

The entire svst.bib file

Mats Löfdahl

Institute for Solar Physics, Stockholm University

Printed 3:43pm, October 26, 2024

ABSTRACT

This document is generated mostly in order to test the `svst.bib` file for serious errors.

References

- Acton, D. S. 1990, PhD thesis, Texas Technological University
- Acton, D. S., Brandt, P., Scharmer, G., et al. 1987, *BAAS*, 19, 1118
- Albert, J., Aliu, E., Anderhub, H., et al. 2007, *ApJ*, 654, L119
- Amarsi, A. M., Asplund, M., Collet, R., & Leenaarts, J. 2015, *MNRAS*, 454, L11
- Amarsi, A. M., Asplund, M., Collet, R., & Leenaarts, J. 2016, *MNRAS*, 455, 3735
- Andersson, S. 2004, *NyTeknik*
- Antolin, P. 2012, PhD thesis, University of Oslo
- Antolin, P., Carlsson, M., Rouppe van der Voort, L., Verwichte, E., & Vissers, G. 2012a, in *ASP Conference Series*, Vol. 455, Proc. 4th Hinode Science Meeting: Unsolved Problems and Recent Insights, ed. L. R. Bellot Rubio, F. Reale, & M. Carlsson (Astronomical Society of the Pacific), 253–260
- Antolin, P. & Froment, C. 2022, *Frontiers in Astronomy and Space Sciences*, 9, 820116
- Antolin, P. & Rouppe van der Voort, L. 2012, *ApJ*, 745, 152
- Antolin, P., Shibata, K., Carlsson, M., et al. 2012b, in *ASP Conference Series*, Vol. 454, Proc. 3rd Hinode Science Meeting, ed. T. Sekii, T. Watanabe, & T. Sakurai, 171
- Antolin, P., Vissers, G., Pereira, T. M. D., Rouppe van der Voort, L., & Scullion, E. 2015, *ApJ*, 806, 81
- Antolin, P., Vissers, G., & Rouppe van der Voort, L. 2012c, *Sol. Phys.*, 280, 457
- Anugu, N. & Garcia, P. 2016, in *ASP Conf. Ser.*, Vol. 504, Ground-based Solar Observations in the Space Instrumentation Era, ed. I. Dorotović, C. Fischer, & M. Temmer, 113
- Anugu, N., Garcia, P. J. V., & Correia, C. M. 2018, *MNRAS*, 476, 300
- Archontis, V. & Dorch, B. 1999, in *ASP Conf. Ser.*, Vol. 178, Stellar Dynamos: Non-linearity and Chaotic Flows, ed. M. Nunez & A. Ferriz-Mas, 1–11
- Archontis, V., Dorch, S. B. F., & Nordlund, Å. 2003, *A&A*, 397, 393
- Ardeberg, A. 1984, in *European Southern Observatory Conference and Workshop Proceedings*, Vol. 18, *European Southern Observatory Conference and Workshop Proceedings*, 73–93
- Arevalo, M. J., Lazaro, C., & Fuensalida, J. J. 1988, *The Astronomical Journal*, 96, 1061
- Armstrong, J. A. & Fletcher, L. 2021, *MNRAS*, 501, 2647
- Arramy, D. 2024, Licentiate thesis, Stockholm University
- Arramy, D., de la Cruz Rodríguez, J., & Leenaarts, J. 2024, *A&A*, 690, A12
- Aschwanden, M. J., Crosby, N. B., Dimitropoulou, M., et al. 2016, *Space Sci. Rev.*, 198, 47
- Aschwanden, M. J., De Pontieu, B., & Katrukha, E. A. 2013, *Entropy*, 15, 3007
- Asensio Ramos, A. 2024, *A&A*, 688, A88
- Asensio Ramos, A. & de la Cruz Rodríguez, J. 2015, *A&A*, 577, A140
- Asensio Ramos, A., de la Cruz Rodríguez, J., Martínez González, M. J., & Pastor Yabar, A. 2016, *A&A*, 590, A87
- Asensio Ramos, A., de la Cruz Rodríguez, J., Martínez González, M. J., & Socas-Navarro, H. 2017, *A&A*, 599, A133
- Asensio Ramos, A., de la Cruz Rodríguez, J., & Pastor Yabar, A. 2018, *A&A*, 620, A73
- Asensio Ramos, A. & Díaz Baso, C. 2019, *A&A*, 626, A102
- Asensio Ramos, A., Díaz Baso, C. J., & Kochukhov, O. 2022, *A&A*, 658, A162
- Asensio Ramos, A., Esteban Pozuelo, S., & Kuckein, C. 2023, *Sol. Phys.*, 298, 91
- Asensio Ramos, A. & Olsper, N. 2021, *A&A*, 646, A100
- Asplund, M., Carlsson, M., Garcia Perez, A. E., & Kiselman, D. 2000, in *IAU Joint Discussion*, Vol. 24, *Oxygen Abundances in Old Stars and Implications to Nucleosynthesis and Cosmology*, 8, 24th meeting of the IAU
- Asplund, M., Grevesse, N., Sauval, A. J., Allende Prieto, C., & Kiselman, D. 2004, *A&A*, 417, 751
- Asplund, M., Grevesse, N., Sauval, A. J., Allende Prieto, C., & Kiselman, D. 2005, *A&A*, 435, 339
- Asplund, M., Gustafsson, B., Kiselman, D., & Eriksson, K. 1997a, *A&A*, 323, 286
- Asplund, M., Gustafsson, B., Kiselman, D., & Eriksson, K. 1997b, *A&A*, 318, 521
- Astley, V., Komm, R., & Howe, R. 2004, *BAAS*, 34, 757
- Astronomy Now. 2003, Into the heart of a sunspot, *Astronomy Now*, Vol. 17, No. 1, p. 25
- Bågenholm, T. 2013, Bachelor's thesis, Stockholm University
- Bakke, H. 2023, PhD thesis, University of Oslo
- Ballesteros, E., Collados, M., Bonet, J. A., et al. 1996, *A&AS*, 115, 353
- Balmaceda, L., Vargas Domínguez, S., Palacios, J., Cabello, I., & Domingo, V. 2010, *A&A*, 513, L6
- Balmaceda, L. A., Palacios, J., Cabello, I., & Domingo, V. 2009, in *ASP Conference Series*, Vol. 415, *The Second Hinode Science Meeting: Beyond Discovery-Toward Understanding*, ed. B. Lites and M. Cheung and T. Magara and J. Mariska and K. Reeves, 156
- Bard, S. & Carlsson, M. 1997, in *ESA SP*, Vol. 404, *The Corona and Solar Wind Near Minimum Activity*, ed. A. Wilson, 189–191, proc. Fifth SOHO Workshop
- Bastian, T. S., Chintzoglou, G., De Pontieu, B., et al. 2017, *ApJ*, 845, L19
- Battaglia, A. F., Canivete Cuissa, J. R., Calvo, F., Bossart, A. A., & Steiner, O. 2021, *A&A*, 649, A121
- Baum, R. 1997, *Journal of the British Astronomical Association*, 107, 38
- Beckman Berg, G. 2022, Bsc thesis, Stockholm University
- Bedford, D. K., Fuensalida, J. J., & Arevalo, M. J. 1987, *A&A*, 182, 264
- Bein, B., Veronig, A., Rybak, J., et al. 2009, *Central European Astrophysical Bulletin*, 33, 179
- Bell, E., Cadavid, A. C., Lawrence, J. K., & Berger, T. E. 2002, *BAAS*, 34, 699
- Bello González, N., Bellot Rubio, L. R., Ortiz, A., et al. 2012, in *Astronomical Society of the Pacific Conference Series*, Vol. 463, *The Second ATST-EAST Meeting: Magnetic Fields from the Photosphere to the Corona*, ed. T. R. Rimmele, A. Tritschler, F. Wöger, M. Colados Vera, H. Socas-Navarro, R. Schlichenmaier, M. Carlsson, T. Berger, A. Cadavid, P. R. Gilbert, P. R. Goode, & M. Knölker, 251
- Bellot Rubio, L. R., Langhans, K., & Schlichenmaier, R. 2005, *A&A*, 443, L7
- Bellot Rubio, L. R., Schlichenmaier, R., & Langhans, K. 2010, *ApJ*, 725, 11
- Berdugin, A. & Pirola, V. 2002, *A&A*, 394, 181

- Berdyugin, A., Piirola, V., & Teerikorpi, P. 2004, *A&A*, 424, 873
- Berdyugin, A. & Teerikorpi, P. 2002, *A&A*, 384, 1050
- Berdyugina, S. V., Berdyugin, A. V., Fluri, D. M., & Piirola, V. 2008, *ApJ*, 673, L83
- Bergemann, M., Hoppe, R., Semanova, E., et al. 2021, *MNRAS*, 508, 2236
- Berger, T. 1996, *BAAS*, 188, 33.12
- Berger, T., De Pontieu, B., Schrijver, C., Title, A., & Scharmer, G. B. 1999a, in *ASP Conf. Ser.*, Vol. 183, *High Resolution Solar Physics: Theory, Observations and Techniques*, ed. T. Rimmele, K. S. Balasubramaniam, & R. R. Radick, 365
- Berger, T., Lites, B., Martinez-Pillet, V., Tarbell, T., & Title, A. 2001, *Eos Trans. AGU*, SP51B, spring Meet. Suppl.
- Berger, T., Schrijver, C., Shine, R., et al. 1995a, *BAAS*, 187, 101.04
- Berger, T., Shine, R., Tarbell, T., Title, A., & Scharmer, G. 1994, *BAAS*, 185, 86.07
- Berger, T. E. 1997, PhD thesis, Stanford University
- Berger, T. E. 1999, *High Resolution Observations and Modeling of Small-scale Solar Magnetic Elements*, Annual report NASA SR&T contract NASW-98008, Lockheed-Martin Solar and Astrophysics Laboratory
- Berger, T. E. 2001, *High Resolution Observations and Modeling of Small-Scale Solar Magnetic Elements*, Tech. Rep. HRMSS-99-01, LMSAL
- Berger, T. E. & Berdyugina, S. V. 2003, *ApJ*, 589, L117
- Berger, T. E., de Pontieu, B., Fletcher, L., et al. 1999b, *Sol. Phys.*, 190, 409
- Berger, T. E., De Pontieu, B., Schrijver, C. J., & Title, A. M. 1999, *BAAS*, 194, 79.01
- Berger, T. E., De Pontieu, B., Schrijver, C. J., & Title, A. M. 1999, *ApJ*, 519, L97
- Berger, T. E. & Lites, B. W. 2002, *Sol. Phys.*, 208, 181
- Berger, T. E., Löfdahl, M. G., & Bercik, D. J. 2002, *BAAS*
- Berger, T. E., Löfdahl, M. G., Scharmer, G., & Title, A. M. 2003, *BAAS*, 35, 11.08
- Berger, T. E., Löfdahl, M. G., Shine, R. A., & Title, A. M. 1997, *BAAS*, 28, 02.19
- Berger, T. E., Löfdahl, M. G., Shine, R. A., & Title, A. M. 1998a, *ApJ*, 506, 439
- Berger, T. E., Löfdahl, M. G., Shine, R. A., & Title, A. M. 1998b, *ApJ*, 495, 973
- Berger, T. E., Rouppe van der Voort, L., & Löfdahl, M. 2007, *ApJ*, 661, 1272
- Berger, T. E., Rouppe van der Voort, L., & Löfdahl, M. G. 2005, *AGU Spring Meeting Abstracts*, SP31A
- Berger, T. E., Rouppe van der Voort, L. H. M., Löfdahl, M. G., et al. 2004a, *A&A*, 428, 613
- Berger, T. E., Rouppe van der Voort, L. H. M., Löfdahl, M. G., et al. 2004b, *BAAS*, 34, 20.05
- Berger, T. E., Schrijver, C. J., Shine, R. A., et al. 1995b, *ApJ*, 454, 531
- Berger, T. E. & Title, A. M. 1996, *ApJ*, 463, 365
- Berger, T. E. & Title, A. M. 2001, *ApJ*, 553, 449
- Berger, T. E. & Title, A. M. 2004, in *ASP Conf. Ser.*, Vol. 325, *The Solar-B Mission and the Forefront of Solar Physics*, ed. T. Sakurai & T. Sekii, 95
- Berger, T. E., Title, A. M., Tarbell, T., et al. 2007, in *ASP Conference Series*, Vol. 369, *New Solar Physics with Solar-B Mission*, ed. K. Shibata, S. Nagata, & T. Sakurai, 103
- Berkebile-Stoiser, S., Gömöry, P., Veronig, A. M., Rybák, J., & Sütterlin, P. 2009, *A&A*, 505, 811
- Berkefeld, T., Bettonvil, F., Collados, M., et al. 2010a, in *Proc. SPIE*, Vol. 7733, *Ground-based and Airborne Telescopes III*, ed. L. M. Stepp, R. Gilmozzi, & H. J. Hall
- Berkefeld, T., Soltan, D., Del Moro, D., & Löfdahl, M. 2010b, in *Proc. SPIE*, Vol. 7736, *Adaptive Optics Systems II*, ed. B. L. Ellerbroek, M. Hart, N. Hubin, & P. L. Wizinowich
- Bernasconi, P. N., Keller, C. U., Solanki, S. K., & Stenflo, J. O. 1998, *A&A*, 329, 704
- Bernasconi, P. N. & Solanki, S. K. 1996, *Solar Physics*, 164, 277
- Bharti, L., Hirzberger, J., & Solanki, S. K. 2013, *A&A*, 552, L1
- Bharti, L., Solanki, S. K., & Hirzberger, J. 2017, *A&A*, 597, A127
- Bhatnagar, A., Rouppe van der Voort, L., & Joshi, J. 2024, *A&A*, 689, A156
- Bida, T. A., Lites, B. W., Johannesson, A., & Scharmer, G. B. 1990, *BAAS*, 22, 880
- Björge, J. P. 2017, in *SOLARNET IV: The Physics of the Sun from the Interior to the Outer Atmosphere*, 24
- Björge, J. P. 2019, PhD thesis, Stockholm University
- Björge, J. P. & Leenaarts, J. 2017, *A&A*, 599, A118
- Björge, J. P., Leenaarts, J., Rempel, M., et al. 2019, *A&A*, 631, A33
- Björge, J. P., Sukhorukov, A. V., Leenaarts, J., et al. 2018, *A&A*, 611, A62
- Blanchflower, S. M., Rucklidge, A., & Weiss, N. O. 1998, *MNRAS*, 301, 593
- Blewett, D. T. & Warell, J. 2003, in *Lunar and Planetary Inst. Technical Report*, Vol. 34, *Lunar and Planetary Science Conference*, ed. S. Mackwell & E. Stansbery
- Blomberg, H. L. A. 1999, Master's thesis, Royal Institute of Technology (KTH), Stockholm, Sweden
- Bogdan, T. J., Rosenthal, C. S., Carlsson, M., et al. 2002, *Astronomische Nachrichten*, 323, 196
- Bonet, J. A. 1999, in *Astrophysics and Space Science Library*, Vol. 239, *Motions in the Solar Atmosphere*, ed. A. Hanslmeier & M. Messerotti (Kluwer), 1–34
- Bonet, J. A. 2002, in *Proc. 2nd Sunrise Technical Workshop*, MP Ae, Katlenburg-Lindau, Germany
- Bonet, J. A. 2006, in *International Heliophysical Year: European General assembly*, ed. C. Briand, IHY European Steering Committee
- Bonet, J. A., Cabello, I., & Sánchez Almeida, J. 2012, *A&A*, 539, A6
- Bonet, J. A. & Márquez, I. 2003, in *ASP Conf. Series*, Vol. 307, *Proc. Third International Workshop on: Solar Polarization*, ed. J. Trujillo Bueno & J. Sánchez Almeida, Puerto de la Cruz, Tenerife, Spain, 30 Sept-4 Oct., 2002, 137–144
- Bonet, J. A., Márquez, I., Muller, R., M., S., & Roudier, T. 2005, *A&A*, 430, 1089
- Bonet, J. A., Márquez, I., Muller, R., Sobotka, M., & Tritschler, A. 2004, *A&A*, 423, 737
- Bonet, J. A., Márquez, I., & Sánchez Almeida, J. 2006, in *ASP Conf. Series*, Vol. 358, *Solar Polarization 4*, ed. R. Casini & B. W. Lites, Boulder, 80–83
- Bonet, J. A., Márquez, I., Sánchez Almeida, J., Cabello, I., & Domingo, V. 2008, *ApJ*, 687, L131
- Bonet, J. A., Sobotka, M., & Vázquez, M. 1994, *Noticias del Instituto de Astrofísica de Canarias*, 10
- Bonet, J. A., Sobotka, M., & Vázquez, M. 1995a, *A&A*, 296, 241
- Bonet, J. A., Sobotka, M., & Vázquez, M. 1995b, in *JOSO Annual Report 1994*, ed. M. Saniga, 174
- Borrero, J. M. & Ichimoto, K. 2011, *Living Reviews in Solar Physics*, 8
- Borrero, J. M., Jafarzadeh, S., Schüssler, M., & Solanki, S. K. 2017, *Space Sci. Rev.*, 210, 275
- Borrero, J. M., Jafarzadeh, S., Schüssler, M., & Solanki, S. K. 2018, in *Space Sciences Series of ISSI*, Vol. 57, *Solar Magnetic Fields*, ed. A. Balogh, E. Cliver, G. Petrie, S. Solanki, M. Thompson, & R. von Steiger (Springer Netherlands), 275–316, ISBN: 978-94-024-1520-9
- Borrero, J. M., Milić, I., Pastor Yabar, A., Kaithakkal, A. J., & de la Cruz Rodríguez, J. 2024a, *A&A*, 688, A56
- Borrero, J. M. & Pastor Yabar, A. 2023, *A&A*, 669, A122
- Borrero, J. M., Pastor Yabar, A., & Ruiz Cobo, B. 2021, *A&A*, 647, A190
- Borrero, J. M., Pastor Yabar, A., & Ruiz Cobo, B. 2024b, *A&A*
- Bose, S. 2021, PhD thesis, University of Oslo
- Bose, S., Henriques, V. M. J., Joshi, J., & Rouppe van der Voort, L. 2019a, *ApJ*, 631, L5
- Bose, S., Henriques, V. M. J., Joshi, J., & Rouppe van der Voort, L. 2020, *A&A*, 637, C1
- Bose, S., Henriques, V. M. J., Rouppe van der Voort, L., & Pereira, T. M. D. 2019b, *A&A*, 627, A46
- Bose, S., Joshi, J., Henriques, V. M. J., & Rouppe van der Voort, L. 2021a, *A&A*, 647, A147
- Bose, S., Nóbrega Siverio, D., De Pontieu, B., & Rouppe van der Voort, L. 2022, in *44th COSPAR Scientific Assembly*, Vol. 44, 2522
- Bose, S., Nóbrega-Siverio, D., De Pontieu, B., & Rouppe van der Voort, L. 2023, *ApJ*, 944, 171
- Bose, S., Rouppe van der Voort, L., Joshi, J., et al. 2021b, *A&A*, 654, A51
- Bovelet, B. & Wiehr, E. 2001, *Sol. Phys.*, 201, 13
- Brandt, P. & Wöhl, H. 1998, *Solar Granulation*, Educational video, Institut für den Wissenschaftlichen Film, video
- Brandt, P. N., Erasmus, A., Fuentes Gandia, J., & Kusoffsky, U. 1987, *LEST Foundation, Technical Report*, 26, 89
- Brandt, P. N., Erasmus, D. A., Kusoffsky, U., et al. 1989a, *Addendum to Technical Report No. 38: comments of the LEST Site Investigation Team on the referee's reports*. (Oslo: Inst. for Teoretisk Astrofysikk)

- Brandt, P. N., Erasmus, D. A., Kusoffsky, U., et al. 1989b, Results and conclusions from the meteorological phase of the LEST site survey. (Oslo: Inst. for Teoretisk Astrofysikk)
- Brandt, P. N., Ferguson, S., Scharmer, G. B., et al. 1991a, *A&A*, 241, 219
- Brandt, P. N., Ferguson, S. H., Scharmer, G. B., et al. 1989a, in *High Spatial Resolution Solar Observations*, ed. O. von der Lühe, 473, proc. 10th Sacramento Peak Summer Workshop
- Brandt, P. N. & Getling, A. V. 2004, in *IAU Symposium*, Vol. 223, *Multi Wavelength Investigations of Solar Activity*, ed. A. V. Stepanov, E. E. Benevolenskaya, & A. G. Kosovichev (Cambridge University Press), 231–232
- Brandt, P. N. & Getling, A. V. 2008, *Sol. Phys.*, 249, 307
- Brandt, P. N., Rutten, R. J., Shine, R. A., & Trujillo Bueno, J. 1991b, in *Proc. of the Cool Star Workshop*, Cambridge MA
- Brandt, P. N., Rutten, R. J., Shine, R. A., & Trujillo Bueno, J. 1992, in *ASP Conf. Ser.*, Vol. 26, *Cool Stars, Stellar Systems, and the Sun*, ed. M. S. Giampapa & J. A. Bookbinder, 161–164, proc. Seventh Cambridge Workshop
- Brandt, P. N., Rutten, R. J., Shine, R. A., & Trujillo Bueno, J. 1994, in *NATO ASI Series C*, Vol. 433, *Solar Surface Magnetism*, ed. R. J. Rutten & C. J. Schrijver, 251
- Brandt, P. N., Scharmer, G. B., Ferguson, S. H., et al. 1988, *Nature*, 335, 238
- Brandt, P. N., Scharmer, G. B., Ferguson, S. H., et al. 1989b, in *NATO ASI Series C*, Vol. 263, *Solar and Stellar Granulation*, ed. R. J. Rutten & G. Severino (Kluwer Academic Publishers), 305
- Brooks, D. H., Kurokawa, H., & Berger, T. E. 2007, *ApJ*, 656, 1197
- Brooks, D. H., Kurokawa, H., Yoshimura, K., Kozu, H., & Berger, T. E. 2003, *A&A*, 411, 273
- Brunvoll, A. R. 2024, Master's thesis, University of Oslo
- Buehler, D., Esteban Pozuelo, S., de la Cruz Rodríguez, J., & Scharmer, G. B. 2019, *ApJ*, 876, 47
- Buehler, D., Lagg, A., van Noort, M., & Solanki, S. K. 2019, *A&A*, 630, A86
- Burtscher, L., Politopoulos, I., Fernández-Acosta, S., et al. 2020, in *Proc. SPIE*, Vol. 11447, *Ground-based and Airborne Instrumentation for Astronomy VIII*, ed. C. J. Evans, J. J. Bryant, & K. Motohara, International Society for Optics and Photonics (SPIE), 1678–1694
- Bush, R. I., Shine, R. A., Brandt, P., Sobotka, M., & Scharmer, G. 2000, *BAAS*, 32, 0122, aAS/Solar Physics Division Meeting
- Bylund, T. 2016, Master thesis, Stockholm University
- Cabello, I., Domingo, V., Bonet, J. A., Blanco Rodríguez, J., & Balmaceda, L. A. 2013, in *Highlights of Spanish Astrophysics VII*, ed. J. C. Guirado, L. M. Lara, V. Quilis, & J. Gorgas, 805–805, proceedings of the X Scientific Meeting of the Spanish Astronomical Society (SEA)
- Cabello, I., Nóbrega Siverio, D., Rouppe van der Voort, L., Bose, S., & Moreno-Insertis, F. 2022, in 44th COSPAR Scientific Assembly, Vol. 44, 2531
- Cadavid, A. C., Lawrence, J. K., Berger, T. E., & Ruzmaikin, A. 2003, *ApJ*, 586, 1409
- Cadavid, A. C., Lawrence, J. K., & Ruzmaikin, A. A. 1999, *ApJ*, 521, 844
- Cadavid, A. C., Lawrence, J. K., Ruzmaikin, A. A., & Kayleng-Knight, A. 1994, *ApJ*, 429, 391
- Cadavid, C., Lawrence, J., & Ruzmaikin, A. 2001, *Eos Trans. AGU*, SP51B, spring Meet. Suppl.
- Canocchi, G., Lind, K., Lagae, C., et al. 2023, *VizieR Online Data Catalog: NaI 5896*, KI 769 SST normalized line profiles (Canocchi+, 2024), *VizieR On-line Data Catalog: J/A+A/683/A242*. Originally published in: 2024A&A...683A.242C
- Canocchi, G., Lind, K., Lagae, C., et al. 2024, *A&A*, 683, A242
- Carlsson, M. 2017, in *SOLARNET IV: The Physics of the Sun from the Interior to the Outer Atmosphere*, 46
- Carlsson, M. & De Pontieu, B. 2023, *ApJ*, 959, 87
- Carlsson, M., Hansteen, V. H., Gudiksen, B. V., Leenaarts, J., & De Pontieu, B. 2016, *A&A*, 585, A4
- Carlsson, M., Leenaarts, J., & De Pontieu, B. 2015, *ApJ*, 809, L30
- Carlsson, M., Rouppe van der Voort, L. H. M., & Hansteen, V. H. 2004, in *IAU Symposium*, Vol. 223, *Multi Wavelength Investigations of Solar Activity*, ed. A. V. Stepanov, E. E. Benevolenskaya, & A. G. Kosovichev, 207–210
- Carlsson, M. & Scharmer, G. B. 1985, in *Chromospheric Diagnostics and Modelling*, ed. B. W. Lites, 137–150
- Carlsson, M., Stein, R. F., Nordlund, Å., & Scharmer, G. B. 2004, in *IAU Symposium*, Vol. 223, *Multi Wavelength Investigations of Solar Activity*, ed. A. V. Stepanov, E. E. Benevolenskaya, & A. G. Kosovichev, 233–234
- Carlsson, M., Stein, R. F., Nordlund, Å., & Scharmer, G. B. 2004, *ApJ*, 610, L137
- Centeno, R., de la Cruz Rodríguez, J., & del Pino Aleman, T. 2021, *ApJ*, 918, 15
- Chae, J., van Noort, M., Madjarska, M. S., et al. 2024, *A&A*, 687, A249
- Chamandy, T. M. 2018, Master's thesis, University of Oslo
- Chaurasiya, R., Raja Bayanna, A., Louis, R. E., Pereira, T. M. D., & Mathew, S. K. 2024, *ApJ*, 970, 179
- Chen, J. 2017, *Physics of Plasmas*, 24, 090501
- Cheung, C. M. M., Martínez-Sykora, J., Testa, P., et al. 2021, in *AGU Fall Meeting Abstracts*, Vol. 2021, SH51A–08
- Cheung, M. C. M., Martínez-Sykora, J., Testa, P., et al. 2022, *ApJ*, 926, 53
- Chintzoglou, G., De Pontieu, B., Martínez-Sykora, J., et al. 2021a, *ApJ*, 906, 82
- Chintzoglou, G., De Pontieu, B., Martínez-Sykora, J., et al. 2021b, *ApJ*, 906, 83
- Chitta, L., van Ballegoijen, A. A., Rouppe van der Voort, L., DeLuca, E. E., & Kariyappa, R. 2012, *ApJ*, 752, 48
- Chitta, L. P., Sukarmadji, A. R. C., Rouppe van der Voort, L., & Peter, H. 2019, *A&A*, 623, A176
- Chitta, L. P., van Noort, M., Smitha, H. N., Priest, E. R., & Rouppe van der Voort, L. H. M. Submitted, *ApJ*
- Choudhary, D. P. 2003, *Current Science*, 84, 14
- Collados, M. 2017, in *SOLARNET IV: The Physics of the Sun from the Interior to the Outer Atmosphere*, 98
- Cristaldi, A. 2012, Master's thesis, University of Catania, Italy
- Cristaldi, A. 2016, PhD thesis, INAF – Osservatorio Astronomico di Roma
- Cristaldi, A. & Ermolli, I. 2017, *ApJ*, 841, 115
- Cristaldi, A., Guglielmino, S. L., Zuccarello, F., et al. 2013, *Mem. Soc. Astron. Italiana*, 84, 339
- Cristaldi, A., Guglielmino, S. L., Zuccarello, F., et al. 2014, *ApJ*, 789, 162
- Crockett, P. 2011, PhD thesis, Queen's University Belfast, UK
- Crockett, P. J., Jess, D. B., Mathioudakis, M., & Keenan, F. P. 2009, *MNRAS*, 397, 1852
- Cumming, R. J., Pietrow, A. G. M., Pietrow, L., et al. 2024, *Physics Education*, 59, 025012
- da Silva Santos, J. 2018, Licentiate thesis, Stockholm University
- da Silva Santos, J. a. M. 2020, PhD thesis, Stockholm University
- da Silva Santos, J. M., Danilovic, S., Leenaarts, J., et al. 2022a, *A&A*, 661, A59
- da Silva Santos, J. M., de la Cruz Rodríguez, J., & Leenaarts, J. 2018, *A&A*, 620, A124
- da Silva Santos, J. M., de la Cruz Rodríguez, J., Leenaarts, J., et al. 2020a, *A&A*, 634, A56
- da Silva Santos, J. M., de la Cruz Rodríguez, J., White, S. M., et al. 2020b, *A&A*, 643, A41
- da Silva Santos, J. M., de la Cruz Rodríguez, J., White, S. M., et al. 2020c, in *AGU Fall Meeting Abstracts*, Vol. 2020, SH001–0001
- da Silva Santos, J. M., Molnar, M., Milić, I., et al. In press, *ApJ*
- da Silva Santos, J. M., Ramos-Medina, J., Contreras, C. S., & García-Lario, P. 2019, *A&A*, 622, A123
- da Silva Santos, J. M., White, S. M., Reardon, K., et al. 2022b, *BAAS*, 54, the Third Triennial Earth-Sun Summit (TESS) Abstracts
- Dahlberg, C. 2018, Bachelor's thesis, Stockholm University
- Dakanalis, I., Tsiropoulou, G., Tziotziou, K., & Kontogiannis, I. 2022, *A&A*, 663, A94
- Dakanalis, I., Tsiropoulou, G., Tziotziou, K., & Koutroumbas, K. 2021, *Sol. Phys.*, 296, 17
- Dame, L., and W. A. Brown, M. M., Bruner, M. E., et al. 1996, *Advances in Space Research*, 17, 189
- Danilovic, S. 2021, in *AGU Fall Meeting Abstracts*, Vol. 2021, SH43A–04
- Danilovic, S. 2023, *Advances in Space Research*, 71, 1939
- Danilovic, S., Bjørgen, J. P., Leenaarts, J., & Rempel, M. 2023, *A&A*, 670, A50
- Darvann, T. A. & Kusoffsky, U. 1989, in *NATO Advanced Study Institute (ASI) Series C*, Vol. 263, *Solar and Stellar Granulation*, ed. R. J. Rutten & G. Severino, 313
- Darvann, T. A., Kusoffsky, U., & Li, Z. 1987, *LEST Foundation, Technical Report*, 25
- de la Cruz Rodríguez, J. 2010, PhD thesis, Stockholm University
- de la Cruz Rodríguez, J. 2017, in *SOLARNET IV: The Physics of the Sun from the Interior to the Outer Atmosphere*, 20
- de la Cruz Rodríguez, J. 2019, *A&A*, 631, A153
- de la Cruz Rodríguez, J. 2024, in *EAS Annual Meeting 2024*, 1297

