Surge of Photospheric Magnetic Flux". *Astrophysical Journal* 558:888-902.
249. Gaizauskas, V. 2002. "Formation of a Switchback During the Rising Phase of Solar Cycle 21". *Solar Physics* 211:179-188.
250. Gallagher, P. T. 2000/3. 2000 vols.: Queen's University of Belfast (N. Ireland).
251. Gallagher, P. T., Y. J. Moon, and H. Wang. 2002. "Active-Region Monitoring and Flare Forecasting". *Solar Physics* 209:171-183.
252. Gallagher, P. T., K. J. Phillips, J. Lee, F. P. Keenan, and D. J. Pinfield. 2001. "The Extreme-Ultraviolet Structure and Properties of a Newly Emerged Active Region". *Astrophysical Journal* 558:411-422.
253. Gallagher, Peter T., David R. Williams, Kenneth J. H. Phillips, Mihalis Mathioudakis, Raymond N. Smartt, and Francis P. Keenan. 2000. "Multi-wavelength observations of the 1998 September 27 flare spray". *Solar Physics* 195:367-380.
254. Gandorfer, A. 2003. "The Second Solar Spectrum in the UV". in *ASP Conference Series Vol. 307, Solar Polarization.*, edited by J.Trujillo-Bueno and S.Almeida. 399-406.(Astronomical Society of the Pacific).
255. Gandorfer, A. M., H. P. Povel, P. Steiner, F. Aebersold, U. Egger, A. Feller, D. Gisler, S. Hagenbuch, and J. O. Stenflo. 2004. "Solar Polarimetry in the Near UV with the Zurich Imaging Polarimeter ZIMPOL II*". *Astronomy and Astrophysics* 422:703-708.
256. Gandorfer, Achim M. 2003. "Imaging vector polarimetry at the 10⁻⁵ level in the visible and near ultraviolet part of the solar spectrum". edited by S.Fineschi, ed. 89-99.(SPIE).
257. Garcia, R. A., T. Corbard, W. J. Chaplin, S. Couvidat, A. Eff-Darwich, S. J. et al Jimenez-Reyes, and . 2004. "About the Rotation of the Solar Radiative Interior". *Solar Physics* 220:269-285.
258. Garcia, R. A., A. Eff-Darwich, S. G. Korzennik, S. Couvidat, C. J. Henney, and S. Turck-Chieze. 2003. "Analysis of rotational frequency splittings sensitive to the rotation rate of the solar core". edited by H.Sawaya-Lacoste, ed. 271.(European Space Agency).
259. Garcia, R. A., S. J. Jimenez-Reyes, S. Turck-Chieze, J. Ballot, and C. J. Henney. 2004. "Solar Low-Degree p-Mode Parameters After 8 Years of Velocity Measurements with SOHO". edited by D.Danesy. 436-439.(European Space Agency).

260. García, R. A., C. Régulo, S. Turck-Chièze, L. Bertello, A. G. Kosovichev, A. S. Brun, S. Couvidat, C. J. Henney, M. Lazrek, R. K. Ulrich, and F. Varadi. 2001. "Low-Degree Low-Order Solar p Modes As Seen By GOLF On board SOHO". *Solar Physics* 200:361-379.
261. Gary, D. E. and C. U. Keller. 2004/11. 1st ed. 2004 vols.: Kluwer Academic Publishers.
262. Gary, D. E. and C. U. Keller. 2003. "Site Testing Issues for the Frequency Agile Solar Radiotelescope". edited by S.L.Keil, ed. 523-530.(SPIE).
263. Gary, G. A., K. S. Balasubramaniam, and M. Sigwarth. 2003. "Multiple Etalon Systems for the Advanced Technology Solar Telescope". in *Innovative Telescopes and Instrumentation for Solar Physics: Workshop Proceedings*, edited by S.L.Keil, ed. 252-272.(SPIE).
264. Gavryusev, V., E. Gavryuseva, and M. P. di Mauro. 2001. "Rotational splitting and internal dynamics of the Sun". edited by A.Wilson, ed. 515-518.(ESA).
265. Gavryusev, V. and E. Gavryuseva. 2001. "Solar oscillations as they are seen from minimum to maximum of solar activity". edited by A.Wilson, ed. 57.(ESA).
266. Gavryusev, V. and E. Gavryuseva. 2001. "The correlations in the power of radial and dipole solar p-modes". edited by A.Wilson, ed. 87.(ESA).
267. Gavryuseva, E. and V. Gavryusev. 2002. "Acoustic power distribution through solar cycle". edited by A.Wilson, ed. 1057.(European Space Agency).
268. Georgakilas, A. A., E. B. Christopoulou, A. Skodras, and S. Koutchmy. 2003. "Chromospheric Evershed Flow". *Astronomy and Astrophysics* 403:1123-1133.
269. Georgakilas, A. A., E. B. Christopoulou, and S. Koutchmy. 2001. "Multi-wavelength study of Network Bright Points near the limb*". *Solar Physics* 202:241-258.
270. Georgakilas, A. A., E. B. Christopoulou, and S. Koutchmy. 2000. "Oscillations and Running Waves Observed in Sunspots II. Photospheric Waves.". *Astronomy and Astrophysics* 363:306-310.
271. Georgakilas, A. A., E. B. Christopoulou, and S. Koutchmy. 2002. "Oscillations and Waves Related to Sunspots". *Il Nuovo Cimento* 25, no. 5-6:601-608.
272. Georgakilas, A. A., S. Koutchmy, and E. B. Christopoulou. 2001. "Polar Surges and Macrospicules: II. Dynamics of an Eruptive Event from Off-Limb Observations". *Astronomy and Astrophysics* 370:273-280.
273. Georgakilas, A. A. and E. B. Christopoulou. 2003. "Temporal Behavior of the Evershed Effect". *Astrophysical Journal* 584:509-523.
274. Giampapa, M. S. 2001. "Red Dwarfs/Flare Stars". edited by P.Murdin, ed. 2001 ed. 2001 (MacMillan).

275. Gilman, P. A. and R. Howe. 2003. "Meridional Motion and the Slope of Isorotation Contours". edited by A.Wilson, ed. 283.(ESA).
276. Gilman, Peter A. 2000. "Fluid Dynamics and MHD of the Solar Convection Zone and Tachocline: Current Understanding and Unsolved Problems - (Invited Review)". *Solar Physics* 192:27-48.
277. Gisler, D. and H. M. Schmid. 2003. "Non-Solar Applications with the ZIMPOL Polarimeter". edited by J.Trujillo-Bueno and J.Sanchez Almeida. 58-61.(Astronomical Society of the Pacific).
278. Goncharov, Alexander V., Mette Owner-Petersen, Torben Andersen, and Jacques M. Beckers. 2002. "Adaptive optics schemes for future extremely large telescopes". *Optical Engineering* 41:1065-1072.
279. Gonzalez-Hernandez, I., R. Komm, F. Hill, R. Howe, T. Corbard, and D. A. Haber. 2005. "Meridional Circulation Variability from Large-Aperture Ring Diagram Analysis of GONG and MDI Data". *Astrophysical Journal* 638:576-583.
280. Gonzalez Hernandez, I., J. Patron, T. Roca Cortes, R. S. Bogart, F. Hill, and E. J. Rhodes. 2000. "A Synoptic View of the Subphotospheric Horizontal Velocity Flows in the Sun". *Astrophysical Journal* 535:454-463.
281. Goode, P. R. 2001. "Helioseismic Constraints on Rotation and Magnetic Fields in the Solar Core". *Solar Physics* 200:343-352.
282. Goode, Philip R. and W. A. Dziembowski. 2003. "Sunshine, Earthshine and Climate Change I. Origin of, and Limits on Solar Variability". *Journal of Korean Astronomical Society* 36:75-Sun.
283. Goodrich, B. D. and S. B. Wampler. 2004. "Software Controls for the ATST Telescope". edited by H.Lewis and G.Raffi. 518-527.(SPIE).
284. Goodrich, Jean N., Shukur Kholikov, Charles Lindsey, Anna Malanushenko, Chirag Shroff, and Clifford Toner. 2004. "Remote distributed pipeline processing of GONG helioseismic data: experience and lessons learned". edited by J.M.Oschmann. 538-546.(SPIE).
285. Gopalswamy, N., A. Lara, S. Yashiro, and R. A. Howard. 2003. "Coronal Mass Ejections and Solar Polarity Reversal". *Astrophysical Journal Letters* 598:L63-L66.
286. Gosain, S. and D. P. Choudhary. 2002. "Magnetic and Velocity Fields Over Active Regions". *Bulletin of the Astronomical Society of India* 30:579-581.
287. Gosain, S. and D. P. Choudhary. 2003. "Simultaneous Stokes-V Diagnostic of a Sunspot Using Mg b and Fe I Lines". *Solar Physics* 217:119-132.
288. Gough, D. 2000. "News from the Solar Interior". *Science* 287:2434-2435.

289. Graham, J. D., A. A. Norton, A. Lopez Ariste, and B. W. Lites. 2003. "The Helioseismic and Magnetic Imager (HMI) on SDO: Full Vector Magnetography with a Filtergraph Polarimeter". edited by J.Trujillo-Bueno and J.Sanchez Almeida. 131-136.(Astronomical Society of the Pacific).
290. Griffith, David W. T., Geoffrey C. Toon, Bhaswar Sen, Jean François Blavier, and Robert A. Toth. 2000. "Vertical profiles of nitrous oxide isotopomer fractionation measured in the stratosphere". *Geophysical Research Letters* 27:2485.
291. Grossmann-Doerth, U., M. Schüssler, M. Sigwarth, and O. Steiner. 2000. "Strong Stokes V asymmetries of photospheric spectral lines: What can they tell us about the magnetic field structure?". *Astronomy and Astrophysics* 357:351-358.
292. Guillermier, P. and S. Koutchmy. 2000/6. 2000 vols.: Springer-Verlag.
293. Habbal, S. R., R. Woo, M. B. Arndt, and J. Arnaud. 2003. "On the Coexistence of a Radial and Non-Radial Component of the Coronal Magnetic Field". edited by J.Trujillo-Bueno and J.Sanchez Almeida. 446-457.(Astronomical Society of the Pacific).
294. Habbal, S. R., M. B. Arndt, M. H. Nayfeh, J. Arnaud, J. Johnson, and S. et al Hegwer. 2003. "On the Detection of the Signature of Silicon Nanoparticle Dust Grains in Coronal Holes". *Astrophysical Journal Letters* 592:L87-L90.
295. Haber, D. A., B. W. Hindman, J. Toomre, R. S. Bogart, and F. Hill. 2001. "Daily Variations of Large-Scale Subsurface Flows and Global Synoptic Flow Maps from Dense-Pack Ring-Diagram Analyses". edited by A.Wilson, ed. 209-212.(ESA).
296. Haber, D. A., B. W. Hindman, J. Toomre, R. S. Bogart, and F. Hill. 2001. "Development of Multiple Cells in Meridional Flows and Evolution of Mean Zonal Flows from Ring-Diagram Analyses". edited by A.Wilson, ed. 213-218.(ESA).
297. Haber, D. A., B. W. Hindman, J. Toomre, R. S. Bogart, M. J. Thompson, and F. Hill. 2000. "Solar shear flows deduced from helioseismic dense-pack samplings of ring diagrams". *Solar Physics* 192:335-350.
298. Haber, Deborah A., Bradley W. Hindman, Juri Toomre, Richard S. Bogart, Rasmus M. Larsen, and Frank Hill. 2002. "Evolving Submerged Meridional Circulation Cells within the Upper Convection Zone Revealed by Ring-Diagram Analysis". *Astrophysical Journal* 570:855-864.
299. Hakamada, K., M. Kojima, T. Ohmi, M. Tokumaru, and K. Fujiki. 2005. "Correlation Between Expansion Rate of the Coronal Magnetic Field and Solar Wind Speed in a Solar Activity Cycle". *Solar Physics* 227:387-399.
300. Hakamada, Kazuyuki, Masayoshi Kojima, Munetoshi Tokumaru, Tomoaki Ohmi, Atsushi Yokobe, and Ken'ichi Fujiki. 2002. "Solar Wind Speed and Expansion Rate of the Coronal Magnetic Field in Solar Maximum and Minimum Phases". *Solar Physics* 207:173-185.

301. Hanslmeier, Arnold. 2002/6. *The Sun and Space Weather*. 2002 vols.: Kluwer Academic Publishers.
302. Hartkorn, K. and T. R. Rimmele. 2003. "Residual Intensity and Velocity Measurements of Bright Points". edited by A.A.Pevtsov and eds. H.Uitenbroek. 193-200.(ASP).
303. Hartkorn, K. and T. R. Rimmele. 2003. "Velocity Measurements of Umbral Dots". edited by A.A.Pevtsov and eds. H.Uitenbroek. 281-290.(ASP).
304. Harvey, J. W. 2001. "Helioseismic Observations". edited by P.Murdin, ed. 2001 ed. 2001 (MacMillan).
305. Harvey, J. W., C. U. Keller, L. Cole, R. Tucker, and D. Jaksha. 2004. "High-Speed Cameras and Solar Observing". edited by S.Fineschi and eds. M.Gummin. 258-268.(SPIE).
306. Harvey, K. L. and F. Recely. 2002. "Polar Coronal Holes During Cycles 22 and 23". *Solar Physics* 211:31-51.
307. Harvey, K. L. and H. S. Hudson. 2002. "Solar Activity and the Formation of Coronal Holes". *Advances in Space Research* vol.25 25:1735-1738.
308. Hathaway, David H. 2003. "Large scale flows through the solar cycle". edited by H.Sawaya-Lacoste, ed. 87.(European Space Agency).
309. Heiter, U., F. Kupka, C. Veer-Menneret, C. Barban, W. W. Weiss, M. J. Goupil, W. Schmidt, D. Katz, and R. Garrido. 2002. "New grids of ATLAS9 atmospheres I: Influence of convection treatments on model structure and on observable quantities". *Astronomy and Astrophysics* 392:619-636.
310. Henney, C. J. and J. W. Harvey. 2005. "Automated Coronal Hole Detection Using He I 1083 nm Spectroheliograms and Photospheric Magnetograms". in *ASP Conference Series Vol. 346, Large-Scale Structures and Their Role in Solar Activity. NSO Workshop no. 22.*, edited by K.Sankarasubramaniam, M.J.Penn, and A.A.Pevtsov. 261-268.(Astronomical Society of the Pacific).
311. Henney, C. J. and J. W. Harvey. 2002. "Phase Coherence Analysis of Solar Magnetic Activity". *Solar Physics* 207:199-218.
312. Haigh, J. D., M. Lockwood, M. S. Giampapa, I. Ruedi, M. Gudel, and W. Schmutz. 2005/6. *Stellar Analogs of Solar Activity: The Sun in a Stellar Context*. Edited by J.D.Haigh, M.Lockwood, Giampapa M.S, I.Ruedi, M.Gudel, and W.Schmutz. 1st ed. 2004 vols.: Springer.
313. Hilico, J. C., O. Robert, M. Loëte, S. Toumi, A. S. Pine, and L. R. Brown. 2001. "Analysis of the Interacting Octad System of ¹²CH₄". *Journal of Molecular Spectroscopy* 208:1-13.
314. Hill, F., Radick, R. R., and Collados, M.2003. -39 pp.

