

Bibliography from ADS file: nordlund.bib
September 14, 2022

- Lu, Z.-J., Pelkonen, V.-M., Juvela, M., et al., “Physical properties and real nature of massive clumps in the galaxy”, 2022MNRAS.510.1697L ADS
- Lu, Z.-J., Pelkonen, V.-M., Juvela, M., et al., “The dynamical state of massive clumps”, 2022MNRAS.509.5589L ADS
- Pelkonen, V. M., Padoan, P., Haugbølle, T., & Nordlund, Å., “From the CMF to the IMF: beyond the core-collapse model”, 2021MNRAS.504.1219P ADS
- Johansen, A., Ronnet, T., Bizzarro, M., et al., “A pebble accretion model for the formation of the terrestrial planets in the Solar System”, 2021SciA...7...444J ADS
- Lu, Z.-J., Pelkonen, V.-M., Padoan, P., et al., “The Effect of Supernovae on the Turbulence and Dispersal of Molecular Clouds”, 2020ApJ...904...58L ADS
- Johansen, A. & Nordlund, Å., “Transport, Destruction, and Growth of Pebbles in the Gas Envelope of a Protoplanet”, 2020ApJ...903...102J ADS
- Dib, S., Bontemps, S., Schneider, N., et al., “The structure and characteristic scales of molecular clouds”, 2020A&A...642A.177D ADS
- Padoan, P., Pan, L., Juvela, M., Haugbølle, T., & Nordlund, Å., “The Origin of Massive Stars: The Inertial-inflow Model”, 2020ApJ...900...82P ADS
- Ramsey, J., Nordlund, Å., & Popovas, A., “Simulating rocky protoplanet growth via pebble accretion and the DISPATCH framework”, 2020AAS...23522005R ADS
- Pan, L., Padoan, P., & Nordlund, Å., “The Probability Distribution of Density Fluctuations in Supersonic Turbulence”, 2019ApJ...881...155P ADS
- Nordlund, Å., “Task Based Radiative Transfer Methods and the DISPATCH Code Framework”, 2019ASPC...519...93N ADS
- Pan, L., Padoan, P., & Nordlund, Å., “Inaccuracy of Spatial Derivatives in Riemann Solver Simulations of Supersonic Turbulence”, 2019ApJ...876...90P ADS
- Popovas, A., Nordlund, Å., & Ramsey, J. P., “Pebble dynamics and accretion on to rocky planets - II. Radiative models”, 2019MNRAS.482L.107P ADS
- Popovas, A., Nordlund, Å., Ramsey, J. P., & Ormel, C. W., “Pebble dynamics and accretion on to rocky planets - I. Adiabatic and convective models”, 2018MNRAS.479.5136P ADS
- Pan, L., Padoan, P., & Nordlund, Å., “Detailed Balance and Exact Results for Density Fluctuations in Supersonic Turbulence”, 2018ApJ...866L.17P ADS
- Nordlund, Å., Ramsey, J. P., Popovas, A., & Küffmeier, M., “DISPATCH: a numerical simulation framework for the exa-scale era - I. Fundamentals”, 2018MNRAS.477...624N ADS
- Ramsey, J. P., Haugbølle, T., & Nordlund, Å., “A simple and efficient solver for self-gravity in the DISPATCH astrophysical simulation framework”, 2018JPhCS1031a2021R ADS
- Collet, R., Nordlund, Å., Asplund, M., Hayek, W., & Trampedach, R., “The benchmark halo giant HD 122563: CNO abundances revisited with three-dimensional hydrodynamic model stellar atmospheres”, 2018MNRAS.475.3369C ADS
- Haugbølle, T., Padoan, P., & Nordlund, Å., “The Stellar IMF from Isothermal MHD Turbulence”, 2018ApJ...854...35H ADS
- Küffmeier, M., Haugbølle, T., & Nordlund, Å., “Accounting for the diversity in stellar environments”, 2017arXiv171008900K ADS
- Nishikawa, K.-I., Mizuno, Y., Gómez, J., et al., “Microscopic Processes in Global Relativistic Jets Containing Helical Magnetic Fields: Dependence on Jet Radius”, 2017Galax...5...58N ADS
- Kuffmeier, M., Haugbølle, T., & Nordlund, Å., “Zoom-in Simulations of Protoplanetary Disks Starting from GMC Scales”, 2017ApJ...846...7K ADS
- Bollard, J., Connelly, J. N., Whitehouse, M. J., et al., “Early formation of planetary building blocks inferred from Pb isotopic ages of chondrules”, 2017SciA...3E0407B ADS
- Bizzarro, M., Wielandt, D., Haugbølle, T., & Nordlund, A., “Nucleosynthetic Diversity of Chondrites and Their Components - Tracking Disk Mass Transport Processes and the Early Formation of Large-Scale Solar System Reservoirs”, 2017LPICo1975.2008B ADS
- Padoan, P., Haugbølle, T., Nordlund, Å., & Frimann, S., “Supernova Driving. IV. The Star-formation Rate of Molecular Clouds”, 2017ApJ...840...48P ADS
- Van Eck, S., Neyskens, P., Jorissen, A., et al., “A grid of MARCS model atmospheres for late-type stars. II. S stars and their properties”, 2017A&A...601A..10V ADS
- van Eck, S., Neyskens, P., Jorissen, A., et al., “VizieR Online Data Catalog: A grid of MARCS model atmospheres for S stars (Van Eck+, 2017)”, 2017yCat...36010010V ADS
- Dutan, I., Nishikawa, K.-I., Mizuno, Y., et al., “Particle-in-cell Simulations of Global Relativistic Jets with Helical Magnetic Fields”, 2017IAUS...324...199D ADS
- Nishikawa, K. I., Mizuno, Y., Niemiec, J., et al., “Particle-in-Cell Simulations of Global Relativistic Jets with Helical Magnetic Fields”, 2016LPICo1962.4035N ADS
- Nishikawa, K.-I., Mizuno, Y., Niemiec, J., et al., “Microscopic Processes in Global Relativistic Jets Containing Helical Magnetic Fields”, 2016Galax...4...38N ADS
- Padoan, P., Juvela, M., Pan, L., Haugbølle, T., & Nordlund, Å., “Supernova Driving. III. Synthetic Molecular Cloud Observations”, 2016ApJ...826...140P ADS
- Kuffmeier, M., Frostholt Mogensen, T., Haugbølle, T., Bizzarro, M., & Nordlund, Å., “Tracking the Distribution of 26Al and 60Fe during the Early Phases of Star and Disk Evolution”, 2016ApJ...826...22K ADS
- Pan, L., Padoan, P., Haugbølle, T., & Nordlund, Å., “Supernova Driving. II. Compressive Ratio in Molecular-cloud Turbulence”, 2016ApJ...825...30P ADS
- Pan, L., Padoan, P., Haugboelle, T., & Nordlund, A., “The impact of supernova remnants on interstellar turbulence and star formation”, 2016sros.confE.146P ADS
- Padoan, P., Pan, L., Haugbølle, T., & Nordlund, Å., “Supernova Driving. I. The Origin of Molecular Cloud Turbulence”, 2016ApJ...822...11P ADS
- Nishikawa, K. I., Frederiksen, J. T., Nordlund, Å., et al., “Evolution of Global Relativistic Jets: Collimations and Expansion with kKHI and the Weibel Instability”, 2016ApJ...820...94N ADS
- Trampedach, R., Christensen-Dalsgaard, J., Asplund, M., Stein, R. F., & Nordlund, Å., “The Surface of Stellar Models - Now with more 3D simulations!”, 2015EPJWC.10106064T ADS
- Nishikawa, K. I., Hardee, P., Dutan, I., et al., “Radiation from Particles Accelerated in Relativistic Jet Shocks and Shear-flows”, 2014arXiv1412.7064N ADS
- Trampedach, R., Stein, R. F., Christensen-Dalsgaard, J., Nordlund, Å., & Asplund, M., “Improvements to stellar structure models, based on a grid of 3D convection simulations - II. Calibrating the mixing-length formulation”, 2014MNRAS.445.4366T ADS
- Padoan, P., Haugbølle, T., & Nordlund, Å., “Infall-driven Protostellar Accretion and the Solution to the Luminosity Problem”, 2014ApJ...797...32P ADS
- Trampedach, R., Stein, R. F., Christensen-Dalsgaard, J., Nordlund, Å., & Asplund, M., “Improvements to stellar structure models, based on a grid of 3D convection simulations - I. $T(\tau)$ relations”, 2014MNRAS.442...805T ADS
- Trampedach, R., Stein, R. F., Christensen-Dalsgaard, J., Nordlund, A., & Asplund, M., “VizieR Online Data Catalog: T(tau) relations code (Trampedach+, 2014)”, 2014yCat...74420805T ADS
- Padoan, P., Federrath, C., Chabrier, G., et al., “The Star Formation Rate of Molecular Clouds”, 2014prpl.conf...77P ADS
- Nordlund, Å., Haugbølle, T., Küffmeier, M., Padoan, P., & Vasileiades, A., “Zooming in on the Formation of Protoplanetary Disks”, 2014IAUS...299...131N ADS
- Nishikawa, K. I., Hardee, P., Mizuno, Y., et al., “Radiation from accelerated particles in relativistic jets with shocks, shear-flow, and reconnection”, 2013EPJWC...6102003N ADS
- Henri, P., Cerri, S. S., Califano, F., et al., “Nonlinear evolution of the magnetized Kelvin-Helmholtz instability: From fluid to kinetic modeling”, 2013PhP1...20j2118H ADS
- Nishikawa, K. I., Hardee, P., Zhang, B., et al., “Magnetic field generation in a jet-sheath plasma via the kinetic Kelvin-Helmholtz instability”, 2013AnGeo...31.1535N ADS
- Magic, Z., Collet, R., Asplund, M., et al., “The Stagger-grid: A grid of 3D stellar atmosphere models. I. Methods and general properties”, 2013A&A...557A..26M ADS
- Magic, Z., Collet, R., Asplund, M., et al., “VizieR Online Data Catalog: STAGGER-grid of 3D stellar models. I. (Magic+, 2013)”, 2013yCat...35570026M ADS
- Haugbølle, T., Padoan, P., Küffmeier, M., & Nordlund, Å., “Accretion and Formation of Nascent Solar Systems”, 2013prpl.conf1H004H ADS
