

- Rutten, R., 2022: “*De ogen van Noot*”, Zenit 2, 5 [pdf](#) [bib](#)
- Rutten, R.J., Engvold, O., Nieuwenhuizen, A.C.T., 2022: “*Cornelis de Jager: In Memoriam*”, Solar Phys. 297(1), 1-10 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R., 2021: “*Kees de Jager 100!*”, Fylakra 65 nr 2, 28-30 [pdf](#) [bib](#)
- Rutten, R.J., 2021: “*De zon op Keesdagen / The Sun on Kees days*”, Lingezicht Astrophysics Reports 3, 1-7 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 2021: “*Compendium solar spectrum formation*”, Lingezicht Astrophysics Reports 2, 1-62 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 2020: “*SolO campfires in SDO images*”, Lingezicht Astrophysics Reports 1, 1-89 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 2020: “*Small-scale solar surface magnetism*” in De Jager, C., Duhau, S., Nieuwenhuizen, A.C.T. (eds.), “*Solar Magnetic Variability and Climate*”, Stip Media, Alkmaar, 1-7 [pdf](#) [bib](#) [ADS](#)
- van Zon, H., 2020: “*In Nederland is helaas de zonnephysica vermoord*”, interview Algemeen Dagblad [pdf](#) [bib](#)
- Rutten, R., 2020: “*Het mooiste kanogebied op aarde (met taart)*”, Peddelpraat 289, 45-49 [pdf](#) [bib](#)
- Rutten, R.J., Rouppe van der Voort, L.H.M., De Pontieu, B., 2019: “*Solar H α features with hot onsets. IV. Network fibrils*”, Astron. Astrophys. 632, A96 1-19 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., 2019: “*Non-Equilibrium Spectrum Formation Affecting Solar Irradiance*”, Solar Phys. 294(11), 165 1-26 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Vissers, G.J.M., Rouppe van der Voort, L.H.M., Rutten, R.J., 2019: “*Automating Ellerman bomb detection in ultraviolet continua*”, Astron. Astrophys. 626, A4 1-16 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R., 2019: “*Het nut van de poolster*”, Polaris, 41e Veterinaire Almanak Diergeneeskundige Studenten Kring Universiteit Utrecht, 25-27 [pdf](#) [bib](#)
- Rutten, R., 2018: “*Non-equilibrium spectrum formation affecting solar irradiance*”, displays of invited review at Focus meeting 9, 30th General Assembly IAU Vienna, 1-21 [pdf](#) [bib](#)
- Young, P.R., Tian, H., Peter, H., Rutten, R.J., Nelson, C.J., Huang, Z., Schmieder, B., Vissers, G.J.M., Toriumi, S., Rouppe van der Voort, L.H.M., Madjarska, M.S., Danilovic, S., Berlicki, A., Chitta, L.P., Cheung, M.C.M., Madsen, C., Reardon, K.P., Katsukawa, Y., Heinzel, P., 2018: “*Solar Ultraviolet Bursts*”, Space Science Rev. 214, 120 1-39 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R., 2018: “*Het Minnaertportret*”, Nederlands Tijdschrift voor Natuurkunde 84, 266-267 [pdf](#) [bib](#)
- Rutten, R.J., 2018: “*A year at Sunspot. Reminiscences of 1977-1978 at the Sacramento Peak Observatory*”, ArXiv e-prints 1804.08709, 1-26 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 2017: “*Solar ALMA predictions: tutorial*” in Vargas Domínguez, S., Kosovichev, A.G., Antolin, P., Harra, L. (eds.), “*Fine structure and dynamics of the solar atmosphere*”, IAU Symposium 327, 1-15 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Jafarzadeh, S., Rutten, R.J., Solanki, S.K., Wiegmann, T., Riethmüller, T.L., van Noort, M., Szydlarski, M., Blanco Rodríguez, J., Barthol, P., del Toro Iniesta, J.C., Gandorfer, A., Gizon, L., Hirzberger, J., Knölker, M., Martínez Pillet, V., Orozco Suárez, D., Schmidt, W., 2017: “*Slender Ca II H Fibrils Mapping Magnetic Fields in the Low Solar Chromosphere*”, Astrophys. J. Suppl. 229, 11 1-11 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., 2017: “*Solar H-alpha features with hot onsets. III. Long fibrils in Lyman-alpha and with ALMA*”, Astron. Astrophys. 598, A89 1-38 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., Rouppe van der Voort, L.H.M., 2017: “*Solar H α features with hot onsets. II. A contrail fibril*”, Astron. Astrophys. 597, A138 1-10 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R., 2017: “*Chromosphere observations and diagnostics*”, displays of review at Solarnet IV, Lanzarote, 1-40 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 2017: “*The Sun with ALMA*”, displays of talk at ALMA day Leiden, 1-16 [pdf](#) [bib](#)
- Rutten, R.J., 2017: “*The Sun with ALMA: jets and contrails!*”, poster at 72th Nederlandse Astronomenconferentie [pdf](#) [bib](#)
- Rutten, R.J., 2017: “*Temporal chromospheric fine structure*”, displays of talk at Sacramento Peak Farewell Workshop, Sunspot, 1-17 [pdf](#) [bib](#)
- Rouppe van der Voort, L.H.M., Rutten, R.J., Vissers, G.J.M., 2016: “*Reconnection brightenings in the quiet solar photosphere*”, Astron. Astrophys. 592, A100 1-9 [pdf](#) [bib](#) [ADS](#) [DOI](#)

- Rutten, R.J., 2016: “*H α features with hot onsets. I. Ellerman bombs*”, *Astron. Astrophys.* 590, A124 1-13 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- journalist, 2016: “*Zonnekoning van Deil*”, *De Gelderlander*, interview in *De Oosterling* [pdf](#) [bib](#)
- Rutten, R.J., Rouppe van der Voort, L.H.M., Vissers, G.J.M., 2015: “*Ellerman Bombs at High Resolution. IV. Visibility in Na I and Mg I*”, *Astrophys. J.* 808, 133 1-7 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Vissers, G.J.M., Rouppe van der Voort, L.H.M., Rutten, R.J., Carlsson, M., De Pontieu, B., 2015: “*Ellerman Bombs at High Resolution. III. Simultaneous Observations with IRIS and SST*”, *Astrophys. J.* 812, 11 1-18 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., 2015: “*Introduction to Astrophysical Radiative Transfer*”, translated by R.C. Peterson, edited by L.H.M. Rouppe van der Voort, lecture notes Utrecht University 1-140 [pdf](#) [bib](#)
- Rutten, R., 2015: “*De chromosfeer: van prachtige kleur naar spannende fysica*”, *Zenit* 42, 16-19 [pdf](#) [bib](#)
- Rutten, R., 2015: “*Physics of sunshine*”, displays of eclipse lectures onboard M/S Norroena, Tórshavn, 1-26 [pdf](#) [bib](#)
- Rutten, R., 2014: “*H α is easy and fibrils are contrails*”, annotated displays of talk at 14th ESPM, Dublin, 1-27 [pdf](#) [bib](#)
- Rutten, R., 2014: “*H α is easy; fibrils are contrails*”, poster at conference “Coupling and Dynamics of the Solar Atmosphere”, Pune [pdf](#) [bib](#)
- Vissers, G.J.M., Rouppe van der Voort, L.H.M., Rutten, R.J., 2013: “*Ellerman Bombs at High Resolution. II. Triggering, Visibility, and Effect on Upper Atmosphere*”, *Astrophys. J.* 774, 32 1-14 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., Vissers, G.J.M., Rouppe van der Voort, L.H.M., Sütterlin, P., Vitas, N., 2013: “*Ellerman bombs: fallacies, fads, usage*” in Cally, P.S., Erdélyi, R., Norton, A.A. (eds.), “Eclipse on the Coral Sea: Cycle 24 Ascending”, *J. Physics Conf. Series* 440, 1-13 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., 2013: “*Twists to Solar Spicules*” in Pugliese, G., de Koter, A., Wijburg, M. (eds.), “370 Years of Astronomy in Utrecht”, *Astron. Soc. Pacific Conf. Series* 470, 49-58 [pdf](#) [bib](#) [ADS](#)
- Rutten, R., 2013: “*Voor anker*”, *Peddelpraat* 247, 31-39 [pdf](#) [bib](#)
- Teriaca, L., Andretta, V., Auchère, F., Brown, C.M., Buchlin, E., Cauzzi, G., Culhane, J.L., Curdt, W., Davila, J.M., Del Zanna, G., Doschek, G.A., Fineschi, S., Fludra, A., Gallagher, P.T., Green, L., Harra, L.K., Imada, S., Innes, D., Kliem, B., Korendyke, C., Mariska, J.T., Martínez-Pillet, V., Parenti, S., Patsourakos, S., Peter, H., Poletto, L., Rutten, R.J., Schühle, U., Siemer, M., Shimizu, T., Socas-Navarro, H., Solanki, S.K., Spadaro, D., Trujillo-Bueno, J., Tsuneta, S., Dominguez, S.V., Vial, J.-C., Walsh, R., Warren, H.P., Wiegmann, T., Winter, B., Young, P., 2012: “*LEMUR: Large European module for solar Ultraviolet Research. European contribution to JAXA’s Solar-C mission*”, *Experimental Astronomy* 34, 273-309 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., 2012: “*The quiet-Sun photosphere and chromosphere*”, *Phil. Trans. Royal Soc. London Series A* 370, 3129-3150 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- De Pontieu, B., Carlsson, M., Rouppe van der Voort, L.H.M., Rutten, R.J., Hansteen, V.H., Watanabe, H., 2012: “*Ubiquitous torsional motions in type-II spicules*”, *Astrophys. J. Lett.* 752, L12 1-6 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., Uitenbroek, H., 2012: “*Chromospheric backradiation in ultraviolet continua and H α* ”, *Astron. Astrophys.* 540, A86 1-11 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R., 2012: “*Graphical introduction to chromospheric line formation*”, annotated displays of review at SDO-4/IRIS/Hinode workshop, Monterey, 1-61 [pdf](#) [bib](#) [ADS](#)