- de la Cruz Rodríguez, J., De Pontieu, B., Carlsson, M., & Rouppe van der Voort, L. H. M. 2013a, *ApJ*, 764, L11
- de la Cruz Rodríguez, J., Hansteen, V., Bellot-Rubio, L., & Ortiz, A. 2015, *ApJ*, 810, 145
- de la Cruz Rodríguez, J., Kiselman, D., & M., C. 2011, *A&A*, 528, A113
- de la Cruz Rodríguez, J. & Leenaarts, J. 2024, *A&A*, 685, A85
- de la Cruz Rodríguez, J., Leenaarts, J., & Asensio Ramos, A. 2016, *ApJ*, 830, L30
- de la Cruz Rodríguez, J., Leenaarts, J., Danilovic, S., & Uitenbroek, H. 2018, STiC: Stockholm inversion code, Astrophysics Source Code Library, record ascl:1810.014
- de la Cruz Rodríguez, J., Leenaarts, J., Danilovic, S., & Uitenbroek, H. 2019, *A&A*, 623, A74
- de la Cruz Rodríguez, J., Löfdahl, M., Sütterlin, P., Hillberg, T., & Rouppe van der Voort, L. 2015, *A&A*, 573, A40
- de la Cruz Rodríguez, J., Pastor Yabar, A., & Morosin, R. 2023, *SEA Boletín*, 52, https://www.sea-astronomia.es/sites/default/files/bv2023_espectroscopia.pdf
- de la Cruz Rodríguez, J., Rouppe van der Voort, L., Socas-Navarro, H., & van Noort, M. 2013b, *A&A*, 556, A115
- de la Cruz Rodríguez, J. & Socas-Navarro, H. 2011, *A&A*, 527, L8
- de la Cruz Rodríguez, J., Socas-Navarro, H., Carlsson, M., & Leenaarts, J. 2012a, in Conference Series of the Astronomical Society of the Pacific, Vol. 463, 2nd ATST - EAST Meeting: Magnetic Fields from the Photosphere to the Corona, ed. T. R. Rimmele, A. Tritschler, F. Wöger, M. Collados Vera, H. Socas-Navarro, R. Schlichenmaier, M. Carlsson, T. Berger, A. Cadavid, P. R. Gilbert, P. R. Goode, & M. Knölker, 15
- de la Cruz Rodríguez, J., Socas-Navarro, H., Carlsson, M., & Leenaarts, J. 2012b, *A&A*, 543, A34
- de la Cruz Rodríguez, J., Socas-Navarro, H., van Noort, M., & Rouppe van der Voort, L. 2010, *Mem. Soc. Astron. Italiana*, 81, 716, NSO Workshop #25, Chromospheric Structure and Dynamics: From Old Wisdom to New Insights
- de la Cruz Rodríguez, J. & van Noort, M. 2008, 12th European Solar Physics Meeting, Freiburg, Germany, 12, 2
- de la Cruz Rodríguez, J. & van Noort, M. 2017, *Space Sci. Rev.*, 210, 109
- De Pontieu, B. 2001a, *Eos Trans. AGU*, SH31D, spring Meet. Suppl.
- De Pontieu, B. 2001b, in *ESA SP*, Vol. 493, Solar Encounter: The First Solar Orbiter Workshop, ed. B. Battrock & H. Sawaya-Lacoste, 121–125
- De Pontieu, B. 2002, *ApJ*, 569, 474
- De Pontieu, B. 2003, in *Turbulence, Waves and Instabilities in the Solar Plasma*, ed. R. Erdélyi, K. Petrovay, B. Roberts, & M. Aschwanden (Dordrecht: Kluwer Academic Publishers), 277, invited review submitted to Proceedings of NATO Advanced Research Workshop, Budapest, Sep 2002.
- de Pontieu, B. 2004, in *ESA Special Publication*, Vol. 547, SOHO 13 Waves, Oscillations and Small-Scale Transients Events in the Solar Atmosphere: Joint View from SOHO and TRACE, ed. H. Lacoste, 25
- De Pontieu, B. 2007, in *ASP Conference Series*, Vol. 369, New Solar Physics with Solar-B Mission, ed. K. Shibata, S. Nagata, & T. Sakurai, 231
- De Pontieu, B., Berger, T. E., Fletcher, L., Schrijver, C. J., & Title, A. M. 1999, *BAAS*, 194, 78.04
- De Pontieu, B., Berger, T. E., Schrijver, C. J., & Title, A. M. 1999, *Sol. Phys.*, 190, 419
- De Pontieu, B., Carlsson, M., Rouppe van der Voort, L. H. M., et al. 2012, *ApJ*, 752, L12
- De Pontieu, B., Carlsson, M., Stein, R., et al. 2006, *ApJ*, 646, 1405
- De Pontieu, B., Erdélyi, R., de Wijn, A., & Löfdahl, M. 2003a, *Eos Trans. AGU*, 84, fall Meet. Suppl., Abstract SH42B-0540
- De Pontieu, B., Erdélyi, R., & de Wijn, A. G. 2003b, *ApJ*, 595, L63
- De Pontieu, B., Erdélyi, R., & James, S. P. 2004, *Nature*, 430, 536
- de Pontieu, B., Hansteen, V. H., Rouppe van der Voort, L., van Noort, M., & Carlsson, M. 2006, *AGU Fall Meeting Abstracts*, B359
- De Pontieu, B., Hansteen, V. H., Rouppe van der Voort, L., van Noort, M., & Carlsson, M. 2007a, *ApJ*, 655, 624
- De Pontieu, B., Hansteen, V. H., Rouppe van der Voort, L., van Noort, M., & Carlsson, M. 2007b, in *ASP Conference Series*, Vol. 368, The Physics of Chromospheric Plasmas, ed. P. Heinzel, I. Dorotovič, & R. J. Rutten, 65
- de Pontieu, B., McIntosh, S. W., Carlsson, M., et al. 2010, *AGU Fall Meeting Abstracts*, C3
- De Pontieu, B., Pereira, T., Rouppe van der Voort, L., & Skogsrud, H. 2014, in *COSPAR Meeting*, Vol. 40, 40th COSPAR Scientific Assembly. Held 2-10 August 2014, in Moscow, Russia, abstract E2.3-6-14.
- De Pontieu, B., Rouppe van der Voort, L., McIntosh, S. W., et al. 2014, *Science*, 346, 1255732
- De Pontieu, B. & Tarbell, T. 2002, *BAAS*, 34, 790
- De Pontieu, B. & Tarbell, T. 2003, in *Fall Meeting 2002*, abstract #SH52A-0439 (American Geophysical Union), SH52A-0439
- De Pontieu, B., Tarbell, T., & Erdélyi, R. 2003c, *ApJ*, 590, 502
- De Pontieu, B., Testa, P., Martínez-Sykora, J., et al. 2022, *ApJ*, 926, 52
- De Pontieu, B., Title, A. M., Lemen, J. R., et al. 2014, *Sol. Phys.*, 289, 2733
- de Ugarte Postigo, A., Gorosabel, J., Xu, D., et al. 2014a, *GRB Coordinates Network*, 1
- de Ugarte Postigo, A., Gorosabel, J., Xu, D., et al. 2014b, *GRB Coordinates Network*, 1
- de Ugarte Postigo, A., Gorosabel, J., Xu, D., et al. 2014c, *GRB Coordinates Network*, 1
- de Wijn, A., Rouppe van der Voort, L., Snik, F., Leenaarts, J., & Uitenbroek, H. 2022, *BAAS*, 54, 076
- de Wijn, A. G. 2006, PhD thesis, University of Utrecht
- de Wijn, A. G., de la Cruz Rodríguez, J., Scharmer, G. B., Sliepen, G., & Sütterlin, P. 2021, *AJ*, 161, 89
- de Wijn, A. G. & De Pontieu, B. 2006, *A&A*, 460, 309
- de Wijn, A. G., de Pontieu, B., & Erdélyi, R. 2005, in *ESA Special Publication*, Vol. 600, The Dynamic Sun: Challenges for Theory and Observations, ed. D. Danesny, S. Poedts, A. De Groof, & J. Andries, 14.1
- de Wijn, A. G., de Pontieu, B., & Erdélyi, R. 2005, in *ESA Special Publication*, Vol. 596, Chromospheric and Coronal Magnetic Fields, ed. D. E. Innes, A. Lagg, & S. A. Solanki, 33.1
- Del Moro, D. 2004, *A&A*, 428, 1007
- Del Moro, D., Berrilli, F., Bonet, J. A., et al. 2003, *Mem. Soc. Astron. Italiana*, 74, 584
- Del Moro, D., Giovannelli, L., Berrilli, F., et al. 2017, in *SOLAR-NET IV: The Physics of the Sun from the Interior to the Outer Atmosphere*, 121
- del Sol, R., Helios, K. G., Skeeto, M., & del Ray, S. 2024, *On Bio-Signatures in Sunspot Activity*, GitHub
- Deng, Y., Lin, Y., Schmieder, B., & Engvold, O. 2002, *Sol. Phys.*, 209, 153
- Deng, Y., Wang, J., & Ai, G. 2009, *Advances in Space Research*, 43, 365
- Deng, Y. Y., Schmieder, B., Engvold, O., DeLuca, E., & Golub, L. 2000, *Sol. Phys.*, 195, 347
- Denker, C., Tritschler, A., & Löfdahl, M. 2005, in *Encyclopedia of Optical Engineering*, ed. R. G. Driggers (New York: Marcel Dekker, Inc.)
- Denker, C., Tritschler, A., & Löfdahl, M. G. 2004, in *Solar Image Processing Workshop II (abstracts)*, ed. P. Gallagher, NASA's Sun-Earth Connection Division, Annapolis, Maryland, USA
- Denker, C., Verma, M., Pietrow, A. G. M., Kontogiannis, I., & Kamlah, R. 2023, *Research Notes of the American Astronomical Society*, 7, 224
- Dettori, P. & Hosinsky, G. 2002, in *Proc. SPIE*, Vol. 4848, Advanced Telescope and Instrumentation Control Software II, ed. H. Lewis, 539–544
- Díaz Baso, C., Vissers, G., Calvo, F., et al. 2021, in *Zenodo Software package*, Vol. 56, 5608441
- Díaz Baso, C. J. 2018, PhD thesis, Universidad de La Laguna, <https://dialnet.unirioja.es/servlet/tesis?codigo=235977>
- Díaz Baso, C. J., Asensio Ramos, A., & de la Cruz Rodríguez, J. 2022, *A&A*, 659, A165
- Díaz Baso, C. J., Asensio Ramos, A., de la Cruz Rodríguez, J., da Silva Santos, J. M., & Rouppe van der Voort, L. Submitted, *A&A*
- Díaz Baso, C. J., de la Cruz Rodríguez, J., & Danilovic, S. 2019a, *A&A*, 629, A99
- Díaz Baso, C. J., de la Cruz Rodríguez, J., & Leenaarts, J. 2021, *A&A*, 647, A188
- Díaz Baso, C. J., Martínez González, M. J., & Asensio Ramos, A. 2019b, *A&A*, 625, A128
- Díaz Baso, C. J., Martínez González, M. J., & Asensio Ramos, A. 2019c, *A&A*, 625, A129
- Díaz Baso, C. J., Martínez González, M. J., Asensio Ramos, A., & de la Cruz Rodríguez, J. 2019, *A&A*, 623, A178

- Díaz Baso, C. J., Rouppe van der Voort, L., de la Cruz Rodríguez, J., & Leenaarts, J. 2023, *A&A*, 673, A35
- Díaz Castillo, S. M., Fischer, C., Rezaei, R., Steiner, O., & Berdyugina, S. 2024, in *EAS Annual Meeting 2024*, 1240
- Díaz-Castillo, S. M., Fischer, C. E., Rezaei, R., Steiner, O., & Berdyugina, S. In press, *A&A*
- Domínguez Cerdeña, I. 2003, *A&A*, 412, L65
- Dorch, B. 2000a, *Aktuel Astronomi*, 00, 46
- Dorch, B. 2000b, *Phys. Scr.*, 61, 717
- Dorch, B., Gudiksen, B., Abbett, W., & Nordlund, Å. 2001, *A&A*, 380, 734
- Dorch, B. & Nordlund, Å. 2000a, *A&A*, 353, 1139
- Dorch, B. & Nordlund, Å. 2001a, in *ASP symp.*, Vol. 203, *Recent Insights into the Physics of the Sun and Heliosphere: Highlights from SoHO and Other Space Missions*, ed. P. Brekke, B. Fleck, & J. B. Gurman, 186–189
- Dorch, S. B. F. 2000c, in *Lecture Notes on Computational Science and Engineering*, Vol. 13, *Simulation and Visualization on the Grid*, ed. B. Engquist, L. Johnsson, M. Hammill, & F. Short (Springer-Verlag), 209–220
- Dorch, S. B. F. 2000d, *Aktuel Astronomi*, 00, 46
- Dorch, S. B. F. 2002, in *ESA Special Publication*, Vol. 505, *Proc. Magnetic Coupling of the Solar Atmosphere Euroconference and IAU Colloquium 188*, ed. H. Sawaya-Lacoste, 129–136
- Dorch, S. B. F. 2003, in *The Future of Cool-Star Astrophysics*, ed. A. Brown, G. M. Harper, & T. R. Ayres, 186–195, *proc. 12th Cambridge workshop on Cool Stars, Stellar systems and the Sun*
- Dorch, S. B. F., Archontis, V., & Nordlund, Å. 1999, *A&A*, 352, L79
- Dorch, S. B. F. & Freytag, B. 2003, in *IAU symp. ser.*, Vol. 210, *Modelling of Stellar Atmospheres*, ed. N. Piskunov, W. W. Weiss, & D. F. Gray, A12, 17–21 June 2002 in Uppsala, Sweden
- Dorch, S. B. F. & Ludwig, H. G. 2002, *Astronomische Nachrichten*, 323, 402
- Dorch, S. B. F. & Nordlund, Å. 2000b, in *IAU 24th General Assembly*, 68, poster abstract
- Dorch, S. B. F. & Nordlund, Å. 2000, in *ESA SP*, Vol. 463, *The Solar Cycle and Terrestrial Climate, Solar and Space weather*, ed. A. Wilson, 305
- Dorch, S. B. F. & Nordlund, Å. 2001b, *A&A*, 365, 562
- Dorner, D., Nilsson, K., & Bretz, T. 2009, *A&A*, 493, 721
- Dorotović, I., Erdélyi, R., Freij, N., Karlovský, V., & Márquez, I. 2014, *A&A*, 563, A12
- Dorotović, I., Sobotka, M., Brandt, P. N., & Simon, G. W. 2002, in *ESA SP-506*, Vol. 1, *Solar variability: from core to outer frontiers*, ed. A. Wilson, 435–438
- Dorotović, I., Sobotka, M., Brandt, P. N., & Simon, G. W. 2002, *A&A*, 387, 665
- Dover, F. M., Sharma, R., Korsós, M. B., & Erdélyi, R. 2020, *ApJ*, 905, 72
- Doyle, L. 2020, PhD thesis, Northumbria University
- Doyle, L., Wyper, P. F., Scullion, E., et al. 2019, *ApJ*, 887, 246
- Dravins, D., Lindegren, L., Mezey, E., & Young, A. T. 1997a, *PASP*, 109, 173
- Dravins, D., Lindegren, L., Mezey, E., & Young, A. T. 1997b, *PASP*, 109, 725
- Dravins, D., Lindegren, L., Mezey, E., & Young, A. T. 1998, *PASP*, 110, 610
- Dravins, D., Ludwig, H.-G., Dahlen, E., & Pazira, H. 2015, in *Proc. 18th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun*, ed. G. T. van Belle & H. C. Harris, Lowell Observatory, 853–868
- Dravins, D., Ludwig, H.-G., Dahlén, E., & Pazira, H. 2016, in *Proc. 19th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun (CS19)*, ed. G. A. Feiden, 66
- Dravins, D., Ludwig, H.-G., Dahlén, E., & Pazira, H. 2017a, *A&A*, 605, A90
- Dravins, D., Ludwig, H.-G., Dahlén, E., & Pazira, H. 2017b, *A&A*, 605, A91
- Drews, A. 2014, Master's thesis, Institutt for teoretisk astrofysikk, Universitetet i Oslo
- Drews, A. 2021, PhD thesis, University of Oslo
- Drews, A. & Rouppe van der Voort, L. 2017, *A&A*, 602, A80
- Drews, A. & Rouppe van der Voort, L. 2020, *A&A*, 638, A63
- Druett, M. 2018, PhD thesis, Northumbria University
- Druett, M., Scullion, E., Zharkova, V., et al. 2017, *Nature Communications*, 8, 15905, online
- Druett, M. & Snow, B. 2021, *Astronomy and Geophysics*, 62, 2.34
- Druett, M. K., Pietrow, A. G. M., Vissers, G. J. M., & Robustini, C. 2021, *COCOPLLOT: COlor COllapsed PLOTting software*
- Druett, M. K., Pietrow, A. G. M., Vissers, G. J. M., & Robustini, C. 2022, *RAS Tech. & Instr.*, 1, 29
- Druett, M. K. & Zharkova, V. V. 2019, *A&A*, 623, A20
- Duckenfield, T. & Broomhall, A.-M. 2019, *Astronomy and Geophysics*, 60, 6.29
- Eklund, H. 2022, in *Proc. 2nd Machine Learning in Heliophysics*, 35
- Eklund, H. 2022, in *Proc. IAU*, Vol. 18, *The Era of Multi-Messenger Solar Physics*, ed. G. Cauzzi & A. Tritschler, IAU (Cambridge University Press), 150–155
- Eklund, H. 2023, *A&A*, 669, A106
- Eklund, H., Szydlarski, M., & Wedemeyer, S. 2023, *A&A*, 669, A105
- Engvold, O. 1997a, in *High Resolution Atmospheric Dynamics*, ed. L. Golub, J. Bookbinder, & E. DeLuca, Smithsonian Observatory 3–4 June, invited
- Engvold, O. 1997b, in *Proc. IAU Symp.*, Vol. 167, *New Perspectives on Solar Prominences*, ed. D. Webb, D. Rust, & B. Schmieder, 23–31, invited
- Engvold, O. 2004, in *IAU Symposium*, Vol. 223, *Multi-Wavelength Investigations of Solar Activity*, ed. A. V. Stepanov, E. E. Benevolenskaya, & A. G. Kosovichev, 187–194
- Erasmus, A., Barreto Cabrera, C. M., & Kusoffsky, U. 1987, *LEST Foundation*, Technical Report, 26, 57
- Erdélyi, R., de Pontieu, B., & Sarro, L. M. 1999, in *ESA SP*, Vol. 448, *Magnetic Fields and Solar Processes*, ed. A. Wilson, 1345, *proc. 9th European Meeting on Solar Physics*
- Eriksson, I. 2018, Bachelor's thesis, Stockholm University
- Ermolli, I., Murabito, M., Chatzistergos, T., et al. 2024, in *EAS Annual Meeting 2024*, 2277
- Espedal Moe, T., Pereira, T. M. D., Calvo, F., & Leenaarts, J. 2023, *A&A*, 675, A130
- Esteban Pozuelo, S. 2012, Master's thesis, Universidad de Granada, Spain
- Esteban Pozuelo, S. 2016, PhD thesis, Universidad de Granada, <https://digibug.ugr.es/bitstream/handle/10481/42207/25642121.pdf>
- Esteban Pozuelo, S., Asensio Ramos, A., de la Cruz Rodríguez, J., Trujillo Bueno, J., & Martínez González, M. J. 2023, *A&A*, 672, A141
- Esteban Pozuelo, S., Bellot Rubio, L. R., & de la Cruz Rodríguez, J. 2015, *ApJ*, 803, 93
- Esteban Pozuelo, S., Bellot Rubio, L. R., & de la Cruz Rodríguez, J. 2016, *ApJ*, 832, 170
- Esteban Pozuelo, S., de la Cruz Rodríguez, J., Drews, A., et al. 2017, in *Our Mysterious Sun: magnetic coupling between solar interior and atmosphere*, 13
- Esteban Pozuelo, S., de la Cruz Rodríguez, J., Drews, A., et al. 2019, *ApJ*, 870, 88
- Fabbian, D., Asplund, M., Barklem, P. S., Carlsson, M., & Kiselman, D. 2009, *A&A*, 500, 1221
- Fabbian, D., Asplund, M., Carlsson, M., & Kiselman, D. 2005, in *IAU Symposium*, ed. V. Hill, P. François, & F. Primas, 255–256
- Fabbian, D., Asplund, M., Carlsson, M., & Kiselman, D. 2006, *A&A*, 458, 899
- Falco, M. 2012, Master's thesis, University of Catania, Italy
- Falco, M. 2016, PhD thesis, University of Catania
- Falco, M., Borrero, J. M., Guglielmino, S. L., et al. 2016, *Sol. Phys.*
- Falco, M., Borrero, J. M., Guglielmino, S. L., et al. 2017, in *SOLAR-NET IV: The Physics of the Sun from the Interior to the Outer Atmosphere*, 34
- Falco, M., Crisculi, S., Cristaldi, A., et al. 2014, in *American Institute of Physics Conference Series*, Vol. 1595, *Proc. 7th European Summer School on Experimental Nuclear Astrophysics*, ed. C. Spitaleri, L. Lamia, & R. Gianluca Pizzone, 221–223
- Falco, M., Puglisi, G., Guglielmino, S. L., et al. 2017, *A&A*, 605, A87
- Falco, M., Zuccarello, F., Crisculi, S., et al. 2013, *Mem. Soc. Astron. Italiana*, 84, 345
- Falco, R. E. 2006, *Sol. Phys.*, 234, 213
- Feder, T. 2002, *Physics Today*, 55, 30
- Fedun, V., Verth, G., Jess, D. B., & Erdélyi, R. 2011, *ApJ*, 740, L46
- Felipe, T., Henriques, V. M. J., de la Cruz Rodríguez, J., & Socas-Navarro, H. 2021, *A&A*, 645, L12
- Fernandes, D., Scherrer, P., Tarbell, T., & Title, A. 1993, in *ASP Conf. Ser.*, Vol. 42, *GONG 1992. Seismic Investigation of the Sun and Stars*, ed. T. M. Brown, 101
- Fernandes, D. N. 1992, PhD thesis, Department of Physics, Stanford University
- Fernandes, D. N., Scherrer, P. H., Tarbell, T. D., & Title, A. M. 1992, *Observations of high frequency and high wavenumber solar oscillations*