- Küffmeier, M., Nordlund, Å., Haugbølle, T., & Padoan, P., “Zooming in on Protoplanetary Disks”, 2013prpl.conf1H003K ADS
- Nordlund, Å., Küffmeier, M., Haugbølle, T., & Padoan, P., “Zooming in on the Formation of Protoplanetary Disks”, 2013prpl.conf1H002N ADS
- Nishikawa, K. I., Zhang, B., Dutan, I., et al., “Radiation from accelerated particles in relativistic jets with shocks, shear-flow, and reconnection”, 2013EAS...61...177N ADS
- Baumann, G., Haugbølle, T., & Nordlund, Å., “Kinetic Modeling of Particle Acceleration in a Solar Null-point Reconnection Region”, 2013ApJ...771...93B ADS
- Baumann, G., Galsgaard, K., & Nordlund, Å., “3D Solar Null Point Reconnection MHD Simulations”, 2013SoPh...284...467B ADS
- Haugbølle, T., Frederiksen, J. T., & Nordlund, A. t., “photon-plasma: A modern high-order particle-in-cell code”, 2013PhP1...20f2904H ADS

- Vasileiadis, A., Nordlund, Å., & Bizzarro, M., “Abundance of ^{26}Al and ^{60}Fe in Evolving Giant Molecular Clouds”, 2013ApJ...769L...8V ADS
- Trampedach, R., Asplund, M., Collet, R., Nordlund, Å., & Stein, R. F., “A Grid of Three-dimensional Stellar Atmosphere Models of Solar Metallicity. I. General Properties, Granulation, and Atmospheric Expansion”, 2013ApJ...769...18T ADS
- Lapenta, G., Pierrard, V., Keppens, R., et al., “SWIFF: Space weather integrated forecasting framework”, 2013JWSWC...3A...05L ADS
- Cargill, P. J., Vlahos, L., Baumann, G., Drake, J. F., & Nordlund, Å., “Current Fragmentation and Particle Acceleration in Solar Flares”, in A. Balogh, A. Bykov, R. P. Lin, J. Raymond, and M. Scholer (Eds.), Particle Acceleration in Cosmic Plasmas. Series: Space Sciences Series of ISSI, Vol. 45, 223–245 2013pacp.book...223C ADS
- Stein, R. F. & Nordlund, Å., “Ab Initio Active Region Formation”, 2013AAS...22141502S ADS
- Georgobiani, D., Stein, R., & Nordlund, Å., “Realistic numerical simulations of solar convection: emerging flux, pores, and Stokes spectra”, 2012IAUSS...6E.102G ADS
- Stein, R. F. & Nordlund, Å., “Flux Emergence and Pore Formation: What ATST can See”, 2012ASPC...463...83S ADS
- Fabbian, D., Moreno-Insertis, F., Khomenko, E., & Nordlund, Å., “Solar Fe abundance and magnetic fields. Towards a consistent reference metallicity”, 2012A&A...548A...35F ADS
- Connelly, J. N., Bizzarro, M., Krot, A. N., et al., “The Absolute Chronology and Thermal Processing of Solids in the Solar Protoplanetary Disk”, 2012Sci...338...651C ADS
- Cargill, P. J., Vlahos, L., Baumann, G., Drake, J. F., & Nordlund, Å., “Current Fragmentation and Particle Acceleration in Solar Flares”, 2012SSRv...173...223C ADS
- Padoan, P., Haugbølle, T., & Nordlund, Å., “A Simple Law of Star Formation”, 2012ApJ...759L...27P ADS
- Baumann, G. & Nordlund, Å., “Particle-in-cell Simulation of Electron Acceleration in Solar Coronal Jets”, 2012ApJ...759L...9B ADS
- Nishikawa, K. I., Zhang, B., Choi, E. J., et al., “Radiation from accelerated particles in shocks”, 2012IAUS...279...371N ADS
- Stein, R. F., Lagerfjård, A., Nordlund, Å., & Georgobiani, D., “Helioseismic Data from Emerging Flux Simulations”, 2012ASPC...462...345S ADS
- Padoan, P., Zweibel, E., & Nordlund, Å., “Erratum: “Ambipolar Drift Heating in Turbulent Molecular Clouds” (2000, ApJ, 540, 332)”, 2012ApJ...755...182P ADS
- Stein, R. F., Lagerfjård, A., Nordlund, Å., & Georgobiani, D., “Emerging Flux Simulations”, 2012ASPC...454...193S ADS
- Stein, R. F. & Nordlund, Å., “On the Formation of Active Regions”, 2012ApJ...753L...13S ADS
- Nishikawa, K. I., Choi, E. J., Min, K., et al., “Simulation of Relativistic Jets and Associated Self-consistent Radiation”, 2012ASPC...459...143N ADS
- Stein, R. & Nordlund, Å., “Spontaneous Pore Formation in Magneto-Convection Simulations”, 2012ASPC...456...39S ADS
- Stein, R. F., Lagerfjård, A., Nordlund, Å., & Georgobiani, D., “Emerging Flux Simulations and Proto-Active Regions”, 2012ASPC...455...133S ADS
- Stein, R. F. & Nordlund, Å., “Pore Formation and Evolution”, 2012AAS...22020620S ADS
- Nordlund, Å. & Galsgaard, K., “Scaling of turbulent and hierarchical reconnection”, 2012EGUGA...1412646G ADS
- Nishikawa, K. I., Choi, E. J., Min, K. W., et al., “Radiation from shock-accelerated particles”, 2012grb...confE...28N ADS
- Nishikawa, K. I., Niemiec, J., Zhang, B., et al., “Simulation of Relativistic Jets and Associated Self-Consistent Radiation”, 2012IJMPS...8...259N ADS
- Van Eck, S., Neyskens, P., Plez, B., et al., “A grid of S stars MARCS model atmospheres”, 2011JPhCS.328a2009V ADS
- Haugbølle, T., Nordlund, Å., & Padoan, P., “Zooming in on Star Formation”, 2011LPICo1639.9116H ADS
- Vasileiadis, A., Nordlund, Å., & Bizzarro, M., “Enhanced Abundance of ^{26}Al and ^{60}Fe in Giant Molecular Clouds”, 2011LPICo1639.9101V ADS
- Larsen, K. K., Trinquier, A., Paton, C., et al., “Heterogeneous Distribution of ^{26}Al in the Solar Protoplanetary Disk”, 2011LPICo1639.9053L ADS
- Bizzarro, M. & Nordlund, Å., “Short-Lived Radionuclide Abundances and Nucleosynthetic Isotope Anomalies in Bulk Planetary Materials: Is There a Connection?”, 2011LPICo1639.9052B ADS
- Nordlund, Å., “Formation of brown dwarfs and planets”, 2011IAUS...276...105N ADS
- Padoan, P. & Nordlund, Å., “The Observable Prestellar Phase of the Initial Mass Function”, 2011ApJ...741L...22P ADS
- Nishikawa, K. I., Niemiec, J., Medvedev, M., et al., “Simulation of Relativistic Shocks and Associated Radiation from Turbulent Magnetic Fields”, 2011ASPC...444...81N ADS
- van Eck, S., Neyskens, P., Plez, B., et al., “A Grid of MARCS Model Atmospheres for S Stars”, 2011ASPC...445...71V ADS
- Nishikawa, K. I., Niemiec, J., Medvedev, M., et al., “Simulation of Relativistic Shocks and Associated Self-consistent Radiation”, 2011AIPC.1366...163N ADS
- Padoan, P., Lunttila, T., Juvela, M., et al., “Magnetic Fields in Molecular Clouds”, 2011IAUS...271...187P ADS
- Medvedev, M. V., Frederiksen, J. T., Haugbølle, T., & Nordlund, Å., “Radiation Signatures of Sub-Larmor Scale Magnetic Fields”, 2011ApJ...737...55M ADS
- Kritsuk, A. G., Nordlund, Å., Collins, D., et al., “Comparing Numerical Methods for Isothermal Magnetized Supersonic Turbulence”, 2011ApJ...737...13K ADS
- Nishikawa, K. I., Niemiec, J., Medvedev, M., et al., “Simulation of relativistic shocks and associated radiation from turbulent magnetic fields”, 2011AIPC.1358...87N ADS
- Larsen, K. K., Trinquier, A., Paton, C., et al., “Evidence for Magnesium Isotope Heterogeneity in the Solar Protoplanetary Disk”, 2011ApJ...735L...37L ADS
- Stein, R. F., Georgobiani, D., Nordlund, Å., & Lagerfjård, A., “Magnetic Fields: Modeling And ATST Observations”, 2011SPD...42.0804S ADS
- Hayek, W., Asplund, M., Collet, R., & Nordlund, Å., “3D LTE spectral line formation with scattering in red giant stars”, 2011A&A...529A.158H ADS
- Brandenburg, A. & Nordlund, Å., “Astrophysical turbulence modeling”, 2011RPPH...74d6901B ADS
- Padoan, P. & Nordlund, Å., “Theory of the Star Formation Rate”, 2011IAUS...270...347P ADS
- Nordlund, Å., “Ray Casting and Flux Limited Diffusion”, 2011IAUS...270...207N ADS
- Nishikawa, K. I., Niemiec, J., Medvedev, M., et al., “Radiation from relativistic shocks in turbulent magnetic fields”, 2011AdSpR...47.1434N ADS
- Collet, R., Hayek, W., Asplund, M., et al., “Three-dimensional surface convection simulations of metal-poor stars. The effect of scattering on the photospheric temperature stratification”, 2011A&A...528A...32C ADS
- Padoan, P. & Nordlund, Å., “The Star Formation Rate of Supersonic Magneto-hydrodynamic Turbulence”, 2011ApJ...730...40P ADS
- Stein, R. F., Lagerfjård, A., Nordlund, Å., & Georgobiani, D., “Solar Flux Emergence Simulations”, 2011SoPh...268...271S ADS
- Nishikawa, K. I., Niemiec, J., Medvedev, M., et al., “Simulation of relativistic shocks and associated radiation from turbulent magnetic fields”, 2011IAUS...275...354N ADS
- Bally, J., Cunningham, N. J., Moeckel, N., et al., “Explosive Outflows Powered by the Decay of Non-hierarchical Multiple Systems of Massive Stars: Orion BN/KL”, 2011ApJ...727...113B ADS
- Fabbian, D., Khomenko, E., Moreno-Insertis, F., & Nordlund, Å., “Solar Abundance Corrections Derived Through Three-dimensional Magnetoconvection Simulations”, 2010ApJ...724.1536F ADS
- Frederiksen, J. T., Haugbølle, T., Medvedev, M. V., & Nordlund, Å., “Radiation Spectral Synthesis of Relativistic Filamentation”, 2010ApJ...722L.114F ADS
