# Aake Nordlund

List of Publications by Year
in descending order

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| 220 | 17,301 | 15466 65 | 15218 126 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 233 | 233 | 233 | 8337 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A pebble accretion model for the formation of the terrestrial planets in the Solar System. Science Advances, 2021, 7, . | 4.7 | 93 |
| 2 | From the CMF to the IMF: beyond the core-collapse model. Monthly Notices of the Royal Astronomical Society, 2021, 504, 1219-1236. | 1.6 | 23 |
| 3 | The dynamical state of massive clumps. Monthly Notices of the Royal Astronomical Society, 2021, 509, 5589-5607. | 1.6 | 1 |
| 4 | Physical properties and real nature of massive clumps in the galaxy. Monthly Notices of the Royal Astronomical Society, 2021, 510, 1697-1715. | 1.6 | 2 |
| 5 | The Origin of Massive Stars: The Inertial-inflow Model. Astrophysical Journal, 2020, 900, 82. | 1.6 | 82 |
| 6 | Transport, Destruction, and Growth of Pebbles in the Gas Envelope of a Protoplanet. Astrophysical Journal, 2020, 903, 102. | 1.6 | 9 |
| 7 | The Effect of Supernovae on the Turbulence and Dispersal of Molecular Clouds. Astrophysical Journal, 2020, 904, 58. | 1.6 | 15 |
| 8 | Pebble dynamics and accretion on to rocky planets â€“ II. Radiative models. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 482, L107-L111. | 1.2 | 15 |
| 9 | A simple and efficient solver for self-gravity in the DISPATCH astrophysical simulation framework. Journal of Physics: Conference Series, 2018, 1031, 012021. | 0.3 | 1 |
| 10 | Pebble dynamics and accretion on to rocky planets â€“ I. Adiabatic and convective models. Monthly Notices of the Royal Astronomical Society, 2018, 479, 5136-5156. | 1.6 | 33 |
| 11 | dispatch: a numerical simulation framework for the exa-scale era â€“ I. Fundamentals. Monthly Notices of the Royal Astronomical Society, 2018, 477, 624-638. | 1.6 | 21 |
| 12 | The Stellar IMF from Isothermal MHD Turbulence. Astrophysical Journal, 2018, 854, 35. | 1.6 | 51 |
| 13 | The benchmark halo giant HDâ€‰122563: CNO abundances revisited with three-dimensional hydrodynamic model stellar atmospheres. Monthly Notices of the Royal Astronomical Society, 2018, 475, 3369-3392. | 1.6 | 27 |
| 14 | A grid of MARCS model atmospheres for late-type stars. Astronomy and Astrophysics, 2017, 601, A10. | 2.1 | 36 |
| 15 | Supernova Driving. IV. The Star-formation Rate of Molecular Clouds. Astrophysical Journal, 2017, 840, 48. | 1.6 | 78 |
| 16 | Early formation of planetary building blocks inferred from Pb isotopic ages of chondrules. Science Advances, 2017, 3, e1700407. | 4.7 | 174 |
| 17 | Microscopic Processes in Global Relativistic Jets Containing Helical Magnetic Fields: Dependence on Jet Radius. Galaxies, 2017, 5, 58. | 1.1 | 10 |
| 18 | Microscopic Processes in Global Relativistic Jets Containing Helical Magnetic Fields. Galaxies, 2016, 4, 38. | 1.1 | 12 |