- Fernandes, D. N., Sherrer, P. H., Tarbell, T. D., & Title, A. M. 1992, *ApJ*, 392, 736
- Fischer, C. E., Vigeesh, G., Lindner, P., et al. 2020, *ApJ*, 903, L10
- Fleck, B., Armstrong, J., Cacciani, A., et al. 2005, AGU Spring Meeting Abstracts, SH13C
- Fonte, C. C. & Fernandes, J. 2009, *Sol. Phys.*, 260, 21
- Foukal, P., Fröhlich, C., Spruit, H., & Wigley, T. M. L. 2006, *Nature*, 443, 161
- Foukal, P., Ortiz, A., & Schnerr, R. 2011, *ApJ*, 733, L38
- Foukal, P. V., Ortiz, A., & Schnerr, R. 2011a, in American Astronomical Society Meeting Abstracts #218, 224.23
- Foukal, P. V., Ortiz, A., & Schnerr, R. 2011b, in AAS/Solar Physics Division Abstracts #42, 702
- Frank, Z., Shine, R., Slater, G., Tarbell, T., & Topka, K. 1990, *BAAS*, 22, 878
- Frank, Z. A., Scharmer, G. B., Keller, C. U., & Lundstedt, H. 1991, *BAAS*, 23, 1052
- Freij, N. 2016, PhD thesis, University of Sheffield, UK
- Freij, N., Scullion, E. M., Nelson, C. J., et al. 2014, *ApJ*, 791, 61
- Freytag, B., Steffen, M., & Dorch, B. 2002, *Astronomische Nachrichten*, 323, 213
- Froment, C., Antolin, P., Henriques, V. M. J., Kohutova, P., & Rouppe van der Voort, L. H. M. 2020, *A&A*, 633, A11
- Gahm, G. F., Gullbring, E., Fischerstrom, C., Lindroos, K. P., & Loden, K. 1993, *A&AS*, 100, 371
- García López, R. J., Lambert, D. L., Edvardsson, B., et al. 1998, *ApJ*, 500, 241
- Getling, A. V. 2004, in IAU Symposium, Vol. 223, Multi Wavelength Investigations of Solar Activity, ed. A. V. Stepanov, E. E. Benevolenskaya, & A. G. Kosovichev (Cambridge University Press), 247–248
- Getling, A. V. & Brandt, P. N. 2002, *A&A*, 382, L5
- Giakiozis, I., Fedun, V., Scullion, E., Jess, D. B., & Verth, G. 2018, *ApJ*, 869, 169
- Golding, T. P., Carlsson, M., & Leenaarts, J. 2014, *ApJ*, 784, 30
- Golding, T. P., Leenaarts, J., & Carlsson, M. 2016, *ApJ*, 817, 125
- Golding, T. P., Leenaarts, J., & Carlsson, M. 2017, *A&A*, 597, A102
- González Manrique, S. J., Kuckein, C., Pastor Yabar, A., et al. 2017, in SOLARNET IV: The Physics of the Sun from the Interior to the Outer Atmosphere, 38
- González Manrique, S. J., Kuckein, C., Pastor Yabar, A., et al. 2020, *ApJ*, 890, 82
- Gorosabel, J., Xu, D., de Ugarte Postigo, A., et al. 2014, *GRB Coordinates Network*, 1
- Gošić, M., De Pontieu, B., Bellot Rubio, L. R., Sainz Dalda, A., & Esteban Pozuelo, S. 2021, *ApJ*, 911, 41
- Gošić, M., de la Cruz Rodríguez, J., De Pontieu, B., et al. 2018, *ApJ*, 857, 48
- Griñón-Marín, A. B., Pastor Yabar, A., Centeno, R., & Socas-Navarro, H. 2021a, *A&A*, 647, A148
- Griñón-Marín, A. B., Pastor Yabar, A., Liu, Y., Hoeksema, J. T., & Norton, A. 2021b, *ApJ*, 923, 84
- Gudiksen, B. V. 2003, *Aktuel naturvidenskab*, 18
- Gudiksen, B. V. 2004a, PhD thesis, Stockholm University
- Gudiksen, B. V. 2004b, *EAFnytt*, 12
- Gudiksen, B. V. & Nordlund, Å. 2002, *ApJ*, 572, L113
- Gudiksen, B. V. & Nordlund, Å. 2005a, *ApJ*, 618, 1031
- Gudiksen, B. V. & Nordlund, Å. 2005b, *ApJ*, 618, 1020
- Gudiksen, B. V. & Nordlund, Å. 2005c, *ApJ*, 623, 597
- Gudiksen, B. V. & Nordlund, Å. 2005d, *ApJ*, 623, 600
- Guevara Gómez, J. C., Jafarzadeh, S., Wedemeyer, S., et al. 2023, *A&A*, 671, A69
- Guglielmino, S. L., Bellot Rubio, L. R., Zuccarello, F., et al. 2010, *ApJ*, 724, 1083
- Guglielmino, S. L., Bellot Rubio, L. R., Zuccarello, F., Romano, P., & Vargas Domínguez, S. 2010, *Mem. Societa Astronomica Italiana Supplementi*, 14, 184
- Guglielmino, S. L., Zuccarello, F., Romano, P., et al. 2016, *ApJ*, 819, 157
- Gustafsson, B., Eriksson, K., Kiselman, D., Olander, N., & Olofsson, H. 1997, *A&A*, 318, 535
- Gustafsson, B., Eriksson, K., Kiselman, D., et al. 2000, in IAU Symp., Vol. 177, The Carbon Star Phenomenon, ed. R. F. Wing, 409
- Hagenaar, H. J. & Shine, R. A. 2005, *ApJ*, 635, 659
- Hagenaar, H. J. & Shine, R. S. 2005, in ESA Special Publication, Vol. 600, The Dynamic Sun: Challenges for Theory and Observations, ed. D. Danesy, S. Poedts, A. de Groof, & J. Andries, 60.1
- Hamedivafa, H. 2011, *Sol. Phys.*, 270, 75
- Hamedivafa, H. & Sobotka, M. 2004, *A&A*, 428, 215
- Hamedivafa, H., Sobotka, M., Bellot Rubio, L., & Esteban Pozuelo, S. 2016, *Iranian Journal of Astronomy and Astrophysics*, 3, 25
- Hammerschlag, R. H., Bettonvil, F. C. M., Jägers, A. P. L., & Scharmer, G. B. 2006, in *Proc. SPIE*, Vol. 6273, Optomechanical Technologies for Astronomy, ed. E. Atad-Ettinger, J. Antebi, & D. Lemke, 627315
- Hammerschlag, R. H., Kommers, J. N., Visser, S., et al. 2012a, in *Proc. SPIE*, Vol. 8450, Modern Technologies in Space- and Ground-based Telescopes and Instrumentation II, ed. R. Navarro, C. R. Cunningham, & E. Prieto, 845007
- Hammerschlag, R. H., Kommers, J. N., Visser, S., et al. 2012b, *Astronomische Nachrichten*, 333, 830
- Hammerschlag, R. H., Sliepen, G., Bettonvil, F. C. M., et al. 2012c, in *Proc. SPIE*, Vol. 8444, Ground-based and Airborne Telescopes IV, ed. L. M. Stepp, R. Gilmozzi, & H. J. Hall, 844406
- Hammerstrøm, M. 2022, *Astronomi, norsk Astronomisk Selskap*
- Hansen, I. 2000, *Hovedfagsoppgave*, Institutt for Teoretisk Astrofysikk, Oslo
- Hansen, I., Engvold, O., Schmieder, B., Mein, N., & Mein, P. 1999, in *ESA SP*, Vol. 448, Magnetic Fields and Solar Processes, ed. A. Wilson, 491, *proc. 9th European Meeting on Solar Physics*
- Hanslmeier, A., Zaqarashvili, T., Koza, J., & Rybak, J. 2017, in *SOLARNET IV: The Physics of the Sun from the Interior to the Outer Atmosphere*, 113
- Hansteen, V., Ortiz, A., Archontis, V., et al. 2019, *A&A*, 626, A33
- Hansteen, V. H., Archontis, V., Pereira, T. M. D., et al. 2017, *ApJ*, 839, 22
- Hansteen, V. H., De Pontieu, B., Rouppe van der Voort, L., van Noort, M., & Carlsson, M. 2006, *ApJ*, 647, L73
- Hartogensis, O., Hammerschlag, R., Sliepen, G., et al. 2017, in *SOLARNET IV: The Physics of the Sun from the Interior to the Outer Atmosphere*, 102
- Hasan, S. S. 2000, *Journal of Astrophysics and Astronomy*, 21, 283, special issue on 'Cyclical Evolution of the Solar Magnetic Fields: Advances in Theory and Observations', *Proc. IAU Colloquium No. 179*
- Hasan, S. S. 2008, *Advances in Space Research*, 42, 86
- Hasan, S. S. & Kalkofen, W. 1999, *BAAS*, 194, 93.09
- Hasan, S. S., Kalkofen, W., & van Ballegooijen, A. A. 2000, *ApJ*, 535, L67
- Heinemann, T., Nordlund, Å., Scharmer, G. B., & Spruit, H. C. 2007, *ApJ*, 669, 1390
- Heinzel, P., Schwartz, P., Lörinčák, J., et al. 2020, *ApJ*, 896, L35
- Henrichs, H. F., Neiner, C., Schnerr, R. S., et al. 2009a, in *IAU Symposium*, Vol. 259, Cosmic Magnetic Fields: From Planets, to Stars and Galaxies, ed. K. G. Strassmeier, A. G. Kosovichev, & J. E. Beckman, 393–394
- Henrichs, H. F., Schnerr, R. S., de Jong, J. A., et al. 2009b, in *IAU Symposium*, Vol. 259, Cosmic Magnetic Fields: From Planets, to Stars and Galaxies, ed. K. G. Strassmeier, A. G. Kosovichev, & J. E. Beckman, 383–384
- Henriques, V., Kiselman, D., & van Noort, M. 2008a, 12th European Solar Physics Meeting, Freiburg, Germany, 12, 2.76
- Henriques, V., Kiselman, D., & van Noort, M. 2008b, in *International Workshop of 2008 Solar Total Eclipse: Solar Magnetism, Corona and Space Weather*, National Astronomical Observatories, CAS, <http://sun10.bao.ac.cn/eclipse/en/index.html>
- Henriques, V. M. J. 2012, *A&A*, 548, A114
- Henriques, V. M. J. 2013, PhD thesis, Stockholm University
- Henriques, V. M. J. & Kiselman, D. 2009, in *Mem. Soc. Astron. Italiana*, Vol. 80, 3D views on cool stellar atmospheres: theory meets observation, ed. P. B. K. N. Nagendra & H.-G. Ludwig, 639, joint Discussion 10, IAU General Assembly, Rio de Janeiro, August 10–11, 2009
- Henriques, V. M. J. & Kiselman, D. 2013, *A&A*, 557, A5
- Henriques, V. M. J., Kiselman, D., & van Noort, M. 2010, in *Magnetic Coupling between the Interior and the Atmosphere of the Sun*, ed. S. S. Hasan & R. J. Rutten, *Astrophysics and Space Science Proceedings* (Springer-Verlag, Heidelberg, Berlin), 511–512
- Henriques, V. M. J., Kuridze, D., Mathioudakis, M., & Keenan, F. P. 2016, *ApJ*, 820, 124
- Henriques, V. M. J., Mathioudakis, M., Socas-Navarro, H., & de la Cruz Rodríguez, J. 2017, *ApJ*, 845, 102
- Henriques, V. M. J., Nelson, C. J., Rouppe van der Voort, L. H. M., & Mathioudakis, M. 2020, *A&A*, 642, A215
- Henriques, V. M. J., Scullion, E., Mathioudakis, M., et al. 2015, *A&A*, 574, A131
- Hewitt, R. 2016, PhD thesis, Queen's University Belfast, UK

- Hillberg, T. 2006, in IAU Joint Discussion, Vol. 3, Solar Active Regions and 3D Magnetic Structure, 26th meeting of the IAU, Joint Discussion 3, 16–17 August, 2006, Prague, Czech Republic, JD03, #81
- Hirzberger, J., Bonet, J. A., Hanslmeier, A., Vázquez, M., & Sobotka, M. 1996, Time evolution of solar granulation phenomena, *Astronomische Gesellschaft, Abstract Series*, Vol. 12, p. 160, Ed. R. E. Schielicke
- Hirzberger, J., Bonet, J. A., Sobotka, M., Vázquez, M., & Hanslmeier, A. 2002, *A&A*, 383, 275
- Hirzberger, J., Bonet, J. A., Vázquez, M., Hanslmeier, A., & Sobotka, M. 1999a, in *Astronomische Gesellschaft Abstract Services*, Vol. 15, *Astronomische Gesellschaft Abstract Series*, ed. R. E. Schielicke, 88
- Hirzberger, J., Bonet, J. A., Vázquez, M., & Hanslmeier, A. 1999b, *ApJ*, 515, 441
- Hirzberger, J., Bonet, J. A., Vázquez, M., & Hanslmeier, A. 1999c, *ApJ*, 527, 405
- Hirzberger, J., Bonet, J. A., Vázquez, M., & Hanslmeier, A. 2000, in *Proc. Third International Workshop on The Solar Wind-Magnetosphere System*, ed. H. K. Biernat, C. J. Farrugia, & D. F. Vogl, Akademie der Wissenschaften, Viena, 21–25 Sept. 1998, Graz (Austria)
- Hirzberger, J., Bonet, J. A., Vázquez, M., Hanslmeier, A., & Sobotka, M. 1997a, in *Lecture notes in physics*, Vol. 489, *Solar and Heliospheric Plasma Physics*, *Proc. 8th European Solar Physics Meeting*, ed. C. E. Alissandrakis, G. Simnett, & L. Vlahos (Springer), 13–18 May 1996 Thessaloniki (Greece)
- Hirzberger, J., Hanslmeier, A., Bonet, J., & Vázquez, M. 1999d, in *ASP Conf. Ser.*, Vol. 183, *High Resolution Solar Physics: Theory, Observations and Techniques*, ed. T. Rimmele, K. S. Balasubramaniam, & R. R. Radick, 507
- Hirzberger, J., Hanslmeier, A., Bonet, J. A., & Vázquez, M. 1995, in *Proc. IAU Symp.*, Vol. 176, *Stellar Surface Structure*, ed. K. G. Strassmeier, 114–116, poster proceedings
- Hirzberger, J., Hanslmeier, A., Bonet, J. A., & Vázquez, M. 2001, in *Astrophysics and Space Science Library*, Vol. 259, *The Dynamic Sun*, ed. A. Hanslmeier, M. Messerotti, & A. Veronig, 271, *proc. Summerschool and Workshop, Solar Observatory Kanzelhöhe, Kärnten, Austria*, Aug. 30–Sep. 10, 1999,
- Hirzberger, J., Riethmüller, T., Lagg, A., Solanki, S. K., & Kobel, P. 2009a, *A&A*, 505, 771
- Hirzberger, J., Riethmüller, T., Solanki, S. K., & Kobel, P. 2009b, in *ASP Conference Series*, Vol. 405, *Solar Polarization 5: In Honor of Jan Stenflo*, ed. S. V. Berdyugina, K. N. Nagendra, & R. Ramelli, 125
- Hirzberger, J., Vázquez, M., Bonet, J. A., Hanslmeier, A., & Sobotka, M. 1997b, *ApJ*, 480, 406
- Hirzberger, J. & Wiehr, E. 2005, *A&A*, 438, 1059
- Hirzberger, J., Wiehr, E., & Stellmacher, G. 2007, in *ASP Conference Series*, Vol. 368, *The Physics of Chromospheric Plasmas*, ed. P. Heinzel, I. Dorotovič, & R. J. Rutten, 321
- Hoekzema, N. M. 1997, PhD thesis, Utrecht University
- Hoekzema, N. M. & Brandt, P. N. 1999, in *ASP Conf. Ser.*, Vol. 183, *High Resolution Solar Physics: Theory, Observations and Techniques*, ed. T. Rimmele, K. S. Balasubramaniam, & R. R. Radick, 473
- Hoekzema, N. M. & Brandt, P. N. 2000, *A&A*, 353, 389
- Hoekzema, N. M., Brandt, P. N., & Rutten, R. J. 1998a, *A&A*, 333, 322
- Hoekzema, N. M. & Rutten, R. J. 1998, *A&A*, 329, 725
- Hoekzema, N. M., Rutten, R. J., Brandt, P. N., & Shine, R. A. 1998b, *A&A*, 329, 276
- Högbom, J. A. 1989a, in *High Spatial Resolution Solar Observations*, ed. O. von der Lühse, 166, *proc. 10th Sacramento Peak Summer Workshop*
- Högbom, J. A. 1989b, in *NATO ASI Series C*, Vol. 263, *Solar and Stellar Granulation*, ed. R. J. Rutten & G. Severino (Kluwer Academic Publishers), 61–68
- Hole, I. B. A. 2012, Master's thesis, University of Oslo
- Hosinsky, G., Kusoffsky, U., & Wyller, A. 1985, in *Solar Physics and Interplanetary Travelling Phenomena*, ed. C. de Jager & B. Chen, 1199
- Huang, Y., Jia, P., Cai, D., & Cai, B. 2019, *Sol. Phys.*, 294, 133
- Huang, Z., Madjarska, M. S., Scullion, E. M., et al. 2017, *MNRAS*, 464, 1753
- Hubrig, S., Schöller, M., Briquet, M., et al. 2009, *The Messenger*, 135, 21
- Hubrig, S., Schöller, M., Schnerr, R. S., et al. 2009, in *IAU Symposium*, Vol. 259, *Cosmic Magnetic Fields: From Planets, to Stars and Galaxies*, ed. K. G. Strassmeier, A. G. Kosovichev, & J. E. Beckman, 381–382
- Ishikawa, R., Trujillo Bueno, J., del Pino Aleman, T., et al. 2021, *Science Advances*, 7, eabe8406
- Ishikawa, R., Tsuneta, S., Kitakoshi, Y., et al. 2007, *A&A*, 472, 911
- Izadparast, M. 2015, Master's thesis, University of Oslo
- Jacobson, W. A. & Pasachoff, J. M. 2008, in *AGU Spring Meeting Abstracts*, Vol. 2008, SP43B–02
- Jafarzadeh, S., Rouppe van der Voort, L., & de la Cruz Rodríguez, J. 2015, *ApJ*, 810, 54
- Jefferies, S., De Pontieu, B., McIntosh, S., & Hansteen, V. H. 2007, *BAAS*, 39, 245
- Jennerholm Hammar, F. 2015, Master's thesis, Uppsala University
- Jensen, E., Engvold, O., & Scharmer, G. B. 1989, in *Proc. Mini Workshop on Flux Tubes in the Solar Atmosphere*, ed. E. Leer & P. Maltby, Institute for Theoretical Astrophysics, University of Oslo, 67
- Jensen, E., Yi, Z., & Engvold, O. 1994, *Sol. Phys.*, 149, 209
- Jess, D. B., Jafarzadeh, S., Keys, P. H., et al. 2023, *Living Reviews in Solar Physics*, 20, 1
- Jess, D. B., Mathioudakis, M., Browning, P. K., Crockett, P. J., & Keenan, F. P. 2010, *ApJ*, 712, L111
- Jess, D. B., Mathioudakis, M., Crockett, P. J., & Keenan, F. P. 2008, *ApJ*, 688, L119
- Jess, D. B., Mathioudakis, M., Erdélyi, R., et al. 2009, *Science*, 323, 1582
- Jess, D. B. & Verth, G. 2016, in *Washington DC American Geophysical Union Geophysical Monograph Series*, Vol. 216, *Low-frequency Waves in Space Plasmas*, ed. A. Keiling, D.-H. Lee, & V. Nakariakov (AGU/Wiley), 449–465
- Johannesson, A. 1992, in *LEST Mini-Workshop on Software for Solar Image Processing*, 51–60
- Johannesson, A. 1992, PhD thesis, Lund Observatory
- Johannesson, A. 1993, *A&A*, 273, 633
- Johannesson, A., Bida, T. A., Lites, B. W., & Scharmer, G. B. 1992, *A&A*, 258, 572
- Johansson, U. 2010, Masters thesis, Stockholm University
- Johnson, Z. M. 2003, *V Magazine*
- Jordahl, E. H. F. 2013, Master's thesis, University of Oslo
- Joshi, J. 2014, PhD thesis, Technische Universität Braunschweig, ISBN 978-3-944072-01-2
- Joshi, J. & de la Cruz Rodríguez, J. 2018, *A&A*, 619, A63
- Joshi, J., Lagg, A., Hirzberger, J., & Solanki, S. K. 2017a, *A&A*, 604, A98
- Joshi, J., Lagg, A., Hirzberger, J., Solanki, S. K., & Tiwari, S. K. 2017b, *A&A*, 599, A35
- Joshi, J., Lagg, A., Solanki, S. K., et al. 2016, *A&A*, 596, A8
- Joshi, J., Pietarila, A., Hirzberger, J., et al. 2011a, *ApJ*, 734, L18
- Joshi, J., Pietarila, A., Hirzberger, J., et al. 2011b, *ApJ*, 740, L55
- Joshi, J., Rouppe van der Voort, L. H. M., & de la Cruz Rodríguez, J. 2020, *A&A*, 641, L5
- Joshi, R., Aulanier, G., Radcliffe, A., et al. 2024, *A&A*
- Joshi, R., Rouppe van der Voort, L., Schmieder, B., et al. In press, *A&A*
- Judge, P. G., Tritschler, A., & Chye Low, B. 2011, *ApJ*, 730, L4
- Jurcak, J., Collados, M., Leenaarts, J., van Noort, M., & Schlichenmaier, R. 2019, *Advances in Space Research*, 63, 1389, *proc. 15th European Solar Physics Meeting*
- Jurčák, J., Martínez Pillet, V., & Sobotka, M. 2006, *A&A*, 453, 1079
- Jurčák, J., Sobotka, M., & Martínez-Pillet, V. 2005, in *Astronomy and Astrophysics Space Science Library*, Vol. 320, *Solar Magnetic Phenomena*, ed. A. Hanslmeier, A. Veronig, & M. Messerotti (Springer, Dordrecht, The Netherlands), 227–230, *proc. 3rd Summerschool and Workshop, at the Solar Observatory Kanzelhöhe, Kärnten, Austria*, August 25 – September 5, 2003
- Jurčák, J., Lemmerer, B., & van Noort, M. 2017, in *IAU Symposium*, Vol. 327, *IAU Symposium*, ed. S. Vargas Domínguez, A. G. Kosovichev, P. Antolin, & L. Harra, 34–39
- Jurčák, J., Martínez Pillet, V., & Sobotka, M. 2007, in *ASP Conference Series*, Vol. 369, *New Solar Physics with Solar-B Mission*, ed. K. Shibata, S. Nagata, & T. Sakurai, 171
- Jurčák, J. & Sobotka, M. 2007, in *Modern Solar Facilities – Advanced Solar Science*, ed. F. Kneer, K. G. Puschmann, & A. D. Wittmann (Universitätsverlag Göttingen), 225–228
- Jurčák, J., Sobotka, M., & Martínez Pillet, V. 2006, *Central European Astrophysical Bulletin*, 30, 55