- Nishikawa, K. I., Niemiec, J., Medvedev, M., et al., “Simulation of Relativistic Shocks and Associated Self-consistent Radiation”, 2010AIPC.1279...261N ADS
- Larsen, K., Trinquier, A., Paton, C., et al., “Heterogeneous Distribution of ^{26}Al in the Solar Protoplanetary Disk”, 2010M&PSA...73.5202L ADS
- Nishikawa, K., Niemiec, J., Medvedev, M., et al., “Simulation of Relativistic Shocks and Associated Radiation”, 2010ASPC...429...127N ADS
- Stein, R. F., Lagerfjård, A., Nordlund, Å., & Georgobiani, D., “Flux Emergence Simulations”, 2010shin.confE...82S ADS
- Padoan, P., Kritsuk, A. G., Lunttila, T., et al., “MHD Turbulence In Star-Forming Clouds”, 2010AIPC.1242...219P ADS
- Stein, R. F. & Nordlund, Å., “The Thermal Relaxation Time”, 2010AAS...21631302S ADS
- Stein, R. F., Lagerfjård, A., Nordlund, Å., & Georgobiani, D., “Supergranule Scale Flux Emergence Simulations”, 2010AAS...21621103S ADS
- Nishikawa, K.-I., Niemiec, J., M., et al., “Simulation Of Relativistic Shocks And Associated Self-consistent Radiation”, 2010HEAD...11.1403N ADS
- Nishikawa, K. I., Niemiec, J., Medvedev, M., et al., “Radiation from Relativistic Shocks with Turbulent Magnetic Fields”, 2010IJMPS...19...715N ADS
- Nordlund, Å. & Scharmer, G. B., “Convection and the Origin of Evershed Flows”, 2010ASSP...19...243N ADS
- Nordlund, Å., Stein, R. F., & Asplund, M., “Solar Surface Convection”, 2009LRSP...6...2N ADS
- Stein, R. F., Nordlund, Å., Georgobiani, D., Benson, D., & Schaffenberger, W., “Supergranulation-Scale Convection Simulations”, 2009ASPC...416...421S ADS
- Georgobiani, D., Zhao, J., Kosovichev, A., et al., “Comparing the Hinode and SOHO/MDI Data to the Simulated Large Scale Solar Convection”, 2009ASPC...415...421G ADS
- Stein, R. F., Lagerfjård, A., Nordlund, Å., et al., “Supergranulation Scale Convection Simulations”, 2009ASPC...415...63S ADS

- Stein, R. F., Lagerfjard, A., Nordlund, A., Georgobiani, D., & Benson, D., "Solar Magneto-Convection Simulations of Emergent Flux", 2009AGUFMSH11B...05S ADS
- Lunttila, T., Padoan, P., Juvela, M., & Nordlund, Å., "The Super-Alfvénic Model of Molecular Clouds: Predictions for Mass-to-Flux and Turbulent-to-Magnetic Energy Ratios", 2009ApJ...702L...37L ADS
- Nordlund, Å. & Stein, R. F., "Accurate Radiation Hydrodynamics and MHD Modeling of 3-D Stellar Atmospheres", 2009AIPC.1171..242N ADS
- Nordlund, A., "Solar Twins and Possible Solutions of the Solar and Jupiter Abundance Problems", 2009arXiv0908.3479N ADS
- Stein, R. F., Lagerfjard, A., Nordlund, A., et al., "Solar Magneto-Convection Simulations", 2009SPD...40.0401S ADS
- Georgobiani, D., Zhao, J., Kosovichev, A. G., et al., "Simulated Large Scale Solar Convection Versus Observations: A Multiwavelength Approach", 2009SPD...40.0301G ADS
- Nishikawa, K. I., Medvedev, M., Zhang, B., et al., "Radiation from relativistic jets in turbulent magnetic fields", 2009AIPC.1133..235N ADS
- Wedemeyer-Böhm, S., Lagg, A., & Nordlund, Å., "Coupling from the Photosphere to the Chromosphere and the Corona", 2009SSRv..144..317W ADS
- Stein, R. F., Georgobiani, D., Schafenberger, W., Nordlund, Å., & Benson, D., "Supergranulation Scale Convection Simulations", 2009AIPC.1094..764S ADS
- Megeath, S. T., Li, Z. Y., & Nordlund, Å., "The formation of distributed and clustered stars in molecular clouds", in G. Chabrier (Ed.), Structure Formation in Astrophysics, 228 2009sfa...book..228M ADS
- Wedemeyer-Böhm, S., Lagg, A., & Nordlund, Å., "Coupling from the Photosphere to the Chromosphere and the Corona", in M. J. Thompson, A. Balogh, J. L. Culhane, Å. Nordlund, S. K. Solanki, and J. P. Zahn (Eds.), The Origin and Dynamics of Solar Magnetism, Vol. 32, 317 2009odsm.book..317W ADS
- Thompson, M. J., Balogh, A., Culhane, J. L., et al.: 2009, *The Origin and Dynamics of Solar Magnetism*, Vol. 32 2009odsm.book....T ADS
- Kosovichev, A. G., Arlt, R., Bonanno, A., et al., "Solar Dynamo and Magnetic Self-Organization", 2009astro2010S.160K ADS
- Collet, R., Nordlund, Å., Asplund, M., Hayek, W., & Trampedach, R., "Abundance analysis of the halo giant HD 122563 with three-dimensional model stellar atmospheres", 2009MnSAI...80..719C ADS
- Nishikawa, K.-I., Hardee, P., Niemiec, J., et al., "Microscopic Processes On Radiation From Accelerated Particles In Relativistic Jets", 2009AAS...21332608N ADS
- Nordlund, Å., "Stellar (magneto-)convection", 2008PhST...133a4002N ADS
- Nishikawa, K. I., Niemiec, J., Sol, H., et al., "New Relativistic Particle-In-Cell Simulation Studies of Prompt and Early Afterglows from GRBs", 2008AIPC.1085..589N ADS
- Stein, R. F., Nordlund, A., Georgobiani, D., Benson, D., & Schafenberger, W., "Supergranulation Scale Connection Simulations", 2008arXiv0811.0472S ADS
- Lunttila, T., Padoan, P., Juvela, M., & Nordlund, Å., "The Super-Alfvénic Model of Molecular Clouds: Predictions for Zeeman Splitting Measurements", 2008ApJ...686L...91L ADS
- Frederiksen, J. T., Haugbølle, T., & Nordlund, Å., "Trans-Debye Scale Plasma Modeling & Stochastic GRB Wakefield Plasma Processes", 2008AIPC.1054...87F ADS
- Gustafsson, B., Edvardsson, B., Eriksson, K., et al., "A grid of MARCS model atmospheres for late-type stars. I. Methods and general properties", 2008A&A...486..951G ADS
- Scharmer, G. B., Nordlund, Å., & Heinemann, T., "Convection and the Origin of Evershed Flows in Sunspot Penumbrae", 2008ApJ...677L.149S ADS
- Nishikawa, K. I., Mizuno, Y., Hardee, P., et al., "Radiation from relativistic jets", 2008bvcs.confE..53N ADS
- Braun, D. C., Birch, A. C., Benson, D., Stein, R. F., & Nordlund, Å., "Helioseismic Holography of Simulated Solar Convection and Prospects for the Detection of Small-Scale Subsurface Flows", 2007ApJ...669.1395B ADS
- Heinemann, T., Nordlund, Å., Scharmer, G. B., & Spruit, H. C., "MHD Simulations of Penumbra Fine Structure", 2007ApJ...669.1390H ADS
- Stein, R. F., Benson, D., Georgobiani, D., Nordlund, Å., & Schaffenberger, W., "Surface Convection", 2007AIPC...948..111S ADS
- Stein, R. F., Benson, D., & Nordlund, A., "Solar Magneto-Convection Simulations", 2007ASPC...369...87S ADS
- Agertz, O., Moore, B., Stadel, J., et al., "Fundamental differences between SPH and grid methods", 2007MNRAS.380..963A ADS
- Archontis, V., Dorch, S. B. F., & Nordlund, Å., "Nonlinear MHD dynamo operating at equipartition", 2007A&A...472..715A ADS
- Nordlund, Å., "Gravitational Collapse in Turbulent Clouds", 2007sftn.confE..18N ADS
- Boley, A. C., Durisen, R. H., Nordlund, Å., & Lord, J., "Three-Dimensional Radiative Hydrodynamics for Disk Stability Simulations: A Proposed Testing Standard and New Results", 2007ApJ...665.1254B ADS
- Padoan, P., Nordlund, Å., Kritsuk, A. G., Norman, M. L., & Li, P. S., "Two Regimes of Turbulent Fragmentation and the Stellar Initial Mass Function from Primordial to Present-Day Star Formation", 2007ApJ...661..972P ADS
- Stein, R. F., Benson, D., Georgobiani, D., & Nordlund, Å., "Application of convection simulations to oscillation excitation and local helioseismology", 2007IAUS...239..331S ADS
- Stein, R. F. & Nordlund, A., "Realistic Solar Convection Simulations", 2007AAS...210.2205S ADS
- Zhao, J., Georgobiani, D., Kosovichev, A. G., et al., "Validating Time-Distance Helioseismology by Use of Realistic Simulations of Solar Convection", 2007AAS...210.2203Z ADS
- Braun, D., Birch, A. C., Benson, D., Stein, R. F., & Nordlund, A., "Helioseismic Holography of Simulated Solar Convection and Prospects for the Detection of Small-Scale Subsurface Flows", 2007AAS...210.2201B ADS
- Zhao, J., Georgobiani, D., Kosovichev, A. G., et al., "Validation of Time-Distance Helioseismology by Use of Realistic Simulations of Solar Convection", 2007ApJ...659..848Z ADS
- Georgobiani, D., Zhao, J., Kosovichev, A. G., et al., "Local Helioseismology and Correlation Tracking Analysis of Surface Structures in Realistic Simulations of Solar Convection", 2007ApJ...657.1157G ADS
- Samadi, R., Georgobiani, D., Trampedach, R., et al., "Excitation of solar-like oscillations across the HR diagram", 2007A&A...463..297S ADS
- Whitworth, A., Bate, M. R., Nordlund, Å., Reipurth, B., & Zinnecker, H., "The Formation of Brown Dwarfs: Theory", 2007prp1.conf..459W ADS