315. Hill, F., A. Csillaghy, R. D. Bentley, and et al. 2002. "EGSO in Need for a Global Schema". edited by A.Szalay, ed.(SPIE).
316. Hill, F., J. W. Briggs, S. L. Hegwer, and R. R. Radick. 2003. "Environmental Factors Affecting Solar Seeing". edited by S.L.Keil, ed. 285-293.(SPIE).
317. Hill, F., O. Ladenkov, S. Ehgamberdiev, and D. Chou. 2001. "High-Frequency Multi-Wavelength Acoustic Power Maps". edited by A.Wilson, ed. 219-222.(ESA).
318. Hill, F., J. M. Beckers, P. N. Brandt, J. Briggs, T. Brown, W. Brown, M. Collados, C. Denker, S. Fletcher, S. Hegwer, T. Horst, M. Komsa, J. R. Kuhn, A. Lecinski, H. Lin, S. Oncley, M. Penn, T. R. Rimmele, H. Socas-Navarro, and K. V. Streander. 2004. "Solar Site Testing for the Advanced Technology Solar Telescope". edited by J.M.Oschmann. 122-129.(SPIE).
319. Hill, F., J. Bolding, C. Toner, T. Corbard, S. Wampler, B. Goodrich, P. Eliason, and K. D. Hanna. 2003. "The GONG++ Data Processing Pipeline". edited by A.Wilson, ed. 295-298.(ESA).
320. Hill, F., W. Erdwurm, D. Branston, and R. McGraw. 2000. "The National Solar Observatory Digital Library-- a Resource for Space Weather Studies". *Journal of Atmospheric and Solar-Terrestrial Physics* 62:1257-1264.
321. Hill, F. 2001. "The Virtual Solar Observatory". edited by R.J.Brunner, G.P.Jorgovski, and eds. A.S.Szalay. 184.(ASP).
322. Hill, F. 2002. "The Virtual Solar Observatory Concept". edited by A.Wilson, ed. 569.(ESA).
323. Hill, F., R. S. Bogart, A. Davey, G. Dimitoglou, J. B. Gurman, J. A. Hourcle, P. Martens, I. Suarez-Sola, K. Tian, S. Wampler, and Yoshimura K. 2004. "The Virtual Solar Observatory: Status and Initial Operational Experience". edited by P.J.Quinn and A.Bridger. 163-169.(SPIE).
324. Hill, F. and GONG Team. 2004. "The Status of the GONG Program". edited by D.Danesy. 128-133.(European Space Agency).
325. Hill, Frank. 2003. "Local Helioseismology -- what does it Really Tell Us?". edited by O.Engvold, ed. 15.(International Astronomical Union).
326. Hoekzema, N. M., T. R. Rimmele, and R. J. Rutten. 2002. "Small-scale topology of solar atmospheric dynamics. V. Acoustic events and internetwork grains". *Astronomy and Astrophysics* 390:681-690.
327. Holder, Z. A., R. C. Canfield, R. A. McMullen, D. Nandy, R. F. Howard, and A. A. Pevtsov. 2004. "On the Tilt and Twist of Solar Active Regions". *Astrophysical Journal* 611:1149-1155.

328. Holzreuter, R. 2003. "Telescope-Independent Removal of Instrumental Polarization in High-Precision Vector Polarimetry". edited by J.Trujillo-Bueno and J.Sanchez Almeida. 71-74.(Astronomical Society of the Pacific).
329. Howard, R. F. 2000. "Active Region Magnetic Fields". *Journal of Astrophysics and Astronomy* 21:119.
330. Howard, Robert F., K. R. Sivaraman, and S. S. Gupta. 2000. "Measurement of Kodaikanal White-Light Images - V. Tilt-Angle and Size Variations of Sunspot Groups". *Solar Physics* 196:333-348.
331. Howe, R., W. J. Chaplin, Y. P. Elsworth, F. Hill, R. Komm, G. R. Isaak, and R. New. 2003. "A Comparison of Low-Degree Solar p-Mode Parameters from BiSON and GONG: Underlying Values and Temporal Variations". *Astrophysical Journal* 588:1204-1212.
332. Howe, R., R. Komm, F. Hill, D. Haber, and B. Hindman. 2004. "Activity-Related Changes in Local Solar Acoustic Mode Parameters from Michelson Doppler Imager and Oscillations Network Group". *Astrophysical Journal* 608:562-579.
333. Howe, R., F. Hill, S. Basu, J. Christensen-Dalsgaard, R. W. Komm, R. Munk Larsen, M. Roth, J. Schou, M. J. Thompson, and J. Toomre. 2001. "Comparing mode frequencies from MDI and GONG". edited by A.Wilson, ed. 137.(ESA).
334. Howe, R., W. J. Chaplin, Y. Elsworth, G. R. Isaak, R. W. Komm, and R. New. 2003. "Comparing Results from the GONG L=0 and Bison Time Series". edited by A.Wilson, ed. 303.(ESA).
335. Howe, R., J. Christensen-Dalsgaard, F. Hill, R. W. Komm, R. M. Larsen, J. Schou, M. J. Thompson, and J. Toomre. 2000. "Deeply Penetrating Banded Zonal Flows in the Solar Convection Zone". *Astrophysical Journal* 533:L163-L166.
336. Howe, R., J. Christensen-Dalsgaard, F. Hill, R. W. Komm, R. M. Larsen, J. Schou, M. J. Thompson, and J. Toomre. 2000. "Dynamic Variations at the Base of the Solar Convection Zone". *Science* 287:2456-2460.
337. Howe, R., F. Hill, R. W. Komm, J. Christensen-Dalsgaard, R. Munk Larsen, M. J. Thompson, and J. Toomre. 2001. "Interior Solar-Cycle Changes Detected by Helioseismology". edited by P.Brekke, B.Fleck, and eds. J.B.Gurman. 40.(ASP).
338. Howe, R., R. W. Komm, and F. Hill. 2002. "Localizing the Solar-Cycle Frequency Shifts in Global p-Modes". *Astrophysical Journal* 580:1172-1187.
339. Howe, R., J. Christensen-Dalsgaard, F. Hill, R. Komm, J. Schou, and M. J. Thompson. 2005. "Solar Convection-Zone Dynamics, 1995-2004". *Astrophysical Journal* 634:1405-1415.
340. Howe, R., J. Christensen-Dalsgaard, F. Hill, R. W. Komm, R. Munk Larsen, J. Schou, M. J. Thompson, and J. Toomre. 2001. "Solar cycle changes in convection zone dynamics from MDI and GONG 1995 - 2000". edited by A.Wilson, ed. 19.(ESA).

341. Howe, R., D. H. Landy, R. W. Komm, and F. Hill. 2001. "The effect of magnetic flux distribution on individual-m frequencies". edited by A.Wilson, ed. 91.(ESA).
342. Howe, R. 2003. "The Internal Rotation of the Sun". edited by A.Wilson, ed. 81.(ESA).
343. Howe, R., R. Komm, and F. Hill. 2000. "Variations in solar sub-surface rotation from GONG data 1995-1998". *Solar Physics* 192:427-435.
344. Hubbard, Robert P. and Jacobus M. Oschmann, Jr. 2004. "Monte Carlo telescope performance modeling". edited by P.J.Quinn and A.Bridger. 129-139.(SPIE).
345. Hughes, S. J., S. P. Rajaguru, and M. J. Thompson. 2005. "Comparison of GONG and MDI: Sound-Speed Anomalies Beneath Two Active Regions". *Astrophysical Journal* 627:1040-1048.
346. Jabiri, A., Z. Benkhaldoun, J. Vernin, and C. Muñoz-Tuñón. 2000. "A meteorological and photometric study of the Oukaimeden site. Comparison with the Observatorio del Roque de los Muchachos using Carlsberg Automatic Meridian Circle data". *Astronomy and Astrophysics Supplement Series* 147:271-284.
347. Jackson B.V., A. Buffington, P. P. Hick, R. C. Altrock, S. Figueroa, P. E. Holladay, J. Johnston, S. W. Kahler, J. B. Mozer, S. Price, R. R. Radick, R. Sagalyn, D. Sinclair, G. M. Simnett, C. J. Eyles, J. W. Cook, S. J. Tappin, T. Kuchar, D. Mizuno, D. F. Webb, P. A. Anderson, S. L. Keil, R. E. Gold, and N. R. Waltham. 2004. "The Solar Mass-Ejection Imager (SMEI) Mission". *Solar Physics* 225:177-207.
348. Jain, K., S. C. Tripathy, and A. Bhatnagar. 2003. "A Test of Empirical Relation Between p-Mode Frequencies and Solar Activity". edited by S.C.Tripathy and eds. P.V.Venkatkrishnan. 195.(Alpha Science).
349. Jain, K., C. Toner, and F. Hill. 2003. "Ring-Diagram Analysis of GONG+ Velocity and Intensity Data". edited by S.C.Tripathy and eds. P.V.Venkatkrishnan. 31-34.(Alpha Science).
350. Jain, K., S. C. Tripathy, and A. Bhatnagar. 2003. "Solar Cycle Changes in Mode Frequencies from 1995-2001". edited by S.C.Tripathy and eds. P.V.Venkatkrishnan. 191.(Alpha Science).
351. Jain, K. and A. Bhatnagar. 2003. "Variations in Oscillation Frequencies from minimum to Maximum of Solar Activity". *Solar Physics* 213:257-268.
352. Jain, Kiran, S. C. Tripathy, A. Bhatnagar, and Brajesh Kumar. 2000. "Empirical estimate of p-mode frequency shift for solar cycle 23". *Solar Physics* 192:487-494.
353. Jain, Kiran, S. C. Tripathy, and A. Bhatnagar. 2002. "How Good are the Predictions for Oscillation Frequencies?". *Solar Physics* 206:213-217.
354. Jain, Kiran, S. C. Tripathy, and A. Bhatnagar. 2000. "Solar Cycle-induced Variations in GONG P-Mode Frequencies and Splittings". *Astrophysical Journal* 542:521-527.

355. Jefferies, S. M., G. Severino, P. Moretti, M. Oliviero, and C. Giebink. 2003. "How Well Can We Infer the Properties of the Solar Acoustic Sources?". *Astrophysical Journal Letters* 596:L117-L120.
356. Jefferies, Stuart M., Pier Francesco Moretti, Maurizio Oliviero, and Cynthia Giebink. 2003. "Comments on inferring the properties of the solar acoustic sources by modeling the velocity and/or intensity fluctuations". edited by H.Sawaya-Lacoste, ed. 311.(European Space Agency).
357. Jennings, D. E., D. Deming, P. V. Sada, G. H. McCabe, and T. Moran. 2001. "Mapping of Vector Magnetic Fields at 12 μ m". edited by M.Sigwarth, ed. 273-280.(ASP).
358. Jimenez-Reyes, S. J., R. A. Garcia, W. J. Chaplin, and S. G. Korzennik. 2004. "On the Spatial Dependence of Low-Degree Solar p-Mode Frequency Shifts from Full-Disk and Resolved-Sun Observations". *Astrophysical Journal Letters* 610:L65-L68.
359. Jiménez-Reyes, S. J., R. A. Garcia, and C. J. Henney. 2004. "On the Strange Behavior of the p-Mode Peak Asymmetry Observed in GOLF Data". edited by D.Danesy. 505-508.(European Space Agency).
360. Jolissaint, L., J. P. Veran, and J. Marino. 2004. "OPERA, an Automatic PSF Reconstruction Software for Shack-Hartmann AO Systems: Application to Altair". in *SPIE vol. 5490, Advancements in Adaptive Optics*: edited by D.Bonaccini, B.L Ellerbroek, and R.Ragazzoni. 151-163.(SPIE).
361. Jones, H. P., D. D. Branston, P. ZB. Jones, and M. D. Popescu. 2003. "Comparison of Total Solar Irradiance with NASA/NSO Spectromagnetograph Data in Solar Cycles 22 and 23". *Astrophysical Journal* 589:658-664.
362. Jones, H. P. 2003. "Data Calibration and Analysis for He I 1083 nm Imaging Spectroscopy". *Solar Physics* 218:1-16.
363. Jones, H. P. and J. A. Ceja. 2001. "Preliminary Comparison of Magnetograms from KPVT/SPM, SOHO/MDI and GONG". edited by M.Sigwarth, ed. 87-93.(ASP).
364. Jones, Harrison P., Detrick D. Branston, Patricia B. Jones, and Meredith J. Wills-Davey. 2000. "Analysis of NASA/NSO Spectromagnetograph Observations for Comparison with Solar Irradiance Variations". *Astrophysical Journal* 529:1070-1083.
365. Judge, P. G., D. Elmore, B. W. Lites, C. U. Keller, and T. R. Rimmele. 2004. "Evaluation of Seeing-Induced Cross Talk in Tip-Tilt-Corrected Solar Polarimetry". *Applied Optics* 43:3817-3828.
366. Judge, P. G., S. Tomczyk, W. C. Livingston, C. U. Keller, and M. J. Penn. 2002. "Spectroscopic Detection of the 3.934 Micron Line of Si IX in the Solar Corona". *Astrophysical Journal* 576:L157-L160.

367. Kahler, S. W. and H. S. Hudson. 2003. "Boundary Structures and Changes in Long-Lived Coronal holes". *Astrophysical Journal* 574:467-476.
368. Kahler, S. W. and H. S. Hudson. 2001. "Origin and development of transient coronal holes". *Journal Geophysical Research* 106:29239-29248.
369. Kalman, B. 2002. "On the Outer Boundary of the Sunspot Penumbra". *Solar Physics* 209:109-117.
370. Kariyappa, R., A. Narayanan, A. Satya, and L. Dame. 2005. "Period-Brightness Relationship in Chromospheric Bright Points". *Bulletin of the Astronomical Society of India* 33:19-26.
371. Kato, S. 2003. "Damping and Frequencies of Non-Axisymmetric Trapped g-Mode Oscillations". *Publications of the Astronomical Society of Japan* 55:257-265.
372. Keil, S. L., J. M. Oschmann, T. R. Rimmele, R. Hubbard, M. Warner, R. Price, N. Dalrymple, B. Goodrich, S. Hegwer, F. Hill, J. Wagner, and and ATST Team. 2004. "Advanced Technology Solar Telescope: Conceptual Design and Status". in *SPIE vol.5489, Ground-Based Telescopes*, edited by J.M.Oschmann. 625-637.(SPIE).
373. Keil, S. L., T. R. Rimmele, C. U. Keller, and and the ATST Team. 2003. "Design and Development of the Advanced Technology Solar Telescope". *Astronomische Nachrichten* 324:303-304.
374. Keil, S. L., T. R. Rimmele, C. U. Keller, F. Hill, R. R. Radick, J. Oschmann, M. Warner, N. Dalrymple, J. Briggs, S. Hegwer, D. Ren, and and the ATST Team. 2003. "Design and Development of the Advanced Technology Solar Telescope". in *SPIE vol.4853, Innovative Telescopes and Instrumentation for Solar Astrophysics*, edited by S.L.Keil, ed. 240-251.(SPIE).
375. Keil, S. L., T. R. Rimmele, J. Oschmann, R. Hubbard, M. Warner, R. Price, N. Dalrymple, and and ATST Team. 2004. "Science Goals and Development of the Advanced Technology Solar Telescope". in *IAU Symposium 223, Multi-Wavelength Investigations of Solar Activity.St.Petersburg Russia, 14-19 June 2004.*, edited by xxx. 581-588.(Cambridge University Press).
376. Keil, S. L., T. R. Rimmele, C. U. Keller, and The Atst Team. 2001. "The Advanced Technology Solar Telescope". in *ASP Conference Series Vol.236: Advanced Solar Polarimetry -- Theory, Observation, and Instrumentation*, edited by M.Sigwarth, ed. 597-611.(ASP).
377. Keller, C. U. 2000. "5,000 by 5,000 Spatial by 15,000 Spectral Resolution Elements: First Astronomical Observations with a Novel 3-D Detector". edited by W.Van Bruegel and eds. J.Bland-Hawthorn. 495.(ASP).
378. Keller, C. U. 2004. "Charge Caching CMOS Detector for Polarimetry (C3Po)". edited by S.Fineschi and M.A.Gummin. 239-246.(SPIE).