- Rutten, R., 2012: “*Understanding and observing the H-alpha chromosphere*”, annotated displays of talk at Hinode 6 meeting, St Andrews, 1-28 [pdf](#) [bib](#)
- Rutten, R.J., 2011: “*The solar activity sensitivity of Mn I lines*” in Premadi, P.W., et al. (eds.), “Indonesia Astronomy & Astrophysics”, Indonesian Astron. Soc., Institut Teknologi Bandung, 3-8 [pdf](#) [bib](#)
- Rutten, R.J., Leenaarts, J., Rouppe van der Voort, L.H.M., de Wijn, A.G., Carlsson, M., Hansteen, V., 2011: “*Quiet-Sun imaging asymmetries in Na I D1 compared with other strong Fraunhofer lines*”, *Astron. Astrophys.* 531, A17 1-16 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Watanabe, H., Vissers, G., Kitai, R., Rouppe van der Voort, L., Rutten, R.J., 2011: “*Ellerman Bombs at High Resolution. I. Morphological Evidence for Photospheric Reconnection*”, *Astrophys. J.* 736, 71-83 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R., 2011: “*The magnetic solar chromosphere*”, annotated displays of talk at farewell J.M.E. Kuijpers, Nijmegen, 1-21 [pdf](#) [bib](#)
- Rutten, R., 2011: “*De Utrechtse sterrenkunde 50 jaar terug*”, *Fylakra* 55 nr 6, 6-8 [pdf](#) [bib](#)
- Hammerschlag, R.H., Skomorovsky, V.I., Bettonvil, F.C.M., Kushtal, G.I., Olshevsky, V.L., Rutten, R.J., Jägers, A.P.L., Sliopen, G., Snik, F., 2010: “*The Irkutsk Barium filter for narrow-band wide-field high-resolution solar images at the*

- Dutch Open Telescope*” in Ground-based and Airborne Instrumentation for Astronomy III, Proc. SPIE 7735, 773585 1-11 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Leenaarts, J., Rutten, R.J., Reardon, K., Carlsson, M., Hansteen, V., 2010: “*The Quiet Solar Atmosphere Observed and Simulated in Na I D1*”, *Astrophys. J.* 709, 1362-1373 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Hasan, S.S., Rutten, R.J. (eds.), 2010, “*Magnetic Coupling between the Interior and Atmosphere of the Sun*”, Procs. Evershed Conference Bangalore, *Astrophys. Space Science Procs.* 19, 1-557 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Cauzzi, G., Reardon, K., Rutten, R.J., Tritschler, A., Uitenbroek, H., 2010: “*Dual-Line Spectral Imaging of the Chromosphere*”, *Astrophysics and Space Science Proceedings* 19, 513-514 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., 2010: “*The quiet chromosphere. Old wisdom, new insights, future needs*” in Tritschler, A., Reardon, K., Uitenbroek, H. (eds.), “25th NSO Workshop”, *Mem. Soc. Astr. It.* 81, 565-576 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 2010: “*Solar Spectroscopy and (Pseudo-)Diagnostics of the Solar Chromosphere*” in Chaudhuri, R.K., Mekkadon, M.V., Raveendran, A.V., Narayanan, A.S. (eds.), “Recent Advances in Spectroscopy: Astrophysical, Theoretical and Experimental Perspectives”, *Astrophys. Space Science Procs.* 17, 163-175 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Cauzzi, G., Reardon, K., Rutten, R.J., Tritschler, A., Uitenbroek, H., 2009: “*The solar chromosphere at high resolution with IBIS IV. Dual-line evidence of heating in chromospheric network*”, *Astron. Astrophys.* 503, 577-587 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Koza, J., Rutten, R.J., Vourlidas, A., 2009: “*Dynamic Ly α jets*”, *Astron. Astrophys.* 499, 917-921 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Vitas, N., Viticchiè, B., Rutten, R.J., Vögler, A., 2009: “*Explanation of the activity sensitivity of Mn I 5394.7 Å*”, *Astron. Astrophys.* 499, 301-312 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., van Veelen, B., Sütterlin, P., 2008: “*DOT Tomography of the Solar Atmosphere VII. Chromospheric Response to Acoustic Events*”, *Solar Phys.* 251, 533-547 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Vitas, N., Vince, I., Lugaro, M., Andriyenko, O., Gošič, M., Rutten, R.J., 2008: “*On the solar abundance of indium*”, *Mon. Not. Roy. Astron. Soc.* 384, 370-375 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Keller, C.U., Voegler, A., Rutten, R.J., Hammerschlag, R.H., Bettonvil, F.C.M., 2008: “*DOT Science Support 2009-2011*”, Proposal to NOVA, 1-11 [pdf](#) [bib](#)
- Rutten, R.J., 2008: “*H α as a Chromospheric Diagnostic*” in Matthews, S.A., Davis, J.M., Harra, L.K. (eds.), “First Results From Hinode”, *Astron. Soc. Pacific Conf. Series* 397, 54-57 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 2008: “*Concluding remarks*”, annotated displays of final talk at 12th ESPM, Freiburg, 1-50 [pdf](#) [bib](#) [ADS](#)
- Cauzzi, G., Reardon, K., Rimmele, T., Rutten, R., Tritschler, A., Uitenbroek, H., Woeger, F., 2008: “*Solar Chromospheric Dynamics: Onwards and Upwards*”, AGU Spring Meeting Abstracts, SP41B-03 [pdf](#) [bib](#) [ADS](#)
- Sánchez Almeida, J., Teriaca, L., Sütterlin, P., Spadaro, D., Schühle, W., Rutten, R.J., 2007: “*Search for photospheric footpoints of quiet-Sun transition region loops*”, *Astron. Astrophys.* 475, 1101-1109 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Leenaarts, J., Carlsson, M., Hansteen, V., Rutten, R.J., 2007: “*Non-equilibrium hydrogen ionization in 2D simulations of the solar atmosphere*”, *Astron. Astrophys.* 473, 625-632 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Heinzel, P., Dorotovič, I., Rutten, R.J. (eds.), 2007, “*The Physics of Chromospheric Plasmas*”, Procs. Coimbra conference, *Astron. Soc. Pacific Conf. Series* 368, 1-679 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 2007: “*ESMN in Memoriam (1998 – 2006)*” in Heinzel, P., Dorotovič, I., Rutten, R.J. (eds.), “The Physics of Chromospheric Plasmas”, *Astron. Soc. Pacific Conf. Series* 368, 21-25 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 2007: “*Observing the Solar Chromosphere*” in Heinzel, P., Dorotovič, I., Rutten, R.J. (eds.), “The Physics of Chromospheric Plasmas”, *Astron. Soc. Pacific Conf. Series* 368, 27-49 [pdf](#) [bib](#) [ADS](#)
- De Wijn, A.G., De Pontieu, B., Rutten, R.J., 2007: “*Chromospheric and Transition-Region Dynamics in Plage*” in Heinzel, P., Dorotovič, I., Rutten, R.J. (eds.), “The Physics of Chromospheric Plasmas”, *Astron. Soc. Pacific Conf. Series* 368, 137-138 [pdf](#) [bib](#) [ADS](#)
- Hammerschlag, R.H., Bettonvil, F.C.M., Jägers, A.P.L., Rutten, R.J., 2007: “*Aperture Increase Options for the Dutch Open Telescope*” in Heinzel, P., Dorotovič, I., Rutten, R.J. (eds.), “The Physics of Chromospheric Plasmas”, *Astron. Soc. Pacific Conf. Series* 368, 573-593 [pdf](#) [bib](#) [ADS](#)
- De Wijn, A.G., De Pontieu, B., Rutten, R.J., 2007: “*Fourier Analysis of Active-Region Plage*”, *Astrophys. J.* 654, 1128-1134 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., Janssen, G.H., den Hartog, P.R., Meijer, J., 2007: “*Spectral lines as distant measurement tools*”, exercises for high school / first-year students, 1-29 [pdf](#) [bib](#)
- Rutten, R.J. (ed.), 2007, “*High Resolution Physics of the Solar Photosphere*”, Final Report to INTAS, 1-12 [pdf](#) [bib](#)
- Rutten, R.J., 2007: “*Spectra van sterren, planeten en de zon*”, Opgaven sterrenkunde Olympiade, 1-4 [pdf](#) [bib](#)

- Rutten, R.J., 2007: “*Spectra van sterren, planeten en de zon*”, Antwoorden sterrenkunde Olympiade, 1-3 [pdf](#) [bib](#)
- Rutten, R., 2007: “*Als ramptoerist de mooiste inslag rond*”, Zenit 34, 212-215 [pdf](#) [bib](#)
- Rutten, R.J., 2006: “*On the Nature of the Solar Chromosphere*” in Leibacher, J., Stein, R.F., Uitenbroek, H. (eds.), “Solar MHD Theory and Observations: A High Spatial Resolution Perspective”, Astron. Soc. Pacific Conf. Series 354, 276-283 [pdf](#) [bib](#) [ADS](#)
- De Wijn, A.G., Rutten, R.J., Haverkamp, E.M.W.P., Sütterlin, P., 2006: “*Magnetic Patches in Internetwork Areas*” in Leibacher, J., Stein, R.F., Uitenbroek, H. (eds.), “Solar MHD Theory and Observations: A High Spatial Resolution Perspective”, Astron. Soc. Pacific Conf. Series 354, 20-25 [pdf](#) [bib](#) [ADS](#)
- Snik, F., Bettonvil, F.C.M., Jägers, A.P.L., Hammerschlag, R.H., Rutten, R.J., Keller, C.U., 2006: “*The Ba II 4554 / H β Imaging Polarimeter for the Dutch Open Telescope*” in Casini, R., Lites, B.W. (eds.), “Solar Polarization 4”, Astron. Soc. Pacific Conf. Series 358, 205-209 [pdf](#) [bib](#) [ADS](#)
