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 grid of MARCS model atmospheres for late-type stars. Astronomy and Astrophysics, 2008, 486, 951-970.	2.1	1,879
2	The Stellar Initial Mass Function from Turbulent Fragmentation. Astrophysical Journal, 2002, 576, 870-879.	1.6	810
3	The Absolute Chronology and Thermal Processing of Solids in the Solar Protoplanetary Disk. Science, 2012, 338, 651-655.	6.0	720
4	Dynamo-generated Turbulence and Large-Scale Magnetic Fields in a Keplerian Shear Flow. Astrophysical Journal, 1995, 446, 741.	1.6	693
5	Simulations of Solar Granulation. I. General Properties. Astrophysical Journal, 1998, 499, 914-933.	1.6	600
6	Fundamental differences between SPH and grid methods. Monthly Notices of the Royal Astronomical Society, 0, 380, 963-978.	1.6	525
7	The universality of the stellar initial mass function. Monthly Notices of the Royal Astronomical Society, 1997, 288, 145-152.	1.6	437
8	THE STAR FORMATION RATE OF SUPERSONIC MAGNETOHYDRODYNAMIC TURBULENCE. Astrophysical Journal, 2011, 730, 40.	1.6	374
9	A Superâ€Alfvenic Model of Dark Clouds. Astrophysical Journal, 1999, 526, 279-294.	1.6	314
10	Heating and activity of the solar corona: 1. Boundary shearing of an initially homogeneous magnetic field. Journal of Geophysical Research, 1996, 101, 13445-13460.	3.3	290
11	Stable magnetic fields in stellar interiors. Astronomy and Astrophysics, 2006, 450, 1077-1095.	2.1	280
12	Solar Surface Convection. Living Reviews in Solar Physics, 2009, 6, 2.	7.8	265
13	Topology of convection beneath the solar surface. Astrophysical Journal, 1989, 342, L95.	1.6	258
14	EVIDENCE FOR MAGNESIUM ISOTOPE HETEROGENEITY IN THE SOLAR PROTOPLANETARY DISK. Astrophysical Journal Letters, 2011, 735, L37.	3.0	253
15	Waves in the Magnetized Solar Atmosphere. II. Waves from Localized Sources in Magnetic Flux Concentrations. Astrophysical Journal, 2003, 599, 626-660.	1.6	235
16	An Ab Initio Approach to the Solar Coronal Heating Problem. Astrophysical Journal, 2005, 618, 1020-1030.	1.6	232
17	The â€œMysteriousâ€•Origin of Brown Dwarfs. Astrophysical Journal, 2004, 617, 559-564.	1.6	219
18	The Turbulent Shock Origin of Protoâ€“Stellar Cores. Astrophysical Journal, 2001, 553, 227-234.	1.6	218

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19	Magnetic Field Generation in Collisionless Shocks: Pattern Growth and Transport. Astrophysical Journal, 2004, 608, L13-L16.	1.6	209
20	Magnetic structures in a dynamo simulation. Journal of Fluid Mechanics, 1996, 306, 325-352.	1.4	203
21	Dynamo action in stratified convection with overshoot. Astrophysical Journal, 1992, 392, 647.	1.6	201
22	The Stagger-grid: A grid of 3D stellar atmosphere models. Astronomy and Astrophysics, 2013, 557, A26.	2.1	191
23	Solar Convection. Annual Review of Astronomy and Astrophysics, 1990, 28, 263-303.	8.1	182
24	Early formation of planetary building blocks inferred from Pb isotopic ages of chondrules. Science Advances, 2017, 3, e1700407.	4.7	174
25	A Supernova-regulated Interstellar Medium: Simulations of the Turbulent Multiphase Medium. Astrophysical Journal, 1999, 514, L99-L102.	1.6	168
26	Supersonic Turbulence in the Interstellar Medium: Stellar Extinction Determinations as Probes of the Structure and Dynamics of Dark Clouds. Astrophysical Journal, 1997, 474, 730-734.	1.6	160
