

Bibliography from ADS file: ludwig.bib

September 14, 2022

- Gilmore, G., Randich, S., Worley, C. C., et al., “*The Gaia-ESO Public Spectroscopic Survey: Motivation, implementation, GIRAFFE data processing, analysis, and final data products*”, 2022arXiv220805432G [ADS](#)
- Bautista, M., Magg, E., Bergemann, M., et al., “*A revisit of the standard composition of the Sun*”, 2022AAS...24035011B [ADS](#)
- Magg, E., Bergemann, M., Serenelli, A., et al., “*Observational constraints on the origin of the elements. IV. Standard composition of the Sun*”, 2022A&A...661A..140M [ADS](#)
- Bertran de Lis, S., Prieto, A., Ludwig, H. G., & Koesterke, L., “*Interpolation of spectra from 3D model atmospheres*”, 2022A&A...661A..76B [ADS](#)
- Bonifacio, P., Monaco, L., Salvadori, S., et al., “*TOPoS. VI. The metal-weak tail of the metallicity distribution functions of the Milky Way and the Gaia-Sausage-Enceladus structure*”, 2021A&A...651A..79B [ADS](#)
- Caffau, E., Bonifacio, P., Korotin, S. A., et al., “*The Gaia RVS benchmark stars. I. Chemical inventory of the first sample of evolved stars and its Rb NLTE investigation*”, 2021A&A...651A..20C [ADS](#)
- Brajša, R., Škokić, I., Sudar, D., et al., “*ALMA small-scale features in the quiet Sun and active regions*”, 2021A&A...651A..6B [ADS](#)
- Bonifacio, P., Monaco, L., Salvadori, S., et al., “*VizieR Online Data Catalog: TO stars metallicity estimate (Bonifacio+, 2021)*”, 2021yCat..36510079B [ADS](#)
- Caffau, E., Bonifacio, P., Korotin, S. A., et al., “*VizieR Online Data Catalog: Gaia RVS benchmark stars. I. (Caffau+, 2021)*”, 2021yCat..36510020C [ADS](#)
- Cunningham, T., Tremblay, P.-E., Bauer, E. B., et al., “*Horizontal spreading of planetary debris accreted by white dwarfs*”, 2021MNRAS.503..1646C [ADS](#)
- Dravins, D., Ludwig, H.-G., & Freytag, B., “*Spatially resolved spectroscopy across stellar surfaces. V. Observational prospects: toward Earth-like exoplanet detection*”, 2021A&A...649A..17D [ADS](#)
- Dravins, D., Ludwig, H.-G., & Freytag, B., “*Spatially resolved spectroscopy across stellar surfaces. IV. F, G, and K-stars: Synthetic 3D spectra at hyper-high resolution*”, 2021A&A...649A..16D [ADS](#)
- Cukanovaite, E., Tremblay, P.-E., Bergeron, P., et al., “*3D spectroscopic analysis of helium-line white dwarfs*”, 2021MNRAS.501..5274C [ADS](#)
- Lundkvist, M. S., Ludwig, H.-G., Collet, R., & Straus, T., “*The signature of granulation in a solar power spectrum as seen with CO⁵BOLD*”, 2021MNRAS.501..2512L [ADS](#)
- Philidet, J., Belkacem, K., Ludwig, H. G., Samadi, R., & Barban, C., “*Velocity-intensity asymmetry reversal of solar radial p-modes*”, 2020A&A...644A..171P [ADS](#)
- González Hernández, J. I., Rebolo, R., Pasquini, L., et al., “*The solar gravitational redshift from HARPS-LFC Moon spectra★. A test of the general theory of relativity*”, 2020A&A...643A..146G [ADS](#)
- Gonzalez Hernandez, J. I., Rebolo, R., Pasquini, L., et al., “*VizieR Online Data Catalog: The solar gravitational redshift (Gonzalez Hernandez+, 2020)*”, 2020yCat..36430146G [ADS](#)
- Xiang, M.-S., Rix, H.-W., Ting, Y.-S., et al., “*Chemically Peculiar A and F Stars with Enhanced s-process and Iron-peak Elements: Stellar Radiative Acceleration at Work*”, 2020ApJ...898...28X [ADS](#)
- Dravins, D., & Ludwig, H., “*Spatially Resolved Stellar Disk Spectra at Hyper-high Resolution: Toward Earth-like Exoplanet Detection*”, 2020AA...23613002D [ADS](#)
- Hanke, M., Hansen, C. J., Ludwig, H.-G., et al., “*A high-precision abundance analysis of the nuclear benchmark star HD 20*”, 2020A&A...635A..104H [ADS](#)
- Philidet, J., Belkacem, K., Samadi, R., Barban, C., & Ludwig, H. G., “*Modelling the asymmetries of the Sun’s radial p-mode line profiles*”, 2020A&A...635A..81P [ADS](#)
- Hanke, M., Hansen, C. J., Ludwig, H. G., et al., “*VizieR Online Data Catalog: Chemical abundance analysis of HD 20 (Hanke+, 2020)*”, 2020yCat..36350104H [ADS](#)
- Cukanovaite, E., Tremblay, P. E., Freytag, B., et al., “*Calibration of the mixing-length theory for structures of helium-dominated atmosphere white dwarfs*”, 2019MNRAS.490..1010C [ADS](#)
- Cunningham, T., Tremblay, P.-E., Freytag, B., Ludwig, H.-G., & Koester, D., “*Convective overshoot and macroscopic diffusion in pure-hydrogen-atmosphere white dwarfs*”, 2019MNRAS.488..2503C [ADS](#)
- Gonzalez Hernandez, J. I., Bonifacio, P., Caffau, E., et al., “*VizieR Online Data Catalog: Li in BPS CS22876-032 spectrum (Gonzalez Hernandez+, 2019)*”, 2019yCat..36280111G [ADS](#)
- González Hernández, J. I., Bonifacio, P., Caffau, E., et al., “*The ⁶Li/⁷Li isotopic ratio in the metal-poor binary CS22876-032*”, 2019A&A...628A..111G [ADS](#)
- Pasquini, L., Pala, A. F., Ludwig, H. G., et al., “*Masses of the Hyades white dwarfs. A gravitational redshift measurement*”, 2019A&A...627L...8P [ADS](#)
- Sonoi, T., Samadi, R., Belkacem, K., et al., “*Analysis of surface effect on solar-like oscillation frequencies using 3D hydrodynamical models*”, 2019EAS...82..253S [ADS](#)
- Vasilyev, V., Amarsi, A. M., Ludwig, H. G., & Lemasle, B., “*Two-dimensional non-LTE O I 777 nm line formation in radiation hydrodynamics simulations of Cepheid atmospheres*”, 2019A&A...624A..85V [ADS](#)
- Giribaldi, R. E., Ubaldo-Melo, M. L., Porto de Mello, G. F., et al., “*Accurate effective temperature from Hα profiles*”, 2019A&A...624A..10G [ADS](#)
- Giribaldi, R. E., Ubaldo-Melo, M. L., Porto de Mello, G. F., et al., “*VizieR Online Data Catalog: Normalized Halpha line profiles of FGK stars (Giribaldi+, 2019)*”, 2019yCat..36240010G [ADS](#)
- Christlieb, N., Battistini, C., Bonifacio, P., et al., “*4MOST Consortium Survey 2: The Milky Way Halo High-Resolution Survey*”, 2019Msngr.175...26C [ADS](#)
- de Jong, R. S., Agertz, O., Berbel, A. A., et al., “*4MOST: Project overview and information for the First Call for Proposals*”, 2019Msngr.175...3D [ADS](#)
- Leão, I. C., Pasquini, L., Ludwig, H. G., & de Medeiros, J. R., “*Spectroscopic and astrometric radial velocities: Hyades as a benchmark*”, 2019MNRAS.483..5026L [ADS](#)
- Caffau, E., Bonifacio, P., Oliva, E., et al., “*Systematic investigation of chemical abundances derived using IR spectra obtained with GIANO*”, 2019A&A...622A..68C [ADS](#)
- Sonoi, T., Ludwig, H. G., Dupret, M. A., et al., “*Calibration of mixing-length parameter α for MLT and FST models by matching with CO⁵BOLD models*”, 2019A&A...621A..84S [ADS](#)
- Cukanovaite, E., Tremblay, P. E., Freytag, B., Ludwig, H. G., & Bergeron, P., “*Pure-helium 3D model atmospheres of white dwarfs*”, 2018MNRAS.481..1522C [ADS](#)
- François, P., Caffau, E., Bonifacio, P., et al., “*TOPoS. V. Abundance ratios in a sample of very metal-poor turn-off stars*”, 2018A&A...620A..187F [ADS](#)
- Manchon, L., Belkacem, K., Samadi, R., et al., “*Influence of metallicity on the near-surface effect on oscillation frequencies*”, 2018A&A...620A..107M [ADS](#)
- François, P., Caffau, E., Bonifacio, P., et al., “*VizieR Online Data Catalog: Very metal-poor turn-off stars abundances (Francois+, 2018)*”, 2018yCat..36200187F [ADS](#)
- Manchon, L., Belkacem, K., Samadi, R., et al., “*A physically-grounded relation between the metallicity and the surface term affecting stellar oscillation frequencies*”, 2018phos.confE..36M [ADS](#)
- Sonoi, T., Ludwig, H. G., Dupret, M. A., et al., “*Calibration of the mixing length of the MLT and FST models using 3D hydrodynamical models*”, 2018phos.confE..27S [ADS](#)
- Dravins, D., Gustavsson, M., & Ludwig, H.-G., “*Spatially resolved spectroscopy across stellar surfaces. III. Photospheric Fe I lines across HD 189733A (K1 V)*”, 2018A&A...616A..144D [ADS](#)
- Černiauskas, A., Kučinskas, A., Klevas, J., et al., “*Abundance of zinc in the red giants of Galactic globular cluster 47 Tucanae*”, 2018A&A...616A..142C [ADS](#)