- Leenaarts, J., Rutten, R.J., Carlsson, M., Uitenbroek, H., 2006: “*A comparison of solar proxy-magnetometry diagnostics*”, Astron. Astrophys. 452, L15-L18 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Leenaarts, J., Rutten, R.J., Sütterlin, P., Carlsson, M., Uitenbroek, H., 2006: “*DOT tomography of the solar atmosphere. VI. Magnetic elements as bright points in the blue wing of H α* ”, Astron. Astrophys. 449, 1209-1218 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Bettonvil, F.C.M., Hammerschlag, R.H., Sütterlin, P., Rutten, R.J., Jägers, A.P.L., Sliepen, G., 2006: “*Tunable H-alpha Lyot filter with advanced servo system and image processing: instrument design and new scientific results with the Dutch Open Telescope*” in Soc. Photo-Optical Instrum. Engineers (SPIE) Conf. Series, Proc. SPIE 6269, 1-12 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R., 2006: “*Manicouagan: asteroid circuit by kayak*”, Lingezicht Kayak Reports, 1-9 [pdf](#) [bib](#)
- Rutten, R.J. (ed.), 2006, “*European Solar Magnetism Network*”, Final Report to EC, 1-60 [pdf](#) [bib](#)
- Rutten, R., 2006: “*Per kano een meteorinslag rond*”, Peddelpraat 207, 41-49 [pdf](#) [bib](#)
- De Wijn, A.G., Rutten, R.J., Haverkamp, E.M.W.P., Sütterlin, P., 2005: “*DOT tomography of the solar atmosphere. IV. Magnetic patches in internetwork areas*”, Astron. Astrophys. 441, 1183-1190 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Sheminova, V.A., Rutten, R.J., Rouppe van der Voort, L.H.M., 2005: “*The wings of Ca II H and K as solar fluxtube diagnostics*”, Astron. Astrophys. 437, 1069-1080 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- De Wijn, A.G., Rutten, R.J., Tarbell, T.D., 2005: “*Dynamics of the solar chromosphere. V. High-frequency modulation in ultraviolet image sequences from TRACE*”, Astron. Astrophys. 430, 1119-1127 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Leenaarts, J., Sütterlin, P., Rutten, R.J., Carlsson, M., Uitenbroek, H., 2005: “*Small scale magnetic elements as bright points in the blue H α wing*” in Innes, D.E., Lagg, A., Solanki, S.K. (eds.), “Chromospheric and Coronal Magnetic Fields”, ESA SP 596 596, 15-20 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 2005: “*MAO-SIU solar physics collaborations*”, Kinematika i Fizika Nebesnykh Tel Supplement 5, 11-22 [pdf](#) [bib](#) [ADS](#)
- Sheminova, V.A., Rutten, R.J., Rouppe van der Voort, L.H.M., 2005: “*The temperature gradient in and around solar magnetic fluxtubes*”, Kinematika i Fizika Nebesnykh Tel Supplement 5, 110-116 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J. (ed.), 2005, “*Utrecht–Stockholm–Oslo Graduate School in Solar Physics*”, Proposal to EC (coordinator D. Kiselman), 1-9 [pdf](#) [bib](#)
- Rutten, R.J. (ed.), 2005, “*European Solar Magnetism Network*”, Third-Year Report to EC, 1-26 [pdf](#) [bib](#)
- Rutten, R.J., Bettonvil, F.C.M., Hammerschlag, R.H., Jägers, A.P.L., Leenaarts, J., Snik, F., Sütterlin, P., Tziotziou, K., De Wijn, A.G., 2004: “*The Dutch Open Telescope on La Palma*” in Stepanov, A.V., Benevolenskaya, E.E., Kosovichev, A.G. (eds.), “Multi-Wavelength Investigations of Solar Activity”, IAU Symposium 223, 597-604 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Bettonvil, F.C., Hammerschlag, R.H., Sütterlin, P., Rutten, R.J., Jägers, A.P., Snik, F., 2004: “*DOT++: the Dutch Open Telescope with 1.4-m aperture*” in Oschmann, J.M. Jr. (ed.), “Ground-based Telescopes”, Proc. SPIE 5489, 362-373 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., De Wijn, A.G., Sütterlin, P., 2004: “*DOT tomography of the solar atmosphere. II. Reversed granulation in Ca II H*”, Astron. Astrophys. 416, 333-340 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., Hammerschlag, R.H., Bettonvil, F.C.M., Sütterlin, P., De Wijn, A.G., 2004: “*DOT tomography of the solar atmosphere. I. Telescope summary and program definition*”, Astron. Astrophys. 413, 1183-1189 [pdf](#) [bib](#) [ADS](#) [DOI](#)

- Rutten, R.J. (ed.), 2004, “*Utrecht–Stockholm–Oslo collaboration in solar physics*”, Memorandum of Understanding, 1-14 [pdf](#) [bib](#)
- Rutten, R.J. (ed.), 2004, “*European Solar Magnetism Network*”, Second-Year Midterm Report to EC, 1-30 [pdf](#) [bib](#)
- Rutten, R., 2004: “*DOTtige lijnkernen*”, Vakidoot 2003–2004 nr.4 [pdf](#) [bib](#)
- Rutten, R.J., Krijger, J.M., 2003: “*Dynamics of the solar chromosphere IV. Evidence for atmospheric gravity waves from TRACE*”, *Astron. Astrophys.* 407, 735-740 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Roupe van der Voort, L.H.M., Rutten, R.J., Sütterlin, P., Sloover, P.J., Krijger, J.M., 2003: “*La Palma observations of umbral flashes*”, *Astron. Astrophys.* 403, 277-285 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., 2003: “*The Dutch Open Telescope*” in Oswalt, T.D. (ed.), “The future of small telescopes in the new millennium. II - The telescopes we use”, *Astrophysics and Space Science Library* 288, 111-120 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., 2003: “*Waves in the chromosphere: observations*” in Erdélyi, R., Petrovay, K., Roberts, B., Aschwanden, M. (eds.), “Turbulence, Waves and Instabilities in the Solar Plasma”, 137-158 *NATO ASI Series II* 124 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 2003: “*Dynamical Behavior of the Upper Solar Photosphere*” in Piskunov, N., Weiss, W.W., Gray, D.F. (eds.), “Modelling of Stellar Atmospheres”, *IAU Symposium* 210, 221-231 [pdf](#) [bib](#) [ADS](#)
- Wiersma, J., Rutten, R.J., Lanz, T., 2003: “*NLTE in a Hot Hydrogen Star: Auer & Mihalas Revisited*” in Hubený, I., Mihalas, D., Werner, K. (eds.), “Stellar Atmosphere Modeling”, *Astron. Soc. Pacific Conf. Series* 288, 130-136 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 2003: “*Utrecht Radiative Transfer Courses*” in Hubený, I., Mihalas, D., Werner, K. (eds.), “Stellar Atmosphere Modeling”, *Astron. Soc. Pacific Conf. Series* 288, 99 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 2003: “*High-Resolution Solar Physics*” in Tripathy, S.C., Venkatakrishnan, P. (eds.), “Probing the Sun with High Resolution”, *Narosa Publ. House, New Delhi*, 39-50 [pdf](#) [bib](#)
- Bettonvil, F.C., Suetterlin, P., Hammerschlag, R.H., Jagers, A.P., Rutten, R.J., 2003: “*Multi-wavelength imaging system for the Dutch Open Telescope*” in Keil, S.L., Avakyan, S.V. (eds.), “Innovative Telescopes and Instrumentation for Solar Astrophysics”, *Proc. SPIE* 4853, 306-317 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., 2003: “*Epsilon*” in Andreasian, N. (ed.), “Richard Nelson Thomas: NonEquilibrium Thermodynamical Astrophysicist”, *University of Colorado, Boulder*, 78-90 [pdf](#) [bib](#)
- Heinzl, P., Rutten, R.J., 2003: “*The Solar Chromosphere*” in Rickman, H. (ed.), “Reports on Astronomy”, 94-95 *Transact. IAU Series A*, XXV A [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 2003: “*Radiative Transfer in Stellar Atmospheres*”, lecture notes Utrecht University, Utrecht 1-275 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 2003: “*Equations compendium Radiative Transfer in Stellar Atmospheres*”, lecture notes Utrecht University 1-89 [pdf](#) [bib](#)
- Rutten, R.J. (ed.), 2003, “*Speckle Processor for the Dutch Open Telescope*”, Proposal to NWO, 1-9 [pdf](#) [bib](#)
- Rutten, R.J. (ed.), 2003, “*DOT⁺⁺ solar physics*”, Proposal to NOVA to triple the DOT aperture, 1-18 [pdf](#) [bib](#)
- Rutten, R.J. (ed.), 2003, “*European Solar Magnetism Network*”, First-Year Report to EC, 1-18 [pdf](#) [bib](#)
- Rutten, R., 2003: “*De zon en de DOT*”, *Universum* 37 nr. 3, 6-11 [pdf](#) [bib](#)
- Hoekzema, N.M., Rimmele, T.R., Rutten, R.J., 2002: “*Small-scale topology of solar atmospheric dynamics. V. Acoustic events and internetwork grains*”, *Astron. Astrophys.* 390, 681-690 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., Sütterlin, P., De Wijn, A.G., Hammerschlag, R.H., Bettonvil, F.C.M., Hoogendoorn, P.W., Jägers, A.P.L., 2002: “*Dutch Open Telescope: status, results, prospects*” in Wilson, A. (ed.), “Solar Variability: From Core to Outer Frontiers”, *ESA Special Pub.* 506, 903-906 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., De Wijn, A.G., Sütterlin, P., Bettonvil, F.C.M., Hammerschlag, R.H., 2002: “*Opening the Dutch Open Telescope*” in Sawaya-Lacoste, H. (ed.), “SOLMAG 2002. Proceedings of the Magnetic Coupling of the Solar Atmosphere Euroconference”, *ESA Special Pub.* 505, 565-568 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 2002: “*Solar Atmosphere Models*”, *J. Astron. Data* 8, 1-32 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 2002: “*European Solar Magnetism Network*” in Sawaya-Lacoste, H. (ed.), “Magnetic Coupling of the Solar Atmosphere”, *ESA Special Pub.* 505, 569-570 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 2002: “*European Solar Magnetism Network*”, poster at “Magnetic Coupling of the Solar Atmosphere”, Santorini [pdf](#) [bib](#)
- Rutten, R.J. (ed.), 2002, “*European Solar Magnetometry Network*”, Final Report to EC, 1-57 [pdf](#) [bib](#)