27	Observational Manifestations of Solar Magnetoconvection: Center-to-Limb Variation. Astrophysical Journal, 2004, 610, L137-L140.	1.6	152
28	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
29	Two Regimes of Turbulent Fragmentation and the Stellar Initial Mass Function from Primordial to Presentâ€Day Star Formation. Astrophysical Journal, 2007, 661, 972-981.	1.6	149
30	Waves in the Magnetized Solar Atmosphere. I. Basic Processes and Internetwork Oscillations. Astrophysical Journal, 2002, 564, 508-524.	1.6	147
31	Solar Smallâ€Scale Magnetoconvection. Astrophysical Journal, 2006, 642, 1246-1255.	1.6	146
32	Solar convection. Solar Physics, 1985, 100, 209-235.	1.0	142
33	Solar Oscillations and Convection. II. Excitation of Radial Oscillations. Astrophysical Journal, 2001, 546, 585-603.	1.6	141
34	A SIMPLE LAW OF STAR FORMATION. Astrophysical Journal Letters, 2012, 759, L27.	3.0	138
35	Forward Modeling of the Corona of the Sun and Solarâ€like Stars: From a Threeâ€dimensional Magnetohydrodynamic Model to Synthetic Extremeâ€Ultraviolet Spectra. Astrophysical Journal, 2006, 638, 1086-1100.	1.6	129
36	The Density PDFs of Supersonic Random Flows. , 1999, , 218-222.		128

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37	Bulk Heating and Slender Magnetic Loops in the Solar Corona. Astrophysical Journal, 2002, 572, L113-L116.	1.6	128
38	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
39	Heating and activity of the solar corona: 3. Dynamics of a low beta plasma with three-dimensional null points. Journal of Geophysical Research, 1997, 102, 231-248.	3.3	126
40	Theoretical Models of Polarized Dust Emission from Protostellar Cores. Astrophysical Journal, 2001, 559, 1005-1018.	1.6	124
41	Realistic Solar Convection Simulations. Solar Physics, 2000, 192, 91-108.	1.0	122
42	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
43	An AB Initio Approach to Solar Coronal Loops. Astrophysical Journal, 2005, 618, 1031-1038.	1.6	112
44	MHD Simulations of Penumbra Fine Structure. Astrophysical Journal, 2007, 669, 1390-1394.	1.6	109
45	Excitation of solar-like oscillations across the HR diagram. Astronomy and Astrophysics, 2007, 463, 297-308.	2.1	107
46	Scaling Relations of Supersonic Turbulence in Starâ€forming Molecular Clouds. Astrophysical Journal, 2002, 573, 678-684.	1.6	106
47	COMPARING NUMERICAL METHODS FOR ISOTHERMAL MAGNETIZED SUPERSONIC TURBULENCE. Astrophysical Journal, 2011, 737, 13.	1.6	105
48	EXPLOSIVE OUTFLOWS POWERED BY THE DECAY OF NON-HIERARCHICAL MULTIPLE SYSTEMS OF MASSIVE STARS: ORION BN/KL. Astrophysical Journal, 2011, 727, 113.	1.6	103
49	Coronal Heating through Braiding of Magnetic Field Lines. Astrophysical Journal, 2004, 617, L85-L88.	1.6	100
50	Dynamics of Magnetic Flux Elements in the Solar Photosphere. Astrophysical Journal, 1998, 509, 435-447.	1.6	99
51	A pebble accretion model for the formation of the terrestrial planets in the Solar System. Science Advances, 2021, 7, .	4.7	93
52	Non-Fermi Power-Law Acceleration in Astrophysical Plasma Shocks. Astrophysical Journal, 2004, 617, L107-L110.	1.6	89
53	ON THE FORMATION OF ACTIVE REGIONS. Astrophysical Journal Letters, 2012, 753, L13.	3.0	89
54	Coupling from the Photosphere to the Chromosphere andÂtheÂCorona. Space Science Reviews, 2009, 144, 317-350.	3.7	84