- Steffen, M., Gallagher, A. J., Caffau, E., Bonifacio, P., & Ludwig, H. G., “*Carbon-enhanced metal-poor 3D model atmospheres*”, 2018IAUS..334..364S [ADS](#)
- Černiauskas, A., Kučinskas, A., Klevas, J., et al., “*Abundances of Mg and K in the atmospheres of turn-off stars in Galactic globular cluster 47 Tucanae*”, 2018A&A...615A..173C [ADS](#)
- Brajša, R., Sudar, D., Škokić, I., et al., “*Observations of the solar chromosphere with ALMA and comparison with theoretical models*”, 2018csss.confE..37B [ADS](#)
- Vasilyev, V., Ludwig, H.-G., Freytag, B., Lemasle, B., & Marconi, M., “*Spectroscopic Properties of a Two-Dimensional Cepheid Model*”, 2018pas6.conf..222V [ADS](#)
- Kučinskas, A., Klevas, J., Ludwig, H. G., et al., “*Using the CIFIST grid of CO⁵BOLD 3D model atmospheres to study the effects of stellar granulation on photometric colours. II. The role of convection across the H-R diagram*”, 2018A&A...613A..24K [ADS](#)
- Bonifacio, P., Caffau, E., Spite, M., et al., “*TOPoS. IV. Chemical abundances from high-resolution observations of seven extremely metal-poor stars*”, 2018A&A...612A..65B [ADS](#)
- Bonifacio, P., Caffau, E., Ludwig, H. G., et al., “*Using the CIFIST grid of CO⁵BOLD 3D model atmospheres to study the effects of stellar granulation on photometric colours. I. Grids of 3D corrections in the UBVRI, 2MASS, HIPPARCOS, Gaia, and SDSS systems*”, 2018A&A...611A..68B [ADS](#)
- Vasilyev, V., Ludwig, H. G., Freytag, B., Lemasle, B., & Marconi, M., “*Spectroscopic properties of a two-dimensional time-dependent Cepheid model. II. Determination of stellar parameters and abundances*”, 2018A&A...611A..19V [ADS](#)

- Bonifacio, P., Caffau, E., Ludwig, H. G., et al., “*VizieR Online Data Catalog: 3D correction in 5 photometric systems (Bonifacio+, 2018)*”, 2018yCat..36110068B [ADS](#)
- Klebas, J., Kučinskas, A., Wedemeyer, S., & Ludwig, H. G., “*Impact of magnetic fields on the structure of convective atmospheres of red giant stars*”, 2018CoSkA..48..280K [ADS](#)
- Brajša, R., Kuhar, M., Benz, A. O., et al., “*A comparison of solar ALMA observations and model based predictions of the brightness temperature*”, 2018CEAB..42...1B [ADS](#)
- Vasilyev, V., Ludwig, H. G., Freytag, B., Lemasle, B., & Marconi, M., “*Spectroscopic properties of a two-dimensional time-dependent Cepheid model. I. Description and validation of the model*”, 2017A&A..606A..140V [ADS](#)
- Wedemeyer, S., Kučinskas, A., Klebas, J., & Ludwig, H.-G., “*Three-dimensional hydrodynamical CO⁵BOLD model atmospheres of red giant stars. VI. First chromosphere model of a late-type giant*”, 2017A&A..606A..26W [ADS](#)
- Dravins, D., Ludwig, H. G., Dahlén, E., Gustavsson, M., & Pazira, H., “*Stellar atmospheres behind transiting exoplanets*”, 2017EPSC..11...21D [ADS](#)
- Dravins, D., Ludwig, H.-G., Dahlén, E., & Pazira, H., “*Spatially resolved spectroscopy across stellar surfaces. II. High-resolution spectra across HD 209458 (G0 V)*”, 2017A&A..605A..91D [ADS](#)
- Dravins, D., Ludwig, H.-G., Dahlén, E., & Pazira, H., “*Spatially resolved spectroscopy across stellar surfaces. I. Using exoplanet transits to analyze 3D stellar atmospheres*”, 2017A&A..605A..90D [ADS](#)
- Duffau, S., Caffau, E., Sbordone, L., et al., “*The Gaia-ESO Survey: Galactic evolution of sulphur and zinc*”, 2017A&A..604A..128D [ADS](#)
- Duffau, S., Caffau, E., Sbordone, L., et al., “*VizieR Online Data Catalog: S abundances for 1301 stars from GES (Duffau+, 2017)*”, 2017yCat..36040128D [ADS](#)
- Thygesen, A. O., Kirby, E. N., Gallagher, A. J., et al., “*An Investigation of the Formation and Line Properties of MgH in 3D Hydrodynamical Model Stellar Atmospheres*”, 2017ApJ...843..144T [ADS](#)
- Cerniauskas, A., Kučinskas, A., Klebas, J., et al., “*Abundances of Na, Mg, and K in the atmospheres of red giant branch stars of Galactic globular cluster 47 Tucanae*”, 2017A&A..604A..35C [ADS](#)
- Sonoi, T., Samadi, R., Belkacem, K., et al., “*Computation of eigenfrequencies for equilibrium models including turbulent pressure*”, 2017A&A..600A..31S [ADS](#)
- Cerniauskas, A., Kucinskas, A., Klebas, J., et al., “*VizieR Online Data Catalog: NGC104 RGB Na, Mg, and K abundances (Cerniauskas+, 2017)*”, 2017yCat..36040035C [ADS](#)
- Prakapavičius, D., Kučinskas, A., Dobrovolskas, V., et al., “*Three-dimensional hydrodynamical CO⁵BOLD model atmospheres of red giant stars. V. Oxygen abundance in the metal-poor giant HD 122563 from OH UV lines*”, 2017A&A..599A..128P [ADS](#)
- Gallagher, A. J., Caffau, E., Bonifacio, P., et al., “*An in-depth spectroscopic examination of molecular bands from 3D hydrodynamical model atmospheres. II. Carbon-enhanced metal-poor 3D model atmospheres*”, 2017A&A..598L..10G [ADS](#)
- Tremblay, P. E., Ludwig, H. G., Freytag, B., Koester, D., & Fontaine, G., “*Convective overshoot and metal accretion onto white dwarfs*”, 2017MmSAI..88..104T [ADS](#)
- Klebas, J., Wedemeyer, S., Kučinskas, A., & Ludwig, H. G., “*3D hydrodynamical COBOLD simulations of a chromosphere of a red giant*”, 2017MmSAI..88..100K [ADS](#)
- Bonifacio, P., Caffau, E., Ludwig, H. G., et al., “*Using CO5BOLD models to predict the effects of granulation on colours*”, 2017MmSAI..88..90B [ADS](#)
- Gallagher, A. J., Steffen, M., Caffau, E., et al., “*Enhanced methods for computing spectra from CO5BOLD models using Linfor3D. Molecular bands in metal-poor stars*”, 2017MmSAI..88..82G [ADS](#)
- Prakapavičius, D., Kučinskas, A., Dobrovolskas, V., et al., “*The influence of convection on OH UV line formation in the atmosphere of the metal-poor red giant HD 122563*”, 2017MmSAI..88..77P [ADS](#)
- Caffau, E., Malherbe, J. M., Steffen, M., Ludwig, H. G., & Mott, A., “*Investigation of the solar centre-to-limb variation of oxygen and lithium spectral features*”, 2017MmSAI..88..45C [ADS](#)
- Caffau, E., Bonifacio, P., Spite, M., et al., “*TOPoS. III. An ultra iron-poor multiple CEMP system*”, 2016A&A..595L..6C [ADS](#)
- Ludwig, H. G. & Steffen, M., “*Hydrodynamical model atmospheres: Their impact on stellar spectroscopy and asteroseismology of late-type stars*”, 2016AN....337..844L [ADS](#)
- Gallagher, A. J., Caffau, E., Bonifacio, P., et al., “*An in-depth spectroscopic examination of molecular bands from 3D hydrodynamical model atmospheres. I. Formation of the G-band in metal-poor dwarf stars*”, 2016A&A..593A..48G [ADS](#)
- Dravins, D., Ludwig, H.-G., Dahlén, E., & Pazira, H., “*Exoplanet Transits Enable High-Resolution Spectroscopy Across Spatially Resolved Stellar Surfaces*”, 2016csss.confE..66D [ADS](#)
- Gustavsson, M., Dravins, D., & Ludwig, H.-G., “*Spatially Resolved Spectroscopy Across HD189733 (K1V) Using Exoplanet Transits*”, 2016csss.confE..53G [ADS](#)
- Hansen, C. J., Rich, R. M., Koch, A., et al., “*Chemical abundances in a high-velocity RR Lyrae star near the bulge*”, 2016A&A..590A..39H [ADS](#)
- Wedemeyer, S., Bastian, T., Brajša, R., et al., “*Solar Science with the Atacama Large Millimeter/Submillimeter Array-A New View of Our Sun*”, 2016SSRV..200...1W [ADS](#)
- Thygesen, A. O., Sbordone, L., Ludwig, H. G., et al., “*The chemical composition of red giants in 47 Tucanae. II. Magnesium isotopes and pollution scenarios*”, 2016A&A..588A..66T [ADS](#)
- Klebas, J., Kučinskas, A., Steffen, M., Caffau, E., & Ludwig, H. G., “*Lithium spectral line formation in stellar atmospheres. The impact of convection and NLTE effects*”, 2016A&A..586A..156K [ADS](#)
- Wedemeyer, S., & Ludwig, H.-G., “*Synthetic activity indicators for M-type dwarf stars*”, 2016IAUS..320..303W [ADS](#)
- Tremblay, P.-E., Fontaine, G., Ludwig, H.-G., Gianninas, A., & Kilic, M., “*New insights on pulsating white dwarfs from 3D radiation-hydrodynamical simulations*”, 2016IAUFM..29B..667T [ADS](#)