- Jurčák, J., Sobotka, M., & Martínez-Pillet, V. 2003, in ESA Special Publication, Vol. 535, Solar Variability as an Input to the Earth's Environment, ed. A. Wilson, 109–112
- Kaithakkal, A. J., Borrero, J. M., Yabar, A. P., & de la Cruz Rodríguez, J. 2023, MNRAS, 521, 3882
- Kalkofen, W., Linsky, J., Rybicki, G., Scharmer, G., & Weherse, R. 1985, in NATO Advanced Study Institute (ASI) Series C, Vol. 152, Progress in Stellar Spectral Line Formation Theory, ed. J. E. Beckman & L. Crivellari, 233–237
- Keller, C. & von der Lühe, O. 1993, in Real Time and Post Facto Solar Image Correction, ed. R. R. Radick, 129
- Keller, C. U. 1992, PhD thesis, ETH Zürich
- Keller, C. U. 1992a, Nature, 359, 307
- Keller, C. U. 1992b, in IAU Coll., Vol. 141, The Magnetic and Velocity Fields of Solar Active Regions, ed. G. Ai & H. Zirin
- Keller, C. U. 1993, in ASP Conf. Ser., Vol. 46, The Magnetic and Velocity Fields of Solar Active Regions, ed. H. Zirin, G. Ai, & H. Wang, 3–10, IAU Colloq. 141
- Keller, C. U. 1995, Reviews in Modern Astronomy, 8, 27, ludwig Biermann Award Lecture 1994
- Keller, C. U. & Johannesson, A. 1995, A&AS, 110, 565
- Keller, C. U., Schüssler, M., Vögler, A., & Zakharov, V. 2004, ApJ, 607, L59
- Keller, C. U., Stenflo, J. O., Solanki, S. K., Tarbell, T. D., & Title, A. M. 1990, A&A, 236, 250
- Keller, C. U. & von der Lühe, O. 1992a, in ESO Conference and Workshop Proceedings, Vol. 39, High Resolution Imaging by Interferometry II. Ground-Based Interferometry at Visible and Infrared Wavelengths, ed. J. M. Beckers & F. Merkle, 453
- Keller, C. U. & von der Lühe, O. 1992b, A&A, 261, 321
- Kendrick, R. L., Bell, R., Benson, L., et al. 1999, in Proc. 1999 IEEE Aerospace Conference. (Cat. No.99TH8403), Vol. 5, 421
- Keppens, R. 2000, in Encyclopedia of Astronomy and Astrophysics, ed. P. Murdin (Institute of Physics Publishing and Nature Publishing Group), 2043
- Kerr, R. A. 2009, Science, 323, 1551, news of the week
- Keys, P. 2010, Master's thesis, Queen's University Belfast, UK
- Keys, P. H., Jess, D. B., Mathioudakis, M., & Keenan, F. P. 2011, A&A, 529, A127
- Keys, P. H., Reid, A., Mathioudakis, M., et al. 2019, MNRAS, 488, L53
- Keys, P. H., Reid, A., Mathioudakis, M., et al. 2020, A&A, 633, A60
- Kianfar, S. 2021, Licentiate thesis, Stockholm University
- Kianfar, S., Jafarzadeh, S., Mirtorabi, M. T., & Riethmüller, T. L. 2018, Sol. Phys., 293, 123
- Kianfar, S., Leenaarts, J., Danilovic, S., de la Cruz Rodríguez, J., & José Díaz Baso, C. 2020, A&A, 637, A1
- Kianfar, S., Leenaarts, J., Esteban Pozuelo, S., et al. Submitted, A&A
- KIS, IAC, INAF, et al. 2017a, in SOLARNET IV: The Physics of the Sun from the Interior to the Outer Atmosphere, 92
- KIS, IAC, INAF, et al. 2017b, in SOLARNET IV: The Physics of the Sun from the Interior to the Outer Atmosphere, 100
- Kiselman, D. 1993, PhD thesis, Uppsala University
- Kiselman, D. 1993, Implications of departures from LTE and homogeneity in the sun and solar-type stars, Acta Universitatis Upsalien-sis (Uppsala University), comprehensive Summaries of Uppsala Dis-sertations from the Faculty of Science
- Kiselman, D. 1993, in The feedback of chemical evolution on the stellar content of galaxies, ed. D. Alloin & G. Stasińska, Publication de l'Observatoire de Paris, 35
- Kiselman, D. 1994, A&AS, 104, 23
- Kiselman, D. 1995, in Proc. IAU Symp., Vol. 176, Stellar Surface Structure, ed. K. G. Strassmeier
- Kiselman, D. 1997, ApJ, 489, L107
- Kiselman, D. 1998, A&A, 333, 732
- Kiselman, D. 1999a, in ASP Conf. Ser., Vol. 171, LiBeB, Cosmic Rays and Gamma-Ray Line Astronomy, ed. R. Ramaty, E. Vangioni-Flam, M. Cassé, & K. Olive, 85–95
- Kiselman, D. 1999b, in Astronomisk Årsbok 2000, ed. A. Larsson & J. Schildt (INOVA), 51
- Kiselman, D. 2000, in IAU Joint Discussion, Vol. 8, Oxygen Abun-dances in Old Stars and Implications to Nucleosynthesis and Cos-mology, 5, 24th meeting of the IAU
- Kiselman, D. 2001, New A Rev., 45, 559, proc. JD8 of IAU GA 2000
- Kiselman, D. 2002, Populär astronomi, 11, <https://www.popularastronomi.se/wp-content/uploads/2015/07/dagen04-02.pdf>
- Kiselman, D. 2002, Highlights of Astronomy, 12, 429
- Kiselman, D. 2003a, EAS Newsletter, 13
- Kiselman, D. 2003b, Populär astronomi, 6, https://www.popularastronomi.se/wp-content/uploads/2009/08/2003-2_solen.pdf
- Kiselman, D. 2008, Phys. Scr, T133, 014016
- Kiselman, D. 2012, Fysikaktuellt, 10
- Kiselman, D. 2013, Fysikaktuellt, 14
- Kiselman, D. 2015a, Fysikaktuellt, 24
- Kiselman, D. 2015b, Fysikaktuellt, 6
- Kiselman, D. 2017, in SOLARNET IV: The Physics of the Sun from the Interior to the Outer Atmosphere, 95
- Kiselman, D. 2018, Fysikaktuellt, 24, http://www.fysikersamfundet.se/wp-content/uploads/Fysikaktuellt_1-18_Web3019.pdf
- Kiselman, D. 2024, Populär Astronomi, 6
- Kiselman, D. & Asplund, M. 2001, in ASP Conf. Proc., Vol. 223, 11th Cambridge Workshop on Cool Stars, Stellar Systems and the Sun, ed. R. J. Garcia Lopez, R. Rebolo, & M. R. Zapaterio Osorio (Astronomical Society of the Pacific), CD-684
- Kiselman, D. & Asplund, M. 2003, in IAU Symposium, ed. N. Piskunov, W. W. Weiss, & D. F. Gray, 62P
- Kiselman, D. & Carlsson, M. 1996, A&A, 311, 680
- Kiselman, D. & Dorch, B. 1999, in Ytor på djupet, Naturvetenskapliga forskningsrådets årsbok 1998/1999, 27–38
- Kiselman, D., Kärnfelt, J., & Sollerman, J., eds. 2021, Universum på glänt. Hundra år av svensk astronomi (Svenska astronomiska sällskapet)
- Kiselman, D. & Löfdahl, M. 2004, Populär astronomi, 38, https://www.popularastronomi.se/wp-content/uploads/2011/07/PopAst2004_2.pdf
- Kiselman, D., Löfdahl, M., & Scharmer, G. 2007a, in Astronomdagar i Kiruna, poster
- Kiselman, D., Löfdahl, M., Scharmer, G., & van Noort, M. 2007b, in Astronomdagar i Kiruna, poster
- Kiselman, D. & Lundqvist, S. 2002a, Populär astronomi, 12, <https://www.popularastronomi.se/wp-content/uploads/2015/07/utsikt01-02.pdf>
- Kiselman, D. & Lundqvist, S. 2002b, Populär astronomi, 12
- Kiselman, D. & Lundqvist, S. 2002c, Populär astronomi, 15
- Kiselman, D. & Lundqvist, S. 2003a, Populär astronomi, 17
- Kiselman, D. & Lundqvist, S. 2003b, Populär astronomi, 17, https://www.popularastronomi.se/wp-content/uploads/2009/08/2003-2_utsikt.pdf
- Kiselman, D. & Lundqvist, S. 2003c, Populär astronomi, 21
- Kiselman, D. & Lundqvist, S. 2003d, Populär astronomi, 19
- Kiselman, D. & Lundqvist, S. 2004a, Populär astronomi, 39
- Kiselman, D. & Lundqvist, S. 2004b, Populär astronomi, 17
- Kiselman, D. & Lundqvist, S. 2004c, Populär astronomi, 19
- Kiselman, D. & Lundqvist, S. 2004d, Populär astronomi, 17, https://www.popularastronomi.se/wp-content/uploads/2011/07/PopAst2004_2.pdf
- Kiselman, D. & Lundqvist, S. 2005a, Populär astronomi, 45
- Kiselman, D. & Lundqvist, S. 2005b, Populär astronomi, 15
- Kiselman, D. & Lundqvist, S. 2005c, Populär astronomi, 15, https://www.popularastronomi.se/wp-content/uploads/2013/01/2005-4_utsiktfranjorden.pdf
- Kiselman, D. & Lundqvist, S. 2006a, Populär astronomi, 21
- Kiselman, D. & Lundqvist, S. 2006b, Populär astronomi, 15
- Kiselman, D. & Lundqvist, S. 2006c, Populär astronomi, 15, <https://www.popularastronomi.se/wp-content/uploads/2012/06/anita-utsikt-2006-3.pdf>
- Kiselman, D. & Lundqvist, S. 2006d, Populär astronomi, 15, https://www.popularastronomi.se/wp-content/uploads/2012/06/2006_4_utsikt.pdf
- Kiselman, D. & Lundqvist, S. 2007a, Populär astronomi, 39, <http://www.popularastronomi.se/tidningen/nummer-2-juni-2007>
- Kiselman, D. & Lundqvist, S. 2007b, Populär astronomi, 46, <http://www.popularastronomi.se/tidningen/nummer-3-september-2007>
- Kiselman, D. & Lundqvist, S. 2007c, Populär astronomi, 50, <http://www.popularastronomi.se/tidningen/nummer-4-december-2007>
- Kiselman, D. & Lundqvist, S. 2008a, Populär astronomi, 22, <http://www.popularastronomi.se/tidningen/nr-1-mars-2008>
- Kiselman, D. & Lundqvist, S. 2008b, Populär astronomi, 46, <https://www.popularastronomi.se/tidningen/nummer-2-juni-2008/>
- Kiselman, D. & Nordlund, Å. 1995, A&A, 302, 578
- Kiselman, D., Pereira, T., Gustafsson, B., et al. 2011, A&A, 535, A14
- Kiselman, D., Rutten, R. J., & Plez, B. 2001, in IAU Symposium, Vol. 203, Recent Insights into the Physics of the Sun and Heliosphere: Highlights from SOHO and other Space Missions, ed. P. Brekke, B. Fleck, & J. B. Gurman (ASP Conf. Ser.), 287–290
- Kjelseth, I. M. E. 2020, Master's thesis, University of Oslo

- Kleint, L. & Gandorfer, A. 2017, *Space Sci. Rev.*, 210, 397
- Kobel, P., Hirzberger, J., Gandorfer, A., Solanki, S. K., & Zakharov, V. 2008, 12th European Solar Physics Meeting, Freiburg, Germany, 12, 2
- Kobel, P., Hirzberger, J., & Solanki, S. K. 2014, *ArXiv*, 1410.5354
- Kobel, P., Hirzberger, J., Solanki, S. K., Gandorfer, A., & Zakharov, V. 2009, *A&A*, 502, 303
- Korhonen, H., Berdyugina, S. V., & Tuominen, I. 2002, *A&A*, 390, 179
- Korhonen, H., Berdyugina, S. V., Tuominen, I., et al. 2001, *A&A*, 374, 1049
- Koskelainen, F. 2020, Master's thesis, Stockholm University
- Kotoneva, E., Flynn, C., Chiappini, C., & Matteucci, F. 2002, *MNRAS*, 336, 879
- Koza, J., Kuridze, D., Heinzel, P., et al. 2019, *ApJ*, 885
- Koza, J., Sütterlin, P., Gömöry, P., Rybák, J., & Kučera, A. 2013, *Contributions of the Astronomical Observatory Skalnaté Pleso*, 43, 5
- Kozu, H., Kitai, R., Brooks, D. H., et al. 2006, *PASJ*, 58, 407
- Kriginsky, M., Oliver, R., Freij, N., et al. 2020, *A&A*, 642, A61
- Kriginsky, M., Oliver, R., & Kuridze, D. 2023, *A&A*, 672, A89
- Krikova, K., Pereira, T. M. D., & Rouppe van der Voort, L. H. M. 2023, *A&A*, 677, A52
- Krishnakumar, V. & Venkatakrishnan, P. 1999, *Sol. Phys.*, 186, 43
- Krishnakumar, V., Venkatakrishnan, P., & Srikanth, R. 2000, *Bulletin of the Astronomical Society of India*, 28, 123, *proc. XIX Astronomical Society of India*
- Kucera, T. A., Tovar, M., & De Pontieu, B. 2002, in *ESA, Vol. SP-508, Proceedings of the SOHO 11 Symposium on From Solar Min to Max: Half a Solar Cycle with SOHO*, ed. A. Wilson, 307–310
- Kucera, T. A., Tovar, M., & De Pontieu, B. 2003, *Sol. Phys.*, 212, 81
- Kuridze, D., Heinzel, P., Koza, J., & Oliver, R. 2022, *ApJ*, 937, 56
- Kuridze, D., Henriques, V., Mathioudakis, M., et al. 2015a, *ApJ*, 802, 26
- Kuridze, D., Henriques, V., Mathioudakis, M., et al. 2017, *ApJ*, 846, 9
- Kuridze, D., Henriques, V., Mathioudakis, M., et al. 2018, *ApJ*, 860, 10
- Kuridze, D., Mathioudakis, M., Heinzel, P., et al. 2020, *ApJ*, 896, 120
- Kuridze, D., Mathioudakis, M., Morgan, H., et al. 2019, *ApJ*, 874, 126
- Kuridze, D., Mathioudakis, M., Simões, P. J. A., et al. 2015b, *ApJ*, 813, 125
- Kuridze, D., Socas-Navarro, H., Koza, J., & Oliver, R. 2021, *ApJ*, 908, 168
- Kuridze, D., Uitenbroek, H., Wöger, F., et al. 2024, *ApJ*, 965, 15
- Kuridze, D., Wöger, F., Fischer, C., et al. 2023, *BAAS*, 55, aAS/Solar Physics Division Meeting presentation 407.02
- Kuridze, D., Zaqarashvili, T. V., Henriques, V., et al. 2016, *ApJ*, 830, 133
- Kurokawa, H., Ishii, T. T., Wang, T. J., & Shine, R. 2002, in *Multi-Wavelength Observations of Coronal Structure and Dynamics*, ed. P. C. H. Martens & D. Cauffman, *COSPAR Colloquia Series*, 257
- Kusoffsky, U. & Lundstedt, H. 1986, *A&A*, 160, 51
- Lagerkvist, C. I., Erikson, A., Debehogne, H., et al. 1995, *A&AS*, 113, 115
- Lagg, A., Lites, B., Harvey, J., Gosain, S., & Centeno, R. 2017, *Space Sci. Rev.*, 210, 37
- Langangen, Ø., Carlsson, M., & Rouppe van der Voort, L. 2005, in *ESA-SP, Vol. 600, The Dynamic Sun: Challenges for Theory and Observations*, ed. D. Danesy, S. Poedts, A. de Groof, & J. Andries
- Langangen, Ø., Carlsson, M., Rouppe van der Voort, L., Hansteen, V., & De Pontieu, B. 2007, in *ASP Conference Series, Vol. 368, The Physics of Chromospheric Plasmas*, ed. P. Heinzel, I. Dorotović, & R. J. Rutten, 145
- Langangen, Ø., Carlsson, M., Rouppe van der Voort, L., Hansteen, V., & De Pontieu, B. 2008, *ApJ*, 673, 1194
- Langangen, Ø., Carlsson, M., Rouppe van der Voort, L., & Stein, R. F. 2007a, *ApJ*, 655, 615
- Langangen, Ø., Rouppe van der Voort, L., & Lin, Y. 2007b, *ApJ*, 673, 1201
- Langhans, K. 2006, in *ASP Conf. Series, Vol. 358, Solar Polarization 4*, ed. R. Casini & B. W. Lites, Boulder, 3–12
- Langhans, K., Scharmer, G. B., Kiselman, D., & Löfdahl, M. G. 2007, *A&A*, 464, 763
- Langhans, K., Scharmer, G. B., Kiselman, D., Löfdahl, M. G., & Berger, T. E. 2005, *A&A*, 436, 1087
- Langhans, K., Schmidt, W., & Rimmele, T. 2004, *A&A*, 423, 1147
- Larsson, B. 1989, in *Proc. Mini Workshop on Flux Tubes in the Solar Atmosphere*, ed. E. Leer & P. Maltby, Institute for Theoretical Astrophysics, University of Oslo, 71
- Larsson, B., Solanki, S., & Grossmann-Doerth, U. 1990, in *Proc. Nordic-Baltic Astronomy Meeting*, ed. M. L. C.-I. Lagerkvist, D. Kiselman (Uppsala University), 169
- Lawrence, J. K. & Cadavid, A. C. 2008, *AGU Fall Meeting Abstracts*, A1609
- Lawrence, J. K., Cadavid, A. C., McIntosh, S. W., & Berger, T. E. 2005, *AGU Spring Meeting Abstracts*, SH13C
- Lawrence, J. K., Cadavid, A. C., Miccolis, D., Berger, T. E., & Ruzmaikin, A. 2003, *ApJ*, 597, 1178
- Lawrence, J. K., Cadavid, A. C., Miccolis, D., Berger, T. E., & Ruzmaikin, A. 2003, *BAAS*, 35, 07.04
- Lawrence, J. K., Cadavid, A. C., Ruzmaikin, A., & Berger, T. E. 2001, *Phys. Rev. Lett.*, 86, 5894
- Lawrence, J. K., Ruzmaikin, A. A., & Cadavid, A. C. 1993, *ApJ*, 417, 805
- Lawrence, J. K., Topka, K. P., & Jones, H. P. 1993, *Journal of Geophysical Research*, 98, 18911
- Lazaro, C., Arevalo, M. J., & Fuensalida, J. J. 1987, *Astrophysics and Space Science*, 134, 347
- Ledvina, V. E., Kazachenko, M. D., Criscuoli, S., et al. 2022, *ApJ*, 934, 38
- Leenaarts, J. 2017, in *SOLARNET IV: The Physics of the Sun from the Interior to the Outer Atmosphere*, 25
- Leenaarts, J. 2020, *Living Reviews in Solar Physics*, 17, 3
- Leenaarts, J., Carlsson, M., Hansteen, V., & Rouppe van der Voort, L. 2009, *ApJ*, 694, L128
- Leenaarts, J., Carlsson, M., & Rouppe van der Voort, L. 2012, *ApJ*, 746, 158
- Leenaarts, J., Carlsson, M., & Rouppe van der Voort, L. 2015, *ApJ*, 802, 136
- Leenaarts, J., de la Cruz Rodríguez, J., Danilovic, S., Scharmer, G., & Carlsson, M. 2018, *A&A*, 612
- Leenaarts, J., de la Cruz Rodríguez, J., Kochukhov, O., & Carlsson, M. 2014, *ApJ*, 784, L17
- Leenaarts, J., Golding, T., Carlsson, M., Libbrecht, T., & Joshi, J. 2016, *A&A*, 594, A104
- Li, Q., Liao, S., Wei, H., & Shen, M. 2007, *Chinese Optics Letters*, 5, 201
- Libbrecht, T. 2016, *Licentiate thesis, Stockholm University*
- Libbrecht, T. 2017, in *SOLARNET IV: The Physics of the Sun from the Interior to the Outer Atmosphere*, 51
- Libbrecht, T. 2019, *PhD thesis, Stockholm University*
- Libbrecht, T., Bjørgen, J. P., Leenaarts, J., et al. 2021, *A&A*, 652, A146
- Libbrecht, T., de la Cruz Rodríguez, J., Danilovic, S., Leenaarts, J., & Pazira, H. 2019, *A&A*, 621, A35
- Libbrecht, T., Joshi, J., de la Cruz Rodríguez, J., Leenaarts, J., & Asensio Ramos, A. 2017, *A&A*, 598, A33
- Limaye, S. S. 1996, *Temporal Evolution of SL-9 Impact Sites on Jupiter and Global Maps of Jupiter from Multi-Observatory Visible and Infrared Images*, *Tech. Rep. NASA/CR-1996-207820*; *NAS 1.26:207820*, NASA Space Science and Engineering Center
- Limaye, S. S. & Lindgren, M. 1995, in *The Collision of Comet P/Shoemaker-Levy 9 and Jupiter*, *Proc. IAU Colloquium 156*
- Limaye, S. S., Lindgren, M., & Parker, D. 1995, *BAAS*, 27, 26.08
- Limaye, S. S., Warell, J., & Carsenty, U. 1996, *BAAS*, 28, 21.06, *division of Planetary Sciences Meeting*
- Limaye, S. S. et al. 1996, in *Planetary and space science, Vol. 45, The SL9-Jupiter Collision*, ed. T. Encrenaz & M. Fulchignoni, *proc. International Conference on the SL-9 Jupiter Collision*, Observatoire de Paris, Meudon, France, July 3-5, 1996
- Lin, H.-H., Carlsson, M., & Leenaarts, J. 2017, *ApJ*, 846, 40
- Lin, Y. 2004, *PhD thesis, University of Oslo, Norway*
- Lin, Y., Engvold, O., Martin, S., & Panasenco, O. 2008a, *AGU Spring Meeting Abstracts*, SH23A
- Lin, Y., Engvold, O., Rouppe van der Voort, L., & van Noort, M. 2007, *Sol. Phys.*, 246, 65
- Lin, Y., Engvold, O., Rouppe van der Voort, L., Wiik, J. E., & Berger, T. 2005a, *Sol. Phys.*, 226, 239
- Lin, Y., Engvold, O., & Rouppe van der Voort, L. H. M. 2012, *ApJ*, 747, 129
- Lin, Y., Engvold, O., & Wiik, J. E. 2003, *Sol. Phys.*, 216, 109
- Lin, Y., Martin, S. F., Engvold, O., Rouppe van der Voort, L. H. M., & van Noort, M. 2006, in *COSPAR, Plenary Meeting*, 3193
- Lin, Y., Martin, S. F., Engvold, O., Rouppe van der Voort, L. H. M., & van Noort, M. 2008b, *Advances in Space Research*, 42, 803