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55	The Origin of Massive Stars: The Inertial-inflow Model. Astrophysical Journal, 2020, 900, 82.	1.6	82
56	The Disk Accretion Rate for Dynamo-generated Turbulence. Astrophysical Journal, 1996, 458, L45-L48.	1.6	81
57	ThreeâEDimensional Radiative Hydrodynamics for Disk Stability Simulations: A Proposed Testing Standard and New Results. Astrophysical Journal, 2007, 665, 1254-1267.	1.6	81
58	INFALL-DRIVEN PROTOSTELLAR ACCRETION AND THE SOLUTION TO THE LUMINOSITY PROBLEM. Astrophysical Journal, 2014, 797, 32.	1.6	80
59	Supernova Driving. IV. The Star-formation Rate of Molecular Clouds. Astrophysical Journal, 2017, 840, 48.	1.6	78
60	3-D simulations of solar and stellar convection and magnetoconvection. Computer Physics Communications, 1990, 59, 119-125.	3.0	76
61	Supersonic Turbulence and Structure of Interstellar Molecular Clouds. Physical Review Letters, 2002, 89, 031102.	2.9	76
62	The Average Magnetic Field Strength in Molecular Clouds: New Evidence of Super-Alfvnic Turbulence. Astrophysical Journal, 2004, 604, L49-L52.	1.6	76
63	Astrophysical turbulence modeling. Reports on Progress in Physics, 2011, 74, 046901.	8.1	75
64	Structure Function Scaling in Compressible Super-AlfvÃ©nic MHD Turbulence. Physical Review Letters, 2004, 92, 191102.	2.9	74
65	Excitation of Chromospheric Wave Transients by Collapsing Granules. Astrophysical Journal, 2000, 541, 468-488.	1.6	70
66	Supersonic Turbulence in the Perseus Molecular Cloud. Astrophysical Journal, 1999, 525, 318-329.	1.6	69
67	Solar Flux Emergence Simulations. Solar Physics, 2011, 268, 271-282.	1.0	68
68	Solar Oscillations and Convection. I. Formalism for Radial Oscillations. Astrophysical Journal, 2001, 546, 576-584.	1.6	67
69	Heating and activity of the solar corona: 2. Kink instability in a flux tube. Journal of Geophysical Research, 1997, 102, 219-230.	3.3	64
70	On the transport of magnetic fields by solar-like stratified convection. Astronomy and Astrophysics, 2001, 365, 562-570.	2.1	63
71	Structure Function Scaling in the Taurus and Perseus Molecular Cloud Complexes. Astrophysical Journal, 2003, 583, 308-313.	1.6	61
72	¹⁸² Hfâ€“ ¹⁸² W age dating of a ²⁶ 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

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73	Validation of Timeâ€Distance Helioseismology by Use of Realistic Simulations of Solar Convection. Astrophysical Journal, 2007, 659, 848-857.	1.6	59
74	Current Fragmentation and Particle Acceleration in Solar Flares. Space Science Reviews, 2012, 173, 223-245.	3.7	59
75	A Solution to the Pre-Main-Sequence Accretion Problem. Astrophysical Journal, 2005, 622, L61-L64.	1.6	58
76	Synthetic Molecular Clouds from Supersonic MHD and Nonâ€LTE Radiative Transfer Calculations. Astrophysical Journal, 1998, 504, 300-313.	1.6	57
77	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
78	Numerical simulations of kinematic dynamo action. Astronomy and Astrophysics, 2003, 397, 393-399.	2.1	56
79	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
80	Numerical 3D constraints on convective eddy time-correlations: Consequences for stochastic excitation of solarpÂmodes. Astronomy and Astrophysics, 2003, 404, 1129-1137.	2.1	55
81	Numerical constraints on the model of stochastic excitation of solar-type oscillations. Astronomy and Astrophysics, 2003, 403, 303-312.	2.1	55