- Caffau, E., Andrievsky, S., Korotin, S., et al., “*GIANO Y-band spectroscopy of dwarf stars: Phosphorus, sulphur, and strontium abundances*”, 2016A&A..585A..16C [ADS](#)
- Ludwig, H.-G., “*Book Review: Astronomical Spectroscopy - An Introduction to the Atomic and Molecular Physics of Astronomical Spectra*”, 2015JAI....480001L [ADS](#)
- Sonoi, T., Samadi, R., Belkacem, K., et al., “*Surface-effect corrections for solar-like oscillations using 3D hydrodynamical simulations. I. Adiabatic oscillations*”, 2015A&A..583A..112S [ADS](#)
- Steffen, M., Prakapavičius, D., Caffau, E., et al., “*The photospheric solar oxygen project. IV. 3D-NLTE investigation of the 777 nm triplet lines*”, 2015A&A..583A..57S [ADS](#)
- Tremblay, P. E., Fontaine, G., Freytag, B., et al., “*On the Evolution of Magnetic White Dwarfs*”, 2015ApJ...812...19T [ADS](#)
- Ludwig, H., Ruffini, R., & Xue, S. S., “*Collective electronic pulsation around giant nuclei in the Thomas-Fermi model*”, 2015NuPhA.941...1L [ADS](#)
- Hansen, C. J., Ludwig, H. G., Seifert, W., et al., “*Stellar science from a blue wavelength range. A possible design for the blue arm of 4MOST*”, 2015AN....336..665H [ADS](#)
- Wedemeyer, S., Ludwig, H.-G., Hauschildt, P., & De Gennaro Aquino, I., “*Synthetic activity indicators for M-type dwarf stars*”, 2015IAUGA..2255174W [ADS](#)
- Tremblay, P.-E., Fontaine, G., & Ludwig, H.-G., “*New Insights on Pulsating White Dwarfs from 3D Radiation-Hydrodynamical Simulations*”, 2015IAUGA..2253532T [ADS](#)
- Dravins, D., Ludwig, H.-G., & Dahlén, E., “*Stellar Spectroscopy during Exoplanet Transits: Revealing structures across stellar surfaces*”, 2015IAUGA..2233688D [ADS](#)
- Tremblay, P. E., Gianninas, A., Kilic, M., et al., “*3D Model Atmospheres for Extremely Low-mass White Dwarfs*”, 2015ApJ...809..148T [ADS](#)
- Gallagher, A. J., Ludwig, H. G., Ryan, S. G., & Aoki, W., “*A three-dimensional hydrodynamical line profile analysis of iron lines and barium isotopes in HD 140283*”, 2015A&A..579A..94G [ADS](#)
- Caffau, E., Ludwig, H. G., Steffen, M., et al., “*The photospheric solar oxygen project. III. Investigation of the centre-to-limb variation of the 630 nm [O I]-[Ni I] blend*”, 2015A&A..579A..88C [ADS](#)
- Bonifacio, P., Caffau, E., Spite, M., et al., “*TOPoS. II. On the bimodality of carbon abundance in CEMP stars Implications on the early chemical evolution of galaxies*”, 2015A&A..579A..28B [ADS](#)
- Bonifacio, P., Caffau, E., Spite, M., et al., “*VizieR Online Data Catalog: Abundances of 3 CEMP stars (Bonifacio+, 2015)*”, 2015yCat..35790028B [ADS](#)
- Tremblay, P. E., Ludwig, H. G., Freytag, B., et al., “*Calibration of the Mixing-Length Free Parameter for White Dwarf Structures*”, 2015ASPC..493...89T [ADS](#)
- Dobrovolskas, V., Kučinskas, A., Bonifacio, P., et al., “*Three-dimensional hydrodynamical CO⁵BOLD model atmospheres of red giant stars. IV. Oxygen diagnostics in extremely metal-poor red giants with infrared OH lines*”, 2015A&A..576A..128D [ADS](#)
- Tremblay, P. E., Ludwig, H. G., Freytag, B., et al., “*Calibration of the Mixing-length Theory for Convective White Dwarf Envelopes*”, 2015ApJ...799..142T [ADS](#)
- Dravins, D., Ludwig, H.-G., Dahlén, E., & Pazira, H., “*Stellar Spectroscopy During Exoplanet Transits: Dissecting Fine Structure Across Stellar Surfaces*”, 2015csss...18..853D [ADS](#)
- Kucinskas, A., Dobrovolskas, V., Bonifacio, P., et al., “*Oxygen in the Early Galaxy: OH Lines as Tracers of Oxygen Abundance in Extremely Metal-Poor Giant Stars*”, 2015csss...18..327K [ADS](#)
- Ludwig, H., Ruffini, R., & Xue, S. S., “*Nucleus Driven Electronic Pulsation*”, 2014arXiv1412.5455L [ADS](#)

- Thygesen, A. O., Sbordone, L., Andrievsky, S., et al., “*The chemical composition of red giants in 47 Tucanae. I. Fundamental parameters and chemical abundance patterns*”, 2014A&A...572A..108T [ADS](#)
- Smiljanic, R., Korn, A. J., Bergemann, M., et al., “*The Gaia-ESO Survey: The analysis of high-resolution UVES spectra of FGK-type stars*”, 2014A&A...570A..122S [ADS](#)
- Thygesen, A. O., Sbordone, L., Andrievsky, S., et al., “*VizieR Online Data Catalog: 47 Tuc red giants chemical composition (Thygesen+, 2014)*”, 2014yCat..35720108T [ADS](#)
- Caffau, E., Monaco, L., Spite, M., et al., “*Clues on the Galactic evolution of sulphur from star clusters*”, 2014A&A...568A..29C [ADS](#)
- Dobrovolskas, V., Kučinskas, A., Bonifacio, P., et al., “*VizieR Online Data Catalog: Abundances of 47 Tuc turn-off stars (Dobrovolskas+, 2014)*”, 2014yCat..35650121D [ADS](#)
- de Jong, R. S., Barden, S., Bellido-Tirado, O., et al., “*4MOST: 4-metre Multi-Object Spectroscopic Telescope*”, 2014SPIE.9147E..0MD [ADS](#)
- Tremblay, P. E., Leggett, S. K., Lodieu, N., et al., “*White Dwarfs in the UKIRT Infrared Deep Sky Survey Data Release 9*”, 2014ApJ...788..103T [ADS](#)
- Tremblay, P. E., Leggett, S. K., Lodieu, N., et al., “*White Dwarfs In The UKIRT Infrared Deep Sky Survey Data Release 9*”, 2014arXiv1405.0266T [ADS](#)
- Dobrovolskas, V., Kučinskas, A., Bonifacio, P., et al., “*Abundances of lithium, oxygen, and sodium in the turn-off stars of Galactic globular cluster 47 Tucanae*”, 2014A&A...565A..121D [ADS](#)
- Caffau, E., Gallagher, A., Bonifacio, P., et al., “*The first generations of stars*”, 2014nic..confE..53C [ADS](#)
- Gonzalez-Hernandez, J., Caffau, E., Ludwig, H. G., et al., “*6Li/7Li isotopic ratio in the most metal-poor binary CS22876-032*”, 2014nic..confE..23G [ADS](#)
- Caffau, E., Sbordone, L., Bonifacio, P., et al., “*TOPoS: chemical study of extremely metal-poor stars*”, 2014MmSAI..85..222C [ADS](#)
- Ludwig, H. G., Steffen, M., Bonifacio, P., et al., “*3D modeling of stellar atmospheres and the impact on the understanding of the reliability of elemental abundances in stars as tracers of galactic chemical evolution*”, 2014IAUS..298..343L [ADS](#)
- Caffau, E., Steffen, M., Bonifacio, P., et al., “*Isotope spectroscopy*”, 2014AN...335..59C [ADS](#)
- Tremblay, P.-E., Ludwig, H., Steffen, M., & Freytag, B., “*3D Model Atmospheres of White Dwarfs*”, 2014AAS...22331507T [ADS](#)
- Belkacem, K., Samadi, R., Mosser, B., Goupil, M. J., & Ludwig, H. G., “*On the Seismic Scaling Relations $\Delta v - \rho$ and $v_{\text{max}} - v_c$* ”, 2013ASPC..479..61B [ADS](#)
- Caffau, E., Bonifacio, P., Sbordone, L., et al., “*TOPoS. I. Survey design and analysis of the first sample*”, 2013A&A...560A..71C [ADS](#)
- Caffau, E., Bonifacio, P., François, P., et al., “*X-shooter GTO: evidence for a population of extremely metal-poor, alpha-poor stars*”, 2013A&A...560A..15C [ADS](#)
- Tremblay, P. E., Ludwig, H. G., Steffen, M., & Freytag, B., “*Spectroscopic analysis of DA white dwarfs with 3D model atmospheres*”, 2013A&A...559A..104T [ADS](#)
- Dobrovolskas, V., Kučinskas, A., Steffen, M., et al., “*Three-dimensional hydrodynamical CO⁵BOLD model atmospheres of red giant stars. III. Line formation in the atmospheres of giants located close to the base of the red giant branch*”, 2013A&A...559A..102D [ADS](#)
- Samadi, R., Belkacem, K., Ludwig, H. G., et al., “*Stellar granulation as seen in disk-integrated intensity. II. Theoretical scaling relations compared with observations*”, 2013A&A...559A..40S [ADS](#)
- Samadi, R., Belkacem, K., & Ludwig, H. G., “*Stellar granulation as seen in disk-integrated intensity. I. Simplified theoretical modeling*”, 2013A&A...559A..39S [ADS](#)
- Tremblay, P. E., Ludwig, H. G., Freytag, B., Steffen, M., & Caffau, E., “*Granulation properties of giants, dwarfs, and white dwarfs from the CIFIST 3D model atmosphere grid*”, 2013A&A...557A..7T [ADS](#)
- Caffau, E., Ludwig, H. G., Malherbe, J. M., et al., “*The photospheric solar oxygen project. II. Non-concordance of the oxygen abundance derived from two forbidden lines*”, 2013A&A...554A..126C [ADS](#)