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| 19 | EVOLUTION OF GLOBAL RELATIVISTIC JETS: COLLIMATIONS AND EXPANSION WITH kKHI AND THE WEIBEL INSTABILITY. Astrophysical Journal, 2016, 820, 94. | 1.6 | 36 |
| 20 | SUPERNOVA DRIVING. III. SYNTHETIC MOLECULAR CLOUD OBSERVATIONS. Astrophysical Journal, 2016, 826, 140. | 1.6 | 22 |
| 21 | Particle-in-cell Simulations of Global Relativistic Jets with Helical Magnetic Fields. Proceedings of the International Astronomical Union, 2016, 12, 199-202. | 0.0 | 4 |
| 22 | Isotopic evidence for primordial molecular cloud material in metal-rich carbonaceous chondrites. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2011-2016. | 3.3 | 152 |
| 23 | The Surface of Stellar Models - Now with more 3D simulations!. EPJ Web of Conferences, 2015, 101, 06064. | 0.1 | 2 |
| 24 | Improvements to stellar structure models, based on a grid of 3D convection simulations â€“ II. Calibrating the mixing-length formulation. Monthly Notices of the Royal Astronomical Society, 2014, 445, 4366-4384. | 1.6 | 128 |
| 25 | INFALL-DRIVEN PROTOSTELLAR ACCRETION AND THE SOLUTION TO THE LUMINOSITY PROBLEM. Astrophysical Journal, 2014, 797, 32. | 1.6 | 80 |
| 26 | PARTICLE ACCELERATION AND MAGNETIC FIELD GENERATION IN SHEAR-FLOWS. International Journal of Modern Physics Conference Series, 2014, 28, 1460195. | 0.7 | 0 |
| 27 | Improvements to stellar structure models, based on a grid of 3D convection simulations â€“ I. T(Ï„) relations. Monthly Notices of the Royal Astronomical Society, 2014, 442, 805-820. | 1.6 | 56 |
| 28 | A GRID OF THREE-DIMENSIONAL STELLAR ATMOSPHERE MODELS OF SOLAR METALLICITY. I. GENERAL PROPERTIES, GRANULATION, AND ATMOSPHERIC EXPANSION. Astrophysical Journal, 2013, 769, 18. | 1.6 | 119 |
| 29 | 3D Solar Null Point Reconnection MHD Simulations. Solar Physics, 2013, 284, 467-487. | 1.0 | 28 |
| 30 | <scp>photon-plasma</scp>: A modern high-order particle-in-cell code. Physics of Plasmas, 2013, 20, . | 0.7 | 26 |
| 31 | ABUNDANCE OF <sup> 26 </sup> Al AND <sup> 60 </sup> Fe IN EVOLVING GIANT MOLECULAR CLOUDS. Astrophysical Journal Letters, 2013, 769, L8. | 3.0 | 49 |
| 32 | KINETIC MODELING OF PARTICLE ACCELERATION IN A SOLAR NULL-POINT RECONNECTION REGION. Astrophysical Journal, 2013, 771, 93. | 1.6 | 35 |
| 33 | Nonlinear evolution of the magnetized Kelvin-Helmholtz instability: From fluid to kinetic modeling. Physics of Plasmas, 2013, 20, . | 0.7 | 48 |
| 34 | Radiation from accelerated particles in relativistic jets with shocks, shear-flow, and reconnection. EAS Publications Series, 2013, 61, 177-179. | 0.3 | 3 |
| 35 | <sup>182</sup> Hfâ€“ <sup>182</sup> W age dating of a <sup>26</sup> Al-poor inclusion and implications for the origin of short-lived radioisotopes in the early Solar System. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8819-8823. | 3.3 | 60 |
| 36 | The Stagger-grid: A grid of 3D stellar atmosphere models. Astronomy and Astrophysics, 2013, 557, A26. | 2.1 | 191 |