- Lin, Y., Soler, R., Engvold, O., et al. 2009, *ApJ*, 704, 870
- Lin, Y., Wiik, J. E., Engvold, O., Rouppe van der Voort, L., & Frank, Z. 2005b, *Sol. Phys.*, 227, 283
- Lind, K., Amarsi, A., Asplund, M., et al. 2017, *MNRAS*, 468, 4311
- Lindberg, A. 2016, Bachelor thesis, Stockholm University
- Lindgren, M. 1995, PhD thesis, Uppsala University
- Lindner, P. 2023, PhD thesis, Kiepenheuer-Institut für Sonnenphysik
- Lindner, P., Schlichenmaier, R., Bello González, N., & de la Cruz Rodríguez, J. 2023, *A&A*, 673, A65
- Lindström, B. 2018, Bsc thesis, Stockholm University
- Lites, B. W., Bida, T. A., Johannesson, A., & Scharmer, G. B. 1991, *ApJ*, 373, 683
- Lites, B. W., Bida, T. A., & Scharmer, G. B. 1989, *BAAS*, 21, 854
- Lites, B. W., Keil, S. L., Scharmer, G. B., & Wyller, A. A. 1985a, *Sol. Phys.*, 97, 35
- Lites, B. W., Keil, S. L., Scharmer, G. B., & Wyller, A. A. 1985b, in *Chromospheric Diagnostics and Modelling*, ed. B. W. Lites, 287
- Lites, B. W., Low, B. C., Martinez, P. V., et al. 1995, *ApJ*, 446, 877
- Lites, B. W., Nordlund, Å., & Scharmer, G. B. 1989, in *Solar and Stellar Granulation*, ed. R. J. Rutten & G. Severino (Kluwer Academic Publishers), 349–357
- Lites, B. W., Rutten, R. J., & Berger, T. E. 1999, *ApJ*, 517, 1013
- Lites, B. W. & Scharmer, G. B. 1988, *BAAS*, 20, 681
- Lites, B. W. & Scharmer, G. B. 1989, in *High Spatial Resolution Solar Observations*, ed. O. von der Lühe, 286, *proc. 10th Sacramento Peak Summer Workshop*
- Lites, B. W., Scharmer, G. B., Berger, T. E., & Title, A. M. 2004, *Sol. Phys.*, 221, 65
- Lites, B. W., Scharmer, G. B., & Skumanich, A. 1990, *ApJ*, 355, 329
- Liu, J., Jess, D., Erdélyi, R., & Mathioudakis, M. 2023, *A&A*, 674, A142
- Liu, J., Nelson, C. J., & Erdélyi, R. 2019, *ApJ*, 872, 22
- Lobato, J. P. 2011, *Super Interessante*, 18
- Löfdahl, M. 1992, in *LEST Technical Report*, Vol. 56, *Proc. LEST Mini-Workshop: Software for Solar Image Processing*, ed. Z. Yi, T. Darvann, & R. Molowny Horas (Institute of Theoretical Astrophysics, University of Oslo), 65–68
- Löfdahl, M. 1996, *Akademiska Gobitar*, 29
- Löfdahl, M. 2016a, in *ASP Conf. Ser.*, Vol. 504, *Ground-based Solar Observations in the Space Instrumentation Era*, ed. I. Dorotović, C. Fischer, & M. Temmer, 111
- Löfdahl, M. 2021, *EST News*, https://www.est-east.eu/images/Newsletter/June2021/ESTNewsletter8_Jun_2021.pdf
- Löfdahl, M. G. 1996, PhD thesis, Stockholm University, Department of Astronomy
- Löfdahl, M. G. 1999, in *ASP Conf. Ser.*, Vol. 183, *High Resolution Solar Physics: Theory, Observations and Techniques*, ed. T. Rimmele, K. S. Balasubramaniam, & R. R. Radick, 320
- Löfdahl, M. G. 2002, in *Proc. SPIE*, Vol. 4792, *Image Reconstruction from Incomplete Data II*, ed. P. J. Bones, M. A. Fiddy, & R. P. Millane, 146–155
- Löfdahl, M. G. 2007, *Appl. Opt.*, 46, 4686
- Löfdahl, M. G. 2010, *A&A*, 524, A90
- Löfdahl, M. G. 2012, in *Proc. Special Session 6 of the 2012 IAU General Assembly: Science with large solar telescopes*, ed. G. Cauzzi, A. Tritschler, & Y. Deng
- Löfdahl, M. G. 2016b, *A&A*, 585, A140
- Löfdahl, M. G., Berger, T. E., & Seldin, J. H. 2001, *A&A*, 377, 1128
- Löfdahl, M. G., Berger, T. E., Shine, R. A., & Title, A. M. 1997, *BAAS*, 29, 02.18
- Löfdahl, M. G., Berger, T. E., Shine, R. A., & Title, A. M. 1998a, *ApJ*, 495, 965
- Löfdahl, M. G., Duncan, A. L., & Scharmer, G. B. 1998b, in *Proc. SPIE*, Vol. 3353, *Adaptive Optical System Technologies*, ed. D. Bonaccini & R. K. Tyson, 952–963
- Löfdahl, M. G. & Eriksson, H. 2000, in *Proc. SPIE*, Vol. 4013, *UV, Optical, and IR Space Telescopes and Instruments VI*, ed. J. B. Breckinridge & P. Jakobsen, 774–782
- Löfdahl, M. G. & Eriksson, H. 2001, *Opt. Eng.*, 40, 984
- Löfdahl, M. G., Henriques, V. M. J., & Kiselman, D. 2011, *A&A*, 533, A82
- Löfdahl, M. G. & Hillberg, T. 2022, *A&A*, 668, A129
- Löfdahl, M. G., Hillberg, T., de la Cruz Rodríguez, J., et al. 2021, *A&A*, 653, A68
- Löfdahl, M. G. & Scharmer, G. B. 1993, in *Real Time and Post Facto Solar Image Correction*, ed. R. R. Radick, 89–104, *proc. 13th Sacramento Peak Summer Workshop*
- Löfdahl, M. G. & Scharmer, G. B. 1994a, in *Proc. SPIE*, Vol. 2302, *Image reconstruction and restoration*, ed. T. J. Schultz & D. L. Snyder, 254–267
- Löfdahl, M. G. & Scharmer, G. B. 1994b, *A&AS*, 107, 243
- Löfdahl, M. G. & Scharmer, G. B. 1997, in *LEST workshop: Towards a Next Generation, Large Solar Telescope*, Kiepenheuer Institut für Sonnenphysik, Freiburg, abstract
- Löfdahl, M. G. & Scharmer, G. B. 2000, in *Proc. SPIE*, Vol. 4013, *UV, Optical, and IR Space Telescopes and Instruments VI*, ed. J. B. Breckinridge & P. Jakobsen, 737–748
- Löfdahl, M. G. & Scharmer, G. B. 2003, in *Proc. SPIE*, Vol. 4853, *Innovative Telescopes and Instrumentation for Solar Astrophysics*, ed. S. Keil & S. Avakyan, 567–575
- Löfdahl, M. G. & Scharmer, G. B. 2004, in *Solar Image Processing Workshop II (abstracts)*, ed. P. Gallagher, NASA’s Sun-Earth Connection Division, Annapolis, Maryland, USA
- Löfdahl, M. G. & Scharmer, G. B. 2012, *A&A*, 537, A80
- Löfdahl, M. G., Scharmer, G. B., & Wei, W. 2000, *Appl. Opt.*, 39, 94
- Löfdahl, M. G., van Noort, M. J., & Denker, C. 2007, in *Modern Solar Facilities – Advanced Solar Science*, ed. F. Kneer, K. G. Puschmann, & A. D. Wittmann (Universitätsverlag Göttingen), 119–126, invited
- Louis, R. E., Bellot Rubio, L. R., de la Cruz Rodríguez, J., Socas-Navarro, H., & Ortiz, A. 2015, *A&A*, 584, A1
- Lundstedt, H. & Johannesson, A. 1990, in *Proc. Nordic-Baltic Astronomy Meeting*, ed. M. L. C.-I. Lagerkvist, D. Kiselman (Uppsala University), 197
- Lundstedt, H., Johannesson, A., & Larsson, B. 1991a, in *Solar Polarimetry*, ed. L. J. November, 272–275, *proc. 11th Sacramento Peak Summer Workshop*
- Lundstedt, H., Johannesson, A., Scharmer, G., et al. 1991b, *Sol. Phys.*, 132, 233
- Macrae, C., Zharkov, S., Zharkova, V., et al. 2018, *A&A*, 619, A65
- Madjarska, M. S., Doyle, J. G., & De Pontieu, B. 2009, *ApJ*, 701, 253
- Malherbe, J.-M., Tarbell, T., Wiik, J. E., et al. 1997, *ApJ*, 482, 535
- Malherbe, J.-M., Tarbell, T., Wiik, J. E., et al. 1998, *ApJ*, 495, 502
- Mardini, E. 2022, Bsc thesis, Stockholm University
- Márquez, I., Bonet, J. A., Sánchez Almeida, J., & Domínguez Cerdeña, I. 2006a, in *ASP Conf. Series*, Vol. 358, *Solar Polarization 4*, ed. R. Casini & B. W. Lites, Boulder, 96–99
- Márquez, I., Sánchez Almeida, J., & Bonet, J. A. 2006b, *ApJ*, 638, 553
- Marténez-Sykora, J., Rouppe van der Voort, L., Carlsson, M., et al. 2015, *ApJ*, 803, 44
- Martens, P. C. H., Hurlburt, N. E., Title, A. M., & Acton, L. W. 1996, *ApJ*, 463, 372
- Marthinussen, E. 2004, Master’s thesis, Universitetet i Oslo
- Martin, T. Z. & Orton, G. S. 1997, *Planetary and Space Science*, 45, 1287
- Martínez González, M. J., Asensio Ramos, A., Arregui, I., et al. 2016, *ApJ*, 825, 119
- Martínez González, M. J., del Pino Alemán, T., Yabar, A. P., Noda, C. Q., & Asensio Ramos, A. 2023, *ApJ*, 955, L40
- Martínez González, M. J., Manso Sainz, R., Asensio Ramos, A., et al. 2015, *ApJ*, 802, 3
- Martínez Pillet, V. 2000, in *Encyclopedia of Astronomy and Astrophysics*, ed. P. Murdin (Institute of Physics Publishing and Nature Publishing Group), 2000
- Martínez Pillet, V., Collados, M., Sanches Almeida, J., et al. 1999, in *ASP Conf. Ser.*, Vol. 183, *High Resolution Solar Physics: Theory, Observations and Techniques*, ed. T. Rimmele, K. S. Balasubramaniam, & R. R. Radick, 264
- Martínez Pillet, V., Trujillo Bueno, J., & Collados, M. 2001, in *ASP Conf. Ser.*, Vol. 236, *Advanced solar polarimetry: Theory, observation and instrumentation*, ed. M. Sigwarth, 133–140
- Martínez Sykora, J., de la Cruz Rodríguez, J., Gošić, M., et al. 2023, *ApJ*, 943, L14
- Martínez-Sykora, J., De Pontieu, B., Cruz la de Rodriguez, J., & Chintzoglou, G. 2020, *ApJ*, 891, L8
- Martínez-Sykora, J., De Pontieu, B., Leenaarts, J., et al. 2013, *ApJ*, 771, 66
- Martínez-Sykora, J., Leenaarts, J., De Pontieu, B., et al. 2020, *ApJ*, 889, 95
- Martínez-Sykora, J., Pontieu, B. D., Hansteen, V. H., et al. 2017, *Science*, 356, 1269
- Mathioudakis, M., Jess, D. B., & Erdelyi, R. 2013, *Space Sci. Rev.*, 175, 1
- Mathur, H., Joshi, J., Nagaraaju, K., Rouppe van der Voort, L., & Bose, S. 2022, *A&A*, 668, A153

- Mathur, H., Nagaraju, K., Joshi, J., & de la Cruz Rodríguez, J. 2023, *ApJ*, 946, 38
- Mazin, D., Lindfors, E., Berger, K., et al. 2009, in *Proc. 31st International Cosmic Ray Conference*, 2070
- McFadden, L.-A., Weissman, P. R., & Johnson, T. V., eds. 2007, *Encyclopedia of the solar system*, 2nd edn. (Academic Press (Elsevier))
- McIntosh, S. W., de Pontieu, B., Hansteen, V. H., & Schrijver, K. 2009, *AGU Fall Meeting Abstracts*, A1
- Medkeff, J. 1999, *S&T*, 122
- Mein, N., Mein, P., Schmieder, B., et al. 1992, in *Proc. SUMER/CDS SOHO Meeting*
- Mein, N., Mein, P., Schmieder, B., et al. 1993, in *ASP Conf. Ser.*, Vol. 46, *IAU Colloq. 141: The Magnetic and Velocity Fields of Solar Active Regions*, ed. H. Zirin, G. Ai, & H. Wang, 63–66
- Mein, N., Schmieder, B., DeLuca, E. E., et al. 2001, *ApJ*, 556, 438
- Mein, P., Mein, N., Démoulin, P., et al. 1996, *A&A*, 305, 343
- Mein, P., Mein, N., Démoulin, P., et al. 1994, in *Solar Magnetic Fields*, ed. M. Schüssler & W. Schmidt (Cambridge University Press), 366
- Mein, P., Schmieder, B., Malherbe, J. M., et al. 1998, in *ASP Conf. Ser.*, Vol. 150, *New Perspectives on Solar Prominences*, ed. D. F. Webb, B. Schmieder, & D. M. Rust, 135, *IAU Colloq.* 167
- Melandri, A., Bernardini, M. G., D’Avanzo, P., et al. 2015, *A&A*, 581, A86
- Melina Gerosa Bellows. 2003, in *National Geographic Kids* (National Geographic Society), 10
- Mendillo, M., Warell, J., Limaye, S. S., et al. 2001, *Planetary and Space Science*, 49, 1501
- Milic, I., Centeno, R., Sun, X., Rempel, M., & de la Cruz Rodríguez, J. 2024, *A&A*, 683, A134
- Milic, I. & van Noort, M. 2024, in *EAS Annual Meeting 2024*, 1507
- Millar, D. C. L., Fletcher, L., & Joshi, J. 2023, *MNRAS*
- Millar, D. C. L., Fletcher, L., & Milligan, R. O. 2021, *MNRAS*, 503, 2444
- Moe, T. E. 2023, PhD thesis, University of Oslo
- Moe, T. E., Pereira, T. M. D., Rouppe van der Voort, L., et al. 2024, *A&A*, 682, A11
- Molowny-Horas, R. 1994a, *A&AS*, 107, 121
- Molowny-Horas, R. 1994b, *Solar Physics*, 154, 29
- Molowny-Horas, R. 1995, *Sol. Phys.*, 159, 405
- Molowny-Horas, R. L. 1994c, PhD thesis, University of Oslo
- Molowny Horas, R. L. & Yi, Z. 1993, in *Proc. 8th Scandinavian Conference on Image Analysis*, ed. K. A. Høgda, B. Braathen, & K. Heia
- Moore, R. L., Schmieder, B., Hathaway, D. H., & Tarbell, T. D. 1997, *Sol. Phys.*, 176, 153
- Mooroogen, K. 2018, PhD thesis, Northumbria University
- Mooroogen, K., Morton, R. J., & Henriques, V. 2017, *A&A*, 607, A46
- Moreels, M. G., Freij, N., Erdélyi, R., Van Doorselaere, T., & Verth, G. 2015, *A&A*, 579, A73
- Morosin, R. 2022, PhD thesis, Stockholm University
- Morosin, R., de la Cruz Rodríguez, J., Díaz Baso, C. J., & Leenaarts, J. 2022, *A&A*, 664, A8
- Morosin, R., de la Cruz Rodríguez, J., Vissers, G. J. M., & Yadav, R. 2020, *A&A*, 642, A210
- Morton, R. J., Moorooogen, K., & Henriques, V. M. J. 2021, *Philosophical Transactions of the Royal Society A*, 379, 20200183
- Morton, R. J., Sharma, R., Tajfirouze, E., & Miriyala, H. 2023, *Reviews of Modern Plasma Physics*, 7, 17
- Möstl, C., Hanslmeier, A., Sobotka, M., Puschmann, K., & Muthsam, H. J. 2006, *Sol. Phys.*, 237, 13
- Mühlmann, W., Hanslmeier, A., & Brandt, P. N. 1996, in *Astronomische Gesellschaft Abstract Series*, Vol. 12, *Astronomische Gesellschaft Abstract Series*, 161
- Mühlmann, W., Hanslmeier, A., & Brandt, P. N. 1997, in *Astronomische Gesellschaft Abstract Series*, Vol. 13, *Astronomische Gesellschaft Abstract Series*, 166
- Mühlmann, W., Hanslmeier, A., & Brandt, P. N. 1999a, in *JOSO Annual Report 1998*, ed. A. Antalová, H. Balthasar, & A. Kučera (JOSO), 145–146
- Mühlmann, W., Hanslmeier, A., & Brandt, P. N. 1999b, in *Astrophysics and Space Science Library*, Vol. 239, *Motions in the solar atmosphere*, ed. A. Hanslmeier & M. Messerotti (Kluwer), 223–226
- Müller, D. A. N., de Groof, A., de Pontieu, B., & Hansteen, V. H. 2005, in *ESA Special Publication*, Vol. 600, *The Dynamic Sun: Challenges for Theory and Observations*, ed. D. Danesy, S. Poedts, A. De Groof, & J. Andries, 30.1
- Müller, D. A. N., Steiner, O., Schlichenmaier, R., & Brandt, P. N. 2001, *Sol. Phys.*, 203, 211
- Muller, R. 2000, in *Encyclopedia of Astronomy and Astrophysics*, ed. P. Murdin (Institute of Physics Publishing and Nature Publishing Group), 2254
- Munoz-Tunon, C. & Fuentes, F. J. 1990, *Astrophysics and Space Science*, 171, 257
- Murabito, M., Ermolli, I., Chatzistergos, T., et al. 2023, *ApJ*, 947, 18
- Murabito, M., Guglielmino, S. L., Ermolli, I., et al. 2021, *A&A*, 653, A93
- Murray, R. 2019, Msc thesis, Queen’s University Belfast
- Narayan, G. 2011a, PhD thesis, Stockholm University
- Narayan, G. 2011b, *A&A*, 529, A79
- Narayan, G. & Scharmer, G. B. 2010, *A&A*, 524, A3
- Narayan, G., Scharmer, G. B., Hillberg, T., et al. 2008, in *European Solar Physics Meeting*, ed. H. Peter, Vol. 12, 2.2–64, 12th European Solar Physics Meeting, Freiburg, Germany
- Narayan, G., van Noort, M., & Scharmer, G. 2007, in *Modern Solar Facilities – Advanced Solar Science*, ed. F. Kneer, K. G. Puschmann, & A. D. Wittmann (Universitätsverlag Göttingen), 213–216
- Nelson, C. 2015, PhD thesis, University of Sheffield
- Nelson, C. J., Freij, N., Bennett, S., Erdélyi, R., & Mathioudakis, M. 2019, *ApJ*, 883, 115
- Nelson, C. J., Freij, N., Reid, A., et al. 2017a, *ApJ*, 845, 16
- Nelson, C. J., Henriques, V. M. J., Mathioudakis, M., & Keenan, F. P. 2017b, *A&A*, 605, A14
- Nelson, C. J., Scullion, E. M., Doyle, J. G., Freij, N., & Erdélyi, R. 2015, *ApJ*, 798, 19
- Nemiroff, R. & Bonnell, J. 2002a, *Light Bridges on the Sun*, *Astronomy Picture of the Day*, <http://antwrp.gsfc.nasa.gov/apod/ap000522.html>
- Nemiroff, R. & Bonnell, J. 2002b, *The Sharpest View of the Sun*, *Astronomy Picture of the Day*, <http://antwrp.gsfc.nasa.gov/apod/ap021114.html>
- Nemiroff, R. & Bonnell, J. 2003, *The Sun’s Surface in 3D*, *Astronomy Picture of the Day*, <http://antwrp.gsfc.nasa.gov/apod/ap030624.html>
- Nemiroff, R. & Bonnell, J. 2004a, *Spicules: Jets on the Sun*, *Astronomy Picture of the Day*, <http://antwrp.gsfc.nasa.gov/apod/ap040802.html>
- Nemiroff, R. & Bonnell, J. 2004b, *Venus at the Edge*, *Astronomy Picture of the Day*, <http://antwrp.gsfc.nasa.gov/apod/ap040610.html>
- Nilsson, L.-G. 2013, *Allt om vetenskap*, 28
- Nisenson, P. 1992, in *ESO Conf. and Workshop Proc.*, Vol. 39, *European Southern Observatory Conference and Workshop Proceedings*, ed. J. M. Beckers & F. Merkle, 299
- Nisenson, P. 1992, in *High-Resolution Imaging by Interferometry II*, ed. Beckers & Dainty, *Proc. ESO conf.*
- Nissen, P. E. 1988, *A&A*, 199, 146
- Nived, V. N., Scullion, E., Doyle, J. G., et al. 2022, *MNRAS*, 509, 5523
- Nóbrega-Siverio, D., Cabello, I., Bose, S., et al. 2024, *A&A*, 686, A218
- Nóbrega-Siverio, D., Martínez-Sykora, J., Moreno-Insertis, F., & Rouppe van der Voort, L. 2017, *ApJ*, 850, 153
- Nóbrega-Siverio, D., Moreno-Insertis, F., Galsgaard, K., et al. 2023, *ApJ*, 958, L38
- Noll, K. S., Lindgren, M., & Martin, T. Z. 1994, *IAU Circ.*, 6031, 1
- Nordlander, T., Amarsi, A. M., Lind, K., et al. 2017, *A&A*, 597, A6
- Nordlund, Å., Dorc, S. B. F., & Stein, R. F. 2000, in *J. Astrophys. Astr.*, Vol. 21, *Cyclical Evolution of Solar Magnetic Fields: Advances in Theory and Observations*, ed. P. Venkatakrishnan, O. Engvold, & A. R. Choudhuri, 307–313, *IAU Colloquium* 179
- Nordlund, Å. & Gudiksen, B. 2003a, in *Stars as suns: Activity, Evolution and Planets*, *IAU Symposium 219 meeting abstract* (Sydney, Australia: IAU)
- Nordlund, Å. & Gudiksen, B. 2003b, in *Stars as suns: Activity, Evolution and Planets*, *IAU Symposium 219 meeting abstract* (Sydney, Australia: IAU)
- Nordlund, Å. & Scharmer, G. B. 2010, in *Magnetic Coupling between the Interior and the Atmosphere of the Sun*, ed. S. S. Hasan & R. J. Rutten, *Astrophysics and Space Science Proceedings* (Springer-Verlag, Heidelberg, Berlin), 243–254
- Nordlund, Å. & Stein, R. F. 1996, in *Proceedings from the 32nd Liege Colloquium*, ed. A. Noels, D. Fraipont-Cro, M. Gabriel, N. Grevesse, & P. Demarque (Universite de Liege, Institut d’Astrophysique), 75–93
- Nordlund, Å. & Stein, R. F. 1997, in *Astrophysics and Space Science Library*, Vol. 225, *Solar Convection, Oscillations and their Relationship*, *SCOR’96*, ed. F. P. Pijpers, J. Christensen-Dalsgaard, & C. S. Rosenthal (Dordrecht: Kluwer Academic Press), 79–103

- Nordlund, Å. & Stein, R. F. 1999, in ASP Conf. Ser., Vol. 173, Theory and Tests of Convection in Stellar Structure, ed. A. Giménez, E. Guinan, & B. Montesinos (American Society of Physics), 91–102
- Nordlund, Å. & Stein, R. F. 2000, in ASP Conf. Ser. 203: IAU Colloq. 176: The Impact of Large-Scale Surveys on Pulsating Star Research, ed. L. Szabados & D. Kurtz, 362–372
- Nordlund, Å., Stein, R. F., & Brandenburg, A. 1996, in Bull. of the Astronomical Soc. of India, Vol. 24, Windows on the Sun's Interior, ed. H. M. Antia & S. M. Chitre, 261–279
- Norén, A. 2013, Bachelor's thesis, Stockholm University
- Orozco Suárez, D., del Toro Iniesta, J. C., Bailén Martínez, F. J., et al. 2023, *Aerospace*, 10, 987
- Ortiz, A., Bellot Rubio, L., Hansteen, V., de la Cruz Rodríguez, J., & Rouppe van der Voort, L. 2014, *ApJ*, 781, 126
- Ortiz, A., Bellot Rubio, L. R., & Rouppe van der Voort, L. 2010, *ApJ*, 713, 1282
- Ortiz, A., Hansteen, V. H., Nóbrega-Siverio, D., & Rouppe van der Voort, L. 2020, *A&A*, 633, A58
- Ortiz, A., Hansteen, V. H., Ramón Bellot Rubio, L., et al. 2016, *ApJ*, 825, 93
- Ortiz, A. & Rouppe van der Voort, L. H. M. 2010, in Magnetic Coupling between the Interior and the Atmosphere of the Sun, ed. S. S. Hasan & R. J. Rutten, *Astrophysics and Space Science Proceedings* (Springer-Verlag, Heidelberg, Berlin), 150–155
- Ortiz Carbonell, A., De Pontieu, B., Bellot Rubio, L. R., et al. 2014, in COSPAR Meeting, Vol. 40, 40th COSPAR Scientific Assembly. Held 2-10 August 2014, in Moscow, Russia, abstract E2.4-14-14
- Orton, G., Ortiz, J. L., Baines, K., et al. 1996, *Science*, 272, 839
- Osborne, C. M. J., Armstrong, J. A., & Fletcher, L. 2019, *ApJ*, 873, 128
- Palacios, J., Domingo, V., Cabello, I., Bonet, J. A., & Sánchez Almeida, J. 2008, in COSPAR, Plenary Meeting, Vol. 37, 37th COSPAR Scientific Assembly, 13–20 July 2008, Montréal, Canada, 2331
- Palacios, J., Vargas Dominguez, S., Balmaceda, L. A., Cabello, I., & Domingo, V. 2016, in ASP Conf. Ser., Vol. 504, Ground-based Solar Observations in the Space Instrumentation Era, ed. I. Dorotovič, C. Fischer, & M. Temmer, 139
- Pandit, S. 2023, PhD thesis, University of Oslo
- Papadogiannakis, S., Dhawan, S., Morosin, R., & Goobar, A. 2019, *MNRAS*, 485, 2343
- Park, S.-H., Tsiropoula, G., Kontogiannis, I., et al. 2016, *A&A*, 586, A25
- Pasachoff, J. M. & Bruck, M. A. 2007, *BAAS*, 38, 224
- Pasachoff, J. M., Jacobson, W. A., & Sterling, A. C. 2009, *Sol. Phys.*, 260, 59
- Pasachoff, J. M., Kozarev, K. A., Butts, D. L., et al. 2005, *AGU Spring Meeting Abstracts*, SH13C
- Pastor Yabar, A. 2017, PhD thesis, University of La Laguna
- Pastor Yabar, A., Asensio Ramos, A., Manso Sainz, R., & Collados, M. 2022, *Appl. Opt.*, 61, 4908
- Pastor Yabar, A., Borrero, J. M., Quintero Noda, C., & Ruiz Cobo, B. 2021, *A&A*, 656, L20
- Paxman, R. & Seldin, J. 1993, in Real Time and Post Facto Solar Image Correction, ed. R. R. Radick, 112, *proc. 13th Sacramento Peak Summer Workshop*
- Paxman, R. G. 1995a, Fine-resolution imaging of solar features using Phase-Diverse Speckle, Tech. rep., Environmental Research Institute of Michigan
- Paxman, R. G. 1995b, Fine-resolution imaging of solar features using phase-diverse speckle, Tech. rep., Advanced Modular Power Systems, Inc.
- Paxman, R. G., Seldin, J. H., & Elste, G. H. 1995, *BAAS*, 26, 2.01
- Paxman, R. G., Seldin, J. H., Löfdahl, M. G., Scharmer, G. B., & Keller, C. U. 1996, *ApJ*, 466, 1087
- Pazira, H. 2017, in SOLARNET IV: The Physics of the Sun from the Interior to the Outer Atmosphere, 30
- Pazira, H., Kiselman, D., & Leenaarts, J. 2017, *A&A*, 604, A49
- Pereira, T. M. D. 2009, PhD thesis, Australian National University, Canberra
- Pereira, T. M. D., Asplund, M., & Kiselman, D. 2009a, *A&A*, 508, 1403
- Pereira, T. M. D., Asplund, M., & Kiselman, D. 2009b, in Mem. Soc. Astron. Italiana, Vol. 80, 3D views on cool stellar atmospheres: theory meets observation, ed. K. N. Nagendra, P. Bonifacio, & H.-G. Ludwig, 650, joint Discussion 10, IAU General Assembly, Rio de Janeiro, August 10-11, 2009
- Pereira, T. M. D., Kiselman, D., & Asplund, M. 2009c, *A&A*, 507, 417
- Pereira, T. M. D., Kiselman, D., & Asplund, M. 2009d, *VizieR Online Data Catalog*, 350, 70417
- Pereira, T. M. D., Rouppe van der Voort, L., & Carlsson, M. 2016, *ApJ*, 824, 65
- Pereira, T. M. D., Rouppe van der Voort, L., Hansteen, V. H., & De Pontieu, B. 2018, *A&A*, 611, L6
- Peter, H., Gudiksen, B. V., & Nordlund, Å. 2004, *ApJ*, 617, L85
- Petersen, L. 2003, *Illustreret Videnskab*, 86
- Petrov, P. P., Gahm, G. F., Gameiro, J. F., et al. 2001, *A&A*, 369, 993
- Petrov, P. P., Gullbring, E., Ilyin, I., et al. 1996, *A&A*, 314, 821
- Photonics Spectra. 2003, in Photonics Spectra (Pittsfield, MA, USA: Laurin Publishing), 44
- Pietarila, A., Aznar Cuadrado, R., Hirzberger, J., & Solanki, S. K. 2011, *ApJ*, 739, 92
- Pietarila, A., Hirzberger, J., Zakharov, V., & Solanki, S. K. 2009, *A&A*, 502, 647
- Pietarila, A., Solanki, S., Hirzberger, J., & Zakharov, V. 2008, in European Solar Physics Meeting, Vol. 12, European Solar Physics Meeting, ed. H. Peter, 2.51, 12th European Solar Physics Meeting, Freiburg, Germany
- Pietrow, A. G. M. 2019a, in Zenodo Software Releases, Vol. 32, 29961, <https://zenodo.org/record/3368313>
- Pietrow, A. G. M. 2019b, *Studium: Tijdschrift voor Wetenschaps- en Universiteitsgeschiedenis*, 11, 1
- Pietrow, A. G. M. 2020, Licentiate thesis, Stockholm University
- Pietrow, A. G. M. 2022, PhD thesis, Stockholm University
- Pietrow, A. G. M. 2023, Notes and Records: the Royal Society Journal of the History of Science
- Pietrow, A. G. M., Burtscher, L., & Brandl, B. 2019, *Research Notes of the AAS*, 3, 42
- Pietrow, A. G. M., Cretignier, M., Druett, M. K., et al. 2023a, in ESA Heliophysics In Europe workshop 2023, <https://www.cosmos.esa.int/web/esa-heliophysics/heliophysics-in-europe-2023>
- Pietrow, A. G. M., Cretignier, M., Druett, M. K., et al. 2024a, *A&A*, 682, A46
- Pietrow, A. G. M., Cretignier, M., Druett, M. K., et al. 2024b, in EGU General Assembly 2024, EGU General Assembly Conference Abstracts, 12140
- Pietrow, A. G. M., Druett, M. K., de la Cruz Rodríguez, J., Calvo, F., & Kiselman, D. 2022, *A&A*, 659, A58
- Pietrow, A. G. M., Druett, M. K., & Singh, V. 2024c, *A&A*, 685, A137
- Pietrow, A. G. M., Hoppe, R., Bergemann, M., & Calvo, F. 2023b, *A&A*, 672, L6
- Pietrow, A. G. M., Kiselman, D., Andrienko, O., et al. 2023c, *A&A*, 671, A130
- Pietrow, A. G. M., Kiselman, D., de la Cruz Rodríguez, J., et al. 2020, *A&A*, 644, A43
- Pietrow, A. G. M. & Pastor Yabar, A. In press, in Proc. IAU Symposium 365: Dynamics of Solar and Stellar Convection Zones and Atmosphere, <https://iaus365.sinp.msu.ru/>
- Poirier, N. et al. In prep., Transverse oscillations in coronal loops and photospheric driving: combining high-resolution coronal and photospheric diagnostics together
- Pötzi, W. & Brandt, P. N. 2007, *Central European Astrophysical Bulletin*, 31, 11
- Pötzi, W., Brandt, P. N., & Hanslmeier, A. 2003, *Hvar Observatory Bulletin*, 27, 39
- Priest, E. 2014, *Magnetohydrodynamics of the Sun* (Cambridge University Press)
- Przybylski, D., Cameron, R., Solanki, S. K., et al. 2022, *A&A*, 664, A91
- Puschmann, K. G. & Kneer, F. 2005, *A&A*, 436, 373
- Puschmann, K. G. & Sailer, M. 2006, *A&A*, 454, 1011
- Puschmann, K. G. & Wiehr, E. 2006, *A&A*, 445, 337
- Quinn, S., Reid, A., Mathioudakis, M., et al. 2019, *ApJ*, 881, 82
- Quintero Noda, C., Iijima, H., Katsukawa, Y., et al. 2019, *MNRAS*, 486, 4203
- Quintero Noda, C., Kato, Y., Katsukawa, Y., et al. 2017a, *MNRAS*, 472, 727
- Quintero Noda, C., Khomenko, E., Collados, M., et al. 2023, *A&A*, 675, A93
- Quintero Noda, C., Schlichenmaier, R., Bellot Rubio, L. R., et al. 2022, *A&A*, 666, A21
- Quintero Noda, C., Shimizu, T., de la Cruz Rodríguez, J., et al. 2016, *MNRAS*, 459, 3363
- Quintero Noda, C., Shimizu, T., Katsukawa, Y., et al. 2017b, *MNRAS*, 464, 4534