379. Keller, C. U. 2001. "High Resolution Polarimetry and the Need for a Large-Aperture Solar Telescope". edited by M.Sigwarth, ed. 389-397.(ASP).
380. Keller, C. U. 2002. "Instrumentation for astrophysical spectropolarimetry". edited by J.Trujillo-Bueno, F.Moreno-Insertis, and F.Sanchez. 303.(Cambridge University Press).
381. Keller, C. U., C. Plymate, and S. M. Ammons. 2003. "Low-Cost Solar Adaptive Optics in the Infrared". edited by S.L.Keil, ed. 351-359.(SPIE).
382. Keller, C. U. 2000. "New Initiatives for Synoptic Observations". *Journal of Astrophysics and Astronomy* 21:127.
383. Keller, C. U., M. Schüssler, A. Vogler, and V. Zakharov. 2004. "On the Origin of Solar Faculae". *Astrophysical Journal Letters* 607:L59-L62.
384. Keller, C. U. 2003. "Polarimetry with the ATST". edited by A.A.Pevtsov and eds. H.Uitenbroek. 31-44.(ASP).
385. Keller, C. U. 2003. "Polarimetry with the Advanced Technology Solar Telescope". edited by J.Trujillo-Bueno and J.Sanchez Almeida. 23-34.(Astronomical Society of the Pacific).
386. Keller, C. U. 2003. "Solar Polarimetry Close to the Diffraction Limit". edited by S.Fineschi, ed. 100-111.(SPIE).
387. Keller, C. U., J. W. Harvey, M. S. Giampapa, and and the SOLIS Team. 2003. "SOLIS, an Innovative Suite of Synoptic Solar Instruments". edited by S.L.Keil, ed. 194-204.(SPIE).
388. Keller, C. U., T. R. Rimmele, F. Hill, S. L. Keil, J. M. Oschmann, and The Atst Team. 2002. "The Advanced Technology Solar Telescope". *Astronomische Nachrichten* 323:294-298.
389. Keller, C. U. and The Solis Team. 2001. "The SOLIS Vector-Spectromagnetograph (VSM)". edited by M.Sigwarth, ed. 16-24.(ASP).
390. Keller, C. U. and J. W. and the SOLIS Team Harvey. 2003. "The SOLIS Vector-Spectromagnetograph". edited by J.Trujillo-Bueno and J.Sanchez Almeida. 13-22.(Astronomical Society of the Pacific).
391. Kholikov, S. 2004. "Travel Time Measurements in Sunspots". edited by D.Danesy. 513-515.(European Space Agency).
392. Kleiner, I., G. Tarrago, C. Cottaz, L. Sagui, L. R. Brown, R. L. Poynter, H. M. Pickett, P. Chen, J. C. Pearson, R. L. Sams, G. A. Blake, S. Matsuura, V. Nemtchinov, P. Varanasi, L. Fusina, and G. Di Lonardo. 2003. "NH"3 and PH"3 line parameters: the 2000 HITRAN update and new results". *Journal of Quantitative Spectroscopy and Radiative Transfer* 82:293-312.

393. Knaack, R., J. O. Stenflo, and S. V. Berdyugina. 2005. "Evolution and Rotation of Large-Scale Photospheric Magnetic Fields of the Sun During Cycles 21-23: Periodicities, North-South Asymmetries and r-Mode Signatures". *Astronomy and Astrophysics* 438:1067-1082.
394. Knaack, R. and J. O. Stenflo. 2005. "Spherical Harmonic Decomposition of Solar Magnetic Fields". *Astronomy and Astrophysics* 438:349-363.
395. Komm, R., R. Howe, and F. Hill. 2003. "Activity Related Variation of Width and Energy of Global p-Modes". edited by A.Wilson, ed. 325-328.(ESA).
396. Komm, R., R. Howe, and F. Hill. 2001. "Background Amplitudes of Solar p-Modes Observed by GONG". edited by A.Wilson, ed. 645.(ESA).
397. Komm, R., F. Hill, R. Howe, and C. Toner. 2001. "Exploring Time-Series Analysis Techniques". edited by A.Wilson, ed. 351-354.(ESA).
398. Komm, R., R. Howe, and F. Hill. 2002. "Localizing Width and Energy of Solar Global p-Modes". *Astrophysical Journal* 572:663-673.
399. Komm, R., R. Howe, B. R. Durney, and F. Hill. 2003. "Temporal Variation of Angular Momentum in the Solar Convection Zone". *Astrophysical Journal* 586:650-662.
400. Komm, R., R. Howe, B. R. Durney, and F. Hill. 2003. "Temporal Variation of Angular Momentum in the Convection Zone". edited by A.Wilson, ed. 97-102.(ESA).
401. Komm, R., R. Howe, and F. Hill. 2002. "The Solar Cycle is More Than Skin Deep". edited by A.Wilson, ed. 15.(ESA).
402. Komm, R., R. Howe, and F. Hill. 2001. "Width and Energy of Solar p-Modes Observed by GONG". edited by A.Wilson, ed. 33.(ESA).
403. Komm, R. W., F. Hill, and R. Howe. 2001. "Empirical Mode Decomposition and Hilbert Analysis Applied to Rotation Residuals of the Solar Convection Zone". *Astrophysical Journal* 558:428-441.
404. Komm, R. W., R. Howe, F. Hill, I. Gonzalez-Hernandez, and C. G. Toner. 2005. "Kinetic Helicity in Solar Subsurface Layers and Flare Activity of Active Regions". *Astrophysical Journal* 630:1184-1193.
405. Komm, R. W., R. Howe, I. Gonzalez-Hernandez, F. Hill, and C. Toner. 2005. "Large-Scale Flows in Subsurface Layers". in *Large-Scale Structures and Their Role in Solar Activity*, edited by Sankarasubramanian, K., M. Penn, and A. A. Pevtsov. 33-40.(Astronomical Society of the Pacific).
406. Komm, R. W., R. Howe, F. Hill, I. Gonzalez-Hernandez, and C. Toner. 2005. "Ring Analysis of Solar Subsurface Flows and Their Relation to Surface Magnetic Activity". *Astrophysical Journal* 631:636-646.

407. Komm, R. W., R. Howe, and F. Hill. 2000. "Solar-Cycle Changes in Gong P-Mode Widths and Amplitudes 1995-1998". *Astrophysical Journal* 531:1094-1108.
408. Komm, R. W., R. Howe, and F. Hill. 2000. "Width and Energy of Solar p-Modes Observed by Global Oscillation Network Group". *Astrophysical Journal* 543:472-485.
409. Korzennik, S. G. 2005. "A Mode-Fitting Methodology Optimized for Very Long Helioseismic Time Series". *Astrophysical Journal* 626:585-615.
410. Korzennik, Sylvain G., Cristina Raballo-Soares, and Jesper Schou. 2003. "On the characterization of high-degree modes: a lesson from MDI". edited by H.Sawaya-Lacoste, ed. 145.(European Space Agency).
411. Koutchmy, S., E. DiFolco, F. Auchere, F. Baudin, J. P. Delaboudiniere, O. Koutchmy, J. C. Noens, S. Rondi, R. Jimenez, and R. N. Smartt. 2002. "The Prolate Solar Chromosphere". edited by J.C.Vial and B.Kaldeich-Schulmann. 385.(ESA).
412. Krivova, N. A. and S. K. Solanki. 2004. "Effect of Spatial Resolution on Estimating the Sun's Magnetic Flux". *Astronomy and Astrophysics* 417:1125-1132.
413. Kubo, M., T. Shimizu, and B. W. Lites. 2003. "The Evolution of Vector Magnetic Fields in an Emerging Flux Region". *Astrophysical Journal* 595:465-482.
414. Kuhn, J. R. 2001. "One solar cycle later: reflections and speculations on directions in helio- and asteroseismology in a new millennium". edited by A.Wilson, ed. 7.(ESA).
415. Kuhn, J. R. 2001. "The Solar Diameter, Oblateness, and Temperature". edited by P.Murdin, ed. 2001 ed. 2001 (MacMillan).
416. Kulagin, E. S. and V. V. Kouprianov. 2004. "Large-Scale Structure of the Chromospheric Doppler Velocities on the Solar Disk from 2D-Spectroscopy Within the He I 10830 Angstrom Line". *Solar Physics* 219:79-86.
417. Kumar, Brajesh, Rajmal Jain, S. C. Tripathy, Hari Om Vats, and M. R. Deshpande. 2000. "p Modes in and Away from a Sunspot". *Solar Physics* 191:293-307.
418. Kumar, Pawan and Sarbani Basu. 2000. "Source Depth for Solar P-Modes". *Astrophysical Journal* 545:L65-L68.
419. Kundu, M. R., S. M. White, K. Shibasaki, T. Sakurai, and V. V. Grechnev. 2001. "Spatial Structure of Simple Spiky Bursts at Microwave/Millimeter Wavelengths". *Astrophysical Journal* 547:1090-1099.
420. Ladenkov, O. V., F. Hill, Sh Egamberdiev, and D. Y. Chou. 2002. "Acoustic Power Mapping for Active Regions from MDI, HLH, and TON Data". *Astronomy Letters* 28:411-418.
421. Landi, E., H. E. Mason, P. Lemaire, and M. Landini. 2000. "SUMER observations of transition region fine structures". *Astronomy and Astrophysics* 357:743-756.

422. Langhans, K., W. Schmidt, and T. R. Rimmele. 2004. "Diagnostic Spectroscopy of G-Band Brightenings in the Photosphere of the Sun". *Astronomy and Astrophysics* 423:1147-1157.
423. Langhans, K., W. Schmidt, T. R. Rimmele, and M. Sigwarth. 2001. "Spectroscopic Observation of G-Band Bright Points". edited by M.Sigwarth, ed. 439-444.(ASP).
424. Langlois, M., C. D. Saunter, C. N. Dunlop, R. M. Myers, and G. D. Love. 2004. "Multiconjugate Adaptive Optics: Laboratory Experience". *Optics Express* 12:1689-1699.
425. Langlois, M., T. R. Rimmele, and G. Moretto. 2004. "Three-Dimensional High-Order Wavefront Sensing, Anisoplanatism, and Evaluation of the Feasibility of Solar MCAO". edited by S.Fineschi and M.A.Gummin. 187-194.(SPIE).
426. Langlois, M. P., G. Moretto, K. Richards, S. L. Hegwer, and T. R. Rimmele. 2004. "Solar Multiconjugate Adaptive Optics at the Dunn Solar Telescope: Preliminary Results.". in *SPIE vol.5490, Advancements in Adaptive Optics:* edited by D.Bonaccini, B.L Ellerbroek, and R.Ragazzoni. 59-66.(SPIE).
427. Lawler, J. E., M. E. Wickliffe, C. R. Cowley, and C. Sneden. 2001. "Atomic Transition Probabilities in Tb II with Applications to Solar and Stellar Spectra". *Astrophysical Journal Supplement Series* 137:341-349.
428. Lawler, J. E., G. Bonvallet, and C. Sneden. 2001. "Experimental Radiative Lifetimes, Branching Fractions, and Oscillator Strengths for La II and a New Determination of the Solar Lanthanum Abundance". *Astrophysical Journal* 556:452-460.
429. Lawler, J. E., C. Sneden, and J. J. Cowan. 2004. "Improved Atomic Data for Ho II and New Holmium Abundances for the Sun and Three Metal-poor Stars". *Astrophysical Journal* 604:850-860.
430. Lawler, J. E., M. E. Wickliffe, E. A. den Hartog, and C. Sneden. 2001. "Improved Laboratory Transition Parameters for Eu II and Application to the Solar Europium Elemental and Isotopic Composition". *Astrophysical Journal* 563:1075-1088.
431. Lawrence, J. K., A. C. Cadavid, and A. Ruzmaikin. 2004. "Principal Component Analysis of the Solar Magnetic Field I: The Asymmetric Field at the Photosphere". *Solar Physics* 225:1-19.
432. Leamon, R. J., R. C. Canfield, S. L. Jones, K. Lambkin, B. J. Lundberg, and A. A. Pevtsov. 2004. "Helicity of Magnetic Clouds and Their Associated Active Regions". *Journal of Geophysical Research* 107:1234.
433. Leamon, R. J., R. C. Canfield, and A. A. Pevtsov. 2002. "Properties of Magnetic Clouds Resulting from Eruption of Coronal Sigmoid". *Journal Geophysical Research* 107, no. A9:1234-1242.

434. Leamon, R. J., R. C. Canfield, and Z. Blehm. 2003. "What is the Role of the Kink Instability in Eruption of X-Ray Sigmoids?". *Astrophysical Journal Letters* 596:L255-L258.
435. Lean, J. L., O. R. White, W. C. Livingston, and J. M. Picone. 2001. "Variability of a composite chromospheric irradiance index during the 11-year activity cycle and over longer time periods". *Journal Geophysical Research* 106:10645-10658.
436. Lee, David, Roger Haynes, Deqing Ren, and Jeremy Allington-Smith. 2001. "Characterization of Lenslet Arrays for Astronomical Spectroscopy". *Publications of the Astronomical Society of the Pacific* 113:1406-1419.
437. Leka, K. D. and T. R. Metcalf. 2003. "Active-Region Magnetic Structure Observed in the Photosphere and Chromosphere". *Solar Physics* 212:361-378.
438. Leka, K. D. 2001. "Applying a Two-Component Inversion to Stokes Spectra from a Sunspot Penumbra". edited by M.Sigwarth, ed. 571.(Astronomical Society of the Pacific).
439. Leka, K. D., Y. Fan, and G. Barnes. 2005. "On the Availability of Sufficient Twist in Solar Active Regions to Trigger the Kink Instability". *Astrophysical Journal* 626:1091-1095.
440. Leka, K. D. and O. Steiner. 2001. "Understanding Small Solar Magnetic Structures: Comparing Numerical Simulations to Observations". *Astrophysical Journal* 552:354-371.
441. Liebowitz, R. 2002. "Donald Menzel and the Creation of the Sacramento Peak Observatory". *Journal for the History of Astronomy* 33:193-211.
442. Liewer, P. C., M. Neugebauer, and T. Zurbuchen. 2004. "Characteristics of Active-Region Sources of Solar Wind Near Solar Maximum". *Solar Physics* 223:209-229.
443. Lin, Chia Hsien and Werner Dappen. 2003. "Helioseismic constraints on the chemical composition and the equation of state". edited by H.Sawaya-Lacoste, ed. 337.(European Space Agency).
444. Lin, H., J. R. Kuhn, and R. Coulter. 2004. "Coronal Magnetic Field Measurements". *Astrophysical Journal* 613:L177-L180.
445. Lin, Haosheng and Roberto Casini. 2000. "A Classical Theory of Coronal Emission Line Polarization". *Astrophysical Journal* 542:528-534.
446. Lin, Haosheng, Matthew J. Penn, and Steven Tomczyk. 2000. "A New Precise Measurement of the Coronal Magnetic Field Strength". *Astrophysical Journal Letters* 541:L83-L86.
447. Lin, Haosheng and Matthew J. Penn. 2004. "The Advanced Technology Solar Telescope Site Survey Sky Brightness Monitor". *Publications of the Astronomical Society of the Pacific* 116:652-666.
448. Lin, Y. 2002. "Oscillations and Flows in Sub-Structures of a Large Filament". edited by A.Wilson. 681-684.(European Space Agency).