- Rutten, R., Keppens, R., Fleck, B., 2002: “Solar Physics in The Netherlands 2000–2001” in Kucera, A. (ed.), “Joint Organization for Solar Observations, Annual Report 2000/2001”, 81-82 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 2002: “Review of Michael L. Mishchenko, Larry D. Travis, and Andrew A. Lacis: *Scattering, Absorption, and Emission of Light by Small Particles*”, Space Science Rev. [pdf](#) [bib](#)
- Krijger, J.M., Rutten, R.J., Lites, B.W., Straus, T., Shine, R.A., Tarbell, T.D., 2001: “Dynamics of the solar chromosphere. III. Ultraviolet brightness oscillations from TRACE”, *Astron. Astrophys.* 379, 1052-1082 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Sütterlin, P., Rutten, R.J., Skomorovsky, V.I., 2001: “Ba II 4554 Å speckle imaging as solar Doppler diagnostic”, *Astron. Astrophys.* 378, 251-256 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., 2001: “Het zonsonderzoek van SOHO”, *Vakidoot* 2001–2002 nr.1, 1-8 [pdf](#) [bib](#)
- Rutten, R.J., 2001: “DOT strategies versus Orbiter strategies” in Battrick, B., Sawaya-Lacoste, H., Marsch, E., Martínez Pillet, V., Fleck, B., Marsden, R. (eds.), “Solar encounter. Procs. First Solar Orbiter Workshop”, *ESA Special Pub.* 493, 357-360 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 2001: “ESMN / European solar physics research area” in Battrick, B., Sawaya-Lacoste, H., Marsch, E., Martínez Pillet, V., Fleck, B., Marsden, R. (eds.), “Solar encounter. Procs First Solar Orbiter Workshop”, *ESA Special Pub.* 493, 353-356 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J. (ed.), 2001, “Dutch Open Telescope & Virtual Solar Observatory”, White paper on future DOT observing modes, 1-16 [pdf](#) [bib](#)
- Rutten, R., 2001: “Zwaarwichtige expedities”, *Vakidoot* 2000–2001 nr.3, 2-7 [pdf](#) [bib](#)
- Sütterlin, P., Hammerschlag, R.H., Bettonvil, F.C.M., Rutten, R.J., Skomorovsky, V.I., Domyshv, G.N., 2001: “A Multi-Channel Speckle Imaging System for the DOT” in Sigwarth, M. (ed.), “Advanced Solar Polarimetry – Theory, Observation, and Instrumentation”, *Astron. Soc. Pacific Conf. Series* 236, 431 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., Hammerschlag, R.H., Sütterlin, P., Bettonvil, F.C.M., 2001: “Proxy Magnetometry with the Dutch Open Telescope” in Sigwarth, M. (ed.), “Advanced Solar Polarimetry – Theory, Observation, and Instrumentation”, *Astron. Soc. Pacific Conf. Series* 236, 25-32 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., Kiselman, D., Rouppe van der Voort, L., Plez, B., 2001: “Proxy Magnetometry of the Photosphere: Why are G-Band Bright Points so Bright?” in Sigwarth, M. (ed.), “Advanced Solar Polarimetry – Theory, Observation, and Instrumentation”, *Astron. Soc. Pacific Conf. Series* 236, 445-452 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., Hammerschlag, R.H., Sütterlin, P., Bettonvil, F.C.M., van der Zalm, E.B.J., 2001: “Solar magnetometry with the Dutch Open Telescope” in Wilson, A. (ed.), “The Solar Cycle and Terrestrial Climate”, *ESA Special Pub.* SP-463, Estec, Noordwijk, 611-616 Procs. 1st Solar & Space Weather Euroconference [pdf](#) [bib](#) [ADS](#)
- Kiselman, D., Rutten, R.J., Plez, B., 2001: “The formation of G-band bright points I: Standard LTE modelling” in Brekke, P., Fleck, B., Gurman, J.B. (eds.), “Recent Insights into the Physics of the Sun and Heliosphere: Highlights from SOHO and Other Space Missions”, *IAU Symposium* 203, 287-290 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 2001: “Solar Atmospheric Dynamics” in García López, R.J., Rebolo, R., Zapaterio Osorio, M.R. (eds.), “11th Cambridge Workshop Cool Stars, Stellar Systems and the Sun”, *Astron. Soc. Pacific Conf. Series* 223, 117-130 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., Hagenaar, H.J., 2001: “Chromosphere: network” in Murdin, P. (ed.), “Encyclopedia Astron. Astrophys.”, Institute of Physics, 1-3 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J. (ed.), 2001, “European Solar Magnetism Network”, Proposal to EC, 1-27 [pdf](#) [bib](#)
- Rutten, R.J. (ed.), 1999, “European Solar Magnetometry Network”, Third-Year Report to EC, 1-21 [pdf](#) [bib](#)
- Rutten, R.J., Hammerschlag, R.H., Bettonvil, F.M., Sütterlin, P., 2000: “Dutch Open Telescope: Status and Prospects” in AAS/Solar Physics Division Meeting 32, 02107 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J. (ed.), 2000, “European Solar Magnetometry Network”, Midterm Report to EC, 1-28 [pdf](#) [bib](#)
- Rutten, R.J. (ed.), 2000, “European Solar Magnetometry Network”, Second-Year Report to EC, 1-12 [pdf](#) [bib](#)
- Rutten, R.J., 2000: “C. Zwaan (1929–1999) and JOSO” in Antalová, A., Kučera, A. (eds.), “Annual Report 1999 Volume 29”, *Astron. Inst. Tatranská Lomnica, Slovak Republic*, 4-7 Joint Organization for Solar Observations [pdf](#) [bib](#)
- Rutten, R., Keppens, R., Fleck, B., 2000: “Solar Physics in The Netherlands 1999” in Antalova, A. (ed.), “Joint Organization for Solar Observations, Annual Report 1999”, 1-2 [pdf](#) [bib](#)
- Rutten, R., 2000: “Buijs Ballotbajes”, *U-blad* 32, 10-11 [pdf](#) [bib](#)
- Rutten, R.J., Brentjens, M.A., den Hartog, P.R., Poelarends, A.J.T., van der Sluys, M.V., 2000: “Spectrografische bepaling van de zonsrotatie”, *Practicuminstructie ZNSP*, 1-30 [pdf](#) [bib](#)
- Rutten, R., 2000: “Zonneopstelling Sonnenborgh”, Appendix practicum instructie, 1-10 [pdf](#) [bib](#)

- Lites, B.W., Rutten, R.J., Berger, T.E., 1999: “*Dynamics of the Solar Chromosphere. II. Ca II H2v and K2v Grains versus Internetwork Fields*”, *Astrophys. J.* 517, 1013-1033 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., 1999: “(Inter-), Network Structure and Dynamics” in Schmieder, B., Hofmann, A., Staude, J. (eds.), “Magnetic Fields and Oscillations”, *Astron. Soc. Pacific Conf. Series* 184, 181-200 Third Adv. in Solar Physics Euroconf. [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1999: “*The Dutch Open Telescope: History, Status, Prospects*” in Rimmele, T.R., Balasubramaniam, K.S., Radick, R.R. (eds.), “High Resolution Solar Physics: Theory, Observations, and Techniques”, *Astron. Soc. Pacific Conf. Series* 183, 147-156 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1999: “*Two-Dimensional Phase-Diverse Stokes Spectrometer*” in Rimmele, T.R., Balasubramaniam, K.S., Radick, R.R. (eds.), “High Resolution Solar Physics: Theory, Observations, and Techniques”, *Astron. Soc. Pacific Conf. Series* 183, 296-302 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., De Pontieu, B., Lites, B., 1999: “*Internetwork Grains with TRACE*” in Rimmele, T.R., Balasubramaniam, K.S., Radick, R.R. (eds.), “High Resolution Solar Physics: Theory, Observations, and Techniques”, *Astron. Soc. Pacific Conf. Series* 183, 383-388 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1999: “*Radiative Transfer for Grabs*” in Butler, C.J., Doyle, J.G. (eds.), “Solar and Stellar Activity: Similarities and Differences”, *Astron. Soc. Pacific Conf. Series* 158, 306 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., Hammerschlag, R.H., Bettonvil, F.C.M., 1999: “*The Dutch Open Telescope*” in Butler, C.J., Doyle, J.G. (eds.), “Solar and Stellar Activity: Similarities and Differences”, *Astron. Soc. Pacific Conf. Series* 158, 57-60 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., Lites, B.W., Berger, T.E., Shine, R.A., 1999: “*Dynamics of the Quiet Solar Chromosphere*” in Butler, C.J., Doyle, J.G. (eds.), “Solar and Stellar Activity: Similarities and Differences”, *Astron. Soc. Pacific Conf. Series* 158, 249-259 [pdf](#) [bib](#) [ADS](#)
- Krijger, J.M., Rutten, R.J. (eds.), 1999, “*Solar and Stellar Magnetism*”, lecture notes Utrecht University, 1-196 [pdf](#) [bib](#)
- Rutten, R., Keppens, R., Fleck, B., 1999: “*Solar Physics in The Netherlands 1998*” in Antalova, A. (ed.), “Joint Organization for Solar Observations, Annual Report 1999”, 1-2 [pdf](#) [bib](#)
- Rutten, R.J., 1999: “*Review of C. Fröhlich, M.C.E. Huber, S.K. Solanki and R. von Steiger (Eds.): Solar Composition and its Evolution — from Core to Corona*”, *Space Science Rev.* 90, 526-526 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., 1999: “*Review of F.-L. Deubner, J. Christensen-Dalsgaard and D. Kurtz (Eds.): New Eyes to See Inside the Sun and Stars*”, *Space Science Rev.* 88, 605-606 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., 1999: “*Magnetic Fields and Oscillations*”, *Pub. Astron. Soc. Pacific* 111, 380-381 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J. (ed.), 1999, “*European Solar Magnetometry Network*”, First-Year Report to EC, 1-9 [pdf](#) [bib](#)