- Rachmeler, L. A., Bueno, J. T., McKenzie, D. E., et al. 2022, *ApJ*, 936, 67
- Ramos, A. A. & de la Cruz Rodríguez, J. 2015, in *Proc. IAU Symp.*, Vol. 10, *Polarimetry: From the Sun to Stars and Stellar Environments*, ed. R. C. K. N. Nagendra, S. Bagnulo & M. J. M. González, 225–233
- Ramos-Medina, J., Sánchez Contreras, C., García-Lario, P., & da Silva Santos, J. M. 2018, *A&A*, 618, A171
- Raouafi, N. E., Hoeksema, J. T., Newmark, J. S., et al. 2023, *BAAS*, 55, 333
- Rast, M. P., Bello González, N., Bellot Rubio, L., et al. 2021, *Sol. Phys.*, 296, 70
- Rathore, B., Carlsson, M., Leenaarts, J., & De Pontieu, B. 2015, *ApJ*, 811, 81
- Rayrole, J. 1985, in *Lecture Notes in Physics*, Vol. 223, *High Resolution in Solar Physics*, ed. R. Muller (Springer-Verlag), 32–50, proceedings of a Specialized Session of the Eighth IAU European Regional Astronomy Meeting, Toulouse, September 17–21, 1984
- Reardon, K., Casini, R., Cavallini, F., et al. 2006, in *AAS/Solar Physics Division Meeting*, Vol. 37, *AAS/Solar Physics Division Meeting*, 260
- Rees-Crockford, T. 2020, PhD thesis, Northumbria University
- Rees-Crockford, T., Scullion, E., Khomenko, E., & de Vicente, Á. 2024, *ApJ*, 974, 64
- Reid, A. 2017, PhD thesis, Queen’s University Belfast, UK
- Reid, A., Henriques, V., Mathioudakis, M., Doyle, J. G., & Ray, T. 2017, *ApJ*, 845, 100
- Reid, A., Henriques, V. M. J., Mathioudakis, M., & Samanta, T. 2018, *ApJ*, 855, L19
- Reid, A., Mathioudakis, M., Doyle, J. G., et al. 2016, *ApJ*, 823, 110
- Reid, A., Mathioudakis, M., Scullion, E., et al. 2015, *ApJ*, 805, 64
- Renard, M. & Martin, J. 2000, *Rapport de stage d’option scientifique*, École polytechnique, Paris, France
- Riethmüller, T. L. 2013, PhD thesis, Braunschweig University
- Riethmüller, T. L., Solanki, S. K., Zakharov, V., & Gandorfer, A. 2008, *A&A*, 492, 233
- Robinson, R. A. 2023, PhD thesis, University of Oslo
- Robustini, C. 2017, Licentiate thesis, Stockholm University
- Robustini, C. 2018, PhD thesis, Stockholm University
- Robustini, C., Esteban Pozuelo, S., Leenaarts, J., & de la Cruz Rodríguez, J. 2019, *A&A*, 621, A1
- Robustini, C., Leenaarts, J., & de la Cruz Rodríguez, J. 2018, *A&A*, 609, A14
- Robustini, C., Leenaarts, J., de la Cruz Rodríguez, J., & Rouppe van der Voort, L. 2016, *A&A*, 590, A57
- Rodríguez, A., Kusoffsky, U., Brandt, P. N., & Righini, A. 1989, *Evaluation of the new candidate site for LEST in La Palma (Oslo: Inst. for Teoretisk Astrofysikk)*, iSSN 0800-7780
- Rodríguez-Gil, P., Martínez-Pais, I. G., & de la Cruz Rodríguez, J. 2009, *MNRAS*, 395, 973
- Rodríguez Hidalgo, I. 1999, in *ESA SP*, Vol. 448, *Magnetic Fields and Solar Processes*, ed. A. Wilson, 1305–1308, *proc. 9th European Meeting on Solar Physics*
- Rodríguez Hidalgo, I., Collados, M., & Vazquez, M. 1990a, *Astrophysics and Space Science*, 170, 155, *proc. 11th IAU, European Regional Astronomy Meeting*
- Rodríguez Hidalgo, I., Collados, M., & Vazquez, M. 1990b, *Astrophysics and Space Science*, 170, 23, *proc. 11th IAU, European Regional Astronomy Meeting*
- Rodríguez Hidalgo, I., Collados, M., & Vazquez, M. 1992, *A&A*, 254, 371
- Rodríguez Hidalgo, I., Collados, M., & Vazquez, M. 1992, *A&A*, 264, 661
- Rosenthal, C. S., Bogdan, T. J., Carlsson, M., et al. 2002, *ApJ*, 564, 508
- Rosenthal, C. S., Carlsson, M., Hansteen, V., et al. 2001, in *ASP conf. ser.*, Vol. 203, *Recent Insights into the Physics of the Sun and Heliosphere: Highlights from SoHO and Other Space Missions*, ed. P. Brekke, B. Fleck, & J. B. Gurman, 170–172
- Roudier, T., Bonet, J. A., & Sobotka, M. 2002, *A&A*, 395, 249
- Roudier, T., Bonet, J. A., & Sobotka, M. 2002, in *Proc. THEMIS Workshop*, ed. J. Arnaud & N. Meunier, April 17–19, 2002 Observatoire Midi-Pyrénées, Toulouse, 243
- Roudier, T., Lignières, F., Rieutord, M., Brandt, P. N., & Malherbe, J. M. 2003, *A&A*, 409, 299
- Rouppe van der Voort, L. 2001, in *ASP Conference Proceedings*, Vol. 223, *11th Cambridge Workshop on Cool Stars, Stellar Systems and the Sun*, ed. R. J. Garcia Lopez, R. Rebol, & M. R. Zapaterio Osorio (Astronomical Society of the Pacific), CD–744
- Rouppe van der Voort, L. 2002a, *Zenit*, 52
- Rouppe van der Voort, L. 2003, PhD thesis, Stockholm University
- Rouppe van der Voort, L. 2020, A database of coordinated IRIS and SST observations, IRIS Technical Note 47, LMSAL
- Rouppe van der Voort, L. 2021, *Astronomi, norsk Astronomisk Selskap*
- Rouppe van der Voort, L., Bellot Rubio, L. R., & Ortiz, A. 2010, *ApJ*, 718, L78
- Rouppe van der Voort, L. & de la Cruz Rodriguez, J. 2013, *ApJ*, 776, 56
- Rouppe van der Voort, L., De Pontieu, B., Pereira, T. M. D., Carlsson, M., & Hansteen, V. 2015, *ApJ*, 799, L3
- Rouppe van der Voort, L., De Pontieu, B., Scharmer, G. B., et al. 2017, *ApJ*, 851, L6
- Rouppe van der Voort, L. & Drews, A. 2019, *A&A*, 626, A62
- Rouppe van der Voort, L., Joshi, J., & Krikova, K. 2024, *A&A*, 683, A190
- Rouppe van der Voort, L. & Kiselman, D. 2000, *Astronomisk Tidskrift*
- Rouppe van der Voort, L., Leenaarts, J., de Pontieu, B., Carlsson, M., & Vissers, G. 2009, *ApJ*, 705, 272
- Rouppe van der Voort, L., van Noort, M., Carlsson, M., & Hansteen, V. 2006, in *ASP Conf. Ser.*, Vol. 354, *Solar MHD: Theory and Observations – a High Spatial Resolution Perspective*, ed. J. Leibacher, R. F. Stein, & H. Uitenbroek, 37
- Rouppe van der Voort, L., van Noort, M., & de la Cruz Rodriguez, J. 2023, *A&A*, 673, A11
- Rouppe van der Voort, L. H. M. 2002b, *A&A*, 389, 1020
- Rouppe van der Voort, L. H. M. 2002, *Nuovo Cimento C Geophysics Space Physics C*, 025, 769, *proceedings of Themis Meeting in Rome*, March 2001
- Rouppe van der Voort, L. H. M. 2002, in *Poster proc. First Potsdam Thinkshop on Sunspots & Starspots*, ed. K. G. Strassmeier & A. Washuettl, 27–29
- Rouppe van der Voort, L. H. M. 2003, *A&A*, 397, 757
- Rouppe van der Voort, L. H. M., De Pontieu, B., Carlsson, M., et al. 2020, *A&A*, 641, A146
- Rouppe van der Voort, L. H. M., Hansteen, V. H., Carlsson, M., et al. 2005, *A&A*, 435, 327
- Rouppe van der Voort, L. H. M., Joshi, J., Henriques, V. M. J., & Bose, S. 2021, *A&A*, 648, A54
- Rouppe van der Voort, L. H. M. & Krijger, J. M. 2003, in *The Future of Cool-Star Astrophysics*, ed. A. Brown, T. R. Ayres, & G. M. Harper (University of Colorado), 607–612, *proc. 12th Cambridge workshop on Cool Stars, Stellar systems and the Sun*
- Rouppe van der Voort, L. H. M., Löfdahl, M. G., Kiselman, D., & Scharmer, G. B. 2004, *A&A*, 414, 717
- Rouppe van der Voort, L. H. M., Pontieu, B. D., Hansteen, V. H., Carlsson, M., & van Noort, M. 2007, *ApJ*, 660, L169
- Rouppe van der Voort, L. H. M., Rutten, R. J., Sütterlin, P., Sloover, P. J., & Krijger, J. M. 2003, *A&A*, 403, 277
- Rouppe van der Voort, L. H. M., Rutten, R. J., & Vissers, G. J. M. 2016, *A&A*, 592, A100
- Roy, D. B. 2001, Master’s thesis, Universiteit Utrecht
- Rüdiger, G., Küker, M., & Schnerr, R. S. 2012, *A&A*, 546, A23
- Rutten, R. 2017, in *SOLARNET IV: The Physics of the Sun from the Interior to the Outer Atmosphere*, 42
- Rutten, R. 2020, in *Solar Magnetic Variability and Climate*, ed. C. de Jager, S. Duhau, & A. C. T. Nieuwenhuizen (Alkmaar: Stip Media), 29
- Rutten, R. J. 1989, *Comments on Astrophysics*, 14, 297
- Rutten, R. J. 1997, in *ASP Conf. Ser.*, Vol. 118, *Advances in Physics of Sunspots*, ed. B. Schmieder, J. C. del Toro Iniesta, & M. Vázquez, 298–302, *1st Advances in Solar Physics Euroconference*
- Rutten, R. J. 1999, in *ASP Conf. Ser.*, Vol. 184, *Third advances in Solar Physics Euroconference: Magnetic Fields and Oscillations*, ed. B. Schmieder, A. Hofmann, & J. Staude, 181
- Rutten, R. J., de Pontieu, B., & Lites, B. W. 1999a, in *ASP Conf. Ser.*, Vol. 183, *High Resolution Solar Physics: Theory, Observations and Techniques*, ed. T. Rimmele, K. S. Balasubramaniam, & R. R. Radick, 383–388
- Rutten, R. J., Kiselman, D., Rouppe van der Voort, L., & Plez, B. 2001, in *ASP Conf. Ser.*, Vol. 236, *20th NSO/SP Summer Workshop: Advanced Solar Polarimetry: Theory, Observations, and Instrumentation*, ed. M. Sigwarth, 445
- Rutten, R. J., Leenaarts, J., Rouppe van der Voort, L. H. M., et al. 2011, *A&A*, 531, A17
- Rutten, R. J., Lites, B. W., Berger, T. E., & Shine, R. A. 1999b, in *Solar and Stellar Activity: Similarities and Differences*, ed. C. J. Butler & J. G. Doyle, Vol. 158 (ASP Conf. Ser.)

- Rutten, R. J. & Rouppe van der Voort, L. H. M. 2017, *A&A*, 597, A138
- Rutten, R. J., Rouppe van der Voort, L. H. M., & De Pontieu, B. 2019, *A&A*, 632, A96
- Rutten, R. J., Rouppe van der Voort, L. H. M., & Vissers, G. J. M. 2015, *ApJ*, 808, 133
- Rutten, R. J., Vissers, G. J. M., Rouppe van der Voort, L. H. M., Sütterlin, P., & Vitas, N. 2013, in *Journal of Physics: Conference Series*, Vol. 440, *Eclipse on the Coral Sea: Cycle 24 Ascending*, ed. P. Cally, R. Erdélyi, & A. Norton, 012007
- Ruzmaikin, A., Sokoloff, D., & Tarbell, T. D. 1991, in *The Sun and Cool Stars: Activity, Magnetism, Dynamos*, ed. I. Tuominen, D. Moss, & G. Rüdiger, Vol. 380 (Springer-Verlag), 140, *proc. IAU Colloq.* 130
- Ryan, D. F., Mumford, S., Barnes, W. T., et al. 2023, *ApJ*, 956, 44
- Ryutova, M. 2002, in *Spring Meeting (American Geophysical Union)*, SH32D-04
- Ryutova, M., Berger, T., Frank, Z., & Title, A. 2008a, *ApJ*, 686, 1404
- Ryutova, M., Berger, T., & Title, A. 2008b, *ApJ*, 676, 1356
- Ryutova, M. & Hagenaar, H. 2007, *Sol. Phys.*, 70
- Ryutova, M. & Shine, R. 2006, *Journal of Geophysical Research*, 111
- Ryutova, M. P. 2003, *BAAS*, 35, 810
- Ryutova, M. P., Hagenaar, H., & Title, A. 2007, *ApJ*, 656, L45
- Ryutova, M. P., Shine, R., & Tarbell, T. D. 2001, *Eos Trans. AGU*, SH32C, *spring Meet. Suppl.*
- Sakai, J. I., Ryutova, M., Schrijver, K., et al. 1997a, *BAAS*, 29, 904
- Sakai, J. I., Ryutova, M., Schrijver, K., et al. 1997b, in *AAS/Solar Physics Division Meeting*, Vol. 28, *AAS/Solar Physics Division Meeting #28*, 02.60
- Samanta, T. 2017, PhD thesis, Pondicherry University, Puducherry, India
- Samanta, T., Henriques, V. M. J., Banerjee, D., et al. 2016, *ApJ*, 828, 23
- Sánchez Almeida, J. 2003, *A&A*, 411, 615
- Sánchez Almeida, J. 2004, *Noticias del Instituto Astrofísico de Canarias*, 26
- Sanchez Almeida, J. 2008, original version submitted to *ApJ* on December 21, 2004, but never published
- Sanchez Almeida, J. 2010, in *Magnetic Coupling between the Interior and the Atmosphere of the Sun*, ed. S. S. Hasan & R. J. Rutten, *Astrophysics and Space Science Proceedings* (Springer-Verlag, Heidelberg, Berlin), 210–228
- Sánchez Almeida, J., Asensio Ramos, A., Trujillo Bueno, J., & Cernicharo, J. 2001, *ApJ*, 555, 978
- Sánchez Almeida, J. & Bonet, J. A. 1998, *ApJ*, 505, 1010
- Sánchez Almeida, J. & Bonet, J. A. 1999, in *ASP Conf. Ser.*, Vol. 183, *High Resolution Solar Physics: Theory, Observations, and Techniques*, ed. T. Rimmele, K. S. Balasubramaniam, & R. R. Radick, 87
- Sánchez Almeida, J., Bonet, J. A., Viticchié, B., & Del Moro, D. 2010, *ApJ*, 715, L26
- Sanchez Almeida, J., Collados, M., Martinez Pillet, V., et al. 1997, in *ASP Conf. Ser.*, Vol. 118, *Advances in Physics of Sunspots*, ed. B. Schmieder, J. C. del Toro Iniesta, & M. Vázquez, 366, *1st Advances in Solar Physics Euroconference*
- Sánchez Almeida, J., Márquez, I., Bonet, J. A., Domínguez Cerdeña, I., & Muller, R. 2004, *ApJ*, 609, L91
- Sánchez Almeida, J., Márquez, I., Bonet, J. A., & Domínguez Cerdeña, I. 2007, *ApJ*, 658, 1357
- Sánchez Cuberes, M. 2002, PhD thesis, University of La Laguna
- Sánchez Cuberes, M., Bonet, J. A., Vázquez, M., & Wittmann, A. 1999, in *ASP Conf. Ser.*, Vol. 183, *High Resolution Solar Physics: Theory, Observations and Techniques*, ed. T. Rimmele, K. S. Balasubramaniam, & R. R. Radick, 515
- Sánchez Cuberes, M., Bonet, J. A., Vázquez, M., & Wittmann, A. D. 1998, *Astrophysics and Space Science*, 263, 343
- Sánchez Cuberes, M., Bonet, J. A., Vázquez, M., & Wittmann, A. D. 2000, *ApJ*, 538, 940
- Sánchez Cuberes, M., Vázquez, M., Bonet, J. A., & Sobotka, M. 2002, *ApJ*, 570, 886
- Sánchez Cuberes, M., Vázquez, M., Bonet, J. A., & Sobotka, M. 2003, *A&A*, 397, 1075
- Sand, M. O. 2021, Master's thesis, University of Oslo
- Sandqvist, A. 2004, in *Vanliga almanackan för året efter frälsaren Kristi födelse 2005* (Almanacksförlaget), 57
- Saranathan, S., van Noort, M., & Solanki, S. K. 2021, *A&A*, 653, A17
- Sarson, G. R., Shukurov, A., Nordlund, Å., Gudiksen, B., & Brandeburg, A. 2004, *Ap&SS*, 292, 267
- Scharmer, G. 2005, *Populär astronomi*, 31, https://www.popularastronomi.se/wp-content/uploads/2014/03/2005_1_solens.pdf
- Scharmer, G. 2008, *Phys. Scr.*, T133, 014015
- Scharmer, G. 2017, in *SOLARNET IV: The Physics of the Sun from the Interior to the Outer Atmosphere*, 85
- Scharmer, G., de la Cruz Rodríguez, J., & Lindberg, B. 2024, in *EAS Annual Meeting 2024*, 1203
- Scharmer, G., Henriques, V., Hillberg, T., et al. 2008, *12th European Solar Physics Meeting*, Freiburg, Germany, 12, 2
- Scharmer, G., Löfdahl, M., & Rouppe van der Voort, L. 2000a, *Sol. Phys.*, 196, frontispiece
- Scharmer, G., Rouppe van der Voort, L., & Löfdahl, M. 2001, in *Sternzeit 2002 "Bild Der Wissenschaft" Calendar* (Bremen, Germany: Palazzi Verlag), 9, (small) September image, (3000–4000 calendars)
- Scharmer, G. B. 1987, in *The Role of Fine-Scale Magnetic Fields on the Structure of the Solar Atmosphere*, ed. E. H. Schröter, M. Vázquez, & A. A. Wyller, 349
- Scharmer, G. B. 1989, in *NATO ASI Series C*, Vol. 263, *Solar and Stellar Granulation*, ed. R. J. Rutten & G. Severino (Kluwer Academic Publisher), 161–171
- Scharmer, G. B. 1997, in *Den svenska almanackan 1998*, ed. A. Sandqvist (Almanacksförlaget), 130–138
- Scharmer, G. B. 1999, in *ASP Conf. Ser.*, Vol. 183, *High Resolution Solar Physics: Theory, Observations, and Techniques*, ed. T. R. Rimmele, K. S. Balasubramaniam, & R. R. Radick, 330
- Scharmer, G. B. 2006, *A&A*, 447, 1111
- Scharmer, G. B. 2009a, *Space Sci. Rev.*, 144, 229
- Scharmer, G. B. 2009b, in *Space Sciences Series*, Vol. 32, *The Origin and Dynamics of Solar Magnetism*, ed. M. J. Thompson, A. Balogh, J. L. Culhane, Å. Nordlund, S. K. Solanki, & J.-P. Zahn, *ISSI* (Springer), 229
- Scharmer, G. B. 2009, *Science*, 325, 155, *perspectives*
- Scharmer, G. B. 2014, *A&A*, 561, A31
- Scharmer, G. B., Bjelksjö, K., Korhonen, T. K., Lindberg, B., & Pettersson, B. 2003a, in *Proc. SPIE*, Vol. 4853, *Innovative Telescopes and Instrumentation for Solar Astrophysics*, ed. S. Keil & S. Avakyan, 341–350
- Scharmer, G. B. & Blomberg, H. 1999, in *ASP Conf. Ser.*, Vol. 183, *High Resolution Solar Physics: Theory, Observations, and Techniques*, ed. T. R. Rimmele, K. S. Balasubramaniam, & R. R. Radick, 239
- Scharmer, G. B., Brandt, P., Title, A. M., Shine, R. A., & Ferguson, S. 1987, *BAAS*, 19, 1118
- Scharmer, G. B., Brown, D. S., Pettersson, L., & Rehn, J. 1985, *Appl. Opt.*, 24, 2558
- Scharmer, G. B. & Carlsson, M. 1985, *Journal of Computational Physics*, 59, 56
- Scharmer, G. B. & Carlsson, M. 1985, in *NATO Advanced Study Institute (ASI) Series C*, Vol. 152, *Progress in Stellar Spectral Line Formation Theory*, ed. J. E. Beckman & L. Crivellari (D. Reidel Publishing Company), 189–198
- Scharmer, G. B., de la Cruz Rodríguez, J., Sütterlin, P., & Henriques, V. M. J. 2013, *A&A*, 553, A63
- Scharmer, G. B., Dettori, P., Löfdahl, M. G., & Shand, M. 2003b, in *Proc. SPIE*, Vol. 4853, *Innovative Telescopes and Instrumentation for Solar Astrophysics*, ed. S. Keil & S. Avakyan, 370–380
- Scharmer, G. B., Gudiksen, B. V., Kiselman, D., Löfdahl, M. G., & Rouppe van der Voort, L. H. M. 2002, *Nature*, 420, 151
- Scharmer, G. B. & Henriques, V. M. J. 2012, *A&A*, 540, A19
- Scharmer, G. B., Henriques, V. M. J., Kiselman, D., & de la Cruz Rodríguez, J. 2011, *Science*, 333, 316, published Online 2 June 2011
- Scharmer, G. B., Kiselman, D., Löfdahl, M. G., & van der Voort, L. H. M. R. 2003c, in *ASP Conference Series*, Vol. 307, *Proc. Third International Workshop on Solar Polarization*, ed. J. Trujillo Bueno & J. Sánchez Almeida
- Scharmer, G. B., Langhans, K., Kiselman, D., & Löfdahl, M. G. 2007, in *ASP Conference Series*, Vol. 369, *New Solar Physics with Solar-B Mission*, ed. K. Shibata, S. Nagata, & T. Sakurai, 71
- Scharmer, G. B., Lindberg, B., Rouppe van der Voort, L., & de la Cruz Rodríguez, J. 2023, in *Sun in Science and Society*, Venice 11–15 Sept 2023, *SOLARNET*, <https://solarnet-s3.com/>
- Scharmer, G. B. & Löfdahl, M. G. 1991, *Advances in Space Research*, 11, 129
- Scharmer, G. B., Löfdahl, M. G., Sliepen, G., & de la Cruz Rodríguez, J. 2019, *A&A*, 626, A55
- Scharmer, G. B., Löfdahl, M. G., van Werkhoven, T. I. M., & de la Cruz Rodríguez, J. 2010, *A&A*, 521, A68