449. Lin, Y., J. E. Wiik, O. Engvold, L. Van der Voort, and Z. A. Frank. 2005. "Solar Filaments and Photospheric Network". *Solar Physics* 227:283-297.
450. Lindsey, C. and D. C. Braun. 2000. "Basic Principles of Solar Acoustic Holography - (Invited Review)". *Solar Physics* 192:261-284.
451. Lindsey, C. and D. C. Braun. 2005. "The Acoustic Showerglass. I. Seismic Diagnostics of Photospheric Magnetic Fields". *Astrophysical Journal* 620:1107-1117.
452. Lites, B. W. 2002. "Characterization of Magnetic Flux in the Quiet Sun". *Astrophysical Journal* 573:431-444.
453. Lites, B. W. and H. Socas-Navarro. 2004. "Characterization of Magnetic Flux in the Quiet Sun. II. The Internetwork Fields at High Angular Resolution.". *Astrophysical Journal* 613:600-609.
454. Lites, B. W. and H. Socas-Navarro. 2001. "Convergent Flows in the Penumbra of a Delta Sunspot". edited by M.Sigwarth, ed. 329-336.(ASP).
455. Lites, B. W., H. Socas-Navarro, A. Skumanich, and T. and Shimizu. 2002. "Converging Flows in the Penumbra of a Delta Sunspot". *Astrophysical Journal* 575:1131-1143.
456. Lites, B. W., D. F. Elmore, K. V. Streander, K. Sankarasubramanian, T. R. Rimmele, and M. Sigwarth. 2003. "First Results from the HAO/NSO Diffraction-Limited Spectro-Polarimeter". edited by J.Trujillo-Bueno and J.Sanchez. 324-329.(Astronomical Society of the Pacific).
457. Lites, B. W. 2005. "Magnetic Flux Ropes in the Solar Photosphere: The Vector Magnetic Field Under Active Region Filaments.". *Astrophysical Journal* 622:1275-1291.
458. Lites, B. W., D. F. Elmore, and K. V. Streander. 2001. "The Solar-B Spectro-Polarimeter". edited by M.Sigwarth, ed. 33-40.(ASP).
459. Livingston, W. and S. Koutchmy. 2000. "Eclipse Science Results: Past and Present (Invited review)". edited by W.C.Livingston and eds. A.Ozguc. 3-10.(ASP).
460. Livingston, W. and A. Özgüç. 2000/4. *Last Total Eclipse of the Millennium in Turkey*. 2000 vols.: ASP.
461. Livingston, W. 2002. "Sunspots Observed to Physically Weaken in 2000-2001". *Solar Physics* 207:41-45.
462. Livingston, W. and S. V. Berdyugina. 2001. "Umbral Spectra in the Ultraviolet via Molecular V-Stokes". edited by M.Sigwarth, ed. 559-563.(ASP).
463. Livingston, W. C. 2000. "Observing Geostationary Satellites". *Sistema Terra* 9:131.

464. Livingston, W. C. 2001. "Solar Magnetographs and Solar Feeds". In *Encyclopedia of Astronomy and Astrophysics*, edited by P.Murdin, ed. 2001 ed. 2001 (MacMillan).
465. Livingston, W. C. and L. Wallace. 2003. "The Sun's Immutable Basal Quiet Atmosphere". *Solar Physics* 212:227-237.
466. Longcope, D. W. and I. Klapper. 2002. "A General Theory of Connectivity and Current Sheets in Coronal Magnetic Fields Anchored to Discrete Sources". *Astrophysical Journal* 579:468-481.
467. Longcope, D. W., C. C. Kankelborg, and J. L. Nelson. 2001. "Evidence of Separator Reconnection in a Survey of X-Ray Bright Points". *Astrophysical Journal* 553:429-439.
468. Longcope, D. W. and A. A. Pevtsov. 2003. "Helicity Transport and Generation in the Solar Convection Zone". *Advances in Space Research* vol.32, *Magnetic Helicity at the Sun, in Solar Wind and Magnetospheres* 32, no. 10:1845-1853.
469. Lopez Ariste, A., R. Casini, F. Paletou, S. Tomczyk, B. W. Lites, M. Semel, E. Landi Deglinnocenti, J. Trujillo Bueno, and K. S. Balasubramaniam. 2005. "Full Stokes Spectropolarimetry of H-Alpha in Prominences". *Astrophysical Journal Letters* 621:L145-L148.
470. Lopez Ariste, A., S. Tomczyk, and R. Casini. 2003. "Hyperfine Structure as a Diagnostic Tool of Solar Magnetic Fields". edited by J.Trujillo-Bueno and J.Sanchez Almeida. 115-124.(Astronomical Society of the Pacific).
471. Lopez Ariste, A. and R. Casini. 2005. "Inference of the Magnetic Field in Spicules from Spectropolarimetry of He I D3". *Astronomy and Astrophysics* 436:325-331.
472. Lopez Ariste, A., S. Tomczyk, M. Semel, and A. Darnell. 2003. "Polarimeter for the Study of Magnetic Fields in Prominences". edited by S.L.Keil and S.V. Avakyan. 235-239.(SPIE).
473. Lopez Fuentes, M. C., P. Demoulin, C. H. Mandrini, A. A. Pevtsov, and L. Van Driel-Gestelyi. 2003. "Magnetic Twist and Writhe of Active Regions: On the Origin of Deformed Flux Tubes". *Astronomy and Astrophysics* 397:305-318.
474. López Fuentes, M. C., P. Demoulin, C. H. Mandrini, and L. Driels-Gesztelyi. 2000. "The Counterkink Rotation of a Non-Hale Active Region". *Astrophysical Journal* 544:540-549.
475. Lynch, David K. and William Livingston. 2001/1. *Color and light in nature*. 2nd ed. 2001 vols.: Cambridge University Press.
476. Ma, J., J. Wang, W. Cao, C. Denker, and H. Wang. 2004. "Near Infrared (NIR) Achromatic Phase Retarder". in *SPIE Vol.5523, Gravitational Wave and Particle Astrophysics Detectors*, edited by J.Hough and G.H.Sanders. 139-147.(SPIE).

477. Mackay, D. H., V. Gaizauskas, and A. A. van Ballegooijen. 2000. "Comparison of Theory and Observations of the Chirality of Filaments within a Dispersing Activity Complex". *Astrophysical Journal* 544:1122-1134.
478. Mackay, D. H. and V. Gaizauskas. 2003. "Helicity as a Component of Filament Formation". *Solar Physics* 216:121-142.
479. Malanushenko, A. et al. 2004. "Acoustic Holographic Studies of Solar Active Regions". edited by A.V.Stepanov, E.E.Benevolenskaya, and A.G.Kosovichev.(Cambridge University Press).
480. Malanushenko, O. V. 2004. "Analysis of He I 1083 nm Imaging Spectroscopy Using a Spectral Standard". *Solar Physics* 222:43-60.
481. Malanushenko, O. V. and H. P. Jones. 2005. "Differentiating Coronal Holes From the Quiet Sun by He 1083 Imaging Spectroscopy". *Solar Physics* 226:3-16.
482. Mandrini, C. H., P. Démoulin, and J. A. Klimchuk. 2000. "Magnetic Field and Plasma Scaling Laws: Their Implications for Coronal Heating Models". *Astrophysical Journal* 530:999-1015.
483. Mandrini, C. H., M. C. Lopez Fuentes, P. Demoulin, L. Van Driel-Gesztelyi, and A. A. Pevtsov. 2002. "On the Origin of Peculiar Active Regions". edited by Sawaya-Lacoste, ed. 121-124.(European Space Agency).
484. Marino, J., T. R. Rimmele, and E. Tatulli. 2003. "Long Exposure Point Spread Function Estimation Using Wavefront Sensor Data". edited by A.A.Pevtsov and eds. H.Uitenbroek. 69-76.(ASP).
485. Marino, J., T. R. Rimmele, and J. C. Christou. 2004. "Long Exposure Point Spread Function Estimation from Adaptive Optics Loop Data". in *SPIE vol.5490, Advancements in Adaptive Optics:* edited by D.Bonaccini, B.L.Ellerbroek, and R.Ragazzoni. 184-194.(SPIE).
486. Marsch, E., T. Wiegmann, and L. D. Xia. 2004. "Coronal Plasma Flows and Magnetic Fields in Solar Active Regions: Combined Observations from SOHO and NSO/KP". *Astronomy and Astrophysics* 428:629-645.
487. Martin, S. F. 2003. "Signs of Helicity in Solar Prominences and Related Features.". *Advances in Space Research vol.32, Magnetic Helicity at the Sun, in Solar Wind and Magnetospheres* 32, no. 10:1883-1893.
488. Martinez Pillet, V. 2000. "Spectral Signature of Uncombed Penumbral Magnetic Fields". *Astronomy and Astrophysics* 361:734-742.
489. McAteer, R. T. J., Peter T. Gallagher, David R. Williams, Mihalis Mathioudakis, Kenneth J. H. Phillips, and Francis P. Keenan. 2002. "Long-Period Chromospheric Oscillations in Network Bright Points". *Astrophysical Journal* 567:L165-L168.

490. McDonald, L., J. L. Culhane, S. A. Matthews, and L. K. Harra. 2002. "The Coronal Emission of Photospheric Magnetic Fragments". *Solar Physics* 211:125-134.
491. Meier, A., A. Goldman, P. S. Manning, T. M. Stephen, C. P. Rinsland, N. B. Jones, and S. W. Wood. 2004. "Improvements to air mass calculations for ground-based infrared measurements [rapid communication]". *Journal of Quantitative Spectroscopy and Radiative Transfer* 83:109-113.
492. Meunier, N. 2005. "Large-Scale Photospheric Dynamics Below Coronal Holes". *Astronomy and Astrophysics* 443:309-317.
493. Meunier, N. 2005. "Magnetic Network Dynamioocs: Activity Level, Feature Size and Anchoring Depth". *Astronomy and Astrophysics* 436:1075-1086.
494. Meunier, Nadège and Stuart M. Jefferies. 2000. "Two-dimensional Modeling of the Solar Oscillation l-ν Power Spectrum". *Astrophysical Journal* 530:1016-1025.
495. Mickey, D. L. 2004. "Alignment of Fabry-Perot Interferometer Plates in a Solar Vector Magnetograph". *Solar Physics* 220:21-27.
496. Miller-Ricci, Eliza and H. Uitenbroek. 2002. "Improving the Numerical Modeling of the O I Resonance Triplet in the Solar Spectrum". *Astrophysical Journal* 566:500-504.
497. Mininni, P. D., M. C. Lopez Fuentes, C. H. Mandrini, and D. O. Gomez. 2004. "Study of Bi-Orthogonal Modes in Magnetic Butterflies". *Solar Physics* 219:367-378.
498. Miralles, M. P., S. R. Cranmer, and J. L. Kohl. 2001. "Comparison of Empirical Models for Polar and Equatorial Coronal Holes". *Astrophysical Journal Letters* 549:L257-L260.
499. Miralles, M. P., S. R. Cranmer, and J. L. Kohl. 2001. "Ultraviolet Coronagraph Spectrometer Observations of a High-Latitude Coronal Hole with High Oxygen Temperatures and the Next Solar Cycle Polarity". *Astrophysical Journal* 560:L193-L196.
500. Missana, M. 2002. -65 pp.
501. Moon, Y. J., Y. D. Park, and H. S. Yun. 2004. "Flare-Associated Coronal Mass Ejections with Large Accelerations". *Astrophysical Journal* 615:1011-1020.
502. Moore, R. L., A. C. Sterling, H. S. Hudson, and J. R. Lemen. 2001. "Onset of the Magnetic Explosion in Solar Flares and Coronal Mass Ejections". *Astrophysical Journal* 552:833-848.
503. Moran, Thomas, Drake Deming, Donald E. Jennings, and George McCabe. 2000. "Solar Magnetic Field Studies Using the 12 Micron Emission Lines. III. Simultaneous Measurements at 12 and 1.6 Microns". *Astrophysical Journal* 533:1035-1042.

504. Moretto, G., T. R. Rimmele, and M. Langlois. 2004. "Multi-Conjugate Adaptive Optics Relay Optical Designs for a 4-Meter Off-Axis Solar Telescope". edited by S.Fineschi and M.A.Gummin. 171-178.(SPIE).
505. Moretto, G., M. Langlois, and T. R. Rimmele. 2004. "Multiconjugation Optical Relay for an Off-Axis Solar Telescope". *Publications of the Astronomical Society of the Pacific* 116:441-448.
506. Moretto, G., G. A. Gary, K. S. Balasubramaniam, and T. R. Rimmele. 2004. "Optical Design for a Fabry-Perot Image Interferometer for Solar Observations". edited by A.F.Moorwood and M.Iye. 1773-1777.(SPIE).
507. Moretto, G., M. P. Langlois, K. Richards, S. Hegwer, D. L. Gilliam, and T. R. Rimmele. 2004. "Optical Set-up and Design for Solar Multiconjugate Adaptive Optics at Dunn Solar Telescope/NSO". in *SPIE vol.5490, Advancements in Adaptive Optics: ..*, edited by D.Bonaccini, B.L.Ellerbroek, and R.Ragazzoni. 905-912.(SPIE).
508. Morgenthaler, J. P., W. M. Harris, F. Scherb, and et al. 2001. "Large-Aperture [O I] 6300 Angstrom Photometry of Comet Hale-Bopp; Implications for the Photochemistry of OH". *Astrophysical Journal* 563:451-461.
509. Mozer, J. B. and W. M. Briggs. 2003. "Skill in Real-Time Solar Wind Shock Forecasts". *Journal of Geophysical Research* A6:1262-1270.
510. Neidig, D. F., Wiborg, P. H., Mozer, J. B., Dalrymple, N. E., Dunn, R. B., Gullixson, C. A., Gregory, B. S., and Henry, T. W. 2004. "AFRL Technical Report VS-HA-TR-2004-1108, Instrumentation Papers no. 352". -113 pp.
511. Neidig, D. F. 2001. "New Optical System Automatically Monitors Solar Activity". edited by Not Given 2001 ed. 2001 (AFRL).
512. Neidig, D. F. 2001. "New Optical System Automatically Monitors Solar Activity". *AFRL Technology Horizons* 2:29-30.
513. Nghiem, P. A., R. A. Garcia, S. Turck-Chieze, and S. J. Jimenez-Reyes. 2003. "Magnetic field strength implied in the eigenfrequency variation related to the solar cycle". edited by H.Sawaya-Lacoste, ed. 357.(European Space Agency).
514. Nindos, A., S. M. White, M. R. Kundu, and D. E. Gary. 2000. "Observations and Models of a Flaring Loop". *Astrophysical Journal* 533:1053-1062.
515. Nindos, A., M. R. Kundu, S. M. White, K. Shibasaki, and N. Gopalswamy. 2000. "Soft X-Ray and Gyroresonance Emission above Sunspots". *Astrophysical Journal Supplement Series* 130:485-499.
516. Norton, A. A. and R. K. Ulrich. 2000. "Measuring Magnetic Oscillations in the Solar Photosphere: Coordinated Observations with MDI, ASP, and MWO". *Solar Physics* 192:403-413.