- Padoan, P., Nordlund, Å., Kritsuk, A. G., Norman, M. L., & Li, P. S., "The mass distribution of unstable cores in turbulent magnetized clouds", 2007IAUS...237..283P ADS
- Nordlund, Å., "The Future: Where are We Headed?", 2006ASPC...354..353N ADS
- Georgobiani, D., Stein, R. F., & Nordlund, Å., "Spatial and Temporal Spectra of Solar Convection", 2006ASPC...354..109G ADS
- Benson, D., Stein, R., & Nordlund, Å., "Supergranulation Scale Convection Simulations", 2006ASPC...354...92B ADS
- Boley, A. C., Durisen, R. H., Nordlund, A., & Lord, J., "A Test Suite for 3D Radiative Hydrodynamics Simulations of Protoplanetary Disks", 2006AAS...209.7606B ADS
- Stein, R. F., Benson, D., Georgobiani, D., & Nordlund, Å., "Supergranule scale convection simulations", 2006ESASP.624E..79S ADS
- Stein, R. F., Benson, D., & Nordlund, A., "Solar supergranulation-scale simulations", 2006IAUJD...17E..15S ADS
- De Pontieu, B., Carlsson, M., Stein, R., et al., "Rapid Temporal Variability of Faculae: High-Resolution Observations and Modeling", 2006ApJ...646.1405D ADS
- Benson, D., Stein, R. F., & Nordlund, A., "Supergranulation-Scale Simulations of the Solar Convection Zone", 2006SPD...37.3003B ADS
- Georgobiani, D., Zhao, J., Kosovichev, A. G., et al., "Time-Distance and Correlation Tracking Analyses of Convective Structures using Realistic Large-Scale Simulations of Solar Convection", 2006SPD...37.0509G ADS
- Stein, R. F. & Nordlund, Å., "Solar Small-Scale Magnetoconvection", 2006ApJ...642.1246S ADS
- Braithwaite, J. & Nordlund, Å., "Stable magnetic fields in stellar interiors", 2006A&A...450.1077B ADS
- Heinemann, T., Dobler, W., Nordlund, Å., & Brandenburg, A., "Radiative transfer in decomposed domains", 2006A&A...448..731H ADS
- Peter, H., Gudiksen, B. V., & Nordlund, Å., "Forward Modeling of the Corona of the Sun and Solar-like Stars: From a Three-dimensional Magnetohydrodynamic Model to Synthetic Extreme-Ultraviolet Spectra", 2006ApJ...638.1086P ADS
- Stein, R. F., Carlsson, M., de Pontieu, B., et al., "Simulated Solar Plages", 2006apri.meet...30S ADS
- Georgobiani, D., Zhao, J., Benson, D., et al., "Time-distance analysis of realistic simulations of solar convection", 2005AGUFMSH41A1117G ADS
- Busk Hededal, C. & Nordlund, Å., "Gamma-Ray Burst Synthetic Spectra from Collisionless Shock PIC Simulations", 2005astro.ph.11662B ADS
- Peter, H., Gudiksen, B. V., & Nordlund, A., "Coronal Heating Through Braiding of Magnetic Field Lines Synthesized Coronal EUV Emission and Magnetic Structure", 2005ESASP.596E..14P ADS
- Brandenburg, A., Chan, K. L., Nordlund, Å., & Stein, R. F., "Effect of the radiative background flux in convection", 2005AN...326..681B ADS
- Peter, H., Gudiksen, B. V., & Nordlund, Å., "EUV Emission from a 3D MHD Coronal Model: Temporal Variability in a Synthesized Corona", 2005ESASP.592..527P ADS
- Bingert, S., Peter, H., Gudiksen, B., & Nordlund, A., "The Structure of the Base of the Corona", 2005ESASP.592..471B ADS
- Dintrans, B., Brandenburg, A., Nordlund, Å., & Stein, R. F., "Spectrum and amplitudes of internal gravity waves excited by penetrative convection in solar-type stars", 2005A&A...438..365D ADS

- Nordlund, Å.: 2005, *Collisionless Shocks: Dynamics and Synthetic Spectra*, Presented at the KITP Program: Physics of Astrophysical Outflows and Accretion Disks, Jun 9, 2005, Kavli Institute for Theoretical Physics, University of California, Santa Barbara, id.18 2005paoa.progE..18N ADS
- Samadi, R., Goupil, M. J., Alecian, E., et al., "Excitation of Solar-like Oscillations: From PMS to MS Stellar Models", 2005JApA...26..171S ADS
- Hededal, C. B., Haugbølle, T., Frederiksen, J. T., & Nordlund, Å., "In situ particle acceleration in collisionless shocks", 2005NCiM...28..411H ADS
- Benson, D., Stein, R., & Nordlund, Å., "Supergranulation Scale Solar Convection Simulations", 2005AGUSMSP11C..05B ADS
- Gudiksen, B. V. & Nordlund, Å., "Erratum: "An AB Initio Approach to the Solar Coronal Heating Problem" (ApJ, 618, 1020 [2005])", 2005ApJ...623..600G ADS
- Gudiksen, B. V. & Nordlund, Å., "Erratum: "An AB Initio Approach to Solar Coronal Loops" (ApJ, 618, 1031 [2005])", 2005ApJ...623..597G ADS
- Peter, H., Gudiksen, B. V., & Nordlund, Å., "Tackling the coronal heating problem using 3D MHD coronal simulations with spectral synthesis", 2005ESASP.560...59P ADS
- Padoan, P., Kritsuk, A., Norman, M. L., & Nordlund, Å., "A Solution to the Pre-Main-Sequence Accretion Problem", 2005ApJ...622L..61P ADS
- Haugbølle, T., Hededal, C., Nordlund, Å., & Frederiksen, J. T., "Collisionless Plasma Shocks Field Generation and Particle Acceleration", 2005tsra.conf..684H ADS
- Nordlund, Å., "Old and New Paradigms for Planet Formation", 2005prp1.conf.8618N ADS
- Padoan, P., Kritsuk, A., Michael, Norman, L., & Nordlund, Å., "Brown dwarfs from turbulent fragmentation", 2005MmSAI...76..187P 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
- Gudiksen, B. V. & Nordlund, Å., "An AB Initio Approach to Solar Coronal Loops", 2005ApJ...618.1031G ADS
- Gudiksen, B. V. & Nordlund, Å., "An Ab Initio Approach to the Solar Coronal Heating Problem", 2005ApJ...618.1020G ADS
- Padoan, P. & Nordlund, Å., "The Stellar IMF as a Property of Turbulence", 2005ASSL...327..357P ADS
- Samadi, R., Georgobiani, D., Trampedach, R., et al., "Excitation rates of p modes: mass luminosity relation across the HR diagram", 2004sf2a.conf..323S ADS
- Bingert, S., Peter, H., Gudiksen, B., Nordlund, Å., & Dobler, W., "Analysis of Synthetic EUV Spectra from 3d Models of the Corona", 2004ESASP.575..348B ADS
- Peter, H., Gudiksen, B. V., & Nordlund, Å., "Synthetic EUV Spectra from 3D MHD Coronal Simulations: Coronal Heating Through Magnetic Braiding", 2004ESASP.575...50P ADS
- Hededal, C. B., Haugbølle, T., Frederiksen, J. T., & Nordlund, Å., "Non-Fermi Power-Law Acceleration in Astrophysical Plasma Shocks", 2004ApJ...617L..107H ADS
- Peter, H., Gudiksen, B. V., & Nordlund, Å., "Coronal Heating through Braiding of Magnetic Field Lines", 2004ApJ...617L..85P ADS
- Padoan, P. & Nordlund, Å., "The "Mysterious" Origin of Brown Dwarfs", 2004ApJ...617..559P ADS
- Nordlund, Å., "Magnetohydrodynamics of the Solar Atmosphere", 2004ASPC..325..165N ADS
- Benson, D., Stein, R., & Nordlund, Å., "Supergranulation Scale Solar Convection Simulations", 2004AAS...20517401B ADS
- Samadi, R., Goupil, M. J., Baudin, F., et al., "Oscillation Power Spectra of the Sun and of CEN α : Observations Versus Models", 2004ESASP.559..615S ADS
- Georgobiani, D., Stein, R. F., Nordlund, Å., Kosovichev, A. G., & Mansour, N. N., "High Degree Solar Oscillations in 3d Numerical Simulations", 2004ESASP.559..267G ADS
- Carlsson, M., Stein, R. F., Nordlund, Å., & Scharmer, G. B., "Observational Manifestations of Solar Magnetoconvection: Center-to-Limb Variation", 2004ApJ...610L.137C ADS
- Sarson, G. R., Shukurov, A., Nordlund, Å., Gudiksen, B., & Brandenburg, A., "Self-Regulating Supernova Heating in Interstellar Medium Simulations", 2004Ap&SS.292..267S ADS
- Boldyrev, S., Padoan, P., Jimenez, R., & Nordlund, Å., "Scaling Relations of Supersonic Turbulence in Molecular Clouds", 2004Ap&SS.292...61B ADS
- Frederiksen, J. T., Hededal, C. B., Haugbølle, T., & Nordlund, Å., "Magnetic Field Generation in Collisionless Shocks: Pattern Growth and Transport", 2004ApJ...608L..13F ADS
- Padoan, P., Jimenez, R., Nordlund, Å., & Boldyrev, S., "Structure Function Scaling in Compressible Super-Alfvénic MHD Turbulence", 2004PhRvL...92s1102P ADS
- Stein, R. F., Carlsson, M., Nordlund, Å., & Scharmer, G., "G-band Images from MHD Convection Simulations", 2004AAS...204.8804S 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
- Dintrans, B., Brandenburg, A., Nordlund, Å., & Stein, R. F., "Stochastic excitation of gravity waves by overshooting convection in solar-type stars", 2004astro.ph.3093D ADS
- Padoan, P., Jimenez, R., Juvela, M., & Nordlund, Å., "The Average Magnetic Field Strength in Molecular Clouds: New Evidence of Super-Alfvénic Turbulence", 2004ApJ...604L..49P ADS
- Shukurov, A., Sarson, G. R., Nordlund, Å., Gudiksen, B., & Brandenburg, A., "The effects of spiral arms on the multi-phase ISM", 2004Ap&SS.289..319S ADS
- Carlsson, M., Stein, R. F., Nordlund, Å., & Scharmer, G. B., "High resolution limb images synthesized from 3D MHD simulations", 2004IAUS...223..233C ADS