- Spite, M., Caffau, E., Bonifacio, P., et al., “*Carbon-enhanced metal-poor stars: the most pristine objects?*”, 2013A&A...552A..107S [ADS](#)
- Tremblay, P. E., Ludwig, H. G., Steffen, M., & Freytag, B., “*Pure-hydrogen 3D model atmospheres of cool white dwarfs*”, 2013A&A...552A..13T [ADS](#)
- Ayres, T. R., Lyons, J. R., Ludwig, H. G., Caffau, E., & Wedemeyer-Böhm, S., “*Isotopic CO in the Solar Photosphere, Viewed Through the Lens of 3D Spectrum Synthesis*”, 2013LPI....44.3038A [ADS](#)
- Tremblay, P. E. & Ludwig, H. G., “*The potential of 3D radiation-hydrodynamics models for white dwarf asteroseismology*”, 2013EPJWC..4305008T [ADS](#)
- Samadi, R., Belkacem, K., Dupret, M. A., et al., “*Amplitudes of solar-like oscillations in red giants: Departures from the quasi-adiabatic approximation*”, 2013EPJWC..4303008S [ADS](#)
- Li, H. N., Ludwig, H. G., Caffau, E., Christlieb, N., & Zhao, G., “*Fluorine Abundances of Galactic Low-metallicity Giants*”, 2013ApJ...765...51L [ADS](#)
- Ayres, T. R., Lyons, J. R., Ludwig, H. G., Caffau, E., & Wedemeyer-Böhm, S., “*Is the Sun Lighter than the Earth? Isotopic CO in the Photosphere, Viewed through the Lens of Three-dimensional Spectrum Synthesis*”, 2013ApJ...765...46A [ADS](#)
- Caffau, E., Koch, A., Sbordone, L., et al., “*Velocity and abundance precisions for future high-resolution spectroscopic surveys: A study for 4MOST*”, 2013AN...334..197C [ADS](#)
- Wedemeyer, S., Ludwig, H. G., & Steiner, O., “*Three-dimensional magnetohydrodynamic simulations of M-dwarf chromospheres*”, 2013AN...334..137W [ADS](#)
- Allende Prieto, C., Koesterke, L., Ludwig, H. G., Freytag, B., & Caffau, E., “*Convective line shifts for the Gaia RVS from the CIFIST 3D model atmosphere grid*”, 2013A&A...550A..103A [ADS](#)
- Bonifacio, P., Caffau, E., Ludwig, H. G., et al., “*Molecular bands in extremely metal-poor stars: Granulation effects*”, 2013MSAIS..24..138B [ADS](#)
- Mashonkina, L., Ludwig, H. G., Korn, A., Sitnova, T., & Caffau, E., “*Signs of atmospheric inhomogeneities in cool stars from 1D-NLTE analysis of iron lines*”, 2013MSAIS..24..120M [ADS](#)
- Prakapavičius, D., Steffen, M., Kučinskas, A., et al., “*Oxygen spectral line synthesis: 3D non-LTE with CO⁵BOLD hydrodynamical model atmospheres.*”, 2013MSAIS..24..111P [ADS](#)
- Ayres, T. R., Lyons, J. R., Ludwig, H. G., Caffau, E., & Wedemeyer-Böhm, S., “*Solar carbon monoxide: poster child for 3D effects*”, 2013MSAIS..24..85A [ADS](#)
- Kučinskas, A., Ludwig, H. G., Steffen, M., et al., “*The influence of convection on the atmospheric structures and observable properties of red giant stars.*”, 2013MSAIS..24..68K [ADS](#)
- Tremblay, P. E., Ludwig, H. G., Freytag, B., & Steffen, M., “*Granulation in DA white dwarfs from CO⁵BOLD 3D model atmospheres*”, 2013MSAIS..24..61T [ADS](#)
- Ludwig, H. G., & Steffen, M., “*Opacities in CO⁵BOLD*”, 2013MSAIS..24..53L [ADS](#)
- Steffen, M., Caffau, E., & Ludwig, H. G., “*Micro- and macroturbulence predictions from CO⁵BOLD 3D stellar atmospheres.*”, 2013MSAIS..24..37S [ADS](#)
- Tremblay, P. E., Ludwig, H. G., Steffen, M., & Freytag, B., “*3D Model Atmospheres of DA White Dwarfs*”, 2013ASPC..469..155T [ADS](#)
- Tremblay, P. E., Schilbach, E., Röser, S., et al., “*White Dwarfs Escaping From the Hyades*”, 2013ASPC..469..105T [ADS](#)
- Kučinskas, A., Steffen, M., Ludwig, H. G., et al., “*Three-dimensional hydrodynamical CO⁵BOLD model atmospheres of red giant stars. II. Spectral line formation in the atmosphere of a giant located near the RGB tip*”, 2013A&A...549A..14K [ADS](#)
- Ludwig, H. G., & Kučinskas, A., “*Three-dimensional hydrodynamical CO⁵BOLD model atmospheres of red giant stars. I. Atmospheric structure of a giant located near the RGB tip*”, 2012A&A...547A..118L [ADS](#)
- Tremblay, P. E., Schilbach, E., Röser, S., et al., “*Spectroscopic and photometric studies of white dwarfs in the Hyades*”, 2012A&A...547A..99T [ADS](#)
- de Jong, R. S., Bellido-Tirado, O., Chiappini, C., et al., “*4MOST: 4-metre multi-object spectroscopic telescope*”, 2012SPIE.8446E..0TD [ADS](#)
- Sbordone, L., Bonifacio, P., Caffau, E., & Ludwig, H. G., “*Detailed Abundances in Extremely Metal Poor Dwarf Stars Extracted from SDSS*”, 2012ASPC..458..69S [ADS](#)
- Samadi, R., Belkacem, K., Dupret, M. A., et al., “*Amplitudes of solar-like oscillations in red giant stars. Evidence for non-adiabatic effects using CoRoT observations*”, 2012A&A...543A..120S [ADS](#)
- Bonifacio, P., Sbordone, L., Caffau, E., et al., “*Chemical abundances of distant extremely metal-poor unevolved stars*”, 2012A&A...542A..87B [ADS](#)
- Caffau, E., Bonifacio, P., François, P., et al., “*A primordial star in the heart of the Lion*”, 2012A&A...542A..51C [ADS](#)
- Monaco, L., Villanova, S., Bonifacio, P., et al., “*VizieR Online Data Catalog: Li and Na in globular cluster M4 (Monaco+, 2012)*”, 2012yCat..35390157M [ADS](#)
- Spite, M., Andrievsky, S. M., Spite, F., et al., “*NLTE determination of the calcium abundance and 3D corrections in extremely metal-poor stars*”, 2012A&A...541A..143S [ADS](#)
- Bonifacio, P., Caffau, E., Ludwig, H. G., & Steffen, M., “*LTE Model Atmospheres: MARCS, ATLAS and CO5BOLD*”, 2012IAUS..282..213B [ADS](#)
- Dobrovolskas, V., Kučinskas, A., Andrievsky, S. M., et al., “*Barium abundance in red giants of NGC 6752. Non-local thermodynamic equilibrium and three-dimensional effects*”, 2012A&A...540A..128D [ADS](#)
- Spite, M., Andrievsky, S. M., Spite, F., et al., “*VizieR Online Data Catalog: NLTE Corrections of the Ca lines (Spite+, 2012)*”, 2012yCat..35410143S [ADS](#)
- Gilmore, G., Randich, S., Asplund, M., et al., “*The Gaia-ESO Public Spectroscopic Survey*”, 2012Msgr.147..25G [ADS](#)

- Stasińska, G., Prantzos, N., Meynet, G., et al., "Appendix A : The atomic physics of oxygen", 2012EAS....54..319S [ADS](#)
 Stasińska, G., Prantzos, N., Meynet, G., et al., "Chapter 4 : The Evolution of Oxygen in Galaxies", 2012EAS....54..255S [ADS](#)
 Stasińska, G., Prantzos, N., Meynet, G., et al., "Chapter 3 : Oxygen Production and Destruction", 2012EAS....54..187S [ADS](#)
 Stasińska, G., Prantzos, N., Meynet, G., et al., "Chapter 2 : A Panorama of Oxygen in the Universe", 2012EAS....54..65S [ADS](#)
 Stasińska, G., Prantzos, N., Meynet, G., et al., "Chapter 1 : How to Derive Oxygen Abundances", 2012EAS....54..3S [ADS](#)
 Stasińska, G., Prantzos, N., Meynet, G., et al., "Foreword", 2012EAS....54..1S [ADS](#)
 , "Oxygen in the Universe", 2012EAS....54.....S [ADS](#)
 Monaco, L., Villanova, S., Bonifacio, P., et al., "Lithium and sodium in the globular cluster <ASTROBJ>M 4</ASTROBJ>. Detection of a Li-rich dwarf star: preservation or pollution?", 2012A&A...539A.157M [ADS](#)
 Beeck, B., Collet, R., Steffen, M., et al., "Simulations of the solar near-surface layers with the CO5BOLD, MURaM, and Stagger codes", 2012A&A...539A.121B [ADS](#)
 Freytag, B., Steffen, M., Ludwig, H. G., et al., "Simulations of stellar convection with CO5BOLD", 2012JCoPh.231..919F [ADS](#)
 Steffen, M., Cayrel, R., Caffau, E., et al., " ^{6}Li detection in metal-poor stars: can 3D model atmospheres solve the second lithium problem?", 2012MSAIS..22..152S [ADS](#)
 Ludwig, H.-G. & Steffen, M., "3D Model Atmospheres of Red Giant Stars", 2012ASSP...26..125L [ADS](#)
 Caffau, E., Bonifacio, P., François, P., et al., "X-shooter Finds an Extremely Primitive Star", 2011Msngr.146..28C [ADS](#)
 Freytag, B., Allard, F., Homeier, D., Ludwig, H., & Steffen, M., "Radiation Hydrodynamics Simulations of Dust Clouds in the Atmospheres of Substellar Objects", 2011ASPC..450..125F [ADS](#)
 Freytag, B., Allard, F., Ludwig, H. G., Homeier, D., & Steffen, M., "Radiation-Hydrodynamics Simulations of Cool Stellar and Substellar Atmospheres", 2011ASPC..448..855F [ADS](#)
 Caffau, E., Bonifacio, P., François, P., et al., "X-Shooter GTO: chemical analysis of a sample of EMP candidates", 2011A&A...534A..4C [ADS](#)