517. Norton, A. A. and H. Uitenbroek. 2002. "Observing MHD oscillations: the effects of vertical magnetic gradients and thermodynamic fluctuations". edited by H.Sawaya-Lacoste, ed. 281.(European Space Agency).
518. Norton, A. A. and H. Uitenbroek. 2003. "Observing MHD Oscillations in Sunspot". edited by E.Forgacs-Dajka, K.Petrovay, and R.Erdelyi. 109-120.(Eotvos University (Debrecen, Hungary)).
519. Norton, A. A. and P. A. Gilman. 2005. "Recovering Solar Toroidal Field Dynamics From Sunspot Location Patterns". *Astrophysical Journal* 630:1194-1205.
520. Norton, Aimee A. and Peter A. Gilman. 2004. "Magnetic Field-Minimum Intensity Correlation in Sunspots: A Tool for Solar Dynamo Diagnostics". *Astrophysical Journal* 603:348-354.
521. O'Brien, Leah C., Hong Cao, and James J. O'Brien. 2001. "Molecular Constants for the v=0, b¹Σ_g⁺ Excited State of O₂: Improved Values Derived from Measurements of the Oxygen A-Band Using Intracavity Laser Spectroscopy". *Journal of Molecular Spectroscopy* 207:99-103.
522. Oliversen, R. J. F., F. Scherb, W. H. Smyth, and M. E. et al Freed. 2001. "Sunlit Io Atmospheric OI 6300 Angstrom Emission and the Plasma Torus". *Journal Geophysical Research B: Space Physics* 106:26183-16194.
523. Ortega, T. 2000. "Quaking Sun". *Astronomy* 28, no. 1:60-63.
524. Oschmann, Jacobus M., Jr. 2004. "Systems engineering in ground-based astronomy". edited by P.J.Quinn and A.Bridger. 1-10.(SPIE).
525. Oschmann, Jim, N. E. Dalrymple, Mark Warner, Ron Price, Frank Hill, Rob Hubbard, T. R. Rimmele, Christoph U. Keller, and S. L. Keil. 2004. "Advanced Technology Solar Telescope: a progress report". in *SPIE vol.5171, Telescopes and Instrumentation for Solar Astrophysics.* , edited by S.Fineschi and eds. M.Gummin. 160-170.(SPIE).
526. Özgürç, A., V. Rusin, M. Rybanský, and W. Livingston. 2000. "Observations of the Total Solar Eclipse August 11, 1999". edited by W.C.Livingston and eds. A.Ozguc. 184-189.(ASP).
527. Paletou, F., A. Lopez Ariste, N. Meunier, and G. Molodij. 2004. "The Advanced Technology Solar Telescope". edited by F.Combes, D.Barret, T.Contini, and L.Pagani. 97-100.(EdP-Sciences).
528. Parekunnel, T., L. C. O'Brien, T. L. Kellerman, T. Hirao, M. Elhanine, and P. F. Bernath. 2001. "Fourier Transform Emission Spectroscopy of CuCl". *Journal of Molecular Spectroscopy* 206:27-32.
529. Pasachoff, J. M. 2003. "Round the World in Six Stops". edited by J.M.Pasachoff 2003 (Alpha Books, Inc.).

530. Penn, M. J. 2000. "An Erupting Active Region Filament: Three-Dimensional Trajectory and Hydrogen Column Density". *Solar Physics* 197:313-335.
531. Penn, M. J., H. Lin, S. Tomczyk, D. Elmore, and P. Judge. 2004. "Background-Induced Measurement Errors of the Coronal Intensity, Density, Velocity, and Magnetic Field". *Solar Physics* 222:61-78.
532. Penn, M. J., H. Lin, A. M. Schmidt, J. Gerke, and F. Hill. 2004. "Extinction and Sky Brightness at Two Solar Observatories". *Solar Physics* 220:107-120.
533. Penn, M. J., W. D. Cao, S. R. Walton, G. A. Chapman, and W. C. Livingston. 2003. "Imaging Spectropolarimetry of Ti I 2231 nm in a Sunspot". *Solar Physics* 215:87-97.
534. Penn, M. J. and H. P. Jones. 2003. "Stokes V Profiles in a Post-Flare Ca II 854.2 nm Downflow". edited by A.A.Pevtsov and eds. H.Uitenbroek. 355-362.(ASP).
535. Penn, M. J., S. Walton, G. Chapman, and J. Ceja. 2003. "Temperature Dependence of Molecular Line Strengths and Fe I 1565 nm Zeeman Splitting in a Sunspot". *Solar Physics* 213:55-67.
536. Penn, M. J., W. D. Cao, S. R. Walton, G. A. Chapman, and W. Livingston. 2003. "Weak Infrared Molecular Lines Reveal Rapid Outflow in Cool Magnetic Sunspot Penumbra Fibrils". *Astrophysical Journal Letters* 590:L119-L122.
537. Pevtsov, A. A. and H. Uitenbroek. 2003/6. Edited by A.A.Pevtsov and H.Uitenbroek. 2003 vols.: Astronomical Society of the Pacific.
538. Pevtsov, A. A. and H. eds. Uitenbroek. 2004/3. 2004 vols.: Astronomical Society of the Pacific.
539. Pevtsov, A. A. and D. F. Neidig. 2005. "Accumulation of Filament Material at the Boundaries of Supergranular Cells". in *ASP Conference Series Vol. 346, Large-Scale Structures and Their Role in Solar Activity. NSO Workshop no. 22.*, edited by A.A.Pevtsov, M.Penn, and K.Sankarsubramanian. 219-226.(Astronomical Society of the Pacific).
540. Pevtsov, A. A. 2002. "Active-Region Filaments and X-ray Sigmoids". *Solar Physics* 207:111-123.
541. Pevtsov, A. A., K. S. Balasubramaniam, and J. W. Rogers. 2003. "Chirality of Chromospheric Filaments". *Astrophysical Journal* 595:500-505.
542. Pevtsov, A. A., V. M. Maleev, and D. W. Longcope. 2003. "Helicity Evolution in Emerging Active Regions". *Astrophysical Journal* 593:1217-1225.
543. Pevtsov, A. A. 2003. "Helicity Generation and Signature in Solar Atmosphere". *Highlights in Astronomy* 13:21.

544. Pevtsov, A. A. and K. S. Balasubramaniam. 2003. "Helicity Patterns on the Sun". *Advances in Space Research vol.32, Magnetic Helicity at the Sun, in Solar Wind and Magnetospheres* 32, no. 10:1867-1874.
545. Pevtsov, A. A., R. C. Canfield, and S. M. Latushko. 2001. "Hemispheric Helicity Trend for Solar Cycle 23". *Astrophysical Journal Letters* 549:L261-L263.
546. Pevtsov, A. A., M. J. Hagyard, Z. Blehm, J. E. Smith, R. C. Canfield, T. Sakurai, and M. Hagino. 2003. "On a Cyclic Variation of the Hemispheric Helicity Rule". *Highlights of Astronomy* 13:35.
547. Pevtsov, A. A. and M. Kazachenko. 2004. "On the Role of Large-Scale Magnetic Reconnection in Coronal Heating". edited by R.W.Walsh, J.Ireland, D.Danesy, and B.Fleck. 241-246.(European Space Agency).
548. Pevtsov, A. A. and D. W. Longcope. 2001. "Origin of Helicity in the Quiet Sun". edited by M.Sigwarth, ed. 423-430.(ASP).
549. Pevtsov, A. A. 2002. "Sinuous Coronal Loops on the Sun". edited by P.C.Martens and D.Cauffman, eds. 125-134.(Pergamon).
550. Pevtsov, A. A. 2001. "Soft X-Ray Luminosity and Photospheric Magnetic Field in Quiet Sun". *Astrophysical Journal* 554:416-423.
551. Pevtsov, A. A. and Richard C. Canfield. 2001. "Solar magnetic fields and geomagnetic events". *Journal Geophysical Research* 106:25191-25198.
552. Pevtsov, A. A., G. H. Fisher, L. W. Acton, D. W. Longcope, C. M. Johns-Krull, C. C. Kankelborg, and T. R. Metcalf. 2003. "The Relationship Between X-Ray Radiance and Magnetic Flux". *Astrophysical Journal* 598:1387-1391.
553. Pevtsov, A. A. 2004. "Transequatorial Connections: Loops or Magnetic Separators?". edited by A.V.Stepanov, E.E.Benevolenskaya, and A.G.Kosovichev. 521-524.(Cambridge University Press).
554. Pevtsov, A. A. 2000. "Transequatorial Loops in the Solar Corona". *Astrophysical Journal* 531:553-560.
555. Pevtsov, A. A., K. S. Balasubramaniam, and W. J. Rogers. 2003. "Vorticity Patterns of Sunspot H-Alpha Whirls". *Advances in Space Research vol.32, Magnetic Helicity at the Sun, in Solar Wind and Magnetospheres* 32, no. 10:1905-1909.
556. Pécseli, Hans and Oddbjørn Engvold. 2000. "Modeling of prominence threads in magnetic fields: Levitation by incompressible MHD waves". *Solar Physics* 194:73-86.
557. Phillips, K. J. H., P. D. Read, P. T. Gallagher, F. P. Keenan, P. Rudawy, B. Rompolt, A. Berlicki, A. Buczylko, F. Diego, R. Barnsley, R. N. Smartt, J. M. Pasachoff, and B. A. Babcock.

2000. "SECIS: The Solar Eclipse Coronal Eclipse Imaging System". *Solar Physics* 193:259-271.
558. Pierce, A. Keith and James C. Lopresto. 2000. "Wavelength Shifts in the Solar Photospheric Spectrum". *Solar Physics* 196:41-50.
559. Potter, A. E., C. M. Anderson, R. M. Killen, and T. H. Morgan. 2002. "Ratio of Sodium to Potassium in the Mercury Exosphere". *Journal of Geophysical Research* 107, no. E6:1029-1036.
560. Potter, A. E., R. M. Killen, and T. H. Morgan. 2002. "The Sodium Tail of Mercury". *Meteoritics and Planetary Science* 37:1165-1172.
561. Povich, M. S., M. S. Giampapa, J. A. Valenti, T. Tilleman, S. Barden, D. Deming, W. C. Livingston, and C. Pilachowski. 2001. "Limits on Line Bisector Variability for Stars with Extrasolar Planets". *Astronomical Journal* 121:1136-1146.
562. Preminger, Dora G., Stephen R. Walton, and Gary A. Chapman. 2001. "Solar Feature Identification using Contrasts and Contiguity". *Solar Physics* 202:53-62.
563. Przybyilla, N. and K. Butler. 2004. "The Solar Hydrogen Spectrum in Non-Local Thermodynamic Equilibrium". *Astrophysical Journal Letters* 610:L61-L64.
564. Radick, R. R. 2000. "A Brief Survey of Chromospheric and Photospheric Variability Among Sunlike Stars". *Advances in Space Research* vol.26, 26, no. 11:1739-1745.
565. Radick, R. R. 2003. "Long-Term Solar Variability: Evolutionary Time Scales". in *Solar Variability and Its Effects on the Earth's Atmosphere and Climate System*, edited by J.Pap, P.Fox, and eds. C.Frolich. 5-14.(AGU).
566. Radick, R. R. 2001. "Stellar Irradiance Variations". edited by P.Brekke, B.Fleck, and eds. J.B.Gurman. 78-85.(ASP).
567. Radick, R. R., G. W. Lockwood, G. W. Henry, and S. L. Baliunas. 2004. "The Variability of Sunlike Stars on Decadal Timescales". in *IAU Symposium 219, Stars as Suns: Activity, Evolution, and Planets*, edited by A.K.Dupree and A.O.Benz. 264-.(Astronomical Society of the Pacific).
568. Radick, R. R. 2003. "Variability of Sunlike Stars". *Journal of Atmospheric and Solar-Terrestrial Physics* 65:105-112.
569. Radick, Richard R. 2002. "Solar Mass Ejection Imager (SMEI) space experiment". edited by O.H.Siegmund, S.Fineschi, and eds. M.A.Gummin. 84-90.(SPIE).
570. Rajaguru, S. P., S. J. Hughes, and M. J. Thompson. 2004. "Comparison of Noise Properties of GONG and MDI Time-Distance Helioseismic Data". *Solar Physics* 220:381-398.

571. Rajaguru, S. P., S. J. Hughes, and M. J. Thompson. 2003. "Time-distance analysis of GONG+ data". edited by H.Sawaya-Lacoste, ed. 75.(European Space Agency).
572. Ram, R. S. and P. F. Bernath. 2000. "Fourier Transform Emission Spectroscopy of the Low-Lying Electronic States of NbN". *Journal of Molecular Spectroscopy* 201:267-279.
573. Ram, R. S. and P. F. Bernath. 2003. "Fourier transform emission spectroscopy of the g⁴Delta-a⁴Delta system of FeCl". *Journal of Molecular Spectroscopy* 221:261-268.
574. Ram, R. S., N. Rinskopf, J. Liévin, and P. F. Bernath. 2004. "Fourier transform emission spectroscopy and ab initio calculations on NbCl". *Journal of Molecular Spectroscopy* 228:544-553.
575. Ram, R. S. and P. F. Bernath. 2000. "Fourier Transform Infrared Emission Spectroscopy of SeH". *Journal of Molecular Spectroscopy* 203:9-15.
576. Ram, R. S., P. F. Bernath, and S. P. Davis. 2001. "Fourier transform infrared emission spectroscopy of VCl". *Journal of Chemical Physics* 114:4457-4460.
577. Ram, R. S., A. G. Adam, A. Tsouli, J. Lievin, and P. F. Bernath. 2000. "High Resolution Spectroscopy and Ab Intio Calculations on HfCl". *Journal of Molecular Spectroscopy* 202:116.
578. Ram, R. S. and P. F. Bernath. 2001. "NOTE: The 7-0 Overtone Spectrum of HCl". *Journal of Molecular Spectroscopy* 207:285-286.
579. Ram, R. S., A. G. Adam, W. Sha, A. Tsouli, J. Liévin, and P. F. Bernath. 2001. "The electronic structure of ZrCl". *Journal of Chemical Physics* 114:3977-3987.
580. Rao, C. and W. H. Jiang. 2002. "Low-Order Adaptive Optics Compensation for a Low-Contrast Extended Object". edited by W.Jiang and R.K.Tyson. 20-26.(SPIE).
581. Rao, C. H., W. H. Jiang, N. Ling, and J. M. Beckers. 2001. "Tracking Algorithm for Low-Contrast Extended Object". *Acta Astronomica Sinica* 42:245-251.
582. Rao, C. H., W. H. Jiang, N. Ling, and J. M. Beckers. 2002. "Tracking algorithms for low-contrast extended objects". *Chinese Astronomy and Astrophysics* 26:115-124.
583. Rao, Chang Hui, Wen Han Jiang, Ning Ling, and Jacques M. Beckers. 2001. "An analysis of the observed contrast of solar surface granulation". *Chinese Astronomy and Astrophysics* 25:439-445.
584. Rao, Changhui, Wenhan Jiang, Ling Ning, and Jacques M. Beckers. 2002. "Correlation tracking algorithms for low-contrast extended object". edited by R.K.Tyson, D.Bonaccini, and eds. M.C.Roggemann. 245-251.(SPIE).