82	Are granules good tracers of solar surface velocity fields?. Astronomy and Astrophysics, 2001, 377, L14-L17.	2.1	54
83	Convection and the Origin of Evershed Flows in Sunspot Penumbrae. Astrophysical Journal, 2008, 677, L149-L152.	1.6	53
84	The Stellar IMF from Isothermal MHD Turbulence. Astrophysical Journal, 2018, 854, 35.	1.6	51
85	SOLAR ABUNDANCE CORRECTIONS DERIVED THROUGH THREE-DIMENSIONAL MAGNETOCONVECTION SIMULATIONS. Astrophysical Journal, 2010, 724, 1536-1541.	1.6	50
86	ABUNDANCE OF ²⁶ Al AND ⁶⁰ Fe IN EVOLVING GIANT MOLECULAR CLOUDS. Astrophysical Journal Letters, 2013, 769, L8.	3.0	49
87	Excitation of Radial P-Modes in the Sun and Stars. Solar Physics, 2004, 220, 229-243.	1.0	48
88	Nonlinear evolution of the magnetized Kelvin-Helmholtz instability: From fluid to kinetic modeling. Physics of Plasmas, 2013, 20, .	0.7	48
89	Ambipolar Drift Heating in Turbulent Molecular Clouds. Astrophysical Journal, 2000, 540, 332-341.	1.6	44
90	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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91	3D LTE spectral line formation with scattering in red giant stars. Astronomy and Astrophysics, 2011, 529, A158.	2.1	41
92	THE OBSERVABLE PRESTELLAR PHASE OF THE INITIAL MASS FUNCTION. Astrophysical Journal Letters, 2011, 741, L22.	3.0	41
93	Nonlinear MHD dynamo operating at equipartition. Astronomy and Astrophysics, 2007, 472, 715-726.	2.1	40
94	Rapid Temporal Variability of Faculae: Highâ€Resolution Observations and Modeling. Astrophysical Journal, 2006, 646, 1405-1420.	1.6	38
95	EVOLUTION OF GLOBAL RELATIVISTIC JETS: COLLIMATIONS AND EXPANSION WITH ŔKHI AND THE WEIBEL INSTABILITY. Astrophysical Journal, 2016, 820, 94.	1.6	36
96	A grid of MARCS model atmospheres for late-type stars. Astronomy and Astrophysics, 2017, 601, A10.	2.1	36
97	RADIATION SIGNATURES OF SUB-LARMOR SCALE MAGNETIC FIELDS. Astrophysical Journal, 2011, 737, 55.	1.6	35
98	Solar Fe abundance and magnetic fields. Astronomy and Astrophysics, 2012, 548, A35.	2.1	35
99	KINETIC MODELING OF PARTICLE ACCELERATION IN A SOLAR NULL-POINT RECONNECTION REGION. Astrophysical Journal, 2013, 771, 93.	1.6	35
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	Radiative transfer in decomposed domains. Astronomy and Astrophysics, 2006, 448, 731-737.	2.1	34
102	Ionization effects in three-dimensional solar granulation simulations. Astrophysical Journal, 1993, 408, L53.	1.6	34
103	A Comparison of13CO Local Thermodynamic Equilibrium and True Column Densities in Molecular Cloud Models. Astrophysical Journal, 2000, 529, 259-267.	1.6	33
104	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
105	Effect of the radiative background flux in convection. Astronomische Nachrichten, 2005, 326, 681-692.	0.6	32
106	Convection and its influence on oscillations. , 1991, , 195-212.		32
107	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
108	RADIATION SPECTRAL SYNTHESIS OF RELATIVISTIC FILAMENTATION. Astrophysical Journal Letters, 2010, 722, L114-L119.	3.0	30

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109	Helioseismic Holography of Simulated Solar Convection and Prospects for the Detection of Smallâ€Scale Subsurface Flows. Astrophysical Journal, 2007, 669, 1395-1405.	1.6	29
110	Three-dimensional surface convection simulations of metal-poor stars. Astronomy and Astrophysics, 2011, 528, A32.	2.1	29