 Bonifacio, P., Caffau, E., Ludwig, H.-G., & Steffen, M., "LTE model atmospheres MARCS, ATLAS and CO5BOLD", 2011arXiv1109.0717B [ADS](#)
 Caffau, E., Bonifacio, P., François, P., et al., "An extremely primitive star in the Galactic halo", 2011Natur.477..67C [ADS](#)
 Chiavassa, A., Pasquato, E., Jorissen, A., et al., "Photocentric and Photometric Variability of Red Supergiant Stars", 2011ASPC..445..169C [ADS](#)
 Tremblay, P. E., Ludwig, H. G., Steffen, M., Bergeron, P., & Freytag, B., "Solution to the problem of the surface gravity distribution of cool DA white dwarfs from improved 3D model atmospheres", 2011A&A...531L..19T [ADS](#)
 Chiavassa, A., Pasquato, E., Jorissen, A., et al., "Radiative hydrodynamic simulations of red supergiant stars. III. Spectro-photocentric variability, photometric variability, and consequences on Gaia measurements", 2011A&A...528A.120C [ADS](#)
 Spite, M., Caffau, E., Andrievsky, S. M., et al., "First stars. XIV. Sulfur abundances in extremely metal-poor stars", 2011A&A...528A..95 [ADS](#)
 Bonifacio, P., Caffau, E., François, P., et al., "Extremely metal-poor stars in SDSS fields", 2011AN....332..251B [ADS](#)
 Caffau, E., Ludwig, H. G., Steffen, M., Freytag, B., & Bonifacio, P., "Solar Chemical Abundances Determined with a CO5BOLD 3D Model Atmosphere", 2011SoPh..268..255C [ADS](#)
 Caffau, E., Faraggiana, R., Ludwig, H. G., Bonifacio, P., & Steffen, M., "The solar photospheric abundance of zirconium", 2011AN....332..128C [ADS](#)
 Pasquini, L., Melo, C., Chavero, C., et al., "Gravitational redshifts in main-sequence and giant stars", 2011A&A...526A.127P [ADS](#)
 Pasquini, L., Melo, C., Chavero, C., et al., "VizieR Online Data Catalog: Velocities of M67 main-sequence and giant stars (Pasquini+, 2011)", 2011yCat..35260127P [ADS](#)
 Chiavassa, A., Pasquato, E., Jorissen, A., et al., "Photocentric variability of red supergiant stars and consequences on Gaia measurements", 2010sf2a.conf..339C [ADS](#)
 Karoff, C., Chaplin, W. J., Appourchaux, T., et al., "Asteroseismology of solar-type stars with Kepler I: Data analysis", 2010AN....331..972K [ADS](#)
 Bonifacio, P., Caffau, E., & Ludwig, H. G., "Cu I resonance lines in turn-off stars of NGC 6752 and NGC 6397. Effects of granulation from CO5BOLD models", 2010A&A...524A..96B [ADS](#)
 Freytag, B., Steffen, M., Wedemeyer-Böhm, S., et al.: 2010, CO5BOLD: COnservative COde for the COmputation of COmpressible COnvection in a BOx of L Dimensions with l=2,3, Astrophysics Source Code Library, record ascl:1011.014 2010ascl.soft11014F [ADS](#)
 Nagendra, K. N., Bonifacio, P., & Ludwig, H. G., "Joint Discussion 10: 3D views on cool stellar atmospheres - theory meets observation", 2010HiA....15..331N [ADS](#)
 Sbordone, L., Bonifacio, P., Caffau, E., et al., "The metal-poor end of the Spite plateau. I. Stellar parameters, metallicities, and lithium abundances", 2010A&A...522A..26S [ADS](#)
 González Hernández, J. I., Bonifacio, P., Ludwig, H. G., et al., "Galactic evolution of oxygen. OH lines in 3D hydrodynamical model atmospheres", 2010A&A...519A..46G [ADS](#)
 Sbordone, L., Bonifacio, P., Caffau, E., et al., "VizieR Online Data Catalog: Fe Abundances in metal-poor stars (Sbordone+ 2010)", 2010yCat..35220026S [ADS](#)
 Caffau, E., Sbordone, L., Ludwig, H. G., Bonifacio, P., & Spite, M., "Sulphur abundances in halo stars from multiplet 3 at 1045 nm", 2010AN....331..725C [ADS](#)
 Asplund, M., Puls, J., Landstreet, J., et al., "Commission 36: Theory of Stellar Atmospheres", 2010IAUTB..27..197A [ADS](#)
 Caffau, E., Ludwig, H. G., Bonifacio, P., et al., "The solar photospheric abundance of carbon. Analysis of atomic carbon lines with the CO5BOLD solar model", 2010A&A...514A..92C [ADS](#)
 Sbordone, L., Bonifacio, P., Caffau, E., et al., "The metal-poor end of the Spite plateau: gravity sensitivity of the H α wings fitting.", 2010IAUS..268..355S [ADS](#)
 Caffau, E., Ludwig, H.-G., Steffen, M., & Bonifacio, P., "A 3D-NLTE study of the 670 nm solar lithium feature", 2010IAUS..268..329C [ADS](#)
 González Hernández, J. I., Bonifacio, P., Caffau, E., et al., "Main-sequence and sub-giant stars in the globular cluster NGC 6397: The complex evolution of the lithium abundance", 2010IAUS..268..257G [ADS](#)
 Steffen, M., Cayrel, R., Bonifacio, P., Ludwig, H. G., & Caffau, E., "Convection and ^{6}Li in the atmospheres of metal-poor halo stars", 2010IAUS..268..215S [ADS](#)
 Chaplin, W. J., Appourchaux, T., Elsworth, Y., et al., "The Asteroseismic Potential of Kepler: First Results for Solar-Type Stars", 2010ApJ...713L.169C [ADS](#)
 Behara, N. T., Bonifacio, P., Ludwig, H. G., et al., "Three carbon-enhanced metal-poor dwarf stars from the SDSS. Chemical abundances from CO5BOLD 3D hydrodynamical model atmospheres", 2010A&A...513A..72B [ADS](#)
 Freytag, B., Allard, F., Ludwig, H. G., Homeier, D., & Steffen, M., "The role of convection, overshoot, and gravity waves for the transport of dust in M dwarf and brown dwarf atmospheres", 2010A&A..513A..19F [ADS](#)
 Kućinskas, A., Dobrovolskas, V., Ivanauskas, A., et al., "Can we trust elemental abundances derived in late-type giants with the classical 1D stellar atmosphere models?", 2010IAUS..265..209K [ADS](#)
 Ludwig, H.-G., Caffau, E., Steffen, M., et al., "Solar abundances and 3D model atmospheres", 2010IAUS..265..201L [ADS](#)
 Behara, N. T., Bonifacio, P., Ludwig, H. G., et al., "Detailed analyses of three neutron-capture-rich carbon-enhanced metal-poor stars", 2010IAUS..265..122B [ADS](#)
 Sbordone, L., Bonifacio, P., Caffau, E., et al., "The metal-poor end of the Spite plateau", 2010IAUS..265..75S [ADS](#)
 Steffen, M., Cayrel, R., Bonifacio, P., Ludwig, H. G., & Caffau, E., " ^{6}Li in metal-poor halo stars: real or spurious?", 2010IAUS..265..23S [ADS](#)
 Sbordone, L., Bonifacio, P., Caffau, E., & Ludwig, H. G., "Local stars formed at $z > 10$: a sample extracted from the SDSS", 2010nuco.confE.294S [ADS](#)
 Ivanauskas, A., Kucinskas, A., Ludwig, H. G., & Caffau, E., "3D hydrodynamical CO5BOLD model atmospheres of late-type giants: stellar abundances from molecular lines", 2010nuco.confE.290I [ADS](#)
 Dobrovolskas, V., Kucinskas, A., Ludwig, H. G., et al., "Chemical abundances in metal-poor giants: limitations imposed by the use of classical 1D stellar atmosphere models", 2010nuco.confE.288D [ADS](#)
 Sbordone, L., Chieffi, A., Limongi, M., et al., "Sulfur in the globular clusters 47 Tuc and NGC 6752", 2010IAUS..266..537S [ADS](#)
 González Hernández, J. I., Bonifacio, P., Caffau, E., et al., "Lithium abundances of main-sequence and subgiant stars in the globular cluster NGC 6397", 2010IAUS..266..407G [ADS](#)
 Ludwig, H. G., "Perspectives for Determining Stellar Surface Parameters", 2010EAS....45..251L [ADS](#)
 Jasniewicz, G., Crifo, F., Soubiran, C., et al., "Radial Velocity Standard Stars for the Gaia RVS", 2010EAS....45..195J [ADS](#)
 Katz, D., Cropper, M., Meynadier, F., et al., "Gaia spectroscopy: processing, performances and scientific returns", 2010EAS....45..189K [ADS](#)
 Ludwig, H. G., Caffau, E., Steffen, M., Bonifacio, P., & Sbordone, L., "Accuracy of spectroscopy-based radioactive dating of stars", 2010A&A...509A..84L [ADS](#)
 Samadi, R., Ludwig, H. G., Belkacem, K., et al., "The CoRoT target HD 49933. II. Comparison of theoretical mode amplitudes with observations", 2010A&A...509A..16S [ADS](#)
 Samadi, R., Ludwig, H. G., Belkacem, K., Goupil, M. J., & Dupret, M. A., "The CoRoT target HD 49933. I. Effect of the metal abundance on the mode excitation rates", 2010A&A...509A..15S [ADS](#)

- Wende, S., Reiners, A., & Ludwig, H. G., “3D simulations of M star atmosphere velocities and their influence on molecular FeH lines”, 2009A&A...508..1429W [ADS](#)