- Rutten, R.J., 1999: “*Stellar Spectra. A. Basic line formation*”, Practical Utrecht University, 1-36 [pdf](#) [bib](#)
- Rutten, R.J., 1999: “*Stellar Spectra. B. LTE line formation*”, Practical Utrecht University, 1-27 [pdf](#) [bib](#)
- Rutten, R.J., Janssen, G.H., den Hartog, P.R., Meijer, J., 1999: “*Spectraalijnen: natuurkunde op afstand*”, Opdrachten voor VWO Masterclass Sterrenkunde, 1-31 [pdf](#) [bib](#)
- Rutten, R.J., 1999: “*Verduisterde zonnefysici*”, *Reformatorisch Dagblad*, 1-2 [pdf](#) [bib](#)
- Rutten, R., 1999: “*Wat zagen we NIET op 11 augustus?*”, *Zenit* 26, 472-474 [pdf](#) [bib](#) [ADS](#)
- Rutten, R., 1999: “*Zonderzoek met de DOT*”, *Vakidoot* 1999-2000 nr. 1, 2-7 [pdf](#) [bib](#)
- Rutten, R., 1999: “*Dutch Open Telescope: spiegel op de tocht*”, *Natuur & Techniek* 67 nr. 5, 70-79 [pdf](#) [bib](#)
- Rutten, R.J., Schrijver, C.J., 1999: “*C. Zwaan (1928 - 16 June 1999)*”, *Solar Phys.* 188, 0-2 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., Schrijver, C.J., 1999: “*Obituary: Cornelis Zwaan, 1928-1999*” in ?, *Bull. Am. Astron. Soc.* 31, 1612-1613 [pdf](#) [bib](#) [ADS](#)
- Hoekzema, N.M., Brandt, P.N., Rutten, R.J., 1998: “*Small-scale topology of solar atmosphere dynamics. III. Granular persistence and photospheric wave amplitudes*”, *Astron. Astrophys.* 333, 322-332 [pdf](#) [bib](#) [ADS](#)
- Hoekzema, N.M., Rutten, R.J., 1998: “*Small-scale topology of solar atmosphere dynamics. II. Granulation, K2v grains and waves*”, *Astron. Astrophys.* 329, 725-734 [pdf](#) [bib](#) [ADS](#)
- Hoekzema, N.M., Rutten, R.J., Brandt, P.N., Shine, R.A., 1998: “*Small-scale topology of solar atmosphere dynamics. I. Wave sources and wave diffraction*”, *Astron. Astrophys.* 329, 276-290 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1998: “*The Lower Solar Atmosphere*”, *Space Science Rev.* 85, 269-280 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Beckers, J.M., Rutten, R.J., 1998: “*Site tests for CLEAR by solar scintillometry*”, *New Astronomy Reviews* 42, 489-492 [pdf](#) [bib](#) [ADS](#) [DOI](#)

- Kostyk, R.I., Shchukina, N.G., Rutten, R.J., 1998: "Problem of iron abundance in the solar photosphere.", Bulletin Crimean Astrophysical Observatory 94, 118-120 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., Hammerschlag, R.H., 1998: "Instrumentation for the Dutch Open Telescope", Proposal to NOVA, 1-18 [pdf](#) [bib](#)
- Rutten, R., Goedbloed, J., Martens, P., 1998: "Solar Physics in The Netherlands 1997" in Antalova, A. (ed.), "Joint Organization for Solar Observations, Annual Report 1997", 1-2 [pdf](#) [bib](#)
- Rutten, R., 1998: "Eerste licht voor de Dutch Open Telescope", Zenit 25, 69-71 [pdf](#) [bib](#)
- Rutten, R.J. (ed.), 1997, "European Solar Magnetometry Network", Presentation to EC, 1-3 [pdf](#) [bib](#)
- Stuik, R., Bruls, J.H.M.J., Rutten, R.J., 1997: "Modeling LiI and KI sensitivity to Pleiades activity.", Astron. Astrophys. 322, 911-923 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1997: "Solar Atmospheric Dynamics" in Deubner, F.-L. (ed.), "Reports on Astronomy", Kluwer, Dordrecht, 156-159 Transac. IAU Volume XXIII A [pdf](#) [bib](#)
- Rutten, R.J., Hammerschlag, R.H., Bettonvil, F.M., 1997: "The Dutch Open Telescope" in Pijpers, F.P., Christensen-Dalsgaard, J., Rosenthal, C.S. (eds.), "SCORE'96: Solar Convection and Oscillations and their Relationship", Astrophysics and Space Science Library 225, 289-292 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., Hammerschlag, R.H., Bettonvil, F.C.M., 1997: "Dutch Open Telescope: Status and Prospects" in Schmieder, B., del Toro Iniesta, J.C., Vázquez, M. (eds.), "Advances in Physics of Sunspots", Astron. Soc. Pacific Conf. Series 118, 335-339 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1997: "Chromospheric dynamics and the FIP flip" in Schmieder, B., del Toro Iniesta, J.C., Vázquez, M. (eds.), "Advances in Physics of Sunspots", Astron. Soc. Pacific Conf. Series 118, 298-302 [pdf](#) [bib](#) [ADS](#)
- Steffens, S., Deubner, F.-L., Fleck, B., Wilhelm, K., Schuhle, U., Curdt, W., Harrison, R., Gurman, J., Thompson, B.J., Brekke, P., Delaboudiniere, J.-P., Lemaire, P., Hessel, B., Rutten, R.J., 1997: "First Results from SOHO on Waves Near the Solar Transition Region" in Schmieder, B., del Toro Iniesta, J.C., Vázquez, M. (eds.), "Advances in Physics of Sunspots", Astron. Soc. Pacific Conf. Series 118, 284-288 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., Hammerschlag, R.H., Bettonvil, F.C.M., 1997: "The Dutch Open Telescope" in Mein, N., Sahal-Bréchet, S. (eds.), "Science with THEMIS", Observatoire de Paris, Meudon, 285-291 Procs. Forum THEMIS [pdf](#) [bib](#)
- Rutten, R.J., 1997: "DOT speckle spectrometry", Proposal to NFRA, 1-15 [pdf](#) [bib](#)
- Rutten, R.J. (ed.), 1997, "European Solar Magnetometry Network", Proposal to EC, 1-28 [pdf](#) [bib](#)
- Rutten, R., Hammerschlag, R., Bettonvil, F., 1997: "De Dutch Open Telescope. Nieuwe zonnetelescoop op La Palma", Zenit 24, 481-485 [pdf](#) [bib](#) [ADS](#)
- Rutten, R., 1997: "De Dutch Open Telescope. I. Inleiding", Vakidoot 4, 1-10 [pdf](#) [bib](#)
- Rutten, R., Goedbloed, J., Martens, P., 1997: "Solar Physics in The Netherlands 1996" in Antalova, A. (ed.), "Joint Organization for Solar Observations, Annual Report 1996", 1-2 [pdf](#) [bib](#)
- Rutten, R., 1997: "Solar Physics in Sweden 1996" in Antalova, A. (ed.), "Joint Organization for Solar Observations, Annual Report 1996", 1 [pdf](#) [bib](#)
- Rutten, R.J., 1997: "Review of K. Kontizas, M. Kontizas, D. H. Morgan and G. P. Vettolani (Eds.): Wide-Field Spectroscopy", Space Science Rev. 82, 467-468 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., 1997: "Review of K. G. Strassmeier and J. L. Linsky (Eds.): Stellar Surface Structure, Procs. Symposium No. 176 IAU", Space Science Rev. 79, 840-841 [pdf](#) [bib](#)
- Rutten, R.J., 1997: "Review of J.-O. Stenflo and K. N. Nagendra (Eds.): Solar Polarization, Procs. St. Petersburg Workshop", Space Science Rev. 79, 837-838 [pdf](#) [bib](#)
- Kostik, R.I., Shchukina, N.G., Rutten, R.J., 1996: "The solar iron abundance: not the last word", Astron. Astrophys. 305, 325-342 [pdf](#) [bib](#) [ADS](#)
- Cook, J.W., Rutten, R.J., Hoekzema, N.M., 1996: "Ultraviolet Jets and Bright Points in the Solar Chromosphere. I. Search for One-to-One Relationships", Astrophys. J. 470, 647-651 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, H.J., 1996: "Chromospheric dynamics" in Strassmeier, K.G., Linsky, J.L. (eds.), "Stellar Surface Structure", IAU Symposium 176, 385-392 [pdf](#) [bib](#) [ADS](#)
- Rutten, R., 1996: "Studeren met Hans Rosenberg" in van Geest e.a., D. (ed.), "Almanak 1995-1996", Utrecht, 134-137 Studievereniging A-Eskwadraat [pdf](#) [bib](#)
- Rutten, R., 1996: "De inauguratie van de DOT", Fylakra 40, 4/46-50 [pdf](#) [bib](#)
- Rutten, R., 1996: "Zonnewetenschap in en buiten Utrecht", Vakidoot 96/97-1, 2-5 [pdf](#) [bib](#)
- Rutten, R., 1996: "DOT ziet zon", Utrechtoscoop (NVWS-JWG Utrecht) Nr.5, 3-7 [pdf](#) [bib](#)

- Rutten, R.J., 1996: "Review of D. M. Rabin, J. T. Jefferies and Ch. Lindsey: *Infrared Solar Physics, Procs. Symp. 154 IAU*", Space Science Rev. 75, 310 [pdf](#) [bib](#)
- Rutten, R.J., 1996: "Review of Jan Olof Stenflo: *Solar Magnetic Fields*", Space Science Rev. 76, 351-352 [pdf](#) [bib](#) [ADS](#)
- Bruls, J.H.M.J., Solanki, S.K., Rutten, R.J., Carlsson, M., 1995: "Infrared lines as probes of solar magnetic features. VIII. Mg I 12 μ m diagnostics of sunspots", Astron. Astrophys. 293, 225-239 [pdf](#) [bib](#) [ADS](#)
- Kostik, R.I., Shchukina, N.G., Rutten, R.J., 1995: "The Determination of the Solar Iron Abundance from Fe I Lines" in Adelman, S.J., Wiese, W.L. (eds.), "Astrophysical Applications of Powerful New Databases", Astron. Soc. Pacific Conf. Series 78, 399-406 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1995: "Chromospheric Oscillations" in Hoeksema, J.T., Domingo, V., Fleck, B., Battrick, B. (eds.), "Helioseismology", ESA Special Pub. 376, 151-163 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1995: "Generation and Transport of Radiation", translated by R.C. Peterson, edited by D. Kiselman, lecture notes Utrecht University 1-180 [pdf](#) [bib](#)
- Rutten, R.J., 1995: "Utrechts zonnestelsel", Bijlage bij fondsaanvragen, 1-5 [pdf](#) [bib](#)
- Rutten, R., Martens, P., 1995: "Solar Physics in The Netherlands 1994" in Antalova, A. (ed.), "Joint Organization for Solar Observations, Annual Report 1994", 1-2 [pdf](#) [bib](#)