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| 37 | SWIFF: Space weather integrated forecasting framework. Journal of Space Weather and Space Climate, 2013, 3, A05. | 1.1 | 21 |
| 38 | Zooming in on the Formation of Protoplanetary Disks. Proceedings of the International Astronomical Union, 2013, 8, 131-135. | 0.0 | 4 |
| 39 | Magnetic field generation in a jet-sheath plasma via the kinetic Kelvin-Helmholtz instability. Annales Geophysicae, 2013, 31, 1535-1541. | 0.6 | 19 |
| 40 | Radiation from accelerated particles in relativistic jets with shocks, shear-flow, and reconnection. EPJ Web of Conferences, 2013, 61, 02003. | 0.1 | 4 |
| 41 | A SIMPLE LAW OF STAR FORMATION. Astrophysical Journal Letters, 2012, 759, L27. | 3.0 | 138 |
| 42 | SIMULATION OF RELATIVISTIC JETS AND ASSOCIATED SELF-CONSISTENT RADIATION. International Journal of Modern Physics Conference Series, 2012, 08, 259-264. | 0.7 | 6 |
| 43 | Solar Fe abundance and magnetic fields. Astronomy and Astrophysics, 2012, 548, A35. | 2.1 | 35 |
| 44 | Current Fragmentation and Particle Acceleration in Solar Flares. Space Science Reviews, 2012, 173, 223-245. | 3.7 | 59 |
| 45 | The Absolute Chronology and Thermal Processing of Solids in the Solar Protoplanetary Disk. Science, 2012, 338, 651-655. | 6.0 | 720 |
| 46 | PARTICLE-IN-CELL SIMULATION OF ELECTRON ACCELERATION IN SOLAR CORONAL JETS. Astrophysical Journal Letters, 2012, 759, L9. | 3.0 | 24 |
| 47 | ON THE FORMATION OF ACTIVE REGIONS. Astrophysical Journal Letters, 2012, 753, L13. | 3.0 | 89 |
| 48 | Current Fragmentation and Particle Acceleration in Solar Flares. Space Sciences Series of ISSI, 2012, , 223-245. | 0.0 | 0 |
| 49 | Astrophysical turbulence modeling. Reports on Progress in Physics, 2011, 74, 046901. | 8.1 | 75 |
| 50 | RADIATION SIGNATURES OF SUB-LARMOR SCALE MAGNETIC FIELDS. Astrophysical Journal, 2011, 737, 55. | 1.6 | 35 |
| 51 | 3D LTE spectral line formation with scattering in red giant stars. Astronomy and Astrophysics, 2011, 529, A158. | 2.1 | 41 |
| 52 | A grid of S stars MARCS model atmospheres. Journal of Physics: Conference Series, 2011, 328, 012009. | 0.3 | 4 |
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| 54 | THE STAR FORMATION RATE OF SUPERSONIC MAGNETOHYDRODYNAMIC TURBULENCE. Astrophysical Journal, 2011, 730, 40. | 1.6 | 374 |

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| 58 | Radiation from relativistic shocks in turbulent magnetic fields. Advances in Space Research, 2011, 47, 1434-1440. | 1.2 | 17 |
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| 61 | Simulation of relativistic shocks and associated radiation from turbulent magnetic fields. Proceedings of the International Astronomical Union, 2010, 6, 354-357. | 0.0 | 1 |
| 62 | Ray Casting and Flux Limited Diffusion. Proceedings of the International Astronomical Union, 2010, 6, 207-214. | 0.0 | 0 |
| 63 | Magnetic Fields in Molecular Clouds. Proceedings of the International Astronomical Union, 2010, 6, 187-196. | 0.0 | 3 |
| 64 | Formation of brown dwarfs and planets. Proceedings of the International Astronomical Union, 2010, 6, 105-112. | 0.0 | 0 |
| 65 | SOLAR ABUNDANCE CORRECTIONS DERIVED THROUGH THREE-DIMENSIONAL MAGNETOCONVECTION SIMULATIONS. Astrophysical Journal, 2010, 724, 1536-1541. | 1.6 | 50 |
| 66 | MHD Turbulence In Star-Forming Clouds. AIP Conference Proceedings, 2010, , . | 0.3 | 5 |
| 67 | RADIATION SPECTRAL SYNTHESIS OF RELATIVISTIC FILAMENTATION. Astrophysical Journal Letters, 2010, 722, L114-L119. | 3.0 | 30 |
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| 69 | RADIATION FROM RELATIVISTIC SHOCKS WITH TURBULENT MAGNETIC FIELDS. International Journal of Modern Physics D, 2010, 19, 715-721. | 0.9 | 9 |
| 70 | THE SUPER-ALFVÃ‰NIC MODEL OF MOLECULAR CLOUDS: PREDICTIONS FOR MASS-TO-FLUX AND TURBULENT-TO-MAGNETIC ENERGY RATIOS. Astrophysical Journal, 2009, 702, L37-L41. | 1.6 | 31 |
| 71 | Coupling from the Photosphere to the Chromosphere andÂtheÂCorona. Space Science Reviews, 2009, 144, 317-350. | 3.7 | 84 |
| 72 | Solar Surface Convection. Living Reviews in Solar Physics, 2009, 6, 2. | 7.8 | 265 |