- Scharmer, G. B., Narayan, G., Hillberg, T., et al. 2008a, *ApJ*, 689, L69
- Scharmer, G. B., Nordlund, Å., & Heinemann, T. 2008b, *ApJ*, 677, L149
- Scharmer, G. B., Owner-Petersen, M., Korhonen, T., & Title, A. 1999, in *ASP Conf. Ser.*, Vol. 183, *High Resolution Solar Physics: Theory, Observations and Techniques*, ed. T. Rimmele, K. S. Balasubramaniam, & R. R. Radick, 157
- Scharmer, G. B., Shand, M., Löfdahl, M. G., Dettori, P. M., & Wei, W. 2000b, in *Proc. SPIE*, Vol. 4007, *Adaptive Optical Systems Technologies*, ed. P. L. Wizinowich, 239–250
- Scharmer, G. B., Sliepen, G., Sinquin, J.-C., et al. 2024, *A&A*, 685, A32
- Scharmer, G. B. & Spruit, H. C. 2006, *A&A*, 460, 605
- Scharmer, G. B. & van Werkhoven, T. I. M. 2010, *A&A*, 513, A25
- Schilling, G. 2003, *S&T*, 105, 16
- Schlichenmaier, R., Bellot Rubio, L. R., Collados, M., et al. 2019, *Science Requirement Document (SRD) for the European Solar Telescope (EST)* (2nd edition, December 2019), Tech. rep., European Association for Solar Telescopes (EAST)
- Schmieder, B., Deluca, E., Mein, N., et al. 1999, in *ESA SP*, Vol. 448, *Magnetic Fields and Solar Processes*, ed. A. Wilson, 653, *proc. 9th European Meeting on Solar Physics*
- Schmieder, B., Engvold, O., Wiik, J. E., & DeLuca, E. 1999, in *ESA SP*, Vol. 446, *8th SOHO Workshop on Plasma Dynamics and Diagnostics in Transition Region & Corona*, ed. J.-C. Vial & B. Kaldeich-Schü, 599
- Schmieder, B., Lin, Y., Heinzel, P., & Schwartz, P. 2004, *Sol. Phys.*, 221, 297
- Schmit, D., Bryans, P., De Pontieu, B., et al. 2015, *ApJ*, 811, 127
- Schmit, D., Sukhorukov, A. V., De Pontieu, B., et al. 2017, *ApJ*, 847, 141
- Schnerr, R., de la Cruz Rodríguez, J., & van Noort, M. 2011, *A&A*, 534, A45
- Schnerr, R. S. & Spruit, H. C. 2011a, *A&A*, 532, A136
- Schnerr, R. S. & Spruit, H. C. 2011b, in *ASP Conf. Ser.*, Vol. 437, *Solar Polarization 6*, ed. J. R. Kuhn, D. M. Harrington, H. Lin, S. V. Berdyugina, J. Trujillo-Bueno, S. L. Keil, & T. Rimmele, 167
- Schrijver, C., Title, A., Acton, L., et al. 1996, *BAAS*, 188, 6704
- Schrijver, C. J., Hagenaar, H. J., & Title, A. M. 1997, *ApJ*, 475, 328
- Schrijver, C. J. & Zwaan, C. 2000, *Cambridge Astrophysics Series*, Vol. 34, *Solar and Stellar Magnetic Activity* (Cambridge University Press)
- Schrijver, C. J., Zwaan, C., Balke, A. C., Tarbell, T. D., & Lawrence, J. K. 1992, *A&A*, 253, L1
- Schröter, E.-H., Vázquez, M., & Wyller, A. A., eds. 1987, *The Role of Finescale Magnetic Fields on the Structure of the Solar Atmosphere* (Cambridge University Press), *proc. Inaugural workshop and round table discussion for the D-E-S Telescope installations on the Canary Islands*
- Schulze, S., Johansson, J., Skan, M., et al. 2021a, *Transient Name Server Classification Report*, 2021-1619, 1
- Schulze, S., Skan, M., Cehula, J., et al. 2021b, *Transient Name Server Classification Report*, 2021-1593, 1
- Schulze, S., Skan, M., Cehula, J., et al. 2021c, *Transient Name Server Classification Report*, 2021-1618, 1
- Schulze, S., Skan, M., Cehula, J., et al. 2021d, *Transient Name Server Classification Report*, 2021-1679, 1
- Schulze, S., Skan, M., Cehula, J., et al. 2021e, *Transient Name Server Classification Report*, 2021-1699, 1
- Schüssler, M. 2000, in *Encyclopedia of Astronomy and Astrophysics*, ed. P. Murdin (Institute of Physics Publishing and Nature Publishing Group), 1982
- Scullion, E., Engvold, O., Lin, Y., & Rouppe van der Voort, L. 2015, *ApJ*, 814, 123
- Scullion, E., Rouppe Van Der Voort, L., Antolin, P., et al. 2016, *ApJ*, 833, 184
- Scullion, E., Rouppe van der Voort, L., Wedemeyer, S., & Antolin, P. 2014, *ApJ*, 797, 36
- Sekse, D. H. 2013, PhD thesis, University of Oslo
- Sekse, D. H., Rouppe van der Voort, L., & De Pontieu, B. 2012, *ApJ*, 752, 108
- Sekse, D. H., Rouppe van der Voort, L., & De Pontieu, B. 2013a, *ApJ*, 764, 164
- Sekse, D. H., Rouppe van der Voort, L., De Pontieu, B., & Scullion, E. 2013b, *ApJ*, 769, 44
- Selbing, J. 2005, Master's thesis, Stockholm University
- Seldin, J. H. & Paxman, R. G. 1994, in *Proc. SPIE*, Vol. 2302, *Image reconstruction and restoration*, ed. T. J. Schultz & D. L. Snyder, 268–280
- Seldin, J. H., Paxman, R. G., & Elste, G. H. 1995, *BAAS*, 27, 956
- Shand, M. 1995, in *Proc. IEEE Symposium on FPGAs for Custom Computing Machines*, ed. K. L. Pocek & P. M. Athanas, 125–134
- Shand, M. & Moll, L. 1998, in *FPGAs for Custom Computing Machines (FCCM'98)*, ed. K. L. Pocek & J. M. Arnold, IEEE Computer Society Press
- Shand, M. & Scharmer, G. 1998, in *New A Rev.*, Vol. 42, *Site properties of the Canarian Observatories*, ed. C. Muñoz-Tuñón (Elsevier), 481–484
- Shand, M., Scharmer, G. B., & Wei, W. 1999, in *ASP Conf. Ser.*, Vol. 183, *High Resolution Solar Physics: Theory, Observations and Techniques*, ed. T. Rimmele, K. S. Balasubramaniam, & R. R. Radick, 231
- Shand, M., Wei, W., & Scharmer, G. B. 1995, in *Proc. SPIE*, Vol. 2607, *Field Programmable Gate Arrays (FPGAs) for Fast Board Development and Reconfigurable Computing*, ed. J. Schewel, 145–154
- Sharma, R., Verth, G., & Erdélyi, R. 2017, *ApJ*, 840, 96
- Sharma, R., Verth, G., & Erdélyi, R. 2018, *ApJ*, 853, 61
- Shchukina, N., Sukhorukov, A., & Trujillo Bueno, J. 2016, *A&A*, 586, A145
- Sheminova, V. A., Rutten, R., & Rouppe van der Voort, L. H. M. 2005, *A&A*, 437, 1069
- Sheminova, V. A., Rutten, R. J., & Rouppe van der Voort, L. H. M. 2005, *Kinematika i Fizika Nebesnykh Tel Supplement*, 5, 110
- Shetye, J. 2017, PhD thesis, Queen's University Belfast/Armagh Observatory, UK
- Shetye, J., Doyle, J. G., Scullion, E., Nelson, C. J., & Kuridze, D. 2016a, in *ASP Conf. Ser.*, Vol. 504, *Ground-based Solar Observations in the Space Instrumentation Era*, ed. I. Dorotović, C. Fischer, & M. Temmer, 115
- Shetye, J., Doyle, J. G., Scullion, E., et al. 2016b, *A&A*, 589, A3
- Shetye, J., Shelyag, S., Reid, A. L., et al. 2018, *MNRAS*, 479, 3274
- Shetye, J., Verwichte, E., Stangalini, M., & Doyle, J. G. 2021, *ApJ*, 921, 30
- Shetye, J., Verwichte, E., Stangalini, M., et al. 2019, *ApJ*, 881, 83
- Shine, R., Simon, G., & Hurlburt, N. 1999, in *SOHO*, Vol. 9, *Heliostismic Diagnostics of Solar Convection and Activity*, Stanford, California, 15
- Shine, R., Smith, K., Title, A., & Scharmer, G. 1990a, *BAAS*, 22, 878
- Shine, R., Strous, L., Simon, G., et al. 1997, in *AAS/Solar Physics Division Meeting*, Vol. 28, *AAS/Solar Physics Division Meeting #28*, 02.62
- Shine, R., Tarbell, T., Title, A., et al. 1989, *BAAS*, 21, 837
- Shine, R., Tarbell, T., Title, A., et al. 1991a, *BAAS*, 23, 1033
- Shine, R. & Title, A. 2000, in *Encyclopedia of Astronomy and Astrophysics*, ed. P. Murdin (Institute of Physics Publishing and Nature Publishing Group), 2038
- Shine, R., Title, A., Frank, Z., & Scharmer, G. 1996, *BAAS*, 188, 3501
- Shine, R. A. 2000, *BAAS*, 31, 03.03
- Shine, R. A., Scharmer, G., Tarbell, T. D., Title, A. M., & Topka, K. P. 1991b, in *Max '91/SMM Solar Flares: Observations and Theory*, ed. R. S. Winglee & A. L. Kiplinger, 295
- Shine, R. A., Title, A. M., Tarbell, T. D., et al. 1994, *ApJ*, 430, 413
- Shine, R. A., Topka, K. P., Tarbell, T., & Title, A. M. 1990b, in *Proc. IAU Symp.*, Vol. 138, *Solar Photosphere: Structure Convection and Magnetic Fields*, ed. J. O. Stenflo, 84
- Shukurov, A., Sarson, G. R., Nordlund, Å., Gudiksen, B., & Brandeburg, A. 2004, *Ap&SS*, 289, 319
- Sigalotti, L. D. G. & Cruz, F. 2023, *Physics Today*, 76, 34
- Silvotti, R., Bonanno, A., Bernabei, S., et al. 2006, *A&A*, 459, 557
- Simon, G. W., Brandt, P. N., November, L. J., Scharmer, G. B., & Shine, R. A. 1994a, in *NATO ASI Ser. C*, Vol. 433, *Solar Surface Magnetism*, ed. R. J. Rutten & C. J. Schrijver (Kluwer Academic Publishers), 261–270
- Simon, G. W., Dorotović, I., Sobotka, M., & Brandt, P. N. 2002, *BAAS*, 34, 698
- Simon, G. W., November, L. J., Ferguson, S. H., et al. 1989, in *NATO ASI Series C*, Vol. 263, *Solar and Stellar Granulation*, ed. R. J. Rutten & G. Severino (Kluwer Academic Publisher), 371
- Simon, G. W., Title, A. M., & Weiss, N. O. 1994b, in *ASP Conf. Ser.*, Vol. 68, *14th NSO/SP Summer Workshop: Solar Active Region Evolution – Comparing Models with Observations*, ed. K. S. Balasubramaniam & G. W. Simon, 87–95
- Simon, G. W., Title, A. M., & Weiss, N. O. 1995, *ApJ*, 442, 886
- Simon, G. W. & Weiss, N. O. 1989, *ApJ*, 345, 1060

- Simon, G. W. & Weiss, N. O. 1997, *ApJ*, 489, 960
- Simon, G. W., Weiss, N. O., & Scharmer, G. B. 1989, *BAAS*, 21, 829
- Sinquin, J.-C., Bastard, A., Beaufort, E., et al. 2014, in *Proc. SPIE*, Vol. 9148, *Adaptive Optics Systems IV*, 91480G
- Siu-Tapia, A. L., Bellot Rubio, L. R., Orozco Suárez, D., & Gafeira, R. 2020, *A&A*, 642, A128
- Skan, M. 2023, *Licentiate thesis*, Stockholm University
- Skan, M., Cehula, J., Schoelch, M., et al. 2021a, *Transient Name Server Classification Report*, 2021-1678, 1
- Skan, M., Cehula, J., Schoelch, M., et al. 2021b, *Transient Name Server AstroNote*, 159, 1
- Skan, M., Danilovic, S., Leenaarts, J., Calvo, F., & Rempel, M. 2023, *A&A*, 672, A47
- Skan, M., Pietrow, A., Åkerman, H., & Kiselman, D. Submitted, *The Physics Teacher*
- Skånby-Mansour, G. 2003, 2nd part of master's thesis (10 credits out of 20), Stockholm University
- Skogsrud, H. 2011, Master's thesis, University of Oslo
- Skogsrud, H., Rouppe van der Voort, L., & De Pontieu, B. 2014, *ApJ*, 795, L23
- Skogsrud, H., Rouppe van der Voort, L., & De Pontieu, B. 2016, *ApJ*, 817, 124
- Sliepen, G., Jägers, A. P. L., Bettonvil, F. C. M., & Hammerschlag, R. H. 2010, in *Proc SPIE*, Vol. 7733, *Ground-based and Airborne Telescopes III*, ed. L. M. Stepp, R. Gilmozzi, & H. J. Hall, 77334L
- Sliepen, G. & Sütterlin, P. 2013, in *Synergies Between Ground and Space Based Solar Research*, 1st SOLARNET – 3rd EAST/ATST meeting
- Sloover, P. J. 2001, Master's thesis, Sterrekundig Instituut Utrecht
- Sobotka, M. 1993, *Noticias del Instituto de Astrofísica de Canarias*, 12
- Sobotka, M. 1997, in *ASP Conf. Ser.*, Vol. 118, *Advances in Physics of Sunspots*, ed. B. Schmieder, J. C. del Toro Iniesta, & M. Vázquez, 155, 1st *Advances in Solar Physics Euroconference*.
- Sobotka, M., Bonet, J. A., Marquez, I., Muller, R., & Roudier, T. 2004, *Hvar Observatory Bulletin*, 28, 27
- Sobotka, M., Bonet, J. A., & Vázquez, M. 1993a, in *ASP Conf. Ser.*, Vol. 46, *The Magnetic and Velocity Fields of Solar Active Regions*, ed. H. Zirin, G. Ai, & H. Wang, 20–23, *IAU Colloq.* 141
- Sobotka, M., Bonet, J. A., & Vázquez, M. 1993b, *ApJ*, 415, 832
- Sobotka, M., Bonet, J. A., & Vázquez, M. 1994, *ApJ*, 426, 404
- Sobotka, M., Bonet, J. A., & Vázquez, M. 1994, in *Solar Magnetic Fields*, ed. M. Schüssler & W. Schmidt, 197
- Sobotka, M., Bonet, J. A., Vázquez, M., & Hanslmeier, A. 1995, *ApJ*, 447, L133
- Sobotka, M., Brandt, P. N., & Simon, G. W. 1996, in *JOSO Annu. Rep.*, 1995, ed. M. Saniga, 145
- Sobotka, M., Brandt, P. N., & Simon, G. W. 1997a, *A&A*, 328, 682
- Sobotka, M., Brandt, P. N., & Simon, G. W. 1997b, *A&A*, 328, 689
- Sobotka, M., Brandt, P. N., & Simon, G. W. 1997c, in *JOSO Annu. Rep.*, 1996, 84–85
- Sobotka, M., Brandt, P. N., & Simon, G. W. 1999a, *A&A*, 348, 621
- Sobotka, M., Brandt, P. N., & Simon, G. W. 1999b, in *JOSO Annual Report 1998*, ed. A. Antalová, H. Balthasar, & A. Kučera, 69–70
- Sobotka, M., Brandt, P. N., & Simon, G. W. 1999c, in *ASP Conf. Ser.*, Vol. 183, *High Resolution Solar Physics: Theory, Observations and Techniques*, ed. T. Rimmele, K. S. Balasubramaniam, & R. R. Radick, 116
- Sobotka, M. & Hanslmeier, A. 2005, *A&A*, 442, 323
- Sobotka, M., Jurčák, J., Castellanos Durán, J. S., & García-Rivas, M. 2024, *A&A*, 682, A65
- Sobotka, M., Muller, R., Bonet, J. A., & Márquez, I. 2002, in *ESA Special Publication*, Vol. 505, *Magnetic Coupling in the Solar Atmosphere*, ed. H. Sawaya-Lacoste, 579–592
- Sobotka, M. & Puschmann, K. G. 2007, in *Modern Solar Facilities – Advanced Solar Science*, ed. F. Kneer, K. G. Puschmann, & A. D. Wittmann (Universitätsverlag Göttingen), 205–208
- Sobotka, M. & Puschmann, K. G. 2009, *A&A*, 504, 575
- Sobotka, M. & Puschmann, K. G. 2022, *A&A*, 662, A13
- Sobotka, M., Puschmann, K. G., & Hamedivafa, H. 2008, *Central European Astrophysical Bulletin*, 32, 125
- Sobotka, M., Vázquez, M., Bonet, J. A., & Hanslmeier, A. 1999d, in *ASP Conf. Ser.*, Vol. 184, *Third advances in Solar Physics Euroconference: Magnetic Fields and Oscillations*, ed. B. Schmieder, A. Hofmann, & J. Staude, 60–64
- Sobotka, M., Vázquez, M., Bonet, J. A., Hanslmeier, A., & Hirzberger, J. 1999e, *ApJ*, 511, 436
- Sobotka, M., Vázquez, M., Sánchez Cuberes, M., Bonet, J. A., & Hanslmeier, A. 2000a, *Journal of Astrophysics and Astronomy*, 21, 289, special issue on 'Cyclical Evolution of the Solar Magnetic Fields: Advances in Theory and Observations', *Proc. IAU Colloquium No. 179*
- Sobotka, M., Vázquez, M., Sánchez Cuberes, M., Bonet, J. A., & Hanslmeier, A. 2000b, *ApJ*, 544, 1155
- Socas-Navarro, H., de la Cruz Rodríguez, J., Asensio Ramos, A., Trujillo Bueno, J., & Ruiz Cobo, B. 2015, *A&A*, 577, A7
- Socas-Navarro, H., Martínez Pillet, V., Sobotka, M., & Vázquez, M. 2004, *ApJ*, 614, 448
- Solanki, S. 2000, in *Encyclopedia of Astronomy and Astrophysics*, ed. P. Murdin (Institute of Physics Publishing and Nature Publishing Group), 2013
- Solanki, S. K., Inhester, B., & Schüssler, M. 2006, *Reports on Progress in Physics*, 69, 563
- Soler Poquet, I. J., Rouppe van der Voort, L., & Díaz Baso, C. J. 2024, in *EAS Annual Meeting 2024*, 1444
- Solheim, J. E., Robinson, E. L., Nather, R. E., & Kepler, S. O. 1984, *A&A*, 135, 1
- Solov'ev, A. A., Parfinenko, L. D., Efremov, V. I., Kirichek, E. A., & Korolkova, O. A. 2019, *Astrophysics and Space Science*, 364, 222
- Soltau, D., Berkefeld, T., Sánchez Capuchino, J., et al. 2010, in *Proc. SPIE*, Vol. 7736, *Adaptive Optics Systems II*, ed. B. L. Ellerbroek, M. Hart, N. Hubin, & P. L. Wizinowich
- Song, D., Ishikawa, R., Kano, R., et al. 2022, *Sol. Phys.*, 297, 135
- Sowmya, K., Shapiro, A. I., Rouppe van der Voort, L. H. M., Krivova, N. A., & Solanki, S. K. 2023, *ApJ*, 956, L10
- Sowmya, K., Shapiro, A. I., Rouppe van der Voort, L. H. M., Krivova, N. A., & Solanki, S. K. 2024, in 42nd meeting of the Astronomical Society of India (ASI), O53
- Spite, M., Landstreet, J., Asplund, M., et al. 2007a, *Transactions of the International Astronomical Union, Series A*, 26, 215
- Spite, M., Landstreet, J. D., Asplund, M., et al. 2007b, *Transactions of the International Astronomical Union, Series B*, 26, 160
- Spruit, H. C., Nordlund, Å., & Title, A. M. 1990, *ARA&A*, 28, 263
- Spruit, H. C. & Scharmer, G. B. 2006, *A&A*, 447, 343
- Spruit, H. C., Scharmer, G. B., & Löfdahl, M. 2010, *A&A*, 521, A72
- Srivastava, A. K., Ballester, J. L., Cally, P. S., et al. 2021, *Journal of Geophysical Research (Space Physics)*, 126, e029097
- Srivastava, A. K., Shetye, J., Murawski, K., et al. 2017, *Scientific Reports*, 7, 43147
- Stangalini, M., Giannattasio, F., Erdélyi, R., et al. 2017, *ApJ*, 840, 19
- Stangalini, M., Giannattasio, F., & Jafarzadeh, S. 2015, *A&A*, 577, A17
- Steffen, M. 2004, *Sterne und Weltraum*, 22
- Stein, R. F. & Nordlund, Å. 2000, *Sol. Phys.*, 192, 91
- Steinegger, M., Bonet, J. A., & Vázquez, M. 1997, *Solar Physics*, 171, 303
- Steiner, O. 2007, in *Modern Solar Facilities – Advanced Solar Science*, ed. F. Kneer, K. G. Puschmann, & A. D. Wittmann (Universitätsverlag Göttingen), 321–337, invited
- Steiner, O. & Rezaei, R. 2012, in *ASP Conf. Ser.*, Vol. 456, 5th *Hinode Science Meeting: Exploring the Active Sun*, ed. L. Golub, I. de Moortel, & T. Shimizu, 3
- Stenflo, J. O. & Holzreuter, R. 2002, in *ESA Special Publication*, Vol. 505, *Proc. Magnetic Coupling of the Solar Atmosphere Euroconference and IAU Colloquium 188*, ed. H. Sawaya-Lacoste, 101–104
- Stenflo, J. O. & Holzreuter, R. 2003, in *ASP Conference series*, Vol. 286, *Current theoretical models and future high resolution solar observations: preparing for ATST (Proc 21st International NSO/SP Workshop)*, ed. A. A. Pevtsov & H. Uitenbroek, 169
- Stenholm, B. 2005, *Populär astronomi*, 27
- Štěpán, J., Trujillo Bueno, J., Leenaarts, J., & Carlsson, M. 2015, *ApJ*, 803, 65
- Stodilka, M. I., Sukhorukov, A. V., & Prisiazhnyi, A. I. 2019, *Kinematics and Physics of Celestial Bodies*, 35, 231
- Strous, L. & Zwaan, C. 1999, in *SOHO*, Vol. 9, *Helioseismic Diagnostics of Solar Convection and Activity*, 82
- Strous, L. H. 1994, PhD thesis, Utrecht University
- Strous, L. H. 1999, in *ASP Conf. Ser.*, Vol. 183, *High Resolution Solar Physics: Theory, Observations and Techniques*, ed. T. Rimmele, K. S. Balasubramaniam, & R. R. Radick, 551
- Strous, L. H., Scharmer, G. B., Tarbell, T., Title, A. M., & Zwaan, C. 1996, *A&A*, 306, 947
- Strous, L. H. & Zwaan, C. 2000, *ApJ*, 527, 435
- Suetterlin, P., Rutten, R. J., & Skomorovsky, V. I. 2001, *A&A*, 378, 251
- Sukhorukov, A. V. & Leenaarts, J. 2017, *A&A*, 597, A46