111	Three-dimensional Separator Reconnection â€“ How Does It Occur?. Solar Physics, 2000, 193, 1-16.	1.0	28
112	3D Solar Null Point Reconnection MHD Simulations. Solar Physics, 2013, 284, 467-487.	1.0	28
113	Solar Magnetoconvection. , 1990, , 191-211.		28
114	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
115	The Super-AlfvÃ©nic Model of Molecular Clouds: Predictions for Zeeman Splitting Measurements. Astrophysical Journal, 2008, 686, L91-L94.	1.6	26
116	<scp>photon-plasma</scp>: A modern high-order particle-in-cell code. Physics of Plasmas, 2013, 20, .	0.7	26
117	PARTICLE-IN-CELL SIMULATION OF ELECTRON ACCELERATION IN SOLAR CORONAL JETS. Astrophysical Journal Letters, 2012, 759, L9.	3.0	24
118	Simulating Magnetoconvection. , 1989, , 453-470.		24
119	The response of a turbulent accretion disc to an imposed epicyclic shearing motion. Monthly Notices of the Royal Astronomical Society, 2000, 318, 47-57.	1.6	23
120	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
121	What Causespâ€Mode Asymmetry Reversal?. Astrophysical Journal, 2003, 596, 698-701.	1.6	22
122	SUPERNOVA DRIVING. III. SYNTHETIC MOLECULAR CLOUD OBSERVATIONS. Astrophysical Journal, 2016, 826, 140.	1.6	22
123	SWIFF: Space weather integrated forecasting framework. Journal of Space Weather and Space Climate, 2013, 3, A05.	1.1	21
124	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
125	Numerical Simulations of Oscillation Modes of the Solar Convection Zone. Astrophysical Journal, 2000, 530, L139-L142.	1.6	21
126	Near-Surface Constraints on the Structure of Stellar Convection Zones. Astrophysics and Space Science Library, 1997, , 73-76.	1.0	20

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127	A comparison of artificial solar granules with real solar granules. Solar Physics, 1985, 97, 213-221.	1.0	19
128	Waves in magnetic flux concentrations: The critical role of mode mixing and interference. Astronomische Nachrichten, 2002, 323, 196-202.	0.6	19
129	Dynamo action in turbulent flows. Astronomy and Astrophysics, 2003, 410, 759-766.	2.1	19
130	Magnetic field generation in a jet-sheath plasma via the kinetic Kelvin-Helmholtz instability. Annales Geophysicae, 2013, 31, 1535-1541.	0.6	19
131	Magnetoconvection and Magnetoturbulence. , 1994, , 471-498.		19
132	Dynamics of and Radiative Transfer in Inhomogeneous Media. , 1991, , 263-279.		19
133	Constraints Imposed by Very High Resolution Spectra and Images on Theoretical Simulations of Granular Convection. , 1989, , 349-357.		18
134	Cooling Rates of Molecular Clouds Based on Numerical Magnetohydrodynamic Turbulence and Nonâ€LTE Radiative Transfer. Astrophysical Journal, 2001, 563, 853-866.	1.6	18
135	Radiation from relativistic shocks in turbulent magnetic fields. Advances in Space Research, 2011, 47, 1434-1440.	1.2	17
136	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
137	The Effect of Supernovae on the Turbulence and Dispersal of Molecular Clouds. Astrophysical Journal, 2020, 904, 58.	1.6	15
138	The distant future of solar activity: A case study of Beta Hydri. I - Stellar evolution, lithium abundance, and photospheric structure. Astrophysical Journal, 1993, 403, 385.	1.6	14
139	The effects of spiral arms on the multi-phase ISM. Astrophysics and Space Science, 2004, 289, 319-322.	0.5	13
140	Flux-loss of buoyant ropes interacting with convective flows. Astronomy and Astrophysics, 2001, 380, 734-738.	2.1	13