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| 73 | Trans-Debye Scale Plasma Modeling & Stochastic GRB Wakefield Plasma Processes. AIP Conference Proceedings, 2008, , . | 0.3 | 2 |
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| 75 | Convection and the Origin of Evershed Flows in Sunspot Penumbrae. Astrophysical Journal, 2008, 677, L149-L152. | 1.6 | 53 |
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| 77 | A grid of MARCS model atmospheres for late-type stars. Astronomy and Astrophysics, 2008, 486, 951-970. | 2.1 | 1,879 |
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| 82 | Two Regimes of Turbulent Fragmentation and the Stellar Initial Mass Function from Primordial to PresentâĐDay Star Formation. Astrophysical Journal, 2007, 661, 972-981. | 1.6 | 149 |
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| 85 | Local Helioseismology and Correlation Tracking Analysis of Surface Structures in Realistic Simulations of Solar Convection. Astrophysical Journal, 2007, 657, 1157-1161. | 1.6 | 43 |
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| 89 | Stable magnetic fields in stellar interiors. Astronomy and Astrophysics, 2006, 450, 1077-1095. | 2.1 | 280 |
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| 94 | Realistic Solar Surface Convection Simulations. Annals of the New York Academy of Sciences, 2006, 898, 21-38. | 1.8 | 6 |
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| 96 | A Solution to the Pre-Main-Sequence Accretion Problem. Astrophysical Journal, 2005, 622, L61-L64. | 1.6 | 58 |
| 97 | An AB Initio Approach to Solar Coronal Loops. Astrophysical Journal, 2005, 618, 1031-1038. | 1.6 | 112 |
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| 100 | Excitation of solar-like oscillations: From PMS to MS stellar models. Journal of Astrophysics and Astronomy, 2005, 26, 171-184. | 0.4 | 34 |
| 101 | An Ab Initio Approach to the Solar Coronal Heating Problem. Astrophysical Journal, 2005, 618, 1020-1030. | 1.6 | 232 |
| 102 | The Stellar IMF as a Property of Turbulence. , 2005, , 357-362. | | 2 |
| 103 | Spectrum and amplitudes of internal gravity waves excited by penetrative convection in solar-type stars. Astronomy and Astrophysics, 2005, 438, 365-376. | 2.1 | 57 |
| 104 | Magnetic Field Generation and Electron Acceleration in Collisionless Shocks. , 2005, , 211-215. | | 1 |
| 105 | An Ab Initio Approach to the Solar Coronal Heating Problem. Symposium - International Astronomical Union, 2004, 219, 488-492. | 0.1 | 2 |
| 106 | Structure Function Scaling in Compressible Super-AlfvÃ©nic MHD Turbulence. Physical Review Letters, 2004, 92, 191102. | 2.9 | 74 |
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| 108 | The effects of spiral arms on the multi-phase ISM. Astrophysics and Space Science, 2004, 289, 319-322. | 0.5 | 13 |

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| 111 | Excitation of Radial P-Modes in the Sun and Stars. Solar Physics, 2004, 220, 229-243. | 1.0 | 48 |
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| 114 | Magnetic Field Generation in Collisionless Shocks: Pattern Growth and Transport. Astrophysical Journal, 2004, 608, L13-L16. | 1.6 | 209 |
| 115 | Non-Fermi Power-Law Acceleration in Astrophysical Plasma Shocks. Astrophysical Journal, 2004, 617, L107-L110. | 1.6 | 89 |
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| 119 | The Effects of Spiral Arms on the Multi-Phase ISM. , 2004, , 143-146. | | 0 |
| 120 | Seismic Diagnostics on Stellar Convection Treatment from Oscillation Amplitudes of p-modes. Astrophysics and Space Science, 2003, 284, 221-224. | 0.5 | 2 |
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| 122 | Waves in the Magnetized Solar Atmosphere. II. Waves from Localized Sources in Magnetic Flux Concentrations. Astrophysical Journal, 2003, 599, 626-660. | 1.6 | 235 |
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| 130 | Stochastic Excitation of Gravity Waves by Overshooting Convection in Solar-Type Stars. , 2003, , 237-240. | | 2 |
| 131 | Numerical constraints on the model of stochastic excitation of solar-type oscillations. Astronomy and Astrophysics, 2003, 403, 303-312. | 2.1 | 55 |
| 132 | Seismic Diagnostics of Stellar Convection Treatment from Oscillation Amplitudes of P-Modes. , 2003, , 221-224. | | 0 |
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| 144 | Solar Oscillations and Convection. I. Formalism for Radial Oscillations. Astrophysical Journal, 2001, 546, 576-584. | 1.6 | 67 |

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| 165 | Magnetoconvection and the Solar Dynamo. International Astronomical Union Colloquium, 2000, 179, 307-313. | 0.1 | 0 |
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