- Stein, R. F. & Nordlund, Å., "Magneto-Convection: Structure and Dynamics", 2004IAUS...223..179S ADS
- Gudiksen, B. V. & Nordlund, Å., "An Ab Initio Approach to the Solar Coronal Heating Problem", 2004IAUS...219..488G ADS
- Stein, R. F., Bogdan, T. J., Carlsson, M., et al., "Theory and Simulations of Solar Atmosphere Dynamics", 2004ESASP.547...93S ADS
- Bogdan, T. J., Carlsson, M., Hansteen, V. H., et al., "Waves in the Magnetized Solar Atmosphere. II. Waves from Localized Sources in Magnetic Flux Concentrations", 2003ApJ...599..626B ADS
- Archontis, V., Dorch, S. B. F., & Nordlund, Å., "Dynamo action in turbulent flows", 2003A&A...410..759A ADS
- Georgobiani, D., Stein, R. F., & Nordlund, Å., "What Causes p-Mode Asymmetry Reversal?", 2003ApJ...596..698G ADS
- Samadi, R., Nordlund, Å., Stein, R. F., Goupil, M. J., & Roxburgh, I., "Numerical 3D constraints on convective eddy time-correlations: Consequences for stochastic excitation of solar p modes", 2003A&A...404.1129S ADS
- Samadi, R., Nordlund, Å., Stein, R. F., Goupil, M. J., & Roxburgh, I., "Numerical constraints on the model of stochastic excitation of solar-type oscillations", 2003A&A...403..303S ADS
- Georgobiani, D., Stein, R. F., & Nordlund, Å., "Asymmetry reversal in solar acoustic modes", 2003ESASP.517..279G ADS
- Bercik, D. J., Nordlund, Å., & Stein, R. F., "Magnetoconvection and micropores", 2003ESASP.517..201B ADS
- Trampedach, R., Georgobiani, D., Stein, R. F., & Nordlund, Å., "Understanding the convective Sun", 2003ESASP.517..195T ADS
- Dintrans, B., Brandenburg, A., Nordlund, Å., & Stein, R. F., "On the generation of internal gravity waves by penetrative convection", 2003sf2a.conf..511D ADS
- Nordlund, Å., "Solar photosphere and convection", in B. N. Dwivedi and F. b. E. N. Parker (Eds.), *Dynamic Sun*, 148–164 2003dysu.book..148N ADS
- Nordlund, Å. & Padoan, P., "Star Formation and the Initial Mass Function", in E. Falgarone and T. Passot (Eds.), *Turbulence and Magnetic Fields in Astrophysics*, Vol. 614, 271–298 2003LNP...614..271N ADS
- Samadi, R., Nordlund, Å., Stein, R. F., Goupil, M. J., & Roxburgh, I., "Characterizing the Dynamic Properties of the Solar Turbulence with 3-D Simulations: Consequences in Term of p-mode Excitation", 2003IAUS...210P..C2S ADS
- Stein, R. F. & Nordlund, Å., "Solar Surface Magnetoconvection", 2003IAUS...210..169S ADS
- Hededal, C. B., Nordlund, Å., & Frederiksen, J. T., "Particle Acceleration in Relativistic Collisionless Shocks", 2003IAUJD...1E..12H ADS
- Padoan, P., Boldyrev, S., Langer, W., & Nordlund, Å., "Structure Function Scaling in the Taurus and Perseus Molecular Cloud Complexes", 2003ApJ...583..308P ADS
- Dintrans, B., Brandenburg, A., Nordlund, Å., & Stein, R. F., "Stochastic Excitation of Gravity Waves by Overshooting Convection in Solar-Type Stars", 2003Ap&SS.284..237D ADS
- Samadi, R., Goupil, M. J., Lebreton, Y., Nordlund, Å., & Baudin, F., "Seismic Diagnostics on Stellar Convection Treatment from Oscillation Amplitudes of p-modes", 2003Ap&SS.284..221S ADS
- Stein, R. F. & Nordlund, Å., "Radiative Transfer in 3D Numerical Simulations", 2003ASPC...288..519S ADS
- Stein, R. F., Bercik, D., & Nordlund, Å., "Solar Surface Magneto-Convection", 2003ASPC...286..121S ADS
- Archontis, V., Dorch, S. B. F., & Nordlund, Å., "Numerical simulations of kinematic dynamo action", 2003A&A...397..393A ADS
- Archontis, V. & Nordlund, Å., "Dynamo action in turbulent flows", 2002ESASP.505...95A ADS
- Stein, R. F. & Nordlund, Å., "Solar Surface Magneto-Convection and Dynamo Action", 2002ESASP.505...83S ADS
- Rieutord, M., Ludwig, H. G., Roudier, T., Nordlund, Å., & Stein, R., "A simulation of solar convection at supergranulation scale", 2002NCiM...25..523R ADS

- Stein, R. F., Bercik, D., & Nordlund, A., "Solar convection and magneto-convection simulations", 2002NCimC..25..513S ADS
- Padoan, P. & Nordlund, Å., "The Stellar Initial Mass Function from Turbulent Fragmentation", 2002ApJ...576..870P ADS
- Boldyrev, S., Nordlund, Å., & Padoan, P., "Supersonic Turbulence and Structure of Interstellar Molecular Clouds", 2002PhRvL..89c1102B ADS
- Boldyrev, S., Nordlund, Å., & Padoan, P., "Scaling Relations of Supersonic Turbulence in Star-forming Molecular Clouds", 2002ApJ...573..678B ADS
- Bogdan, T. J., Rosenthal, C. S., Carlsson, M., et al., "Waves in magnetic flux concentrations: The critical role of mode mixing and interference", 2002AN...323..196B ADS
- Samadi, R., Nordlund, A., Stein, R. F., Goupil, M. J., & Roxburgh, I., "Consequences of the non gaussian character of the stochastic excitation for solar-type oscillations", 2002sf2a.conf..489S ADS
- Thomsen, F. & Nordlund, A., "Stability and heating of magnetically driven jets from Keplerian accretion discs", 2002astro.ph..6394T ADS
- Gudiksen, B. V. & Nordlund, Å., "Bulk Heating and Slender Magnetic Loops in the Solar Corona", 2002ApJ...572L.113G ADS
- Keller, C. U., Stein, R. F., & Nordlund, A., "Observational Signatures of a Solar Small-Scale Global Dynamo", 2002AAS...200..8908K ADS
- Padoan, P., Boldyrev, S., & Nordlund, A., "Supersonic turbulence and structure of interstellar molecular clouds", 2002AAS...200..7319P ADS
- Nordlund, Å.: 2002, *The Structure and Dissipation of Hierarchical Current Sheets; When and How to Apply Adaptive Meshes, and When Not*, Presented at the KITP Program: Solar Magnetism and Related Astrophysics, Jan 30, 2002, Kavli Institute for Theoretical Physics, University of California, Santa Barbara, id.18 2002smra.progE..18N ADS
- Frederiksen, J. T., Hededal, C. B., Haugbølle, T., & Nordlund, Å., "Collisionless Shocks - Magnetic Field Generation and Particle Acceleration", 2002bjgr.conf..115F ADS
- Nordlund, Å. & Rognvaldsson, Ö., "Magnetic fields in young galaxies", 2002HiA...12..706N ADS
- Rosenthal, C. S., Bogdan, T. J., Carlsson, M., et al., "Waves in the Magnetized Solar Atmosphere. I. Basic Processes and Internetwork Oscillations", 2002ApJ...564..508R ADS
- Juvela, M., Padoan, P., & Nordlund, Å., "Cooling Rates of Molecular Clouds Based on Numerical Magneto-hydrodynamic Turbulence and Non-LTE Radiative Transfer", 2001ApJ...563..853J ADS
- Boldyrev, S., Nordlund, A., & Padoan, P., "Kolmogorov-Burgers Model for Turbulence in Molecular Clouds", 2001AAS...19914902B ADS
- Dorch, S. B. F., Gudiksen, B. V., Abbott, W. P., & Nordlund, Å., "Flux-loss of buoyant ropes interacting with convective flows", 2001A&A...380..734D ADS
- Padoan, P., Goodman, A., Draine, B. T., et al., "Theoretical Models of Polarized Dust Emission from Protostellar Cores", 2001ApJ...559..1005P ADS
- Torkelsson, U., Ogilvie, G. I., Brandenburg, A., et al., "Magneto-hydrodynamic turbulence in warped accretion discs", 2001AIPC..586..681T 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
- Padoan, P., Juvela, M., Goodman, A. A., & Nordlund, Å., "The Turbulent Shock Origin of Proto-Stellar Cores", 2001ApJ...553..227P ADS
- Bogdan, T. J., Rosenthal, C. S., Carlsson, M., et al., "Wave Propagation in a Magnetized Atmosphere", 2001AGUSM..5H41A01B ADS
- Dorch, S. B. F. & Nordlund, Å., "Convective Pumping of Magnetic Fields: On the Flux Storage Problem for Solar-like Dynamos", 2001IAUS..203..186D ADS
- Rosenthal, C. S., Carlsson, M., Hansteen, V., et al., "Waves in the Magnetized Solar Atmosphere", 2001IAUS..203..170R ADS
- Stein, R. F. & Nordlund, Å., "Solar Oscillations and Convection. II. Excitation of Radial Oscillations", 2001ApJ...546..585S ADS
- Nordlund, Å. & Stein, R. F., "Solar Oscillations and Convection. I. Formalism for Radial Oscillations", 2001ApJ...546..576N ADS
- Padoan, P., Nordlund, Å., Rognvaldsson, Ö. E., & Goodman, A., "Turbulent Fragmentation and the Initial Conditions for Star Formation", 2001ASPC..243..279P ADS
- Allende Prieto, C., Asplund, M., García López, R. J., Lambert, D. L., & Nordlund, Å., "R200,000 Spectroscopic Observations of Procyon. The Surface Convection and Radial Velocity (CD-ROM Directory: contribs/allende2)", 2001ASPC..223..760A ADS
- Dorch, S. B. F. & Nordlund, Å., "On the transport of magnetic fields by solar-like stratified convection", 2001A&A...365..562D ADS
- Bercik, D. J., Stein, R. F., & Nordlund, A., "Magneto-Convection in Micropores", 2000AAS...197.3105B ADS