- Carlsson, M., Rutten, R.J., Bruls, J.H.M.J., Shchukina, N.G., 1994: "The non-LTE formation of Li I lines in cool stars", Astron. Astrophys. 288, 860-882 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., Schrijver, C.J. (eds.), 1994, "Solar Surface Magnetism", Procs. Soesterberg workshop, linked contents of NATO ASI Series C 433 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., Carlsson, M., 1994: "The Formation of Infrared Rydberg Lines" in Rabin, D.M., Jefferies, J.T., Lindsey, C. (eds.), "Infrared Solar Physics", IAU Symposium 154, 309-322 [pdf](#) [bib](#) [ADS](#)
- Carlsson, M., Rutten, R.J., 1994: "Computation of Infrared Hydrogen Lines" in Rabin, D.M., Jefferies, J.T., Lindsey, C. (eds.), "Infrared Solar Physics", IAU Symposium 154, 341-346 [pdf](#) [bib](#) [ADS](#)
- Bruls, J.H.M.J., Solanki, S.K., Rutten, R.J., Carlsson, M., 1994: "Mg I 12 μ m diagnostics of sunspot penumbrae" in Schüssler, M., Schmidt, W. (eds.), "Solar Magnetic Fields", 191-193 [pdf](#) [bib](#) [ADS](#)
- Carlsson, M., Rutten, R.J., Bruls, J.H.M.J., Shchukina, N.G., 1994: "The Non-LTE Formation of Li I Lines from Cool Stars" in Caillaud, J.-P. (ed.), "Cool Stars, Stellar Systems, and the Sun", Astron. Soc. Pacific Conf. Series 64, 270-272 [pdf](#) [bib](#) [ADS](#)
- Damé, L., Martić, M., Rutten, R.J., 1994: "Imagerie Solaire à Très Haute Résolution par Interférométrie Optique: Programme SIMURIS" in Magnétisme dans les étoiles de type solaire, Paris, 214 Proc. Réunion Biennale du GdR [pdf](#) [bib](#)
- Damé, L., Rutten, R.J., Thorne, A.P., Vial, J.C., 1994: "The SIMURIS interferometric mission: Solar physics objectives and model payload", Advances in Space Research 14, 167-170 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Brandt, P.N., Rutten, R.J., Shine, R.A., Trujillo Bueno, J., 1994: "On photospheric flows and chromospheric corks" in Rutten, R.J., Schrijver, C.J. (eds.), "Solar surface magnetism", NATO Advanced Science Institutes (ASI) Series C 433, 251-259 [pdf](#) [bib](#) [ADS](#)
- Lites, B.W., Rutten, R.J., Thomas, J.H., 1994: "Chromospheric oscillations" in Rutten, R.J., Schrijver, C.J. (eds.), "Solar surface magnetism", NATO Advanced Science Institutes (ASI) Series C 433, 159-167 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1994: "Internetwork dynamics" in Carlsson, M. (ed.), "Chromospheric Dynamics", Inst. Theor. Astrophys., Oslo, 25-46 Proc. Miniworkshop [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1994: "Review of J.H. Thomas and N.O. Weiss: *Sunspots: Theory and Observations*", Space Science Rev. 67, 227 [pdf](#) [bib](#) [ADS](#)
- Lites, B.W., Rutten, R.J., Kalkofen, W., 1993: "Dynamics of the Solar Chromosphere. I. Long-Period Network Oscillations", Astrophys. J. 414, 345-356 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Lites, B.W., Rutten, R.J., Kalkofen, W., 1993: "Oscillations of the Magnetic Network" in Zirin, H., Ai, G., Wang, H. (eds.), "IAU Colloq. 141: The Magnetic and Velocity Fields of Solar Active Regions", Astron. Soc. Pacific Conf. Series 46, 530-533 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., Damé, L., 1993: "SIMURIS: High-Resolution Solar Physics" in Zirin, H., Ai, G., Wang, H. (eds.), "IAU Colloq. 141: The Magnetic and Velocity Fields of Solar Active Regions", Astron. Soc. Pacific Conf. Series 46, 184-187 [pdf](#) [bib](#) [ADS](#)

- Damé, L., Coradini, M., Foing, B., Rutten, R.J., Thorne, A., Vial, J.C., 1993: “*The SIMURIS interferometric mission: solar physics objectives and model payload*”, Mem. Soc. Astron. Italiana 64, 333-342 [pdf](#) [bib](#) [ADS](#)
- Damé, L., Coradini, M., Foing, B., Rutten, R.J., Thorne, A., Vial, J.C., 1993: “*Stellar objectives of SIMURIS*”, Mem. Soc. Astron. Italiana 64, 345-349 [pdf](#) [bib](#) [ADS](#)
- Damé, L., Martic, M., Rutten, R.J., 1993: “*Prospects for very-high-resolution solar physics with the SIMURIS interferometric mission*” in Maltby, P., Battrick, B. (eds.), “*Scientific Requirements for Future Solar-Physics Space Missions*”, ESA Special Pub. 1157 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1993: “*Review of David F. Gray: The observation and analysis of stellar photospheres*”, Space Science Rev. 65, 183 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1993: “*Review of J.T. Schmelz and J.C. Brown: The Sun: A Laboratory for Astrophysics*”, Space Science Rev. 65, 370 [pdf](#) [bib](#) [ADS](#)
- Rutten, R., 1993: “*Utrechts Zonnestelsel*”, Vakidoot 92/93-3, 7-9 [pdf](#) [bib](#)
- Rutten, R.J., 1993: “*Zingen in de zon - Helioseismologie*”, Natuur & Techniek 61, 696-707 [pdf](#) [bib](#)
- Rutten, R.J., 1993: “*Introduction to Solar Spectrum Formation*”, lecture notes National Solar Observatory, Sunspot 1-40 [pdf](#) [bib](#)
- Bruls, J.H.M.J., Rutten, R.J., 1992: “*The formation of helioseismology lines. II - Modeling of alkali resonance lines with granulation*”, Astron. Astrophys. 265, 257-267 [pdf](#) [bib](#) [ADS](#)
- Bruls, J.H.M.J., Rutten, R.J., Shchukina, N.G., 1992: “*The formation of helioseismology lines. I - NLTE effects in alkali spectra*”, Astron. Astrophys. 265, 237-256 [pdf](#) [bib](#) [ADS](#)
- Carlsson, M., Rutten, R.J., 1992: “*Solar hydrogen lines in the infrared*”, Astron. Astrophys. 259, L53-L56 [pdf](#) [bib](#) [ADS](#)
- Carlsson, M., Rutten, R.J., Shchukina, N.G., 1992: “*The formation of the Mg I emission features near 12 μ m*”, Astron. Astrophys. 253, 567-585 [pdf](#) [bib](#) [ADS](#)
- Carlsson, M., Rutten, R.J., Shchukina, N.G., 1992: “*Formation of the Mg I 12 μ m Lines*” in Giampapa, M.S., Bookbinder, J.A. (eds.), “*Cool Stars, Stellar Systems, and the Sun*”, Astron. Soc. Pacific Conf. Series 26, 518-520 [pdf](#) [bib](#) [ADS](#)
- Brandt, P.N., Rutten, R.J., Shine, R.A., Trujillo Bueno, J., 1992: “*Dynamics of the Quiet Solar Atmosphere: K2v Cell Grains Versus Magnetic Elements*” in Giampapa, M.S., Bookbinder, J.A. (eds.), “*Cool Stars, Stellar Systems, and the Sun*”, Astron. Soc. Pacific Conf. Series 26, 161-164 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1992: “*High resolution solar physics*” in Mattok, C. (ed.), “*Targets for Space-Based Interferometry*”, ESA Special Pub. 354, 163-173 [pdf](#) [bib](#) [ADS](#)
- Damé, L., Acton, L., Bruner, M.E., Connes, P., Cornwell, T.J., Curdt, W., Foing, B.H., Hammer, R., Harrison, R., Heyvaerts, J., Karabin, M., Marsch, E., Martic, M., Mattic, W., Muller, R., Patchett, B., Roca-Cortes, T., Rutten, R.J., Schmidt, W., Title, A.M., Tondello, G., Vial, J.C., Visser, H., 1992: “*Design Rationale of the Solar Ultraviolet Network / Sun*” in Beckers, J.M., Merkle, F. (eds.), “*High Resolution Imaging by Interferometry II*”, ESO Conference and Workshop Proceedings 39, 995-1003 [pdf](#) [bib](#) [ADS](#)
- Damé, L., Rutten, R.J., 1992: “*Prospects with SIMURIS*” in Damé, L., Guyenne, T.-D. (eds.), “*Solar Physics and Astrophysics at Interferometric Resolution*”, ESA Special Pub. 344, 21-28 [pdf](#) [bib](#) [ADS](#)
- Damé, L., Rutten, R.J., Thorne, A.P., Vial, J.C. (eds.), 1992, “*Model payload and system design of the SIMURIS interferometric mission*” [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1992: “*Multi-Channel Speckle Imaging*”, Proposal to ASTRON, 1-13 [pdf](#) [bib](#)
- Rutten, R.J., 1992: “*Perspectives for the Open Tower Telescope*”, Proposal to ASTRON, 1-11 [pdf](#) [bib](#)
- Rutten, R.J. (ed.), 1992, “*European Solar Physics Newsletter*” 4, Solar Physics Section, 1-4 European Physical Society [pdf](#) [bib](#)
- Rutten, R.J., 1992: “*Review of John T. Mariska: The Solar Transition Region*”, Space Science Rev. [pdf](#) [bib](#)
- Rutten, R.J. (ed.), 1992, “*Utrechts schaalmodel van het zonnestelsel*”, Interim verslag, 1-6 [pdf](#) [bib](#)
- Rutten, R.J., Schadee, A., van der Zalm, E.B.J. (eds.), 1992, “*Utrechts schaalmodel van het zonnestelsel*”, Voorstel aan Universiteit Utrecht en gemeente Utrecht, 1-5 [pdf](#) [bib](#)
- Rutten, R., 1992: “*Twee zonverduisteringen te Mexico*”, Zenit 19, 284-295 [pdf](#) [bib](#) [ADS](#)
- Rutten, R., 1992: “*Spectraallijnen: informatie op atomaire schaal*”, Zenit 19, 294-295 [pdf](#) [bib](#)
- Rutten, R.J., 1992: “*De atmosfeer van de zon*”, Syllabus Cursus De Zon, Stichting De Koepel, Utrecht 1-11 [pdf](#) [bib](#)
- Gomez, M.T., Severino, G., Rutten, R.J., 1991: “*Photospheric dynamics and the NLTE formation of the solar K I 769.9 nm line*”, Astron. Astrophys. 244, 501-510 [pdf](#) [bib](#) [ADS](#)