- Suplee, C. 2004, National Geographic, 2
- Sütterlin, P., Wiehr, E., & Stellmacher, G. 1999, *Sol. Phys.*, 189, 57
- Talbott, G., Blanken, M., Chopping, A., Jolley, P., & Rey, J. 2002, *ING Newsl.*, 31
- Tanga, P., Widemann, T., Sicardy, B., et al. 2012, *Icarus*, 218, 207
- Tao, L. L., Weiss, N. O., Brownjohn, D. P., & Proctor, M. R. E. 1998, *ApJ*, 496, L39
- Tarbell, T. 1994, Photospheric origins of chromospheric and coronal activity, Progress report 1 nov. 1993 - 1 feb. 1994, Lockheed Missiles and Space Co.
- Tarbell, T., Acton, D. S., Topka, K., et al. 1990a, *BAAS*, 22, 878
- Tarbell, T., Ferguson, S., Title, A., Scharmer, G., & Brandt, P. 1988, *BAAS*, 20, 1010
- Tarbell, T., Gaeng, T., & Saba, J. 2003, *BAAS*, 35, 835
- Tarbell, T. & Topka, K. P. 1992, Investigation of solar active regions at high resolution by balloon flights of the solar optical universal polarimeter, definition phase, Final report, Lockheed Missiles and Space Co., Lockheed Missiles and Space Co., Palo Alto, CA. Research and Development Div.
- Tarbell, T. D., Acton, L. W., Frank, Z. A., et al. 1992, Simultaneous Observations of Flares in the Solar Photosphere, Chromosphere, and Corona from La Palma and Yohkoh, Poster at AGU meeting 1992
- Tarbell, T. D., Ferguson, S. H., Frank, Z. A., et al. 1990b, in *Proc. IAU Symp.*, Vol. 138, Solar Photosphere: Structure Convection and Magnetic Fields, ed. J. O. Stenflo, 147–152
- Tarbell, T. D., Kankelborg, C. C., Jaeggli, S., Weber, M., & Löfdahl, M. 2013, AGU Fall Meeting Abstracts
- Tarbell, T. D., Slater, G. L., Frank, Z. A., Shine, R. A., & Topka, K. P. 1991a, in *Mechanism of Chromospheric and Coronal Heating*, ed. P. Ulmschneider, E. R. Priest, & R. Rosner (Springer-Verlag), 260
- Tarbell, T. D., Slater, G. L., Frank, Z. A., et al. 1991b, *BAAS*, 23, 1048
- Testa, P., Bakke, H., Rouppe van der Voort, L., & De Pontieu, B. 2023, *ApJ*, 956, 85
- Testa, P., Rouppe van der Voort, L., De Pontieu, B., & Bakke, H. 2020, in AGU Fall Meeting Abstracts, Vol. 2020, SH004–03
- Thaler, I. & Spruit, H. C. 2014, *A&A*, 566, A11
- Tham, M. 2011, Master's thesis, Stockholm University
- Thomas, J. 2000, in *Encyclopedia of Astronomy and Astrophysics*, ed. P. Murdin (Institute of Physics Publishing and Nature Publishing Group), 2081
- Thomas, J. H. & Weiss, N. O. 1992, in *Sunspots: Theory and Observations*, ed. J. H. Thomas & N. O. Weiss (Dordrecht: Kluwer), 3–59
- Thomas, J. H. & Weiss, N. O. 2004, *A&A Rev.*, 42, 517
- Title, A., Ferguson, S., Tarbell, T., Scharmer, G., & Brandt, P. 1988a, *BAAS*, 20, 1010
- Title, A., Tarbell, T., Topka, K., et al. 1990a, in *Geophysical Monographs*, Vol. 58, Physics of Magnetic Flux Ropes, ed. C. T. Russel, E. R. Priest, & L. C. Lee, 171
- Title, A. M. 2007, *Highlights of Astronomy*, 14, 30
- Title, A. M. & Berger, T. E. 1996, *ApJ*, 463, 797
- Title, A. M., Frank, Z., Shine, R. A., & Tarbell, T. D. 1991, *BAAS*, 23, 1052
- Title, A. M., Frank, Z. A., Shine, R. A., Tarbell, T. D., & Scharmer, G. 1989, *BAAS*, 21, 837
- Title, A. M., Frank, Z. A., Shine, R. A., et al. 1992, in *NATO Advanced Study Institute (ASI) Series C*, Vol. 375, Sunspots: Theory and Observations, ed. J. H. Thomas & N. O. Weiss, 195
- Title, A. M., Frank, Z. A., Shine, R. A., et al. 1993, *ApJ*, 403, 780
- Title, A. M., Shine, R. A., Ferguson, S. H., et al. 1988b, *BAAS*, 20, 679
- Title, A. M., Shine, R. A., Tarbell, T. D., Topka, K. P., & Scharmer, G. B. 1990b, in *Proc. IAU Symp.*, Vol. 138, Solar Photosphere: Structure, Convection, and Magnetic Fields, ed. J. O. Stenflo, 49–66
- Title, A. M., Tarbell, T. D., Topka, K. P., & Frank, Z. 1992a, in *Proc. ESA Workshop*, Vol. 344, Solar Physics and Astrophysics at Interferometric Resolution, ed. L. Dame & T. D. Guyenne, 9–14
- Title, A. M., Tarbell, T. D., & Wolfson, C. J. 1989, in *NATO ASI Series C*, Vol. 263, Solar and Stellar Granulation, ed. R. J. Rutten & G. Severino (Kluwer Academic Publishers), 29
- Title, A. M., Topka, K. P., Tarbell, T. D., et al. 1992b, *ApJ*, 393, 782, with accompanying video tape (*ApJ*, 393, Part 1, No. 2, Videotape, Segment 5)
- Tobias, S. M. & Weiss, N. O. 1999, *Physics World*, 56
- Topka, K., Ferguson, S., Frank, Z., et al. 1988, *BAAS*, 20, 1010
- Topka, K., Ferguson, S., Shine, R., et al. 1990a, *BAAS*, 22, 879
- Topka, K., Frank, Z., Shine, R., et al. 1989, *BAAS*, 21, 1111
- Topka, K., Frank, Z., Shine, R., et al. 1989, *BAAS*, 21, 842
- Topka, K. P., Frank, Z. A., Tarbell, T. D., & Title, A. M. 1990b, in *Solar Polarimetry*, *Proc. Sacramento Peak Summer Workshop*
- Topka, K. P., Frank, Z. A., Tarbell, T. D., Title, A. M., & Scharmer, G. 1991, *BAAS*, 23, 1052
- Topka, K. P., Tarbell, T. D., & Title, A. M. 1992, *ApJ*, 396, 351
- Topka, K. P., Tarbell, T. D., & Title, A. M. 1997a, *ApJ*, 484, 479
- Topka, K. P., Tarbell, T. D., & Title, A. M. 1997b, *BAAS*, 29, 904
- Topka, K. P. & Title, A. M. 1990, in *The Solar Interior and Atmosphere*, ed. W. Livingston & A. Cox (University of Arizona Press), 727
- Topka, K. P. & Title, A. M. 1991, in *Solar interior and atmosphere* (Tucson, AZ: University of Arizona Press), 727–747
- Topka, K. P. & Title, A. M. 1992, *BAAS*, 181, 81.04
- Townson, M. J., Kellerer, A., Osborn, J., et al. 2014, in *Proc. SPIE*, Vol. 9147, Ground-based and Airborne Instrumentation for Astronomy V, 3E
- Townson, M. J., Kellerer, A., Osborn, J., et al. 2015, in *Journal of Physics Conf. Ser.*, Vol. 595, Adapting to the Atmosphere Conference 2014 (IOP Publishing), 012035
- Townson, M. J., Kellerer, A., & Saunter, C. D. 2015, *MNRAS*, 452, 4022
- Townson, M. J., Love, G. D., Kellerer, A., & Saunter, C. D. 2016, in *Proc. SPIE*, Vol. 9909, Adaptive Optics Systems V, ed. E. Marchetti, L. M. Close, & J.-P. Véran, 99096Q
- Townson, M. J., Love, G. D., & Saunter, C. D. 2018, *MNRAS*, 479, 1595
- Tsiropoula, G., Tziotziou, K., Kontogiannis, I., et al. 2012, *Space Sci. Rev.*, 169, 181
- Tziotziou, K. 2016, in *ASP Conf. Ser.*, Vol. 504, Ground-based Solar Observations in the Space Instrumentation Era, ed. I. Dorotovič, C. Fischer, & M. Temmer, 3
- Tziotziou, K., Scullion, E., Shelyag, S., et al. 2023, *Space Sci. Rev.*, 219, 1
- Tziotziou, K., Tsiropoula, G., & Kontogiannis, I. 2019, *A&A*, 623, A160
- Tziotziou, K., Tsiropoula, G., & Kontogiannis, I. 2020, *A&A*, 643, A166
- Tziotziou, K., Tsiropoula, G., Kontogiannis, I., Scullion, E., & Doyle, J. G. 2018, *A&A*, 618, A51
- van Ballegooijen, A. A. 2003, AGU Fall Meeting Abstracts, 84, fall Meet. Suppl., Abstract SH21C-01
- van Ballegooijen, A. A. 2004, *ApJ*, 612, 519
- van Ballegooijen, A. A. & Deluca, E. E. 1999, *BAAS*, 31, 78.06
- van Ballegooijen, A. A. & Hasan, S. S. 2003, in *ASP Conf. Ser.*, Vol. 286, Current Theoretical Models and High Resolution Solar Observations: Preparing for ATST, ed. A. Pevstov & H. Uitenbroek, 155, *proc. 21th NSO Sacramento Peak Summer Workshop*
- van Ballegooijen, A. A. & Nisenson, P. 1999, in *ASP Conf. Ser.*, Vol. 183, High Resolution Solar Physics: Theory, Observations and Techniques, ed. T. R. K. S. Balasubramaniam & R. R. Radick, 30
- van Ballegooijen, A. A., Nisenson, P., Noyes, R. W., et al. 1998, *ApJ*, 509, 435
- Van Kampen, W. C. & Paxman, R. G. 1998, in *Proc. SPIE*, Vol. 3433, Propagation and Imaging through the Atmosphere II, ed. L. R. Bissonnette, 296–307
- van Noort, M. 2017a, in *SOLARNET IV: The Physics of the Sun from the Interior to the Outer Atmosphere*, 90
- van Noort, M. 2017b, *A&A*, 608, A76
- van Noort, M., Bischoff, J., Kramer, A., Solanki, S. K., & Kiselman, D. 2022, *A&A*, 668, A149
- van Noort, M. & Chanumolu, A. 2022, *A&A*, 668, A150
- van Noort, M. & Doerr, H.-P. 2022, *A&A*, 668, A151
- van Noort, M., Rouppe van der Voort, L., & Löfdahl, M. 2006, in *ASP Conf. Ser.*, Vol. 354, Solar MHD: Theory and Observations – a High Spatial Resolution Perspective, ed. J. Leibacher, R. F. Stein, & H. Uitenbroek, 55
- van Noort, M., Rouppe van der Voort, L., & Löfdahl, M. G. 2005, *Sol. Phys.*, 228, 191
- van Noort, M., Rouppe van der Voort, L. H. M., & Löfdahl, M. G. 2004, in *Solar Image Processing Workshop II (abstracts)*, ed. P. Gallagher, NASA's Sun-Earth Connection Division, Annapolis, Maryland, USA
- van Noort, M. J. & Rouppe van der Voort, L. H. M. 2006, *ApJ*, 648, L67
- van Noort, M. J. & Rouppe van der Voort, L. H. M. 2008, *A&A*, 489, 429

- van Werkhoven, T. I. M., Homs, L., Sliepen, G., Rodenhuis, M., & Keller, C. U. 2012, in *Proc. SPIE*, Vol. 8447, *Adaptive Optics Systems III*, ed. B. L. Ellerbroek, E. Marchetti, & J.-P. Véran, 84472V
- Vargas Dominguez, S. 2009, PhD thesis, Instituto de Astrofísica de Canarias
- Vargas Domínguez, S., Bonet, J. A., Martínez Pillet, V., & Katsukawa, Y. 2007, in *ESA Special Publication*, Vol. 641, *The Second Solar Orbiter Workshop*, ed. E. Marsch, K. Tsinganos, R. Marsden, & L. Conroy, 87
- Vargas Dominguez, S., Bonet, J. A., Martínez Pillet, V., et al. 2007, *ApJ*, 660, L165
- Vargas Domínguez, S., de Vicente, A., Bonet, J. A., & Martínez Pillet, V. 2010, *A&A*, A91
- Vargas Dominguez, S., Palacios, J., Balmaceda, L., Cabello, I., & Domingo, V. 2011, *MNRAS*, 416, 148
- Vargas Dominguez, S., Palacios, J., Balmaceda, L., Cabello, I., & Domingo, V. 2015, *Sol. Phys.*, 290, 301
- Vargas Domínguez, S., Rouppe van der Voort, L., Bonet, J. A., et al. 2008, *ApJ*, 679, 900
- Vargas Domínguez, S. & Utz, D. 2022, *Reviews of Modern Plasma Physics*, 6, 33
- Vázquez, M. 1991, *Astro. Lett. and Communications*, 28, 113
- Vázquez, M. 2000, in *Encyclopedia of Astronomy and Astrophysics*, ed. P. Murdin (Institute of Physics Publishing and Nature Publishing Group), 2082
- Vela Villahoz, E. J. 2001, PhD thesis, University of La Laguna, Spain
- Verth, G. & Jess, D. B. 2016, in *Geophysical Monograph Series*, Vol. 216, *Low-frequency Waves in Space Plasmas*, ed. A. Keiling, D.-H. Lee, & V. Nakariakov (AGU/Wiley), 431–448
- Viavattene, G., Murabito, M., Guglielmino, S. L., et al. 2021, *Entropy*, 23, 413
- Vicente Arévalo, A., Asensio Ramos, A., & Esteban Pozuelo, S. 2022, *ApJ*, 928, 101
- Vilangot Nhalil, N., Shetye, J., & Doyle, J. G. 2022, *MNRAS*, 515, 2672
- Vilangot Nhalil, N., Shetye, J., & Doyle, J. G. 2023, *MNRAS*, 524, 1156
- Vissers, G. & Rouppe van der Voort, L. 2012, *ApJ*, 750, 22
- Vissers, G. J. M. 2013, PhD thesis, University of Oslo
- Vissers, G. J. M., Danilovic, S., de la Cruz Rodríguez, J., et al. 2021, *A&A*, 645, A1
- Vissers, G. J. M., Danilovic, S., Zhu, X., et al. 2022, *A&A*, 662, A88
- Vissers, G. J. M., de la Cruz Rodríguez, J., Libbrecht, T., et al. 2019a, *A&A*, 627, A101
- Vissers, G. J. M., Rouppe van der Voort, L. H. M., & Carlsson, M. 2015a, *ApJ*, 811, L33
- Vissers, G. J. M., Rouppe van der Voort, L. H. M., & Rutten, R. J. 2013, *ApJ*, 774, 32
- Vissers, G. J. M., Rouppe van der Voort, L. H. M., & Rutten, R. J. 2019b, *A&A*, 626, A4
- Vissers, G. J. M., Rouppe van der Voort, L. H. M., Rutten, R. J., Carlsson, M., & De Pontieu, B. 2015b, *ApJ*, 812, 11
- Vithlani, K. 2022, BSc thesis, Stockholm University
- Wang, H., Qu, M., Shih, F., et al. 2004, *BAAS*, 36, 755
- Warell, J. 1996, *Earth, Moon and Planets*, 74, 93
- Warell, J. 1999, in *Astronomisk Årsbok 1999* (Inova)
- Warell, J. 2002, *Icarus*, 156, 303
- Warell, J. 2003a, *Icarus*, 161, 199
- Warell, J. 2003b, *Icarus*, 167, 271
- Warell, J. 2003c, PhD thesis, Uppsala Universitet
- Warell, J. & Lagerkvist, C.-I. 1998, *Forskning och Framsteg*, 8
- Warell, J., Lagerkvist, C.-I., & Lagerros, J. S. V. 1997, *Earth Moon and Planets*, 78, 197
- Warell, J., Lagerkvist, C.-I., & Lagerros, J. S. V. 1999, *A&AS*, 136, 245
- Warell, J., Lagerkvist, C.-I., Limaye, S. S., et al. 1998, *Annales Geophysicae Part III, Supplement III to Vol. 16*, C995, abstract
- Warell, J. & Limaye, S. S. 2000, *Mercury: New global map of Albedo variegation and correlation with geologic features*, Abstract: Contribution for the 2000 General Assembly of the EGS European Geophysical Assembly, Nice, 25-29 April 2000
- Warell, J. & Limaye, S. S. 2001, *Planetary and Space Science*, 49, 1531
- Warell, J., Limaye, S. S., & Lagerkvist, C.-I. 1998, *BAAS*, 30, 1111
- Warell, J. & Valegård, P.-G. 2006, *A&A*, 460, 625
- Watanabe, H., Bellot Rubio, L. R., de la Cruz Rodríguez, J., & Rouppe van der Voort, L. 2012, *ApJ*, 757, 49
- Watanabe, H., Vissers, G., Kitai, R., Rouppe van der Voort, L., & Rutten, R. J. 2011, *ApJ*, 736, 71
- Wedemeyer, S., Fleishman, G., de la Cruz Rodríguez, J., et al. 2022, *Frontiers in Astronomy and Space Sciences*, 9, 967878
- Wedemeyer, S., Scullion, E., Rouppe van der Voort, L., Bosnjak, A., & Antolin, P. 2013a, *ApJ*, 774, 123
- Wedemeyer, S., Scullion, E., Steiner, O., de la Cruz Rodríguez, J., & Rouppe van der Voort, L. 2013b, in *Journal of Physics: Conference Series*, Vol. 440, *Eclipse on the Coral Sea: Cycle 24 Ascending*, ed. P. Cally, R. Erdélyi, & A. Norton, 012005
- Wedemeyer, S., Szydlarski, M., Jafarzadeh, S., et al. 2020, *A&A*, 635, A71
- Wedemeyer, S., Szydlarski, M., Toribio, M. C., et al. 2024, *High-cadence observations of the Sun*, ALMA Memo 628, NRAO
- Wedemeyer-Böhm, S. 2010, *Mem. Soc. Astron. Italiana*, 81, 693, *NSO Workshop #25, Chromospheric Structure and Dynamics: From Old Wisdom to New Insights*
- Wedemeyer-Böhm, S., Lagg, A., & Nordlund, Å. 2009a, *Space Sci. Rev.*, 144, 317
- Wedemeyer-Böhm, S., Lagg, A., & Nordlund, Å. 2009b, in *Space Sciences Series of ISSI*, Vol. 32, *The Origin and Dynamics of Solar Magnetism*, ed. M. J. Thompson, A. Balogh, J. L. Culhane, Å. Nordlund, S. K. Solanki, & J.-P. Zahn (New York: Springer), 317
- Wedemeyer-Böhm, S. & Rouppe van der Voort, L. 2009, *A&A*, 507, L9
- Wedemeyer-Böhm, S., Scullion, E., Steiner, O., et al. 2012, *Nature*, 486, 505
- Weiss, N. 2000, in *Encyclopedia of Astronomy and Astrophysics*, ed. P. Murdin (Institute of Physics Publishing and Nature Publishing Group), 2050
- Weiss, N. 2001, *Astronomy and Geophysics*, 42, 3.10, presidential Address
- Weiss, N. O. 1997a, in *ASP Conf. Ser.*, Vol. 118, *1st Advances in Solar Physics Euroconference: Advances in the Physics of Sunspots*, ed. B. Schmieder, J. C. del Toro Iniesta, & M. Vázquez, San Francisco, 21–33
- Weiss, N. O. 1997b, *Trans. IAU*, 23A, 129
- Weiss, N. O. 2012, *Geophysical and Astrophysical Fluid Dynamics*, 106, 353
- Weiss, N. O., Brownjohn, D. P., Matthews, P. C., & Proctor, M. R. E. 1996, *MNRAS*, 283, 1153
- Westbrook, O. W., Pasachoff, J. M., Kozarev, K., & Yee, J. 2006, in *spring SPD/AAS meeting*, Solar Physics Division of the American Astronomical Society, 221
- Wheelwright, H. E., Oudmaijer, R. D., & Schnerr, R. S. 2009, *A&A*, 497, 487
- White, S., Loukitcheva, M., Leenaarts, J., & da Silva Santos, J. M. 2022, *BAAS*, 54, the Third Triennial Earth-Sun Summit (TESS) Abstracts
- Wiehr, E. 2004, in *ESA Special Publication*, Vol. 547, *Proc. SOHO 13, Waves, Oscillations and Small Scale Transient Events in the Solar Atmosphere: A Joint View from SOHO and TRACE*, ed. H. Lacoste (European Space Agency), 185
- Wiehr, E., Bovelet, B., & Hirzberger, J. 2004, *A&A*, 422, L63
- Wiehr, E., Stellmacher, G., & Hirzberger, J. 2007, in *Modern Solar Facilities – Advanced Solar Science*, ed. F. Kneer, K. G. Puschmann, & A. D. Wittmann (Universitätsverlag Göttingen), 261–264
- Wiehr, E., Stellmacher, G., & Hirzberger, J. 2007, *Sol. Phys.*, 240, 25
- Wolfson, J., Ferguson, S., Frank, Z., et al. 1988, *BAAS*, 20, 978
- Wülser, J.-P., Löfdahl, M. G., Tarbell, T., & Pontieu, B. D. 2023, *IRIS NUV Slit-Jaw Image Deconvolution with Field Angle Dependent PSFs*, IRIS Technical Note 52, LMSAL
- Wyller, A. 1991, *LEST - Large Earth-based Solar Telescope: an overview*. (Inst. for Teoretisk Astrofysikk, Oslo: LEST Foundation), ISBN 91-7190-017-9
- Wyller, A. A. 1986, *LEST Foundation, Technical Report*, 19
- Wyller, A. A. 1987, in *The Role of Finescale Magnetic Fields on the Structure of the Solar Atmosphere*, ed. E.-H. Schröter, M. Vázquez, & A. A. Wyller (Cambridge University Press), 335, *proc. Inaugural workshop and round table discussion for the D-E-S Telescope installations on the Canary Islands*
- Wyller, A. A. & Scharmer, G. B. 1985, *Vistas in Astronomy*, 28, 467
- Yadav, R., Baso, C. J. D., de la Cruz Rodríguez, J., Calvo, F., & Morosin, R. 2021, *A&A*, 649, A106
- Yadav, R., de la Cruz Rodríguez, J., Díaz Baso, C. J., et al. 2019, *A&A*, 632, A112
- Yadav, R., de la Cruz Rodríguez, J., Kerr, G. S., Díaz Baso, C. J., & Leenaarts, J. 2022, *A&A*, 665, A50

- Yadav, R., Kazachenko, M., Afanasev, A., de la Cruz Rodríguez, J., & Leenaarts, J. 2023, BAAS, 55, aAS/Solar Physics Division Meeting presentation 303.04
- Yadav, R., Kazachenko, M. D., Afanasyev, A. N., de la Cruz Rodríguez, J., & Leenaarts, J. 2023, ApJ, 958, 54
- Yelles Chaouche, L., Solanki, S. K., Rouppe van der Voort, L., & van Noort, M. 2009, in ASP Conference Series, Vol. 405, Solar Polarization 5: In Honor of Jan Stenflo, ed. S. V. Berdyugina, K. N. Nagendra, & R. Ramelli, 189
- Yi, Z. 1992, PhD thesis, University of Oslo
- Yi, Z. 1996, A&A, 308, 637
- Yi, Z. & Engvold, B. 1991, Quiescent Filaments and Associated Granulation Network, General Assembly of the IAU
- Yi, Z. & Engvold, O. 1993, Sol. Phys., 144, 1
- Yi, Z. & Molowny-Horas, R. 1995, A&A, 295, 199
- Yi, Z. & Molowny Horas, R. L. 1992, in LEST Technical Report, Vol. 56, Proc. LEST Mini-Workshop: Software for Solar Image Processing, ed. Z. Yi, T. Darvann, & R. Molowny Horas (Institute of Theoretical Astrophysics, University of Oslo), 69–80
- Yordanova, E. 2021, Forskning för att skydda samhällskritisk infrastruktur mot extrema solstormar, Tech. rep., Myndigheten för samhällsskydd och beredskap (MSB), <https://rib.msb.se/filer/pdf/29797.pdf>
- Yoshimura, K., Kurokawa, H., Shimojo, M., & Shine, R. 2002, in Multi-Wavelength Observations of Coronal Structure and Dynamics, ed. P. C. H. Martens & D. Cauffman, COSPAR Colloquia Series, 99
- Yoshimura, K., Kurokawa, H., Shimojo, M., & Shine, R. 2003, PASJ, 55, 313
- Young, P. R., Tian, H., Peter, H., et al. 2018, Space Sci. Rev., 214, 120
- Yuan, Y., de Souza e Almeida Silva, S., Fedun, V., Kitiashvili, I. N., & Verth, G. 2023, ApJS, 267, 35
- Zakharov, V., Gandorfer, A., Solanki, S. K., & Löfdahl, M. G. 2005, A&A, 437, L43
- Zakharov, V., Gandorfer, A., Solanki, S. K., & Löfdahl, M. G. 2007a, A&A, 461, 695
- Zakharov, V., Hirzberger, J., Riethmüller, T. L., Solanki, S. K., & Kobel, P. 2008, A&A, 488, L17
- Zakharov, V. V., Gandorfer, A., & Solanki, S. K. 2006, Solar Active Regions and 3D Magnetic Structure, 26th meeting of the IAU, Joint Discussion 3, 16-17 August, 2006, Prague, Czech Republic, JD03, #87, 3
- Zakharov, V. V., Gandorfer, A., & Solanki, S. K. 2007b, in Modern Solar Facilities – Advanced Solar Science, ed. F. Kneer, K. G. Puschmann, & A. D. Wittmann (Universitätsverlag Göttingen), 161–164, invited
- Zarifis, V., Bell, Jr, R. M., Benson, L. R., et al. 1999, in ASP Conf. Ser., Vol. 194, Working on the Fringe: Optical and IR Interferometry from Ground and Space, ed. S. Unwin & R. Stachnik, 278
- Zhang, H., Scharmer, G., Löfdahl, M., & Yi, Z. 1998, Solar Physics, 183, 283
- Zhang, Y., Jensen, E., & Engvold, O. 1993, in ASP Conf. Ser., Vol. 46, The Magnetic and Velocity Fields of Solar Active Region, ed. H. Zirin, G. Ai, & H. Wang, 232, IAU Colloq. 141
- Zharkov, S., Matthews, S., Zharkova, V., et al. 2020, A&A, 639, A78
- Zharkova, V., Zharkov, S., Druett, M., Matthews, S., & Inoue, S. 2020, A&A, 639, A79