- Nordlund, Å., "Solar Interior: Convection Theory", in P. Mordin (Ed.), *Encyclopedia of Astronomy and Astrophysics*, 1996 2000eaa..bookE1996N ADS
- Nordlund, A. & Rognvaldsson, Ö. E., "Magnetic Fields in Young Galaxies", 2000astro.ph.10499 ADS
- Torkelsson, U., Ogilvie, G. I., Brandenburg, A., et al., "The response of a turbulent accretion disc to an imposed epicyclic shearing motion", 2000MNRAS.318...47T ADS
- Skartlien, R., Stein, R. F., & Nordlund, Å., "Excitation of Chromospheric Wave Transients by Collapsing Granules", 2000ApJ...541..468S ADS
- Padoan, P., Zweibel, E., & Nordlund, Å., "Ambipolar Drift Heating in Turbulent Molecular Clouds", 2000ApJ...540..332P ADS
- Brandenburg, A., Nordlund, A., & Stein, R. F., "Astrophysical convection and dynamos", 2000gac.conf..85B ADS
- Asplund, M., Nordlund, Å., Trampedach, R., & Stein, R. F., "Line formation in solar granulation. II. The photospheric Fe abundance", 2000A&A...359..743A ADS
- Asplund, M., Nordlund, Å., Trampedach, R., Allende Prieto, C., & Stein, R. F., "Line formation in solar granulation. I. Fe line shapes, shifts and asymmetries", 2000A&A...359..729A 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
- Nordlund, Å., Dorch, S. B. F., & Stein, R. F., "Magnetoconvection and the Solar Dynamo", 2000JApA...21..307N ADS
- Padoan, P., Zweibel, E., & Nordlund, Å., "Ambipolar Drift Heating in Turbulent Molecular Clouds", 2000ESASP.445..479P ADS
- Torkelsson, U., Brandenburg, A., Nordlund, A., & Stein, R. F., "Magneto-hydrodynamic Turbulence in Accretion Discs", 2000IAUS..195..241T ADS
- Nordlund, Å.: 2000a, *Star Formation and Supersonic Turbulence*, Presented at the KITP Program: Astrophysical Turbulence, Apr 20, 2000, Kavli Institute for Theoretical Physics, University of California, Santa Barbara, id.20 2000astu.progE..20N ADS
- Nordlund, Å.: 2000b, *Dynamo Mechanisms: Continued Discussion*, Presented at the KITP Program: Astrophysical Turbulence, Apr 13, 2000, Kavli Institute for Theoretical Physics, University of California, Santa Barbara, id.19 2000astu.progE..19N ADS
- Galsgaard, K., Priest, E. R., & Nordlund, Å., "Three-dimensional Separator Reconnection - How Does It Occur?", 2000SoPh..193...1G ADS
- Stein, R. F. & Nordlund, Å., "Realistic Solar Convection Simulations", 2000SoPh..192...91S ADS
- Stein, R. F. & Nordlund, Å., "Realistic Solar Surface Convection Simulations", 2000NYASA.898...21S ADS
- Georgobiani, D., Kosovichev, A. G., Nigam, R., Nordlund, Å., & Stein, R. F., "Numerical Simulations of Oscillation Modes of the Solar Convection Zone", 2000ApJ...530L.139G ADS
- Nordlund, A. & Rognvaldsson, Ö. E., "Magnetic Fields in Young Galaxies", 2000IAUJD...14E...2N ADS
- Dorch, S. B. F. & Nordlund, Å., "The Solar Dynamo: Flux Pumping by Stratified Convection", 2000ESASP.463..305D ADS
- Padoan, P., Juvela, M., Bally, J., & Nordlund, Å., "A Comparison of ¹³CO Local Thermodynamic Equilibrium and True Column Densities in Molecular Cloud Models", 2000ApJ...529..259P ADS
- Ludwig, H.-G. & Nordlund, A., "The atmospheric dynamics in 2D and 3D simulations of stellar surface convection", 2000ASSL..254...37L ADS
- Nordlund, Å. & Stein, R. F., "3-D Convection Models: Are They Compatible with 1-D Models?", 2000ASPC..203..362N ADS
- Dorch, S. B. F. & Nordlund, Å., "Erratum: Numerical 3D simulations of buoyant magnetic flux tubes", 2000A&A...353.1139D ADS
- Dorch, S. B. F., Archontis, V., & Nordlund, Å., "3D simulations of twisted magnetic flux ropes", 1999A&A...352L..79D ADS
- Padoan, P. & Nordlund, Å., "A Super-Alfvénic Model of Dark Clouds", 1999ApJ...526..279P ADS
- Padoan, P., Bally, J., Billawala, Y., Juvela, M., & Nordlund, Å., "Supersonic Turbulence in the Perseus Molecular Cloud", 1999ApJ...525..318P ADS
- Rosenthal, C. S., Christensen-Dalsgaard, J., Nordlund, Å., Stein, R. F., & Trampedach, R., "Convective contributions to the frequencies of solar oscillations", 1999A&A...351..689R ADS
- Galsgaard, K., Mackay, D. H., Priest, E. R., & Nordlund, Å., "On the location of energy release and temperature profiles along coronal loops", 1999SoPh..189...95G ADS
- Asplund, M., Nordlund, Å., Trampedach, R., & Stein, R. F., "3D hydrodynamical model atmospheres of metal-poor stars. Evidence for a low primordial Li abundance", 1999A&A...346L..17A ADS
- Alencar, S. H. P., Vaz, L. P. R., & Nordlund, Å., "The gravity-brightening effect and stellar atmospheres. II Results for illuminated models with 3 700 K < T_{eff} < 7 000 K", 1999A&A...346..556A ADS
- Georgobiani, D. G., Nigam, R., Kosovichev, A. G., Stein, R. F., & Nordlund, A., "Three-dimensional simulations of solar oscillations: line profiles and asymmetries", 1999AAS...194.5605G ADS
- Bercik, D. J., Stein, R. F., & Nordlund, A., "Near Surface Magneto-Convection", 1999AAS...194.5501B ADS

- Stein, R. F., Bercik, D., Georgobiani, D., & Nordlund, A., "Realistic Simulations of Solar Surface Convection", 1999AAS...194.2104S ADS
- Korpi, M. J., Brandenburg, A., Shukurov, A., Tuominen, I., & Nordlund, Å., "A Supernova-regulated Interstellar Medium: Simulations of the Turbulent Multiphase Medium", 1999ApJ...514L..99K ADS
- Padoan, P. & Nordlund, Å. K., "Super-Alfvénic Turbulent Fragmentation in Molecular Clouds", 1999intu.conf..248P ADS
- Nordlund, Å. K. & Padoan, P., "The Density PDFs of Supersonic Random Flows", 1999intu.conf..218N ADS
- Nordlund, Å. & Stein, R. F., "Solar Convection and MHD", 1999ASSL..240..293N ADS
- Goode, P., Strous, L., Rimmele, T., Stein, R., & Nordlund, Å., "The Excitation of Solar Oscillations – Observations and Simulations", 1999ASPC..183..456G ADS
- Trampedach, R., Stein, R. F., Christensen-Dalsgaard, J., & Nordlund, Å., "Stellar Evolution with a Variable Mixing-Length Parameter", 1999ASPC..173..233T ADS
- Asplund, M., Nordlund, Å., & Trampedach, R., "Confrontation of Stellar Surface Convection Simulations with Stellar Spectroscopy", 1999ASPC..173..221A ADS
- Stein, R. F., Georgobiani, D., Bercik, D. J., Brandenburg, A., & Nordlund, Å., "Magneto-Convection", 1999ASPC..173..193S ADS
- Nordlund, Å. & Stein, R. F., "Convection Simulations", 1999ASPC..173..091N ADS
- Torkelsson, U., Ogilvie, G. I., Pringle, J. E., et al., "The Dynamics of Turbulent Viscosity", 1999ASPC..161..422T ADS
- van Ballegoijen, A. A., Nissen, P., Noyes, R. W., et al., "Dynamics of Magnetic Flux Elements in the Solar Photosphere", 1998ApJ...509..435V ADS
- Trampedach, R., Christensen-Dalsgaard, J., Nordlund, A., & Stein, R. F., "Stellar background power spectra from hydrodynamical simulations of stellar atmospheres", 1998mons.proc...59T ADS
- Dorch, S. B. F. & Nordlund, A., "Numerical 3D simulations of buoyant magnetic flux tubes", 1998A&A...338..329D ADS
- Padoan, P., Juvela, M., Bally, J., & Nordlund, Å., "Synthetic Molecular Clouds from Supersonic Magnetohydrodynamic and Non-LTE Radiative Transfer Calculations", 1998ApJ...504..300P ADS
- Stein, R. F. & Nordlund, Å., "Simulations of Solar Granulation. I. General Properties", 1998ApJ...499..914S ADS
- Torkelsson, U., Ogilvie, G. I., Brandenburg, A., Nordlund, A. t., & Stein, R. F., "Exploring magnetohydrodynamic turbulence on the computer", 1998AIPC..431..69T ADS
- Nordlund, A. & Stein, R. F., "The excitation and damping of p-modes", 1998IAUS..185..199N ADS
- Stein, R. F. & Nordlund, Å., "Convection and p-modes", 1998ESASP.418..693S ADS
- Rosenthal, C. S., Christensen-Dalsgaard, J., Kosovichev, A. G., et al., "Tests of Convective Frequency Effects with SOI/MDI High-Degree Data", 1998ESASP.418..521R ADS
- Bercik, D. J., Basu, S., Georgobiani, D., Nordlund, A., & Stein, R. F., "Solar Magneto-Convection", 1998ASPC..154..568B ADS
- Stein, R. F., Bercik, D. J., Brandenburg, A., Georgobiani, D., & Nordlund, A., "Solar Magneto-Convection", 1998AAS...191.7417S ADS
- Nordlund, A. & Stein, R., "Stellar Convection; general properties", 1997ASSL..225...79N ADS
- Trampedach, R., Christensen-Dalsgaard, J., Nordlund, A., & Stein, R., "Near-surface constraints on the structure of stellar convection zones", 1997ASSL..225...73T ADS
- Nordlund, A., Spruit, H. C., Ludwig, H. G., & Trampedach, R., "Is stellar granulation turbulence?", 1997A&A...328..229N ADS
- Padoan, P., Nordlund, A., & Jones, B. J. T., "The universality of the stellar initial mass function", 1997MNRAS.288..145P ADS