585. Rast, M. P., R. W. Meisner, B. W. Lites, P. A. Fox, and O. R. White. 2001. "Sunspot Bright Rings: Evidence from Case Studies". *Astrophysical Journal* 557:864-879.
586. Ravindra, B. and P. Venkatakrishnan. 2003. "On the Correlation Between the He II lambda 304 Network Brightening and the Photospheric Magnetic Field". *Solar Physics* 214:267-285.
587. Rees, D. E., A. López Ariste, J. Thatcher, and M. Semel. 2000. "Fast inversion of spectral lines using principal component analysis. I. Fundamentals". *Astronomy and Astrophysics* 355:759-768.
588. Ren, D., T. R. Rimmele, S. Hegwer, and L. Murray. 2003. "A Single-Mode Fiber Interferometer for the Adaptive Optics Wave-Front Test". *Publications of the Astronomical Society of the Pacific* 115:355-361.
589. Ren, D. and S. L. Hegwer. 2003. "Image Slicer Integral Field Unit for Solar Telescope". edited by S.L.Keil and S.V.Avakyan. 551-557.(SPIE).
590. Ren, Deqing, Ray M. Sharples, Jeremy R. Allington-Smith, George N. Dodsworth, David J. Robertson, and Gavin B. Dalton. 2001. "Design and construction of a fiber bundle connector using microlenses". *Optical Engineering* 40:2709-2717.
591. Ren, Deqing and Jeremy Allington-Smith. 2002. "On the Application of Integral Field Unit Design Theory for Imaging Spectroscopy". *Publications of the Astronomical Society of the Pacific* 114:866-878.
592. Ren, Deqing, Steven L. Hegwer, T. R. Rimmele, Leonid V. Didkovsky, and Philip R. Goode. 2003. "Optical design of high-order adaptive optics for the NSO Dunn Solar Telescope and the Big Bear Solar Observatory". edited by S.L.Keil and S.V.Avakyan, eds. 593-599.(SPIE).
593. Rhodes, E. J., Jr., J. Reiter, and J. Schou. 2003. "High-degree p-modes and the sun's evolving surface". edited by H.Sawaya-Lacoste, ed. 173.(European Space Agency).
594. Rhodes, Edward J., Jr., Johann Reiter, Jesper Schou, Alexander G. Kosovichev, and Philip H. Scherrer. 2001. "Observed and Predicted Ratios of the Horizontal and Vertical Components of the Solar p-Mode Velocity Eigenfunctions". *Astrophysical Journal* 561:1127-1143.
595. Richards, Kit, T. R. Rimmele, Reuben Hill, and Jianxin Chen. 2004. "High speed low latency solar adaptive optics camera". edited by S.Fineschi and M.A.Gummin. 316-325.(SPIE).
596. Rimmele, T. R., K. Richards, S. Hegwer, S. Fletcher, S. Gregory, G. Moretto, L. Didkovsky, C. Denker, A. I. Dolgushyn, P. R. Goode, M. Langlois, J. Marino, and W. H. Marquette. 2004. "First Results from the NSO/NJIT Solar Adaptive Optics System". edited by S.Fineschi and M.A.Gummin. 179-186.(SPIE).
597. Rimmele, T. R., R. P. Hubbard, K. S. Balasubramaniam, T. E. Berger, D. F. Elmore, G. A. Gary, D. E. Jennings, C. U. Keller, J. R. Kuhn, H. Lin, D. L. Mickey, G. Moretto, H. Socas-

- Navarro, J. O. Stenflo, and H. Wang. 2004. "Instrumentation for the Advanced Technology Solar Telescope". edited by A.F.Moorwood and M.Iye. 944-957.(SPIE).
598. Rimmele, T. R. 2004. "Plasma Flows Observed in Magnetic Flux Concentrations and Sunspot Fine Structure Using Adaptive Optics". *Astrophysical Journal* 604:906-923.
599. Rimmele, T. R. 2004. "Recent Advances in Solar Adaptive Optics". in *SPIE vol.5490, Advancements in Adaptive Optics*: edited by D.Bonaccini, B.L Ellerbroek, and R.Ragazzoni. 34-46.(SPIE).
600. Rimmele, T. R., S. L. Keil, C. Keller, F. Hill, M. Penn, B. Goodrich, S. Hegwer, R. Hubbard, J. Oschmann, and M. Warner. 2003. "Science Objectives and Technical Challenges of the Advanced Technology Solar Telescope". edited by A.A.Pevtsov and eds. H.Uitenbroek. 3-22.(ASP).
601. Rimmele, T. R. 2000. "Solar adaptive optics". edited by P.L.Wizinowich, ed. 218-231.(SPIE).
602. Rimmele, T. R., Kit Richards, Steven L. Hegwer, Deqing Ren, S. Fletcher, Scott Gregory, Leonid V. Didkovsky, Carsten J. Denker, William Marquette, J. Marino, and Philip R. Goode. 2003. "Solar adaptive optics: a progress report". edited by P.L.Wizinowich and D.Bonaccini. 635-646.(SPIE).
603. Rimmele, T. R., S. L. Keil, C. U. Keller, F. Hill, J. Briggs, N. Dalrymple, B. Goodrich, S. Hegwer, R. Hubbard, J. Oschmann, R. R. Radick, and and the ATST Team. 2003. "Technical Challenges of the Advanced Technology Solar Telescope". in *SPIE vol.4837, Large Ground-Based Telescopes*, edited by J.M.Oschmann and L.M.Stepp. 94-109.(SPIE).
604. Rinsland, C. P., V. Malathy Devi, M. A. H. Smith, D. Chris Benner, S. W. Sharpe, and R. L. Sams. 2003. "A multispectrum analysis of the @n"1 band of H^1^2C^1^4N: Part II. Air-and N"2-broadening, shifts and their temperature dependences". *Journal of Quantitative Spectroscopy and Radiative Transfer* 82:343-362.
605. Rinsland, C. P., A. Goldman, R. Zander, and E. Mahieu. 2001. "Enhanced Tropospheric HCN Columns Above Kitt Peak During the 1982-1983 and 1997-1998 El Nino Warm Phases". *Journal of Quantitative Spectroscopy and Radiative Transfer* 69:3-8.
606. Rinsland, C. P., J. M. Flaud, A. Perrin, M. Birk, G. Wagner, A. Goldman, A. Barbe, M. R. Backer-Barilly, S. N. Mikhailyenko, V. G. Tyuterev, M. A. H. Smith, V. Malathy Devi, D. C. Benner, F. Schreier, K. V. Chance, J. Orphal, and T. M. Stephen. 2003. "Spectroscopic parameters for ozone and its isotopes: recent measurements, outstanding issues, and prospects for improvements to HITRAN". *Journal of Quantitative Spectroscopy and Radiative Transfer* 82:207-218.
607. Rinsland, Curtis P., Aaron Goldman, Brian J. Connor, Thomas M. Stephen, Nicholas B. Jones, Stephen W. Wood, Frank J. Murcay, Shelle J. David, Ronald D. Blatherwick, Rodolphe Zander, Emmanuel Mahieu, and Phillip Demoulin. 2000. "Correlation relationships of

- stratospheric molecular constituents from high spectral resolution, ground-based infrared solar absorption spectra". *Journal Geophysical Research* 105:14637-14652.
608. Robert, O., J. C. Hilico, M. Loëte, J. P. Champion, and L. R. Brown. 2001. "First Assignment and Line Strengths of the 4ν₄ Band of ¹²CH₄ near 1.9 μm". *Journal of Molecular Spectroscopy* 209:14-23.
609. Rodriguez Hidalgo, I. and B. Ruiz Cobo. 2003. "Getting Photometric Spatial Resolution from 2-D Spectropolarimetric Data". edited by J.Trujillo-Bueno and J.Sanchez Almeida. 145-148.(Astronomical Society of the Pacific).
610. Rose, P., E. J. Rhodes, Jr., J. Reiter, and W. Rudnisky. 2003. "Studies of the sensitivity of p-mode oscillation frequencies to changing levels of solar activity". edited by H.Sawaya-Lacosta. 373.(European Space Agency).
611. Roth, M. 2001. "Anticorrelated Coupling p-Modes". *Astrophysical Journal* 559:1165-1170.
612. Roth, M., R. Howe, and R. Komm. 2002. "Detectability of Large-Scale Flows in Global Helioseismic Data-- a Numerical Experiment". *Astronomy and Astrophysics* 396:243-253.
613. Rothman, L. S., A. Barbe, D. Chris Benner, L. R. Brown, C. Camy-Peyret, M. R. Carleer, K. Chance, C. Clerbaux, V. Dana, V. M. Devi, A. Fayt, J. M. Flaud, R. R. Gamache, A. Goldman, D. Jacquemart, K. W. Jucks, W. J. Lafferty, J. Y. Mandin, S. T. Massie, V. Nemtchinov, D. A. Newham, A. Perrin, C. P. Rinsland, J. Schroeder, K. M. Smith, M. A. H. Smith, K. Tang, R. A. Toth, J. Vander Auwera, P. Varanasi, and K. Yoshino. 2003. "The HITRAN molecular spectroscopic database: edition of 2000 including updates through 2001". *Journal of Quantitative Spectroscopy and Radiative Transfer* 82:5-44.
614. Rudenko, G. V. 2001. "A constructing method for a self-consistent three-dimensional solution of the magnetohydrostatic equations using full-disk magnetogram data". *Solar Physics* 198:279-287.
615. Rudenko, G. V. 2001. "Extrapolation of the Solar Magnetic Field Within the Potential Field Approximation from Full-Disk Magnetograms". *Solar Physics* 198:5-30.
616. Rudenko, G. V. 2004. "On the Validity of Application of the Radial Approximation for the Photospheric Field". *Solar Physics* 220:1-20.
617. Rusin, V. 2000. "Shape and Structure of the White-Light Corona over Solar Cycles (Invited review)". edited by W, C Livingston and eds. A.Ozguc. 17-31.(ASP).
618. Ruzdjak, D., V. Ruzdjak, R. Brajsa, and H. Wohl. 2004. "Deceleration of the Rotational Velocities of Sunspot Groups During Their Evolution". *Solar Physics* 221:225-236.
619. Ruzmaikin, Alexander. 2000. "Can We Get the Bottom B?". *Solar Physics* 192:49-57.

620. Ryabov, B. I., V. P. Maksimov, S. V. Lesovoi, K. Shibasaki, A. Nindos, and A. A. Pevtsov. 2005. "Coronal Magnetography of Solar Active Region 8365 with the SSRT and NORT Radio Heliographs". *Solar Physics* 226:223-237.
621. Rybak, J., H. Wohl, A. Kucera, A. Hanslmeier, and O. Steiner. 2004. "Indications of Shock Waves in the Solar Photosphere". *Astronomy and Astrophysics* 420:1141-1152.
622. Rybansky, M., M. Minarovjech, and V. Rusin. 2003. "Evolution of the Green Corona in 1996-2002". *Solar Physics* 217:109-118.
623. Saez, F., A. N. Zhukov, P. Lamy, and A. Llebaria. 2005. "On the 3-Dimensional Structure of the Streamer Belt of the Solar Corona". *Astronomy and Astrophysics* 442:351-358.
624. Sakurai, T. 2001. "Stokes Profile Inversion without Resort to Specific Atmospheric Models". edited by M.Sigwarth, ed. 535-542.(ASP).
625. Salabert, E., E. Fossat, B. Gelly, S. Kholikov, G. Grec, M. Lazrek, and F. Schmider. 2004. "Solar p-Modes in 10 Years of the IRIS Network". *Astronomy and Astrophysics* 413:1135-1142.
626. Sankarasubramanian, K. and T. R. Rimmele. 2002. "Bisector Analysis of Stokes Profiles: Effects Due to Gradients in the Physical Parameters". *Astrophysical Journal* 576:1048-1063.
627. Sankarasubramanian, K., D. F. Elmore, B. W. Lites, M. Sigwarth, T. R. Rimmele, S. Hegwer, S. Gregory, K. V. Streander, L. Wilkins, K. Richards, and C. Berst. 2003. "Diffraction Limited Spectro-Polarimeter-- Phase I". edited by S.Fineschi, ed. 414-424.(SPIE).
628. Sankarasubramanian, K. and T. R. Rimmele. 2002. "On the V-Profile Asymmetries in Sunspots". edited by B.Fleck, et al.(ESA).
629. Sankarasubramanian, K. and T. R. Rimmele. 2003. "Properties of Magnetic and Velocity Fields in and Around Solar Pores". *Astrophysical Journal* 598:689-699.
630. Sankarasubramanian, K. and T. R. Rimmele. 2003. "Statistical Properties of Asymmetries in and Around Sunspots". edited by A.A.Pevtsov and eds. H.Uitenbroek. 243-250.(ASP).
631. Sankarasubramanian, K., Craig Gullixson, Stephen Hegwer, T. R. Rimmele, Scott Gregory, Tony Spence, Stephen Fletcher, Kit Richards, Emilie Rousset, Bruce Lites, David Elmore, Kim Streander, and Michael Sigwarth. 2004. "The Diffraction Limited Spectro-Polarimeter: a new instrument for high-resolution solar polarimetry". edited by S.Fineschi and M.A.Gummin. 207-218.(SPIE).
632. Sankarasubramanian, K. and T. R. Rimmele. 2003. "Velocity and Magnetic Fields in and Around Pores". edited by A.A.Pevtsov. and eds. H.Uitenbroek. 291-298.(ASP).
633. Sankarsubramanian, K., M. J. Penn, and A. A. Pevtsov. 2005/12. *ASP Conference Series Vol. 346, Large-Scale Structures and Their Role in Solar Activity. NSO Workshop no. 22 (Published Proceedings)*. 432 pp.: Astronomical Society of the Pacific.

634. Sattarov, I., A. A. Pevtsov, N. V. Karachik, and B. J. Sattarova. 2005. "Active Longitudes in Distribution of EIT Bright Points". in *ASP Conference Series Vol. 346, Large-Scale Structures and Their Role in Solar Activity. NSO Workshop no. 22.*, edited by A.A.Pevtsov, M.Penn, and K.Sankarsubramanian. 395-400.(Astronomical Society of the Pacific).
635. Sattarov, I., A. A. Pevtsov, N. V. Karachik, and B. J. Sattarova. 2005. "Large-Scale Structures in Distribution of Coronal Bright Points". in *ASP Conference Series Vol. 346, Large-Scale Structures and Their Role in Solar Activity. NSO Workshop no. 22.*, edited by K.Sankarasubramaniam, M.Penn, and A.A.Pevtsov. 363-368.(Astronomical Society of the Pacific).
636. Sattarov, I., A. A. Pevtsov, N. V. Karachev, and A. M. Tillaboev. 2004. "Latitudinal Distribution of the Coronal Bright Points at Solar Minimum and the Rising Phase of Solar Activity Cycle 23". edited by A.V.Stepanov, E.E.Benevolenskaya, and eds. A.G.Kosovichev. 665-666.(Cambridge University Press).
637. Sattarov, I., A. A. Pevtsov, N. V. Karachev, and C. T. Sheridanov. 2004. "Number of Coronal Bright Points in Different Phases of the Solar Activity Cycle". edited by A.V.Stepanov, E.E.Benevolenskaya, and eds. A.G.Kosovichev. 667-668.(Cambridge University Press).
638. Sattarov, I., A. A. Pevtsov, A. S. Hojaev, and C. T. Sheridanov. 2002. "Solar Cycle Dependency of X-Ray Bright Points and Photospheric Bipoles". edited by P.C.Martens and D.Cauffman, eds. 97-98.(Pergamon).
639. Sattarov, I., A. A. Pevtsov, U. Begimqulov, C. Sheridanov, and M. Saidalieva. 2003. "Statistical Study of X-Ray and EUV Bright Points". edited by A.A.Pevtsov and eds. H.Uitenbroek. 393-396.(ASP).
640. Sattarov, Isroil, A. A. Pevtsov, Alisher S. Hojaev, and C. T. Sheridanov. 2002. "X-Ray Bright Points and Photospheric Bipoles during Cycles 22 and 23". *Astrophysical Journal* 564:1042-1047.
641. Saunter, C. D., M. Langlois, C. N. Dunlop, and G. D. Love. 2004. "Multi-Conjugate Adaptive Optics in the Lab in the Lab". edited by R.K.Tyson and M.Lloyd-Hart. 262-267.(SPIE).
642. Schou, J., R. Howe, S. Basu, J. Christensen-Dalsgaard, T. Corbard, F. Hill, R. Komm, R. M. Larsen, M. C. Rabello-Soares, and M. J. Thompson. 2002. "A Comparison of Solar p-Mode Parameters from the Michelson Doppler Imager and the Global Oscillation Network Group: Splitting Coefficients and Rotation Inversions". *Astrophysical Journal* 567:1234-1249.
643. Schou, J. 2001. "A new class of solar oscillation measurements". edited by P.Brekke, B.Fleck, and J.B.Gurman. 21.(Kluwer Academic).
644. Schou, J. 2003. "Helioseismic Data Analysis". edited by M.J.Thompson and eds. J.Christensen-Dalsgaard. 247.(Cambridge University Press).