- Rutten, R.J., Uitenbroek, H., 1991: “*K2v Cell Grains and Chromospheric Heating*” in Ulmschneider, P., Priest, E.R., Rosner, R. (eds.), “Mechanisms of Chromospheric and Coronal Heating”, 48-53 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., Uitenbroek, H., 1991: “*Ca II H2v and K2v Cell Grains*”, Solar Phys. 134, 15-71 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., 1991: “*Opwekking en transport van straling*”, Collegedictaat Universiteit Utrecht 1-178 [pdf](#) [bib](#)
- Coradini, M., Damé, L., Foing, B., Haskell, G., Kassing, D., Olthof, H., Mersch, G., Rutten, R.J., Thorne, A.P., Vial, J.-C., 1991: “*SIMURIS: Solar, Solar System and Stellar Interferometric Mission for Ultrahigh Resolution Imaging and Spectroscopy*” 7, Proposal 1-115 [pdf](#) [bib](#) [ADS](#)
- Damé, L., Acton, L., Bruner, M., Connes, P., Cornwell, T., Foing, B.H., Heyvaerts, J., Lemaire, P., Martić, M., Muller, R., Porteneuve, J., Roca Cortés, T., Riehl, J., Rutten, R., Séchaud, M., Smith, P., Thorne, A.P., Title, A.M., Vial, J.-C., Visser, H., Weigelt, G., 1991: “*A solar interferometric mission for ultrahigh resolution imaging and spectroscopy: SIMURIS*”, Advances in Space Research 11, 383-386 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Damé, L., Acton, L., Bruner, M., Connes, P., Cornwell, T., Foing, B., Heyvaerts, J., Lemaire, P., Martić, M., Muller, R., Roca Cortés, T., Riehl, J., Rutten, R., Title, A.M., Vial, J.-C., Visser, H., Weigelt, G., 1991: “*Solar physics at ultrahigh resolution from the Space Station with the Solar Ultraviolet Network (SUN)*”, Advances in Space Research 11, 267-270 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Damé, L., Curdt, W., Marsch, E., Hammer, R., Mattig, W., Birkmayer, W., Lutz, R., Rutten, R.J., Braam, B., Visser, H., Tondello, G., Harrison, R., Patchett, B., Delaboudinière, J.-P., Foing, B., Vial, J.-C., Malaise, D., Giner, J., 1991: “*Solar Ultraviolet Network Spacelab Version (SUN-SV)*”, Complementary proposal submitted for the COLUMBUS Precursor Flight Spacelab-2, Service d’Aéronomie du CNRS, Verrières-le-Buisson [pdf](#) [bib](#)
- Rutten, R.J. (ed.), 1991, “*European Solar Physics Newsletter*” 3, Solar Physics Section , 1-4 European Physical Society [pdf](#) [bib](#)
- Rutten, R.J., 1991: “*Granulatie van zon en sterren*”, Zenit 18, 146-156 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1991: “*Het pad van de schaduw - zonsverduistering 11 juli 1991*”, Natuur & Techniek 59, 500-511 [pdf](#) [bib](#)
- Rutten, R.J., 1990: “*Sun-as-a-star line formation*” in Wallerstein, G. (ed.), “Cool Stars, Stellar Systems, and the Sun”, Astron. Soc. Pacific Conf. Series 9, 91-102 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1990: “*The solar photosphere: video movies and computer simulations*”, Comments on Astrophysics 14, 297-308 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1990: “*Summary Lecture*” in Stenflo, J.O. (ed.), “Solar Photosphere: Structure, Convection, and Magnetic Fields”, IAU Symposium 138, 501-516 [pdf](#) [bib](#) [ADS](#)
- Shchukina, N.G., Shcherbina, T.G., Rutten, R.J., 1990: “*Temperature Diagnostics of the Upper Photosphere*” in Stenflo, J.O. (ed.), “Solar Photosphere: Structure, Convection, and Magnetic Fields”, IAU Symposium 138, 29-34 [pdf](#) [bib](#) [ADS](#)
- Gurtovenko, E.A., Kostik, R.I., Rutten, R.J., 1990: “*Solar Oscillator Strengths as a Diagnostic Tool*” in Stenflo, J.O. (ed.), “Solar Photosphere: Structure, Convection, and Magnetic Fields”, IAU Symposium 138, 35-40 [pdf](#) [bib](#) [ADS](#)
- Carlsson, M., Rutten, R.J., Shchukina, N.G., 1990: “*The formation of the Mg I 12-micron emission lines.*”, Publications Debrecen Heliophysical Observatory 7, 260-261 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1990: “*Solar and Stellar Granulation*”, NATO Scientific Publications Newsletter 34, 1-2 [pdf](#) [bib](#)
- Rutten, R.J. (ed.), 1990, “*European Solar Physics Newsletter*” 2, Solar Physics Section , 1-6 European Physical Society [pdf](#) [bib](#)
- Damé, L., Acton, L.C., Bruner, M., Connes, P., Cornwell, T., Foing, B., Heyvaerts, J., Jalin, R., Lemaire, P., Martić, M., Moreau, B., Muller, R., Cortes, T.R., Riehl, J., Rutten, R., Title, A.M., Vial, J.-C., Visser, H., Weigelt, G., 1990: “*High-Resolution Solar Physics from the Space Station with Interferometric Techniques: the Solar Ultraviolet Network (SUN)—Instrument & Objectives*” in Deszö, L. (ed.), “The Dynamic Sun”, Publ. Debrecen Heliophysical Observatory 7 , 262-263 [pdf](#) [bib](#) [ADS](#)
- Gurtovenko, E.A., Kostik, R.I., Rutten, R.J., 1990: “*New solar oscillator strengths from Kiev*” in Hansen, J.E. (ed.), “Atomic Spectra and Oscillator Strengths for Astrophysics and Fusion Research”, 92-93 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., Severino, G. (eds.), 1989, “*Solar and Stellar Granulation*”, Procs. Capri workshop, NATO ASI Series C 263 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1989: “*Workshop introduction*” in Rutten, R.J., Severino, G. (eds.), “Solar and Stellar Granulation”, Kluwer, Dordrecht, 1-5 NATO ASI Series C-263 [pdf](#) [bib](#)

- Bruls, J.H.M.J., Uitenbroek, H., Rutten, R.J., 1989: “*The granulation sensitivity of neutral metal Lines*” in Rutten, R.J., Severino, G. (eds.), “*Solar and Stellar Granulation*”, Kluwer, Dordrecht, 311-312 NATO ASI Series C-263 [pdf](#) [bib](#)
- Gomez, M.-T., Severino, G., Rutten, R.J., 1989: “*Granulation and the NLTE Formation of K I 769.9*” in Rutten, R.J., Severino, G. (eds.), “*Solar and Stellar Granulation*”, Kluwer, Dordrecht, 565-566 NATO ASI Series C 263 [pdf](#) [bib](#)
- Rutten, R.J., 1989: “*Review of R. Viotti and M. Friedjung (Eds.): Physics of Formation of Fe II Lines Outside LTE*”, *Space Science Rev.* 50, 618 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J. (ed.), 1989, “*European Solar Physics Newsletter*” 1, Solar Physics Section European Physical Society [pdf](#) [bib](#)
- Rutten, R., Bruls, J., 1989: “*Description of NLTE analysis Ni I 676.78 nm line*”, *GONG Newsletter* 10, 4-5 [pdf](#) [bib](#)
- Rutten, R.J., 1989: “*Photosphere, chromosphere and temperature minimum*” in Damé, L. (ed.), “*A Solar Interferometric Mission for Ultrahigh Resolution Imaging and Spectroscopy (SIMURIS)*”, Office National d’Études et de Recherches Aéronautiques, Paris, 4-5 Proposal submitted to the European Space Agency [pdf](#) [bib](#)
- Rutten, R.J., 1989: “*De zon zingt*”, *Vakidoot* 88/89-3, 17-25 [pdf](#) [bib](#)
- Rutten, R.J., 1988: “*Oscillator Strengths from the High S/N Solar Spectrum*” in Cayrel de Strobel, G., Spite, M. (eds.), “*The Impact of Very High S/N Spectroscopy on Stellar Physics*”, *IAU Symposium* 132, 367-371 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1988: “*The NLTE formation of iron lines in the solar photosphere*” in Viotti, R., Vittone, A., Friedjung, M. (eds.), “*IAU Colloq. 94: Physics of Formation of Fe II Lines Outside LTE*”, *Astrophys. Space Sci. Library* 138, 185-210 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., Kostik, R.I., 1988: “*Empirical gf-determination from the solar spectrum*” in Viotti, R., Vittone, A., Friedjung, M. (eds.), “*IAU Colloq. 94: Physics of Formation of Fe II Lines Outside LTE*”, *Astrophysics and Space Science Library* 138, 83-92 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., 1988: “*Fe II Prospects in Solar Physics*” in Viotti, R., Vittone, A., Friedjung, M. (eds.), “*IAU Colloq. 94: Physics of Formation of Fe II Lines Outside LTE*”, *Astrophys. Space Sci. Library* 138, 317-320 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., Bruls, J.H.M.J., Gomez, M.T., Severino, G., 1988: “*The granulation sensitivity of helioseismology lines*” in Rolfe, E.J. (ed.), “*Seismology of the Sun and Sun-Like Stars*”, *ESA Special Publication* 286, 251-255 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1988: “*Solar and Stellar Granulation*”, *NATO Yearbook* 1988, 365 [pdf](#) [bib](#)
- Rutten, R.J., 1988: “*Kantinekunstwerk*”, *Fylakra* 32, 100-105 [pdf](#) [bib](#)
- Rutten, R.J., 1987: “*C.H.D. Buys Ballot*”, *Fylakra* 31, 178-183 [pdf](#) [bib](#)
- Rutten, R., 1987: “*Verstrooiing*”, *Album Amicorum voor A.D. Fokker*, 1-2 [pdf](#) [bib](#)
- Rutten, R.J., 1985: “*Review of Richard N. Thomas: Stellar Atmospheric Structural Patterns*”, *Space Science Rev.* 41, 394-396 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1985: “*Review of Sidney C. Wolff: The A-Stars - Problems and Perspectives*”, *Space Science Rev.* 41, 396-397 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1986: “*Review of John E. Beckmann and Lucio Crivellari: Progress in Stellar Spectral Line Formation Theory*”, *Space Science Rev.* 43, 384 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1986: “*De Zon*” in Beekman, G., Huis-Verheecke, C. (eds.), “*Encyclopedie van de astronomie*”, Elsevier, Amsterdam, 295-299 Winkler Prins [pdf](#) [bib](#)