- Padoan, P., Nordlund, A. t., & Jones, B. J. T., "A physical model for the stellar IMF", 1997AIPC..393..101P ADS
- Padoan, P., Jones, B. J. T., & Nordlund, Å., "Structure of dark clouds from stellar extinction", 1997AIPC..393..97P ADS
- Nordlund, A. & Galsgaard, K., "Topologically Forced Reconnection", in G. M. Simnett, C. E. Alissandrakis, and L. Vlahos (Eds.), European Meeting on Solar Physics, Vol. 489, 179 1997LNP...489..179N ADS
- Torkelsson, U., Ogilvie, G. I., Brandenburg, A., Nordlund, Å., & Stein, R. F., "The nonlinear evolution of a single mode of the magnetic shearing instability", in E. Meyer-Hofmeister and H. Spruit (Eds.), Accretion Disks - New Aspects, Vol. 487, 135 1997LNP...487..135T ADS
- Galsgaard, K. & Nordlund, Å., "Heating and activity of the solar corona. 3. Dynamics of a low beta plasma with three-dimensional null points", 1997JGR...102..231G ADS
- Galsgaard, K. & Nordlund, Å., "Heating and activity of the solar corona. 2. Kink instability in a flux tube", 1997JGR...102..219G ADS
- Padoan, P., Jones, B. J. T., & Nordlund, Å. P., "Supersonic Turbulence in the Interstellar Medium: Stellar Extinction Determinations as Probes of the Structure and Dynamics of Dark Clouds", 1997ApJ...474..730P ADS
- Galsgaard, K., Rickard, G. J., Reddy, R. V., & Nordlund, Å., "Double null points and magnetic reconnection", 1997AdSpR..19.1785G ADS
- Stein, R. F., Carlsson, M., & Nordlund, A., "Numerical Simulations Can Lead to New Insights", 1997ASPC..123...72S ADS
- Torkelsson, U., Brandenburg, A., Nordlund, A., & Stein, R. F., "Magnetohydrodynamic Turbulence in Accretion Discs: Towards More Realistic Models", 1997ASPC..121..210T ADS
- Galsgaard, K. & Nordlund, Å., "Heating and activity of the solar corona I. Boundary shearing of an initially homogeneous magnetic field", 1996JGR...10113445G ADS
- Nordlund, Å., Stein, R. F., & Brandenburg, A., "Supercomputer windows into the solar convection zone", 1996BASI...24..261N ADS
- Brandenburg, A., Nordlund, A., Stein, R. F., & Torkelsson, U., "The Disk Accretion Rate for Dynamo-generated Turbulence", 1996ApJ...458L..45B ADS
- Basu, S., Bercik, D. J., Nordlund, A., & Stern, R. F., "Solar Convection and Magneto-Convection", 1996mpsa.conf..621B ADS
- Brandenburg, A., Nordlund, Å., Stein, R. F., & Torkelsson, U., "Dynamo-generated turbulence in disks: value and variability of alpha.", 1996bpad.conf..285B ADS
- Brandenburg, A., Jennings, R. L., Nordlund, Å., et al., "Magnetic structures in a dynamo simulation", 1996JFM...306..325B ADS
- Torkelsson, U., Brandenburg, A., Nordlund, Å., & Stein, R. F., "The Turbulent Viscosity in Accretion Discs", 1996ApL&C..34..383T ADS
- Galsgaard, K. & Nordlund, Å., "Coronal Heating by Flux Braiding", 1996ApL&C..34..175G ADS
- Galsgaard, K., Rickard, G. J., Reddy, R. V., & Nordlund, A., "Dynamic Properties of Single and Double 3D Null Points", 1996ASPC..111..82G ADS
- Kiselman, D. & Nordlund, A., "3D non-LTE line formation in the solar photosphere and the solar oxygen abundance.", 1995A&A...302..578K ADS
- Rosenthal, C. S., Christensen-Dalsgaard, J., Houdek, G., et al., "Seismology of the Solar Surface Regions", 1995ESASP.376b.459R ADS
- Rosenthal, C. S., Christensen-Dalsgaard, J., Nordlund, A., & Trampedach, R., "Convective Perturbations to Solar Oscillations: the f-MODE", 1995ESASP.376b.453R ADS
- Brandenburg, A., Nordlund, A., Stein, R. F., & Torkelsson, U., "Dynamo-generated Turbulence and Large-Scale Magnetic Fields in a Keplerian Shear Flow", 1995ApJ...446..741B ADS
- Brandenburg, A., Nordlund, Å., Stein, R. F., & Torkelsson, U., "Dynamo Generated Turbulence in Discs", in M. Meneguzzi, A. Pouquet, and P.-L. Sulem (Eds.), Small-Scale Structures in Three-Dimensional Hydrodynamic and Magnetohydrodynamic Turbulence, Vol. 462, 385 1995LNP...462..385B ADS
- Nordlund, A. & Stein, R. F., "Convection; Significance for Stellar Structure and Evolution", 1995LIACo..32...75N ADS
- Christensen-Dalsgaard, J., Bedding, T. R., Houdek, G., et al., "Near-surface Effects in Modelling Oscillations of Eta Boo", 1995ASPC...83..447C ADS
- Basu, S., Bercik, D. J., Nordlund, A., & Stein, R. F., "Modeling of the Solar Convection Zone", 1994AAS...185.4402B ADS
- Galsgaard, K. & Nordlund, Å., "Dynamic behavior and topology of 3D magnetic fields", 1994SSRv...68...75G ADS
- Stein, R. F. & Nordlund, A., "Subphotospheric Convection", 1994IAUS..154..225S ADS
- Nordlund, Å., Galsgaard, K., & Stein, R. F., "Magnetocovection and magnetoturbulence", 1994ASIC..433..471N ADS
- Rast, M. P., Nordlund, A., Stein, R. F., & Toomre, J., "Ionization Effects in Three-dimensional Solar Granulation Simulations", 1993ApJ...408L..53R ADS
- Pulkkinen, P., Tuominen, I., Brandenburg, A., & Nordlund, A., "Reynolds Stresses Derived from Simulations", 1993IAUS..157..123P ADS
- Dravins, D., Lindegren, L., Nordlund, A., & Vandenberg, D. A., "The Distant Future of Solar Activity: A Case Study of beta Hydri. I. Stellar Evolution, Lithium Abundance, and Photospheric Structure", 1993ApJ...403..385D ADS
- Rast, M. P., Nordlund, A., Stein, R. F., & Toomre, J., "Ionization Effects on Solar Granulation Dynamics", 1993ASPC...42...57R ADS
- Pulkkinen, P., Tuominen, I., Brandenburg, A., Nordlund, A., & Stein, R. F., "Rotational effects on convection simulated at different latitudes", 1993A&A...267..265P ADS
- Jennings, R. L., Brandenburg, A., Nordlund, A., & Stein, R. F., "Evolution of a magnetic flux tube in two-dimensional penetrative convection", 1992MNRAS.259..465J ADS
- Jorgensen, U. G., Johnson, H. R., & Nordlund, A., "Effects of sphericity in carbon star atmospheres.", 1992A&A...261..263J ADS

- Nordlund, A., Brandenburg, A., Jennings, R. L., et al., "Dynamo Action in Stratified Convection with Overshoot", 1992ApJ...392..647N ADS
- Plez, B., Brett, J. M., & Nordlund, A., "Spherical opacity sampling model atmospheres for M-giants. I. Techniques, data and discussion.", 1992A&A...256..551P ADS
- Dravins, D., Linde, P., Ayres, T. R., et al., "The distant future of solar activity: a case study of beta Hydri (abstract)", 1992scw.conf..105D ADS
- Plez, B., Brett, J. M., & Nordlund, A., "Spherical opacity samples of model atmospheres for M giants and supergiants", 1992iesh.conf..119P ADS
- Galsgaard, K. & Nordlund, A., "Deformation of Magnetic Null Points", in Z. Svestka, B. V. Jackson, and M. E. Machado (Eds.), IAU Colloq. 133: Eruptive Solar Flares, Vol. 399, 343 1992LNP...399..343G ADS
- Jorgensen, U. G., Johnson, H. R., & Nordlund, A., "Spherical Models for Carbon Stars", 1992ASPC...26..540J ADS
- Stein, R. F., Brandenburg, A., & Nordlund, A., "Magnet Convection (Invited Review)", 1992ASPC...26..148S ADS
- Nordlund, A. & Galsgaard, K., "Large scale simulations", 1992AIPC...267..13N ADS
- Chan, K. L., Nordlund, A., Steffen, M., & Stein, R. F., "Recent development in solar convection theory.", in Solar Interior and Atmosphere, 223-274 1991isia.book..223C ADS
- Galsgaard, K. & Nordlund, A., "The Significance of Magnetic Null Points (With 1 Figure)", 1991mcch.conf..541G ADS
- Stein, R. F. & Nordlund, A., "Magnetoacoustic Waves and Their Generation by Convection (With 15 Figures)", 1991mcch.conf..386S ADS
- Nordlund, A. & Stein, R. F., "Convection and p-modes.", 1991dsoo.conf..37N ADS
- Stein, R. F. & Nordlund, A., "Convection and Its Influence on Oscillations", in D. Gough and J. Toomre (Eds.), Challenges to Theories of the Structure of Moderate-Mass Stars, Vol. 388, 195 1991LNP...388..195S ADS
- Nordlund, A. & Stein, R. F., "Granulation: Non-adiabatic Patterns and Shocks", in D. Gough and J. Toomre (Eds.), Challenges to Theories of the Structure of Moderate-Mass Stars, Vol. 388, 141 1991LNP...388..141N ADS
- Pulkkinen, P., Tuominen, I., Brandenburg, A., Nordlund, A., & Stein, R. F., "Rotational Effects on Reynolds Stresses in the Solar Convection Zone", in I. Tuominen, D. Moss, and G. Rüdiger (Eds.), IAU Colloq. 130: The Sun and Cool Stars. Activity, Magnetism, Dynamos, Vol. 380, 98 1991LNP...380..98P ADS
- Jennings, R. L., Brandenburg, A., Nordlund, A., Stein, R. F., & Tuominen, I., "Magnetic Tubes in Overshooting Compressible Convection", in I. Tuominen, D. Moss, and G. Rüdiger (Eds.), IAU Colloq. 130: The Sun and Cool Stars. Activity, Magnetism, Dynamos, Vol. 380, 92 1991LNP...380..92J ADS