- Meynadier, F., Crifo, F., Katz, D., et al., “GAIA RVS data reduction : the 6th dimension”, 2009sf2a.conf...63M [ADS](#)
- Ludwig, H. G., Samadi, R., Steffen, M., et al., “Hydrodynamical simulations of convection-related stellar micro-variability. II. The enigmatic granulation background of the CoRoT target HD 49933”, 2009A&A...506..167L [ADS](#)
- Dupret, M. A., Belkacem, K., Samadi, R., et al., “Theoretical amplitudes and lifetimes of non-radial solar-like oscillations in red giants”, 2009A&A...506..57D [ADS](#)
- González Hernández, J. I., Bonifacio, P., Caffau, E., et al., “Lithium in the globular cluster NGC 6397. Evidence for dependence on evolutionary status”, 2009A&A...505L..13G [ADS](#)
- Gonzalez Hernandez, J. I., Bonifacio, P., Caffau, E., et al., “VizieR Online Data Catalog: Lithium in NGC 6397 (Gonzalez Hernandez+, 2009)”, 2009yCat..35059013G [ADS](#)
- Maiorca, E., Caffau, E., Bonifacio, P., et al., “The Solar Photospheric Nitrogen Abundance: Determination with 3D and 1D Model Atmospheres”, 2009PASA...26..345M [ADS](#)
- Wende, S., Reiners, A., & Ludwig, H. G., “Teff and log g dependence of velocity fields in M -stars”, 2009AIPC.1171..323W [ADS](#)
- Sbordone, L., Limongi, M., Chieffi, A., et al., “Sulfur in the globular clusters <ASTROBJ>47 Tucanae</ASTROBJ> and <ASTROBJ>NGC 6752</ASTROBJ>”, 2009A&A...503..121S [ADS](#)
- Ludwig, H. G., Behara, N. T., Steffen, M., & Bonifacio, P., “Impact of granulation effects on the use of Balmer lines as temperature indicators”, 2009A&A...502L..1L [ADS](#)
- Bonifacio, P., Spite, M., Cayrel, R., et al., “VizieR Online Data Catalog: Extremely metal-poor turnoff stars abundances (Bonifacio+, 2009)”, 2009yCat..35010519B [ADS](#)
- Bonifacio, P., Spite, M., Cayrel, R., et al., “First stars XII. Abundances in extremely metal-poor turnoff stars, and comparison with the giants”, 2009A&A...501..519B [ADS](#)
- Caffau, E., Maiorca, E., Bonifacio, P., et al., “The solar photospheric nitrogen abundance. Analysis of atomic transitions with 3D and 1D model atmospheres”, 2009A&A...498..877C [ADS](#)
- Steffen, M., Ludwig, H. G., & Steiner, O., “Near-surface stellar magnetoconvection: simulations for the Sun and a metal-poor solar analog”, 2009IAUS..259..233S [ADS](#)
- Kučinskas, A., Ludwig, H. G., Ivanauskas, A., & Caffau, E., “Observable properties of late-type giants predicted by 3D hydrodynamical and 1D stellar atmosphere models”, 2009IAUS..254P..37K [ADS](#)
- Spite, M., Bonifacio, P., Cayrel, R., et al., “Halo chemistry and first stars. The chemical composition of the matter in the early Galaxy, from C to Mgtext{t}”, 2009IAUS..254..349S [ADS](#)
- Wende, S., Reiners, A., & Ludwig, H. G., “Teff and log g dependence of FeH in M -dwarfs”, 2009AIPC.1094..816W [ADS](#)
- Behara, N. T., Ludwig, H. G., Steffen, M., & Bonifacio, P., “Effective temperatures of cool metal-poor stars derived from the analysis of 3D Balmer lines”, 2009AIPC.1094..784B [ADS](#)
- Freytag, B., Allard, F., Ludwig, H.-G., et al., “Convective mixing and dust clouds in the atmospheres of brown dwarfs”, 2009AIPC.1094..489F [ADS](#)
- Bonifacio, P., Caffau, E., & Ludwig, H. G., “Effects of granulation on neutral copper resonance lines in metal-poor stars”, 2009MmSAI..80..739B [ADS](#)
- Behara, N. T., Ludwig, H. G., Bonifacio, P., et al., “3D molecular line formation in dwarf carbon-enhanced metal-poor stars.”, 2009MmSAI..80..735B [ADS](#)
- Steffen, M., Ludwig, H. G., & Caffau, E., “Micro- and macroturbulence derived from 3D hydrodynamical stellar atmospheres.”, 2009MmSAI..80..731S [ADS](#)
- Kučinskas, A., Ludwig, H. G., Caffau, E., & Steffen, M., “3D hydrodynamical simulations of stellar photospheres with the CO⁵BOLD code. Photometric colors of a late-type giant”, 2009MmSAI..80..723K [ADS](#)
- Ludwig, H. G., Caffau, E., Steffen, M., et al., “The CIFIST 3D model atmosphere grid”, 2009MmSAI..80..711L [ADS](#)
- Freytag, B., Allard, F., Ludwig, H. G., Homeier, D., & Steffen, M., “Simulations of dust clouds in the atmospheres of substellar objects. Theory toddles after observations”, 2009MmSAI..80..670F [ADS](#)
- Caffau, E., Ludwig, H. G., & Steffen, M., “Solar abundances and granulation effects”, 2009MmSAI..80..643C [ADS](#)
- Allende Prieto, C., Koesterke, L., Ramírez, I., Ludwig, H. G., & Asplund, M., “Accounting for convective blue-shifts in the determination of absolute stellar radial velocities.”, 2009MmSAI..80..622A [ADS](#)
- Nagendra, K. N., Bonifacio, P., & Ludwig, H. G., “3D views on cool stellar atmospheres: theory meets observation”, 2009MmSAI..80..601N [ADS](#)
- Landstreet, J. D., Asplund, M., Spite, M., et al., “Commission 36: Theory of Stellar Atmospheres”, 2009IAUTA..27..222L [ADS](#)
- Mishenina, T. V., Kučinskas, A., Andrievsky, S. M., et al., “NLTE Abundances of Sodium, Magnesium and Barium in the Globular Clusters M10 and M71”, 2009BaltA..18..193M [ADS](#)
- Bonifacio, P., Andersen, J., Andrievsky, S. M., et al., “The ESO Large Programme “First Stars””, 2009ASSP....9...31B [ADS](#)
- Ludwig, H. G., Bonifacio, P., Caffau, E., et al., “Extremely metal-poor stars from the SDSS”, 2008PhST..133a4037L [ADS](#)
- Freytag, B., Allard, F., Ludwig, H. G., Homeier, D., & Steffen, M., “Models of surface convection and dust clouds in brown dwarfs”, 2008PhST..133a4005F [ADS](#)
- Samadi, R., Belkacem, K., Goupil, M. J., Ludwig, H. G., & Dupret, M. A., “Modeling stochastic excitation of acoustic modes in stars: present status and perspectives”, 2008CoAst.157..130S [ADS](#)
- Freytag, B., Allard, F., Ludwig, H. G., et al., “he models comprise the upper part of the convection zone and the atmosphere with the dust cloud layers. We find that direct convective overshoot does not play a major role. Instead, the mixing in the clouds is controlled by gravity waves.”, 2008sf2a.conf..469F [ADS](#)
- Ludwig, H.-G., Caffau, E., & Kučinskas, A., “Radiation-hydrodynamics simulations of surface convection in low-mass stars: connections to stellar structure and asteroseismology”, 2008IAUS..252..75L [ADS](#)
- Caffau, E. & Ludwig, H. G., “3D model atmospheres and the solar photospheric oxygen abundance”, 2008IAUS..252..35C [ADS](#)
- Freytag, B., Steffen, M., Ludwig, H.-G., & Wedemeyer-Böhm, S.: 2008, Radiation hydrodynamics simulations of stellar surface convection, Astrophysics Software Database, CAU Kiel, Germany (<http://www1.astrophysik.uni-kiel.de/asd/>). 2008asd..soft..36F [ADS](#)
- Caffau, E., Steffen, M., & Ludwig, H. G., “The Solar Photospheric Oxygen Abundance and the Role of 3D Model Atmospheres”, 2008ESPM..12..3.7C [ADS](#)
- Caffau, E., Ludwig, H. G., Steffen, M., et al., “The photospheric solar oxygen project. I. Abundance analysis of atomic lines and influence of atmospheric models”, 2008A&A...488..1031C [ADS](#)
- Mucciarelli, A., Caffau, E., Freytag, B., Ludwig, H. G., & Bonifacio, P., “The solar photospheric abundance of europium. Results from CO5BOLD 3D hydrodynamical model atmospheres”, 2008A&A...484..841M [ADS](#)
- Caffau, E., Sbordone, L., Ludwig, H. G., et al., “The solar photospheric abundance of hafnium and thorium. Results from CO⁵BOLD 3D hydrodynamic model atmospheres”, 2008A&A...483..591C [ADS](#)
- Ludwig, H. G.: 2008, Radiation-hydrodynamical model atmospheres across the Hertzsprung-Russell diagram, IAC Talks, Astronomy and Astrophysics Seminars from the Instituto de Astrofísica de Canarias, id.177 2008iac..talk..177L [ADS](#)
- Sbordone, L., Bonifacio, P., González Hernández, J. I., et al., “The Metal-Poor End of the Lithium Plateau”, 2008AIPC..990..339S [ADS](#)
- Ludwig, H.-G., González Hernández, J. I., Behara, N., Caffau, E., & Steffen, M., “Hydrodynamical Model Atmospheres of Metal-Poor Stars”, 2008AIPC..990..268L [ADS](#)