645. Schrijver, C. J. and A. M. Title. 2001. "On the Formation of Polar Spots in Sun-Like Stars". *Astrophysical Journal* 551:1099-1106.
646. Schrijver, C. J. and M. L. DeRosa. 2003. "Photospheric and Heliospheric Magnetic Fields". *Solar Physics* 212:165-200.
647. Serebryanskiy, A., S. Ehgamberdiev, S. Kholikov, E. Fossat, B. Gelly, F. X. Schmider, G. Grec, A. Cacciani, P. L. Palle, M. Lazrek, and J. T. Hoeksema. 2001. "An estimation of global solar p-mode frequencies from IRIS network data: 1989-1996". *New Astronomy* 6:189-195.
648. Serebryanskiy, A. and D. Chou. 2005. "Comparison of Solar Cycle Variations of Solar p-Mode Frequencies from GONG and MDI". *Astrophysical Journal* 633:1187-1190.
649. Settele, A., M. Sigwarth, and K. Muglach. 2002. "Temporal and spatial variations of the magnetic field vector in sunspots". *Astronomy and Astrophysics* 392:1095-1104.
650. Severino, G., M. Magrì, M. Oliviero, Th Straus, and S. M. Jefferies. 2001. "The Solar Intensity-Velocity Cross Spectrum: A Powerful Diagnostic for Helioseismology". *Astrophysical Journal* 561:444-449.
651. Shaltout, A. E. M. 2005/4. 2005 vols.: Cairo University (Egypt).
652. Sheeley, N. R. and C. U. Keller. 2003. "Linear Polarization Measurements of Chromospheric Emission Lines". *Astrophysical Journal* 594:1085-1101.
653. Shi, F. 2000/5. 2000 vols.: University of Chicago.
654. Shine, R. A., G. W. Simon, and N. E. Hurlburt. 2000. "Supergranule and Mesogranule Evolution". *Solar Physics* 193:313-331.
655. Sigwarth, M. 2001. "A New Stokes Polarimeter for the Dunn Solar Telescope". edited by M.Sigwarth, ed. 57-64.(ASP).
656. Sigwarth, M. 2001/9. *Advanced Solar Polarimetry -- Theory, Observation, and Instrumentation - 20TH NSO/Sac Summer Workshop*. 2001 vols.: Astronomical Society of the Pacific.
657. Sigwarth, M. 2001. "Advanced Solar Polarimetry-- Theory, Observation, and Instrumentation: the 20th NSO/Sacramento Peak Summer Workshop". *Publications of the Astronomical Society of the Pacific* 113:260-261.
658. Sigwarth, M. 2001. "Dynamics of Solar Magnetic Fields: A Spectroscopic Investigation". *Reviews in Modern Astronomy* 13:45.
659. Sigwarth, M. 2001. "Properties and Origin of Asymmetric and Unusual Stokes V Profiles Observed in Solar Magnetic Fields". *Astrophysical Journal* 563:1031-1044.

660. Simon, G. W. 2001. "Solar Photosphere: Supergranulation". edited by P.Murdin, ed. 2001 ed. 2001 (MacMillan).
661. Simon, G. W. 2002. "Supergranulation". edited by xxx, ed. 9th ed. 2002 (McGraw-Hill).
662. Simon, G. W., A. M. Title, and N. O. Weiss. 2001. "Sustaining the Sun's Magnetic Network with Emerging Bipoles". *Astrophysical Journal* 561:427-434.
663. Sivaraman, K. R. and M. H. Gokhale. 2004. "Anchor Depths of Flux Elements and Depths of Flux Sources in Relation to the Two Rotation Profiles of the Sun's Surface Magnetic Fields". *Solar Physics* 221:209-223.
664. Sivaraman, K. R., H. Sivaraman, S. S. Gupta, and R. F. Howard. 2003. "Measurement of Kodaikanal White-Light Images. VI. Variation of Rotation Rate with Age of Sunspot Groups". *Solar Physics* 214:65-87.
665. Sivaraman, K. R., S. S. Gupta, W. C. Livingston, L. Damé, W. Kalkofen, C. U. Keller, R. Smartt, and S. S. Hasan. 2000. "Results from a revisit to the K_{2V} bright points". *Astronomy and Astrophysics* 363:279-288.
666. Skartlien, R. and M. P. Rast. 2000. "p-Mode Intensity-Velocity Phase Differences and Convective Sources". *Astrophysical Journal* 535:464-472.
667. Smaldone, L. A., O. Scognamiglio, and K. S. Balasubramaniam. 2001. "Solar Activity Diagnostic Potential of Blue Spectral Lines". edited by H.Sawaya-Lacosta. 51.(European Space Agency).
668. Smaldone, L. A., O. Scognamiglio, and K. S. Balasubramaniam. 2001. "Understand Spectroheliograms-- Insight from Spectral Line Analysis". *Memorie della Societa Astronomica Italiana* 72:553.
669. Smartt, R. N. and E. W. Cross. 2002. "Advances in Spherical-Mirror Telescopic Systems Design: Application to Large-Aperture Solar Coronagraphs". *Optical Engineering* 41:2055-2058.
670. Smartt, R. N. and G. Paez. 2005. "Application of Point-Diffraction Interferometry to Testing Infrared Imaging Systems". edited by M.Strojnik. 79-91.(SPIE).
671. Smartt, R. N., P. E. Ciddor, A. J. Leistner, and J. A. Seckold. 2002. "Long-Term Stability of Optical Surfaces". *Optical Engineering* 41:2688-2691.
672. Smartt, R. N., M. Strojnik, and J. Sandoval. 2003. "Precision Optical Components and Their Long-Term Stability: Directions for Further Studies". edited by M.Strojnik. 150-161.(SPIE).
673. Sneden, C., J. J. Cowan, I. Evans, G. Fuller, S. Burles, T. C. Beers, and J. E. Lawler. 2000. "Evidence of Multiple r-Process Sites: New Observations of CS 22892-052". *Astrophysical Journal Letters* 533:L139.

674. Snodgrass, H. B. and A. A. Smith. 2001. "On the Use of Correlations to Determine the Motions and Properties of Mesoscale Magnetic Features in the Solar Photosphere". *Astrophysical Journal* 546:528-541.
675. Snodgrass, Herschel B. and Adam A. Smith. 2000. "The effects of meridional motion on the determination of rotation by tracer tracking". *Solar Physics* 191:21-35.
676. Socas-Navarro, H., V. Martinez Pillet, and B. W. Lites. 2004. "Magnetic Properties of the Solar Internetwork". *Astrophysical Journal* 611:1139-1148.
677. Socas-Navarro, H. and B. W. Lites. 2004. "Observational Evidence for Small-Scale Mixture of Weak and Strong Fields in the Quiet Sun". *Astrophysical Journal* 616:587-593.
678. Socas-Navarro, H. and H. Uitenbroek. 2004. "On the Diagnostic Potential of H-alpha for Chromospheric Magnetism". *Astrophysical Journal Letters* 603:L129-L132.
679. Socas-Navarro, H. and D. Elmore. 2005. "Physical Properties of Spicules from Simultaneous Spectropolarimetric Observations of He I and Ca II Lines". *Astrophysical Journal Letters* 619:L195-L198.
680. Socas-Navarro, H. and R. Manso Sainz. 2005. "Shocks in the Quiet Solar Photosphere: A Rather Common Occurrence". *Astrophysical Journal Letters* 620:L71-L74.
681. Socas-Navarro, H. 2005. "The Three-Dimensional Structure of a Sunspot Magnetic Field". *Astrophysical Journal Letters* 631:L167-L170.
682. Sofia, S., S. Basu, P. Demarque, L. Li, and G. Thuillier. 2005. "The Nonhomologous Nature of Solar Diameter Variations". *Astrophysical Journal Letters* 632:L147-L150.
683. Solanki, S. K. 2003. "Sunspots: an Overview". *Astronomy and Astrophysics Review* 11:153-286.
684. Spirock, T., V. B. Yurchyshyn, and H. Wang. 2002. "Rapid Changes in the Longitudinal Magnetic Field Related with the 2001 April 2 X20 Flare". *Astrophysical Journal* 572:1072-1076.
685. Spruit, H. C. 2003. "Origin of the Torsional Oscillation Pattern of Solar Rotation". *Solar Physics* 213:1-21.
686. Sridharan, R. 2002. "Techniques for Achieving Higher Spatial Resolution". *Bulletin of the Astronomical Society of India* 30:837-845.
687. Steiner, O. 2001. "The Formation of Asymmetric Stokes V Profiles in the Presence of a Magnetopause". edited by M.Sigwarth, ed. 587-595.(ASP).
688. Stenflo, J. O., C. U. Keller, and A. Gandorfer. 2000. "Anomalous polarization effects due to coherent scattering on the Sun". *Astronomy and Astrophysics* 355:789-803.

689. Stenflo, J. O., A. Gandorfer, and C. U. Keller. 2000. "Center-to-limb variation of the enigmatic Na I D₁ and D₂ polarization profiles". *Astronomy and Astrophysics* 355:781-788.
690. Stenflo, J. O., A. Gandorfer, T. Wenzler, and C. U. Keller. 2001. "Influence of Magnetic Fields on the Coherence Effects in the NaID(sub)1 and D(sub)2 Lines". *Astronomy and Astrophysics* 367:1033-1048.
691. Stenflo, J. O. 2005. "Polarization of the Sun's Continuous Spectrum". *Astronomy and Astrophysics* 429:713-730.
692. Stenflo, J. O. 2003. "Scattering Polarization in Magnetic Fields: Anomalies, Surprises, and Enigmas". edited by J.Trujillo-Bueno and J.Sanchez Almeida. 385-398.(Astronomical Society of the Pacific).
693. Stenflo, J. O., A. Gandorfer, R. Holzreuter, D. Gisler, C. U. Keller, and M. Bianda. 2002. "Spatial Mapping of the Hanle and Zeeman Effects on the Sun". *Astronomy and Astrophysics* 389:314-324.
694. Stenflo, J. O. 2003. "Spectro-Polarimetric Observations: What's Next?". edited by J.Trujillo-Bueno and J.Sanchez Almeida. 583-592.(Astronomical Society of the Pacific).
695. Stenflo, Jan O. 2003. "Imaging polarimetry: opportunities and limitations". edited by S.Fineschi. 76-88.(SPIE).
696. Strassmeier, K. G., A. Hofmann, M. Woche, J. B. Rice, C. U. Keller, N. E. Piskunov, and R. Pallavicini. 2003. "The PEPSI Spectro-Polarimeter for the LBT". edited by S.Fineschi, ed.(SPIE).
697. Strous, Louis H., Philip R. Goode, and T. R. Rimmele. 2000. "The Dynamics of the Excitation of Solar Oscillations". *Astrophysical Journal* 535:1000-1013.
698. Subramanian, Prasad and K. P. Dere. 2001. "Source Regions of Coronal Mass Ejections". *Astrophysical Journal* 561:372-395.
699. Sudol, J. J. and J. W. Harvey. 2004. "Changes in the Longitudinal Magnetic Field During Solar Flares". edited by D.Danesy. 643-648.(European Space Agency).
700. Sudol, J. J. 2003. "Is Content All That Important?". *Astronomy Education Review* 2, no. 2:xxx.
701. Sudol, J. J. and J. W. Harvey. 2005. "Longitudinal Magnetic Field Changes Accompanying Solar Flares". *Astrophysical Journal* 635:647-658.
702. Suess, S. T. and S. F. Nerney. 2002. "Stagnation Flow in Streamer Boundaries". *Astrophysical Journal* 565:1275-1288.
703. Sun, M., D. Chou, and and the Ton Team. 2002. "The Inversion Problem of Phase Travel Time Perturbations in Acoustic Imaging". *Solar Physics* 209:5-20.

704. Tang, Y. H., Y. N. Li, C. Fang, G. Aulanier, B. Schmieder, P. Demoulin, and T. Sakurai. 2000. "H α ; and Soft X-Ray Brightening Events Caused by Emerging Flux". *Astrophysical Journal* 534:482-489.
705. Tappin, S. J., A. J. Buffington, M. P. Cooke, C. J. Eyles, P. P. Hick, P. E. Holladay, B. V. Jackson, J. C. Johnston, T. Kuchar, D. Mizuno, J. B. Mozer, S. Price, R. R. Radick, G. M. Simnett, D. Sinclair, N. R. Waltham, and D. F. Webb. 2004. "Tracking a Major Interplanetary Disturbance with SMEI". *Geophysical Research Letters* 31:2802.
706. Tapping, K. F. and C. Zwaan. 2001. "Sources of the Slowly-Varying Component of Solar Microwave Emission and Their Relationship with Their Host Active Regions". *Solar Physics* 199:317-344.
707. Temmer, M., J. Rybak, A. Veronig, and A. Hanslmeier. 2005. "What Causes the 24-Day Period Observed in Solar Flares?". *Astronomy and Astrophysics* 433:707-712.
708. Teriaca, L., A. Falchi, G. Cauzzi, R. Falciani, L. A. Smaldone, and V. Andretta. 2003. "Solar and Heliospheric Observatory: Coronal Diagnostic Spectrograph and Ground-Based Observations of a Two-Ribbon Flare: Spatially Resolved Signatures of Chromospheric Evaporation". *Astrophysical Journal* 588:596-605.
709. Terradas, J., R. Molowny, E. Wiehr, H. Balthasar, R. Oliver, and J. L. Ballester. 2002. "Two-Dimensional Distribution of Oscillations in a Quiescent Solar Prominence". *Astronomy and Astrophysics* 393:637-647.
710. Thomas, J. H. and N. O. Weiss. 2004. "Fine Structure in Sunspots". *Annual Review of Astronomy and Astrophysics* 42:517-548.
711. Thomas, J. H. 2002. "Solar Physics: the Sun Under a Microscope". *Nature* 420:134-135.
712. Thomas, John H. and Donald C. H. Stanchfield, II. 2000. "Fine-Scale Magnetic Effects on P-Modes and Higher Frequency Acoustic Waves in a Solar Active Region". *Astrophysical Journal* 537:1086-1093.
713. Thompson, Michael J. 2003. "Helioseismology present and future". edited by H.Sawaya-Lacoste. 209.(European Space Agency).
714. Thompson, Michael J., J. Christensen-Dalsgaard, Mark S. Miesch, and Juri Toomre. 2003. "The Internal Rotation of the Sun". *Annual Review of Astronomy and Astrophysics* 41:599-643.
715. Tlatov, A. G. 2003. "Dark Areas in He I 10830 and Their Relation with Other Effects of Solar Activity". *Solar Physics* 216:21-26.
716. Toner, C. G. and J. N. Goodrich. 2004. "A First Look at the June 8 2004 Venus Transit as Observed by GONG". edited by D.Danesy. 657-659.(European Space Agency).
717. Toner, C. G., D. Haber, T. Corbard, R. Bogart, and B. Hindman. 2003. "An image merge for GONG+". edited by H.Sawaya-Lacoste, ed. 405-407.(European Space Agency).