- Galsgaard, K. & Nordlund, A., "Vector Potential Magnetic Null Points", in I. Tuominen, D. Moss, and G. Rüdiger (Eds.), IAU Colloq. 130: The Sun and Cool Stars. Activity, Magnetism, Dynamos, Vol. 380, 89 1991LNP...380..89G ADS
- Brandenburg, A., Jennings, R. L., Nordlund, A., Stein, R. F., & Tuominen, I., "The Role of Overshoot in Solar Activity - a Direct Simulation of the Dynamo", in I. Tuominen, D. Moss, and G. Rüdiger (Eds.), IAU Colloq. 130: The Sun and Cool Stars. Activity, Magnetism, Dynamos, Vol. 380, 86 1991LNP...380..86B ADS
- Nordlund, A. & Stein, R. F., "Dynamics of an Radiative Transfer in Inhomogeneous Media", 1991ASIC..341..263N ADS
- Nordlund, A., "NLTE Spectral Line Formation in Three Dimensions", 1991ASIC..341..61N ADS
- Dravins, D., Linde, P., Ayres, T. R., et al., "The distant future of solar activity - A case study of Beta Hydri", 1990ESASP.310..323D ADS
- Brandenburg, A., Tuominen, I., Nordlund, A., Pulkkinen, P., & Stein, R. F., "3-D simulation of turbulent cyclonic magneto-convection.", 1990A&A...232..277B ADS
- Nordlund, A. & Stein, R. F., "3-D simulations of solar and stellar convection and magnetoconvection", 1990CoPhC..59..119N ADS
- Nordlund, A. & Vaz, L. P. R., "The reflection effect in model stellar atmospheres. II - The bolometric reflection albedo in non-grey atmospheres with convection", 1990A&A...228..231N ADS
- Dravins, D. & Nordlund, A., "Stellar granulation. V. Synthetic spectral lines in disk-integrated starlight.", 1990A&A...228..203D ADS
- Dravins, D. & Nordlund, A., "Stellar granulation. IV. Line formation in inhomogeneous stellar photospheres.", 1990A&A...228..184D ADS
- Nordlund, A. & Dravins, D., "Stellar granulation. III. Hydrodynamic model atmospheres.", 1990A&A...228..155N ADS
- Plez, B. & Nordlund, A., "Model Atmospheres for M Giants", 1990fmpn.coll...88P ADS
- Brandenburg, A., Nordlund, A., Pulkkinen, P., Stein, R. F., & Tuominen, I., "Turbulent diffusivities derived from simulations.", 1990fas.conf...1B ADS
- Dravins, D., Linde, P., Ayres, T. R., et al., "The distant future of solar activity - a case study of Beta Hydri.", 1990apsu.conf...17D ADS
- Stein, R. F. & Nordlund, A., "Driving and Damping of Oscillations", in Y. Osaki and H. Shibahashi (Eds.), Progress of Seismology of the Sun and Stars, Vol. 367, 93 1990LNP...367..93S ADS
- Nordlund, A. & Stein, R. F., "Solar Magnetoconvection", 1990IAUS...138..191N ADS
- Spruit, H. C., Nordlund, A., & Title, A. M., "Solar convection.", 1990ARA&A...28..263S ADS
- Stein, R. F. & Nordlund, A., "Topology of Convection beneath the Solar Surface", 1989ApJ...342L..95S ADS
- Nordlund, A. & Stein, R. F., "Simulating Magnetoconvection", 1989ASIC..263..453N ADS
- Stein, R. F., Nordlund, A., & Kuhn, J. R., "Convection and Waves", 1989ASIC..263..381S ADS
- Lites, B. W., Nordlund, A., & Scharmer, G. B., "Constraints Imposed by Very High Resolution Spectra and Images on Theoretical Simulations of Granular Convection", 1989ASIC..263..349L ADS
- Stein, R. F., Nordlund, A., & Kuhn, J. R., "Convection and p-mode oscillations.", 1988ESASP.286..529S ADS
- Nordlund, A. & Stein, R. F., "What Does the Sun Look Like Beneath the Surface?", 1988BAAS...20..702N ADS
- Dravins, D. & Nordlund, A., "Stellar Granulation: Photospheric Line Asymmetries and Hydrodynamic Model Atmospheres", 1986BAAS...18.1002D ADS
- Dravins, D., Larsson, B., & Nordlund, A., "Solar Fe II line asymmetries and wavelength shifts.", 1986A&A...158..83D ADS
- Vaz, L. P. R. & Nordlund, A., "The reflection effect in model stellar atmospheres. I. Grey atmospheres with convection.", 1986RMxAA...12..190V ADS
- Ribeiro Vaz, L. P. & Nordlund, A., "The Reflection Effect in Model Stellar Atmospheres I: Grey Atmospheres with Convection", 1986RMxAA...12..190R ADS
- Nordlund, A., "3-D Model Calculations", 1986ssmf.conf...83N ADS
- Nordlund, A., "Solar Convection", 1985SoPh...100..209N ADS
- Nordlund, A., "The 3-D Structure of the Magnetic Field and its Interaction with Granulation", 1985tphr.conf..101N ADS
- Nordlund, A., "The Dynamics of Granulation and its Interaction with the Radiation Field", 1985tphr.conf...1N ADS
- Wöhl, H. & Nordlund, A., "A Comparison of Artificial Solar Granules with Real Solar Granules", 1985SoPh...97..213W ADS
- Vaz, L. P. R. & Nordlund, A., "The reflection effect in model stellar atmospheres. I - Grey atmospheres with convection", 1985A&A...147..281V ADS
- Nordlund, A., "The 3-D structure of the magnetic field, and its interaction with granulation.", 1985MPARp.212..101N ADS
- Nordlund, A., "The dynamics of granulation, and its interaction with the radiation field.", 1985MPARp.212...1N ADS
- Nordlund, A., "NLTE spectral line formation in a three-dimensional atmosphere with velocity fields.", 1985ASIC..152..215N ADS
- Nordlund, A., "Magnetoconvection: the interaction of convection and small scale magnetic fields.", 1984ESASP.220...37N ADS
- Brinkman, A. C., Hovenier, J. W., Wittenberg, H., et al., "Book-Review - Guidance and Control 1983", 1984SSRv...39..215B ADS
- Nordlund, A., "Interaction of convection and small-scale magnetic fields: influence on the solar luminosity.", 1984NASCP2310..121N ADS
- Eriksson, K., Gustafsson, B., Jorgensen, U. G., & Nordlund, A., "Effects of HCN molecules in carbon star atmospheres.", 1984A&A...132...37E ADS
- Nordlund, A., "Modelling of Small-Scale Dynamical Processes: Convection and Wave Generation (Keynote)", 1984ssdp.conf..181N ADS
- Nordlund, A., "A Re-evaluation of the Granular Δ Irms", 1984ssdp.conf..174N ADS
- Nordlund, A., "Iterative solution of radiative transfer problems with spherical symmetry using a single-ray approximation.", in Methods in Radiative Transfer, 211-233 1984mrt.book..211N ADS
- Bray, R. J., Loughhead, R. E., Durrant, C. J., & Nordlund, A., "Book-Review - the Solar Granulation", 1984SSRv...39R.222B ADS
- Eriksson, K., Gustafsson, B., Jorgensen, U. G., & Nordlund, A., "HCN and C2H2 in Carbon Stars", 1984IAUS...105..199E ADS
- Nordlund, A., "Small Scale Magnetic Field Structure and Evolution", 1983BAAS...15..710N ADS
- Nordlund, A., "Numerical 3-D simulations of the collapse of photospheric flux tubes", 1983IAUS...102...79N ADS
- Nordlund, A., "Photospheric sources of magnetic field aligned currents", 1983ASSL..102..601N ADS
- Nordlund, A., "Numerical simulations of the solar granulation. I. Basic equations and methods.", 1982A&A...107...1N ADS
- Scharmer, G. B. & Nordlund, A., "DQPT: a computer program for solving non-LTE problems for two-level atoms in one-dimensional semi-infinite media with velocity fields.", 1982StoOR..19.....S ADS

- Dravins, D., Lindegren, L., & Nordlund, A., “*Solar granulation - Influence of convection on spectral line asymmetries and wavelength shifts*”, 1981A&A...96..345D [ADS](#)
- Nordlund, Å., “*Numerical simulation of the solar granulation*”, in D. F. Gray and J. L. Linsky (Eds.), IAU Colloq. 51: Stellar Turbulence, Vol. 114, 17–18 1980LNP...114R..17N [ADS](#)
- Nordlund, A., “*Numerical simulation of granular convection - Effects on photospheric spectral line profiles*”, in D. F. Gray and J. L. Linsky (Eds.), IAU Colloq. 51: Stellar Turbulence, Vol. 114, 213–224 1980LNP...114..213N [ADS](#)
- Nordlund, A., “*Solar granulation and the nature of “microturbulence”*”, 1978bs...symp...95N [ADS](#)
- Nordlund, A., “*Convective Overshooting in the Solar Photosphere; a Model Granular Velocity Field*”, in E. A. Spiegel and J. P. Zahn (Eds.), Problems of Stellar Convection, Vol. 71, 237 1977LNP...71..237N [ADS](#)
- Nordlund, A., “*A two-component representation of stellar atmospheres with convection*”, 1976A&A...50...23N [ADS](#)
- Nordlund, A.: 1976b, *Theories for convection in stellar atmospheres*. 1976tcsa.book...N [ADS](#)
- Nordlund, Å.: 1976c, “*Theories for convection in stellar atmospheres*”, *Ph.D. thesis*, Stockholm University 1976PhDT.....51N [ADS](#)
- Bell, R. A., Eriksson, K., Gustafsson, B., & Nordlund, A., “*A grid of model atmospheres for metal-deficient giant stars. II.*”, 1976A&S...23...37B [ADS](#)
- Gustafsson, B., Bell, R. A., Eriksson, K., & Nordlund, A., “*A grid of model atmospheres for metal-deficient giant stars. I.*”, 1975A&A...42..407G [ADS](#)
- Nordlund, A., “*On Convection in Stellar Atmospheres*”, 1974A&A...32..407N [ADS](#)