- González Hernández, J. I., Bonifacio, P., Ludwig, H. G., et al., “CS 22876-032: The Most Metal-Poor Dwarfs. Abundances and 3D Effects”, 2008AIPC..990..175G [ADS](#)
- González Hernández, J. I., Bonifacio, P., Ludwig, H. G., et al., “First stars XI. Chemical composition of the extremely metal-poor dwarfs in the binary CS 22876-032”, 2008A&A...480..233G [ADS](#)
- Ludwig, H.-G. & Steffen, M., “Hydrodynamical Model Atmospheres and 3D Spectral Synthesis”, 2008psa.conf..133L [ADS](#)
- Ludwig, H.-G. & Beckers, J., “Towards the Interferometric Imaging of Red Supergiants”, 2008poii.conf..485L [ADS](#)
- Aufdenberg, J. P., Ludwig, H. G., Kervella, P., et al., “Limb Darkening: Getting Warmer”, 2008poii.conf..71A [ADS](#)
- Behara, N., Bonifacio, P., Ludwig, H. G., et al., “Spectral analyses of three carbon-enhanced metal-poor stars”, 2008nuco.confE..68B [ADS](#)
- Cayrel, R., Steffen, M., Bonifacio, P., Ludwig, H. G., & Caffau, E., “Overview of the Li problem in metal-poor stars and new results on 6Li”, 2008nuco.confE..2C [ADS](#)
- Cayrel, R., Steffen, M., Chand, H., et al., “Line shift, line asymmetry, and the $^6\text{Li}/^7\text{Li}$ isotopic ratio determination”, 2007A&A...473L..37C [ADS](#)
- Caffau, E., Steffen, M., Sbordone, L., Ludwig, H. G., & Bonifacio, P., “The solar photospheric abundance of phosphorus: results from CO⁵BOLD 3D model atmospheres”, 2007A&A...473L..9C [ADS](#)
- Wedemeyer-Böhm, S., Ludwig, H. G., Steffen, M., Leenaarts, J., & Freytag, B., “Inter-network regions of the Sun at millimetre wavelengths”, 2007A&A...471..977W [ADS](#)
- Ludwig, H. G., “3D spectral synthesis and rotational line broadening”, 2007A&A...471..925L [ADS](#)

- Caffau, E., Faraggiana, R., Bonifacio, P., Ludwig, H. G., & Steffen, M., “*Sulphur abundances from the S i near-infrared triplet at 1045 nm*”, *2007A&A...470..699C* [ADS](#)
- Freytag, B. & Ludwig, H.-G., “*Formation of convective structures in stellar atmospheres*”, *2007sf2a.conf..481F* [ADS](#)
- Ludwig, H.-G., “*Prospects of using simulations to study the photospheres of brown dwarfs*”, *2007IAUS..239..205L* [ADS](#)
- Caffau, E. & Ludwig, H. G., “*The forbidden 1082 nm line of sulphur: the photospheric abundance of sulphur in the Sun and 3D effects*”, *2007A&A...467L..11C* [ADS](#)
- Ludwig, H. G., Allard, F., & Hauschildt, P. H., “*Energy transport, overshoot, and mixing in the atmospheres of M-type main- and pre-main-sequence objects*”, *2006A&A...459..599L* [ADS](#)
- Ludwig, H. G., “*Comments on the granulation background in the Sun, Procyon, and η Bootis*”, *2006IAUJD..17E..24L* [ADS](#)
- Kucinskas, A., Ludwig, H. G., & Hauschildt, P. H., “*Convection and observable properties of late-type giants*”, *2006IAUS..232..498K* [ADS](#)
- Homeier, D., Ludwig, H. G., Allard, F., Hauschildt, P., & Dehn, M., “*Dust in the atmospheres of brown dwarfs and young planets: the effects of gravitational settling and convective overshoot*”, *2006IAUS..232..328H* [ADS](#)
- Kucinskas, A., Hauschildt, P. H., Ludwig, H. G., et al., “*Photometric colors of late-type giants: theory versus observations*”, *2006IAUS..232..276K* [ADS](#)
- Ludwig, H. G., “*Hydrodynamical simulations of convection-related stellar micro-variability. I. Statistical relations for photometric and photocentric variability*”, *2006A&A...445..661L* [ADS](#)
- Jones, H. R. A., Viti, S., Tennyson, J., et al., “*Status of the physics of substellar objects*”, *2005AN....326..920J* [ADS](#)
- Aufdenberg, J. P., Ludwig, H. G., & Kervella, P., “*On the Limb Darkening, Spectral Energy Distribution, and Temperature Structure of Procyon*”, *2005ApJ...633..424A* [ADS](#)
- Kučinskas, A., Hauschildt, P. H., Ludwig, H. G., et al., “*Broad-band photometric colors and effective temperature calibrations for late-type giants. I. $Z = 0.02$* ”, *2005A&A...442..281K* [ADS](#)
- Homeier, D., Allard, F., Ludwig, H. G., Hauschildt, P., & Dehn, M., “*Model atmospheres of substellar atmospheres at a young age: influence of gravity and dust*”, *2005AN....326Q.628H* [ADS](#)
- Kucinskas, A., Hauschildt, P. H., Ludwig, H. G., et al., “*VizieR Online Data Catalog: Late-type giants BVRIJHKL and Teff calibration (Kucinskas+, 2005)*”, *2005yCat..34420281K* [ADS](#)
- Wedemeyer-Böhm, S., Ludwig, H. G., Steffen, M., Freytag, B., & Holweger, H., “*The shock-patterned solar chromosphere in the light of ALMA*”, *2005ESASP.560.1035W* [ADS](#)
- Steffen, M., Freytag, B., & Ludwig, H. G., “*3D simulation of convection and spectral line formation in A-type stars*”, *2005ESASP.560..985S* [ADS](#)
- Svensson, F. & Ludwig, H. G., “*Hydrodynamical simulations of convection-related stellar micro-variability*”, *2005ESASP.560..979S* [ADS](#)
- Dorch, S. B. F., Gudiksen, B. V., & Ludwig, H. G., “*Dynamo action in M-dwarfs*”, *2005ESASP.560..515D* [ADS](#)
- Ludwig, H. G. & Kučinskas, A., “*Status and future of hydrodynamical model atmospheres*”, *2005ESASP.560..319L* [ADS](#)
- Dravins, D., Lindegren, L., Ludwig, H. G., & Madsen, S., “*Wavelength shifts in solar-type spectra*”, *2005ESASP.560..113D* [ADS](#)
- Jones, H., Viti, S., Tennyson, J., et al., “*PoSSO Physics of SubStellar Objects*”, *2005hris.conf..477J* [ADS](#)
- Stein, R., Georgobiani, D., Trampedach, R., Ludwig, H.-G., & Nordlund, Å., “*Excitation of P-Modes in the Sun and Stars*”, *2005HiA...13..411S* [ADS](#)
- Kucinskas, A., Brott, I., Hauschildt, P. H., et al., “*Theoretical Modelling of Late-Type Giant Atmospheres: Preparing for Gaia*”, *2005ESASP.576..591K* [ADS](#)
- Moussi, A., Drolshagen, G., McDonnell, J. A. M., et al., “*Hypervelocity impacts on HST solar arrays and the debris and meteoroids population*”, *2005AdSpR..35..1243M* [ADS](#)
- Dravins, D., Lindegren, L., Ludwig, H. G., & Madsen, S., “*Intrinsic Wavelength Shifts in Stellar Spectra*”, *2004AAS...20517004D* [ADS](#)
- Aufdenberg, J. P., Ludwig, H. G., & Kervella, P., “*Procyon: Constraining Its Temperature Structure with High-Precision Interferometry and 3-D Model Atmospheres*”, *2004AAS...205.1203A* [ADS](#)
- Stein, R., Georgobiani, D., Trampedach, R., Ludwig, H.-G., & Nordlund, Å., “*Excitation of Radial P-Modes in the Sun and Stars*”, *2004SoPh..220..229S* [ADS](#)
- Wedemeyer, S., Freytag, B., Steffen, M., Ludwig, H. G., & Holweger, H., “*Numerical simulation of the three-dimensional structure and dynamics of the non-magnetic solar chromosphere*”, *2004A&A...414..1121W* [ADS](#)
- Drolshagen, G., McDonnell, J. A. M., Mandeville, J. C., Moussi, A., & Ludwig, H., “*Hypervelocity impacts on HST solar arrays and the debris population*”, *2004cosp...35..969D* [ADS](#)
- Ivarsson, S., Wahlgren, G. M., & Ludwig, H. G., “*Revising the abundance of Pr in the solar photosphere*”, *2003AAS...20313404I* [ADS](#)
- Madsen, S., Dravins, D., Ludwig, H.-G., & Lindegren, L., “*Intrinsic spectral blueshifts in rapidly rotating stars?*”, *2003A&A...411..581M* [ADS](#)
- Wedemeyer, S., Freytag, B., Steffen, M., Ludwig, H.-G., & Holweger, H., “*Modelling the Chromospheric Background Pattern of the Non-magnetic Sun*”, *2003ANS...324R..66W* [ADS](#)
- Steffen, M., Ludwig, H.-G., & Freytag, B., “*3D Simulation of the Solar Granulation: A Comparison of two Different Hydrodynamics Codes*”, *2003ANS...324..174S* [ADS](#)
- Ludwig, H.-G. & Dorch, S. B. F., “*Convection and Small-scale Magnetic Fields in M-type Atmospheres*”, *2003ANS...324..65L* [ADS](#)
- Allard, F., Guillot, T., Ludwig, H.-G., et al., “*Model Atmospheres and Spectra: The Role of Dust*”, *2003IAUS..211..325A* [ADS](#)
- Wedemeyer, S., Freytag, B., Steffen, M., Ludwig, H. G., & Holweger, H., “*Acoustic Waves in the Solar Chromosphere - Numerical Simulations with COBOLD*”, *2003IAUS..210P..C1W* [ADS](#)
- Ludwig, H. G., “*Energy Transport, Overshoot, and Mixing in the Atmospheres of Very Cool Stars*”, *2003IAUS..210..113L* [ADS](#)