- Gurtovenko, E.A., Sheminova, V.A., Rutten, R.J., 1985: “*Velocity Field in the Region of the Temperature Minimum of the Solar Atmosphere - Preliminary Results of a Determination of the Amplitude of the General Velocity Field*”, *Soviet Astronomy* 29, 72-76 (62, 124-131 in Russian edition) [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., van der Zalm, E.B.J., 1984: “*Clean lines in the solar flux spectrum*”, *Astron. Astrophys. Suppl.* 55, 171-177 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., van der Zalm, E.B.J., 1984: “*Revision of solar equivalent widths, Fe I oscillator strengths and the solar iron abundance*”, *Astron. Astrophys. Suppl.* 55, 143-161 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1984: “*Spectral Lines: Diagnostics*” in Keil, S.L. (ed.), “*Small-Scale Dynamical Processes in Quiet Stellar Atmospheres*”, 379-380 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1984: “*One Eye Closed - Two Eyes Closed*” in Keil, S.L. (ed.), “*Small-Scale Dynamical Processes in Quiet Stellar Atmospheres*”, 446 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., Zwaan, C., 1983: “*Empirical NLTE analyses of solar spectral lines. IV - The Fe I curve of growth*”, *Astron. Astrophys.* 117, 21-32 [pdf](#) [bib](#) [ADS](#)

- Rutten, R.J., 1983: “NLTE masking and the Kiev Fe I oscillator strengths”, *Highlights of Astronomy* 6, 801-803 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1983: “Fotosferische snelheidvelden”, *Collegedictaat Universiteit Utrecht* 1-100 [pdf](#) [bib](#)
- Rutten, R.J., 1983: “Review of G. Jaschek and W. Heintz (Eds.): *Automated Data retrieval in Astronomy*”, *Space Science Rev.* 36, 417 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., Kostik, R.I., 1982: “Empirical NLTE analyses of solar spectral lines. III - Iron lines versus LTE models of the photosphere”, *Astron. Astrophys.* 115, 104-114 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1982: “Uitleiding” in *Syllabus Cursus Voortgezette Sterrekunde*, Hoeven, 1-12 Volkssterrewacht Simon Stevin [pdf](#) [bib](#)
- Rutten, R.J., Cram, L.E., 1981: “Part I: Introduction” in Jordan, S.D. (ed.), “The Sun as a Star”, NASA SP-450, Washington, 3-7 CNRS-NASA Monograph Series on Nonthermal Phenomena in Stellar Atmospheres [pdf](#) [bib](#)
- Rutten, R.J., Cram, L.E., 1981: “The Sun as a star” in Jordan, S.D. (ed.), “The Sun as a Star”, NASA SP-450, Washington, Chapt 19, 473-512 CNRS-NASA Monograph Series on Nonthermal Phenomena in Stellar Atmospheres [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1981: “Sterrekundige Waarnemingsmethoden” in *Syllabus Cursus Voortgezette Sterrekunde*, Hoeven, 1-17 Volkssterrewacht Simon Stevin [pdf](#) [bib](#)
- Rutten, R.J., Stencel, R.E., 1980: “Solar limb emission lines near Ca II H&K and their spatial intensity variations”, *Astron. Astrophys. Suppl.* 39, 415-422 [pdf](#) [bib](#) [ADS](#)
- Cram, L.E., Rutten, R.J., Lites, B.W., 1980: “On the formation of Fe II lines in stellar spectra. I - Solar spatial intensity variation of λ 3969.4”, *Astrophys. J.* 241, 374-384 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Cram, L.E., Rutten, R.J., Lites, B.W., 1980: “Diagnostic Use of Fe II H and K Wing Emission Lines” in Gray, D.F., Linsky, J.L. (eds.), “IAU Colloq. 51: Stellar Turbulence”, *Lecture Notes in Physics*, Berlin Springer Verlag 114, 102 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., 1980: “Afbuiging van straling door de zon. 2. Nieuwe metingen.”, *Zenit* 7, 372-378 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1980: “Afbuiging van straling door de zon. 1. De zonsverduistering van 1919.”, *Zenit* 7, 276-281 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., Milkey, R.W., 1979: “Partial redistribution in the solar photospheric Ba II spectrum”, *Astrophys. J.* 231, 277-283 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Hammerschlag, R.H., Rutten, R.J., 1979: “An open LEST?”, *Osservazioni e memorie dell’Osservatorio astrofisico di Arcetri* 106, 115-118 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1979: “Solar observations with high spectral purity: needs and constraints”, *Osservazioni e memorie dell’Osservatorio astrofisico di Arcetri* 106, 221-225 [pdf](#) [bib](#) [ADS](#)
- Righini, A., Rutten, R.J., 1979: “Report from the discussion on two-dimensional spectroscopy requirements for LEST”, *Osservazioni e memorie dell’Osservatorio astrofisico di Arcetri* 106, 308-309 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1978: “Empirical NLTE analyses of solar spectral lines. II - The formation of the Ba II λ 4554 resonance line”, *Solar Phys.* 56, 237-262 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., Geuzebroek-Frederik, J.E., 1978: “Natuurkunde van zon en sterren”, *Onderwijspakket voor het middelbaar onderwijs*, Stichting De Koepel, Utrecht 1-24 [pdf](#) [bib](#)
- Rutten, R.J., 1978: “Er bovenop”, *Houtgast-nummer Fylakra* 22, 127-131 [pdf](#) [bib](#)
- Rutten, R.J., 1977: “Extreme limb observations of Ba II λ 4554 and Mg I λ 4571”, *Solar Phys.* 51, 3-24 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., 1977: “Tien jaar pulsars”, *Zenit* 4, 240-244 [pdf](#) [bib](#)
- Gurtovenko, E.A., de Jager, C., Lindenbergh, A., Rutten, R.J., 1976: “Non-thermal broadening of weak lines” in Cayrel, R., Steinberg, M. (eds.), “Physique des Mouvements dans les Atmospheres”, 331-336 [pdf](#) [bib](#) [ADS](#)
- Houtgast, J., Namba, O., Rutten, R.J., 1976: “Report of the Dutch expedition to the 1970 March 7 solar eclipse.”, *Procs. Royal Netherlands Academy of Arts and Sciences* 79, 221-231 [pdf](#) [bib](#) [ADS](#)
- Rutten, R., 1976: “Solar eclipse observations and Ba II line formation”, *PhD thesis Utrecht University* 1-120 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., van Amerongen, H.J., 1975: “A very simple digital microdensitometer-comparator” in de Jager, C., Nieuwenhuijzen, H. (eds.), “Image Processing Techniques in Astronomy”, *Astrophysics and Space Science Library* 54, 261-264 [pdf](#) [bib](#) [ADS](#) [DOI](#)

- Rutten, R.J., van Gelder, G.P., 1975: “*The Design of Vamp Software for the Measurement and Reduction of Stellar Spectrograms*” in de Jager, C., Nieuwenhuijzen, H. (eds.), “*Image Processing Techniques in Astronomy*”, Astrophysics and Space Science Library 54, 311-314 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., Hoyng, P., de Jager, C., 1974: “*On the determination of the photospheric velocity distribution from profiles of weak Fraunhofer lines*”, Solar Phys. 38, 321-336 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., 1974: “*Afplatting van de zon: toets voor theorieën over de zwaartekracht.*”, Zenit 1/11, 7-13 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1974: “*Pulsars*”, Jaarboek Koninklijke Maatschappij Diligentia 1973/1974, 135-147 [pdf](#) [bib](#)
- Rutten, R.J., 1973: “*The Solar Temperature Distribution with Latitude*”, Solar Phys. 28, 347-349 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., 1972: “*Zonneneutrino's*”, Natuur & Techniek 8, 427-437 [pdf](#) [bib](#)
- Houtgast, J., Namba, O., Rutten, R.J., Wijbenga, J.W., 1971: “*Spectral Lines from Photosphere to Chromosphere, Observed During the March 1970 Eclipse; A First Comparison with Theory*”, Solar Phys. 21, 281-285 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Houtgast, J., Namba, O., Rutten, R.J., de Graauw, T., 1970: “*Variations in Line Profiles from Photosphere to Chromosphere*”, Nature 226, 1144-1145 [pdf](#) [bib](#) [ADS](#) [DOI](#)
- Rutten, R.J., 1969: “*Neutrino's van de zon.*”, Hemel en Dampkring 67, 322-325 [pdf](#) [bib](#) [ADS](#)
- Rutten, R.J., 1970: “*Pulsars*”, Syllabus Stichting Studium Generale TH Delft 25, 126-129 [pdf](#) [bib](#)
- Rutten, R.J., 1968: “*De zonsverduistering van 12 november 1966*”, Hemel en Dampkring 66, 12-15 [pdf](#) [bib](#)
- Rutten, R.J., Wesselius, P.R., 1968: “*Een regelmatig pulserende radiobron (groene mannetjes, witte dwerg of neutronenster?)*”, Hemel en Dampkring 66, 147-149 [pdf](#) [bib](#)
- Fokker, A.D., Rutten, R.J., 1967: “*Coronal scattering of radiation from an anisotropically radiating solar radio source.*”, Bull. Astronom. Institutes Netherlands 19, 254-259 [pdf](#) [bib](#) [ADS](#)
- de Groot, T., Rutten, R.J., Titulaer, C., 1967: “*Ringvormige zonsverduistering in Griekenland*”, Hemel en Dampkring 65, 29-41 [pdf](#) [bib](#)