718. Toner, C. G. 2001. "On the absolute alignment of GONG images". edited by A.Wilson, ed. 355.(ESA).
719. Toomre, J. 2003. "Bridges Between Helioseismology and Models of Convection Zone Dynamics". edited by M.J.Thompson and eds. J.Christensen-Dalsgaard. 299.(Cambridge University Press).
720. Toomre, J., J. Christensen-Dalsgaard, R. Howe, R. M. Larsen, J. Schou, and M. J. Thompson. 2000. "Time Variability of Rotation in Solar Convection Zone From soi-mdi". *Solar Physics* 192:437-448.
721. Toomre, J., J. Christensen-Dalsgaard, F. Hill, R. Howe, R. W. Komm, J. Schou, and M. J. Thompson. 2003. "Transient Oscillations Near the Solar Tachocline". edited by A.Wilson, ed. 409.(ESA).
722. Toomre, Juri. 2003. "Overview - where do we stand with helioseismology?". edited by H.Sawaya-Lacoste, ed. 3-14.(European Space Agency).
723. Toth, Robert A. 2000. "Air- and N₂-Broadening Parameters of Water Vapor: 604 to 2271 cm⁻¹". *Journal of Molecular Spectroscopy* 201:218-243.
724. Toussaint, R. M., J. W. Harvey, and D. Toussaint. 2003. "Improved Convergence for CCD Gain Calibration Using SOR Techniques". *Astronomical Journal* 126:1112.
725. Tripathy, S. C., B. Kumar, K. Jain, and A. Bhatnagar. 2001. "Analysis of Hysteresis Effect in p-Mode Frequency Shifts and Solar Activity Indices". *Solar Physics* 200:3-10.
726. Tripathy, S. C., Kiran Jain, and A. Bhatnagar. 2000. "Helioseismic Solar Cycle Changes and Splitting Coefficients". *Journal of Astrophysics and Astronomy* 21:349.
727. Tripathy, S. C., B. Kumar, K. Jain, and A. Bhatnagar. 2000. "Observation of Hysteresis Between Solar Activity Indicators and p-mode Frequency Shifts for Solar Cycle 22". *Journal of Astrophysics and Astronomy* 21:357.
728. Tripathy, S. C., F. Hill, K. Jain, and A. Bhatnagar. 2003. "Variations of Solar p-mode Frequencies on Time Scales Comparable to the Sun's Rotation Period". edited by S.C.Tripathy and eds. P.V.Venkatkrishnan. 19-24.(Alpha Science).
729. Tritschler, A., W. Schmidt, and T. R. Rimmele. 2002. "Downflows Around a Solar Pore". edited by A.Wilson. 477-478.(European Space Agency).
730. Tritschler, K., W. Schmidt, and T. R. Rimmele. 2003. "Annular Downflow Around a Solar Pore". *Astronomische Nachrichten Supplementary Issue* 324, no. 2:54.
731. Tumturk, Sinan, L. C. O'Brien, and James J. O'Brien. 2004. "Fourier transform spectroscopy of NiCl: identification of a [9.1] Omega=3/2 state". *Journal of Molecular Spectroscopy* 225:225-229.

732. Tvedt, J. E. 2002. "The Application of CORBA to the SOLIS Communications System". edited by H.Lewis, ed. 23.(SPIE).
733. Uitenbroek, H. 2004. "Chromospheric Heating and CO Simulations". edited by A.O.Benz and A.K.Dupree. 112.(Kluwer).
734. Uitenbroek, H. 2003. "Multi-level Accelerated Lambda Iteration with Partial Redistribution". edited by I.Hubeny, D.Mihalas, and K.Werner. 597.(Astronomical Society of the Pacific).
735. Uitenbroek, H. 2001. "Multi-Level Radiative Transfer with Partial Frequency Redistribution". *Astrophysical Journal* 557:389-398.
736. Uitenbroek, H. 2004. "Observational Aspects of Waves in the Chromosphere". edited by H.Lacoste. 107.(European Space Agency).
737. Uitenbroek, H. 2003. "Radiative Transfer Modeling of Magnetic Fluxtubes". edited by A.A.Pevtsov and eds. H.Uitenbroek. 403-418.(ASP).
738. Uitenbroek, H. 2003. "The Accuracy of the Center-of-Gravity Method for Measuring Velocity and Magnetic Field Strength in the Solar Photosphere". *Astrophysical Journal* 592:1225-1233.
739. Uitenbroek, H. 2000. "The CO Fundamental Vibration-Rotation Lines in the Solar Spectrum. II. Non-LTE Transfer Modeling in Static and Dynamic Atmospheres". *Astrophysical Journal* 536:481-493.
740. Uitenbroek, H. 2000. "The CO Fundamental Vibration-Rotation Lines in the Solar Spectrum. I. Imaging Spectroscopy and Multidimensional LTE Modeling". *Astrophysical Journal* 531:571-584.
741. Uitenbroek, H. 2002. "The Effect of Coherent Scattering on Radiative Losses in the Solar Ca II K Line". *Astrophysical Journal* 565:1312-1322.
742. Uitenbroek, H., E. Miller-Ricci, A. Asencio Ramos, and J. Trujillo Bueno. 2004. "The Zeeman Effect in the G Band". *Astrophysical Journal* 604:960-968.
743. Ulrich, R. K., P. Boumier, J. M. Robillot, R. A. García, T. Roca Cortés, and C. J. Henney. 2000. "Simulation of resonance scattering helioseismometer signals from spatially resolved images: Application to the GOLF instrument on SOHO". *Astronomy and Astrophysics* 364:816-828.
744. Uralov, A. M., H. Nakajima, V. G. Zandanov, and V. V. Grechnev. 2000. "Current-sheet-associated radio sources and development of the magnetosphere of an active region revealed from 17 GHz and Yohkoh data". *Solar Physics* 197:275-312.
745. Vajpayee, P., A. Bhatnagar, K. Jain, and S. C. Tripathy. 2003. "Estimation of Solar Seeing from GONG Data". edited by S.C.Tripathy and eds. P.V.Venkatkrishnan. 209.(Alpha Science).

746. van Ballegooijen, A. A. 2004. "Observations and Modeling of a Filament on the Sun". *Astrophysical Journal* 612:519-529.
747. Varadi, F., R. K. Ulrich, L. Bertello, and C. J. Henney. 2000. "Random-Lag Singular Cross-Spectrum Analysis". *Astrophysical Journal* 528:L53-L56.
748. Vecchio, A., L. Primavera, V. Carbone, and L Sorriso-Valvo. 2005. "Periodic Behavior and Stochastic Fluctuations of Solar Activity: Proper Orthogonal Decomposition Analysis". *Solar Physics* 229:359-372.
749. Venkatakrishnan, P. 2003. "Magnetic Field Related Variations in the Solar Acoustic Spectra". edited by S.C.Tripathy and eds. P.Venkatakrishnan. 203.(Alpha Science).
750. Venkatakrishnan, P., Brajesh Kumar, and S. C. Tripathy. 2001. "Search for Spatial Variability in the Solar Acoustic Spectrum". *Solar Physics* 202:229-239.
751. Venkatakrishnan, P., B. Kumar, and S. C. Tripathy. 2002. "Variation of Acoustic Power with Magnetic Field as Seen in GONG+ Data". *Solar Physics* 211:77-81.
752. Vince, I., O. Vince, A. Ludmany, and O. Andriyenko. 2005. "The Mn I 539.47 nm Line Variation in Solar Active Regions". *Solar Physics* 229:273-285.
753. Virgili, F. and Dalrymple, N.2003. "ATST Technical Note TN-0024". -ii, 38 pp.
754. Vorontsov, S. V., E. Covas, D. Moss, and R. Tavakol. 2003. "Solar torsional oscillations: helioseismic measurements versus dynamo modelling". edited by H.Sawaya-Lacoste, ed. 35.(European Space Agency).
755. Wallace, L., Hinkle, K., and Livingston, W.1-1-2000. "An atlas of sunspot umbral spectra in the visible, from 15,000 to 25,500 cm(-1) (3920 to 6664 [Angstrom])".
756. Wallace, L. and Livingston, W.1-1-2003. "An atlas of the solar spectrum in the infrared from 1850 to 9000 cm-1 (1.1 to 5.4 micrometer)". -288 pp.
757. Wallace, L., K. Hinkle, and W. C. Livingston. 2001. "Sunspot umbral spectra in the region 4000 to 8640 cm(-1) (1.16 to 2.50 [microns])". *NSO Technical Report #01-001; Tucson: National Solar Observatory, 2001.*
758. Wallace, L., K. Hinkle, and W. C. Livingston. 2002. "Sunspot umbral spectra in the regions 1925 to 2226 and 2392 to 3480 cm(-1) (2.87 to 4.18 and 4.48 to 5.35 [microns])". *NSO Technical Report #02-001; Tucson: National Solar Observatory, 2002.*
759. Wampler, S. 2002. "High Performance Data Processing using Distributed Computing on the SOLIS Project". edited by H.Lewis, ed. 85.(SPIE).
760. Wampler, S. B. and B. D. Goodrich. 2004. "An Implementation of the ATST Virtual Instrument Model". edited by H.Lewis and G.Raffi. 356-363.(SPIE).

761. Wang, Y. M. and N. R. and Sheeley. 2002. "Coronal White-Light Jets Near Sunspot Maximum". *Astrophysical Journal* 575:542-552.
762. Wang, Y. M., N. R. Sheeley, and J. Lean. 2002. "Meridional Flow and the Solar Cycle Variation of the Sun's Open Magnetic Flux". *Astrophysical Journal* 580:1188-1196.
763. Wang, Y. M. and N. R. Sheeley. 2003. "The Solar Wind and its Magnetic Sources at Sunspot Maximum". *Astrophysical Journal* 587:818-822.
764. Webb, D. F., J. C. Johnson, and R. R. Radick. 2002. "The Solar Mass Ejection Imager (SMEI): A New Tool for Space Weather". *EOS Trans.Am.Geophys.Union* 83, no. 33:38-39.
765. Wenzler, T., S. K. Solanki, and N. A. Krivova. 2005. "Can Surface Magnetic Fields Reproduce Solar Irradiance Variations in Cycles 22 and 23?". *Astronomy and Astrophysics* 432:1057-1061.
766. Westendorp Plaza, C., J. C. del Toro Iniesta, B. Ruiz Cobo, V. Martinez Pillet, B. W. Lites, and A. Skumanich. 2001. "Optical Tomography of a Sunspot. II. Vector Magnetic Field and Temperature Stratification". *Astrophysical Journal* 547:1130-1147.
767. Westendorp Plaza, C., J. C. del Toro Iniesta, B. Ruiz Cobo, and V. Martinez Pilet. 2001. "Optical Tomography of a Sunspot. III. Velocity Stratification and the Evershed Effect". *Astrophysical Journal* 547:1148-1158.
768. Wheatland, M. S. 2000. "Are Electric Currents in Solar Active Regions Neutralized?". *Astrophysical Journal* 532:616-621.
769. White, O. R., P. A. Fox, R. W. Meisner, M. P. Rast, E. Yasukawa, D. Koon, C. Rice, H. Lin, J. R. Kuhn, and R. Coulter. 2000. "Data from the Precision Solar Photometric Telescope (PSPT) in Hawaii from March 1998 to March 1999". *Space Science Reviews* 94:75-82.
770. Wickliffe, M. E., J. E. Lawler, and G. Nave. 2001. "Atomic Transition Probabilities for Dy I and Dy II". *Journal of Quantitative Spectroscopy and Radiative Transfer* 66:363.
771. Wiegelmans, T., B. Inhester, A. Lagg, and S. K. Solanki. 2005. "How to Use Magnetic Field Information for Coronal Loop Identification". *Solar Physics* 228:67-78.
772. Wiegelmans, T. and S. K. Solanki. 2004. "Similarities and Differences Between Coronal Holes and the Quiet Sun: Are Loop Statistics the Key?". *Solar Physics* 225:227-247.
773. Wirtz, D., G. Sonnabend, and R. Schieder. 2003. "THIS: Next Generation Infrared Heterodyne Spectrometer for Remote Sensing". in xxx, edited by M. Strojnik. 83-91.(SPIE).
774. Wolfschmidt, G. 2005. "Development of Solar Tower Observatories". *Acta Historica Astronomiae* 25:169-198.

775. Worden, John and John Harvey. 2000. "An Evolving Synoptic Magnetic Flux map and Implications for the Distribution of Photospheric Magnetic Flux". *Solar Physics* 195:247-268.
776. Worden, John R., Thomas N. Woods, and Kevin W. Bowman. 2001. "Far-Ultraviolet Intensities and Center-to-Limb Variations of Active Regions and Quiet Sun Using UARS SOLSTICE Irradiance Measurements and Ground-based Spectroheliograms". *Astrophysical Journal* 560:1020-1034.
777. Xu, Y., W. Cao, C. Liu, G. Yang, J. Qiu, J. Jing, C. Denker, and H. Wang. 2004. "Near-Infrared Observations at 1.56 Microns of the 2003 October 29 X10 White-Light Flare". *Astrophysical Journal* 607:L131-L134.
778. Yang, G., Y. Xu, W. Cao, H. Wang, C. Denker, and T. R. Rimmele. 2004. "Photospheric Shear Flows Along the Magnetic Neutral Line of Active Region 10486 Prior to an X10 Flare". *Astrophysical Journal Letters* 617:L151-L154.
779. Zachariadis, Th, H. C. Dara, C. E. Alissandrakis, S. Koutchmy, and C. Gontikakis. 2001. "Fine Structure of the Quiet Solar Chromosphere: Limb-Crossing Features". *Solar Physics* 202:41-52.
780. Zhang, Y. X., C. Fang, M. D. Ding, and W. C. Livingston. 2001. "Quiet-Sun Variability In a Temperature Minimum Region". *Astrophysical Journal* 547:L179-L182.
781. Zhang, Z., R. N. Smartt, and D. A. Landman. 2002. "Interpretation of Localized Deficits in Coronal Emission". *Solar Physics* 207:63-71.
782. Zhong, L. and J. M. Beckers. 2001. "Comparative Solar Seeing and Scintillation Studies at the Fuxian Lake Solar Station". *Solar Physics* 198:197-201.
783. Zirker, J. B. 2003/10. 2003 vols.: Johns Hopkins University Press.
784. Zirker, J. B. 2001. "Solar Prominence Chirality". edited by P. Murdin 2001 ed. 2001 (Institute of Physics Publishing).
785. Zirker, Jack B. 2002/6. *Journey from the center of the sun*. 2002 vols.: Princeton University Press.
786. Zobov, Nikolai F., Oleg L. Polyansky, Jonathan Tennyson, Sergey V. Shirin, Ray Nassar, Tsuyoshi Hirao, Takashi Imajo, Peter F. Bernath, and Lloyd Wallace. 2000. "Using Laboratory Spectroscopy to Identify Lines in the K- and L-Band Spectrum of Water in a Sunspot". *Astrophysical Journal* 530:994-998.