- Ludwig, H. G., “*Challenges in the Solution of the Transfer Equation in Multi-D Hydrodynamical Model Atmospheres for Cool Stars*”, *2003ASPC..288..537L* [ADS](#)
- Wedemeyer, S., Freytag, B., Steffen, M., Ludwig, H. G., & Holweger, H., “*3-D hydrodynamic simulations of the solar chromosphere*”, *2003AN....324..410W* [ADS](#)
- Ludwig, H. G., Allard, F., & Hauschildt, P. H., “*Numerical simulations of surface convection in a late M-dwarf*”, *2002A&A...395..99L* [ADS](#)
- Rieutord, M., Ludwig, H. G., Roudier, T., Nordlund, Å., & Stein, R., “*A simulation of solar convection at supergranulation scale*”, *2002NCimC..25..523R* [ADS](#)
- Dorch, S. B. F. & Ludwig, H. G., “*Small-scale magnetic fields on late-type M-dwarfs*”, *2002AN....323..402D* [ADS](#)
- Rieutord, M., Roudier, T., Ludwig, H. G., Nordlund, Å., & Stein, R., “*Are granules good tracers of solar surface velocity fields?*”, *2001A&A...377L..14R* [ADS](#)
- Ludwig, H.-G. & Hauschildt, P., “*Radiation-hydrodynamics Simulations of Surface Convection in a Late M-dwarf*”, *2001AGM....18..P15L* [ADS](#)
- Wedemeyer, S., Freytag, B., Holweger, H., Ludwig, H.-G., & Steffen, M., “*Acoustic Energy Generated by Convection: 3-D Numerical Simulations for the Sun*”, *2001AGM....18..P01W* [ADS](#)
- Asplund, M., Ludwig, H. G., Nordlund, Å., & Stein, R. F., “*The effects of numerical resolution on hydrodynamical surface convection simulations and spectral line formation*”, *2000A&A...359..669A* [ADS](#)
- Ludwig, H.-G. & Nordlund, A., “*The atmospheric dynamics in 2D and 3D simulations of stellar surface convection*”, *2000ASSL..254..37L* [ADS](#)
- Ludwig, H.-G., Freytag, B., & Steffen, M., “*A calibration of the mixing-length for solar-type stars based on hydrodynamical simulations. I. Methodical aspects and results for solar metallicity*”, *1999A&A...346..111L* [ADS](#)
- Ludwig, H. G. & Salaries, M., “*Convection and the Eclipsing Binary AI Phoenice: How Well Can We Constrain the Mixing-Length parameter from Stellar Modelling?*”, *1999ASPC..173..229L* [ADS](#)
- Freytag, B., Ludwig, H. G., & Steffen, M., “*A Calibration of the Mixing-Length for Solar-Type Stars Based on Hydrodynamical Models of Stellar Surface Convection*”, *1999ASPC..173..225F* [ADS](#)
- Steffen, M. & Ludwig, H. G., “*Balmer Line Formation in Convective Stellar Atmospheres*”, *1999ASPC..173..217S* [ADS](#)
- Freytag, B., Salaries, M., & Ludwig, H. G., “*Treatment of the Superadiabatic Convection in Low-Mass Metal-Poor Stars from Realistic Hydrodynamics Simulations: Application to Globular Clusters Isochrones*”, *1999ASPC..173..201F* [ADS](#)
- Groenewegen, M. A. T. & Ludwig, H. G., “*New peculiar CO data of the shell around IRC +10 216*”, *1998A&A...339..489G* [ADS](#)
- Blöcker, T., Holweger, H., Freytag, B., et al., “*Lithium Depletion in the Sun: A Study of Mixing Based on Hydrodynamical Simulations*”, *1998SSRv...85..105B* [ADS](#)
- Blöcker, T., Holweger, H., Freytag, B., et al., “*Lithium Depletion in the Sun: A Study of Mixing Based on Hydrodynamical Simulations*”, *1998sce..conf..105B* [ADS](#)
- Ludwig, H. G., Freytag, B., & Steffen, M., “*An improved calibration of the mixing-length based on simulations of solar-type convection*”, *1998IAUS..185..115L* [ADS](#)
- Groenewegen, M. A. T., Oudmaijer, R. D., & Ludwig, H. G., “*Two mass-losing carbon stars in the Galactic halo*”, *1997MNRAS.292..686G* [ADS](#)
- Schlattl, H., Weiss, A., Ludwig, H. G., & Bernkopf, J., “*A precision-controlled solar model with realistic subatmospheric stratification*”, *1997ASSL..225..65S* [ADS](#)
- Ludwig, H. G., Freytag, B., & Steffen, M., “*A calibration of mixing length theory based on RHD simulations of solar-type convection*”, *1997ASSL..225..59L* [ADS](#)

- Nordlund, A., Spruit, H. C., Ludwig, H. G., & Trampedach, R., “*Is stellar granulation turbulence?*”, 1997A&A...328..229N [ADS](#)
- Schlattl, H., Weiss, A., & Ludwig, H. G., “*A solar model with improved subatmospheric stratification.*”, 1997A&A...322..646S [ADS](#)
- Freytag, B., Holweger, H., Steffen, M., & Ludwig, H. G., “*On the Scale of Photospheric Convection*”, 1997svlt.work..316F [ADS](#)
- Freytag, B., Ludwig, H. G., & Steffen, M., “*Hydrodynamical models of stellar convection. The role of overshoot in DA white dwarfs, A-type stars, and the Sun.*”, 1996A&A...313..497F [ADS](#)
- Gautschy, A., Ludwig, H. G., & Freytag, B., “*Overtures to the pulsational instability of ZZ Ceti variables.*”, 1996A&A...311..493G [ADS](#)
- Steffen, M., Ludwig, H. G., & Freytag, B., “*Synthetic spectra computed from hydrodynamical model atmospheres of DA white dwarfs.*”, 1995A&A...300..473S [ADS](#)
- Gautschy, A. & Ludwig, H.-G., “*Grasping at the Hot End of ZZ Ceti Variability*”, in D. Koester and K. Werner (Eds.), White Dwarfs, Vol. 443, 295 1995LNP...443..295G [ADS](#)
- Ludwig, H.-G. & Steffen, M., “*Spectroscopic Effects of T-Inhomogeneities in the Atmospheres of DA White Dwarfs*”, in D. Koester and K. Werner (Eds.), White Dwarfs, Vol. 443, 128 1995LNP...443..128L [ADS](#)
- Freytag, B., Steffen, M., & Ludwig, H.-G., “*Numerical Simulations of Convection and Overshoot in the Envelope of DA White Dwarfs*”, in D. Koester and K. Werner (Eds.), White Dwarfs, Vol. 443, 88 1995LNP...443..88F [ADS](#)
- Ludwig, H. G., Freytag, B., Steffen, M., & Wagenhuber, J., “*The Mixing-Length Parameter for Solar-Type Convection Zones Inferred from Hydrodynamical Models of the Surface Layers*”, 1995LIACo..32..213L [ADS](#)
- Ludwig, H. G. & Steffen, M., “*Hydrodynamical model atmospheres: convection and line formation in the Sun*”, 1995IAUS..176P.235L [ADS](#)
- Ludwig, H. G., Jordan, S., & Steffen, M., “*Numerical simulations of convection at the surface of a ZZ Ceti white dwarf.*”, 1994A&A...284..105L [ADS](#)
- Ludwig, H. G., “*Numerical simulation of overshoot at the base of the solar convection zone*”, 1994smf..conf..149L [ADS](#)
- Ludwig, H. G., Jordan, S., & Steffen, M., “*First numerical simulations of convection at the surface of a ZZ Ceti white dwarf*”, 1993ASIC..403..471L [ADS](#)
- Ludwig, H. G., Jordan, S., & Steffen, M., “*Numerical simulations of convection at the surface of a ZZ Ceti white dwarf.*”, 1993AGAb....9..147L [ADS](#)
- Steffen, M., Gigas, D., Holweger, H., Krüss, A., & Ludwig, H. G., “*Results from 2-D Numerical Simulations of Solar Granules*”, 1990IAUS..138..213S [ADS](#)
- Ludwig, H. G., Steffen, M., & Rauch, T., “*Non-grey radiative transfer in numerical simulations of photospheric convection.*”, 1990AGAb....5..38L [ADS](#)
- Steffen, M., Ludwig, H. G., & Kruess, A., “*A numerical simulation study of solar granular convection in cells of different horizontal dimension*”, 1989A&A...213..371S [ADS](#)
- Steffen, M., Gigas, D., Holweger, H., Krüss, A., & Ludwig, H. G., “*Results from 2-D Numerical Simulations of the Solar Granulation*”, 1989AGAb....3..12S [ADS](#)
- Steffen, M., Ludwig, H. G., & Krüss, A., “*Struktur solarer Konvektionszellen unterschiedlicher Durchmesser.*”, 1988AGAb....1..10S [ADS](#)
- Reigber, C. & Ludwig, H., “*Bestimmung von Stationskoordinaten aus der Analyse langer Bahnen.*”, 1976VeBKI..35..126R [ADS](#)
- Sigl, R., Kaniuth, K., Bauch, A., et al., “*Die Arbeiten des Sonderforschungsbereiches 78 Satellitengeodäsie der Technischen Universität München im Jahre 1974.*”, 1975VeBKI..33.....S [ADS](#)
- Sigl, R. & Ludwig, H., “*Einige Bemerkungen zur Bestimmung und Verwendung geozentrischer Koordinaten.*”, 1973VeBKI..31..149S [ADS](#)
- Sigl, R., Dichlit, G., Ilk, K. H., et al., “*Die Arbeiten des Sonderforschungsbereiches 78 Satellitengeodäsie im Jahre 1972.*”, 1973VeBKI..30.....S [ADS](#)
- Sigl, R., Schneider, M., Reigber, C., & Ludwig, H.: 1970, *Anwendung der Hammersteinschen Methode der unendlich vielen Variablen auf Probleme der Satellitengeodäsie und Himmelsmechanik*. 1970adhm.book.....S [ADS](#)