141	Microscopic Processes in Global Relativistic Jets Containing Helical Magnetic Fields. Galaxies, 2016, 4, 38.	1.1	12
142	Excitation and Damping of P-Modes. , 1998, , 199-212.		11
143	Microscopic Processes in Global Relativistic Jets Containing Helical Magnetic Fields: Dependence on Jet Radius. Galaxies, 2017, 5, 58.	1.1	10
144	Granulation: Non-adiabatic patterns and shocks. , 1991, , 141-146.		10

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145	Evolution of a magnetic flux tube in two-dimensional penetrative convection. Monthly Notices of the Royal Astronomical Society, 1992, 259, 465-473.	1.6	9
146	On the location of energy release and temperature profiles along coronal loops. Solar Physics, 1999, 189, 95-108.	1.0	9
147	RADIATION FROM RELATIVISTIC SHOCKS WITH TURBULENT MAGNETIC FIELDS. International Journal of Modern Physics D, 2010, 19, 715-721.	0.9	9
148	Magnetoacoustic Waves and Their Generation by Convection. , 1991, , 386-401.		9
149	Transport, Destruction, and Growth of Pebbles in the Gas Envelope of a Protoplanet. Astrophysical Journal, 2020, 903, 102.	1.6	9
150	Stochastic Excitation of Gravity Waves by Overshooting Convection in Solar-Type Stars. Astrophysics and Space Science, 2003, 284, 237-240.	0.5	8
151	A physical model for the stellar IMF. AIP Conference Proceedings, 1997, , .	0.3	7
152	Star Formation and the Initial Mass Function. , 2003, , 271-298.		7
153	Realistic Solar Surface Convection Simulations. Annals of the New York Academy of Sciences, 2006, 898, 21-38.	1.8	6
154	New Relativistic Particle-In-Cell Simulation Studies of Prompt and Early Afterglows from GRBs. , 2008, , .		6
155	SIMULATION OF RELATIVISTIC JETS AND ASSOCIATED SELF-CONSISTENT RADIATION. International Journal of Modern Physics Conference Series, 2012, 08, 259-264.	0.7	6
156	Visualizing astrophysical 3D MHD turbulence. Lecture Notes in Computer Science, 1996, , 450-461.	1.0	6
157	Topologically forced reconnection. , 1997, , 179-200.		5
158	MHD Turbulence In Star-Forming Clouds. AIP Conference Proceedings, 2010, , .	0.3	5
159	Stellar Convection; General Properties. Astrophysics and Space Science Library, 1997, , 79-103.	1.0	5
160	Stellar (magneto-)convection. Physica Scripta, 2008, T133, 014002.	1.2	5
161	Magnetoconvection and the solar dynamo. Journal of Astrophysics and Astronomy, 2000, 21, 307-313.	0.4	4
162	A grid of S stars MARCS model atmospheres. Journal of Physics: Conference Series, 2011, 328, 012009.	0.3	4

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163	Zooming in on the Formation of Protoplanetary Disks. Proceedings of the International Astronomical Union, 2013, 8, 131-135.	0.0	4
164	Radiation from accelerated particles in relativistic jets with shocks, shear-flow, and reconnection. EPJ Web of Conferences, 2013, 61, 02003.	0.1	4
165	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
166	The Atmospheric Dynamics in 2D and 3D Simulations of Stellar Surface Convection. Astrophysics and Space Science Library, 2000, , 37-44.	1.0	4
167	Three-Dimensional Separator Reconnection â€" How Does It Occur?. , 2001, , 1-16.		4
168	Realistic Solar Convection Simulations. , 2000, , 91-108.		3
169	High resolution limb images synthesized from 3D MHD simulations. Proceedings of the International Astronomical Union, 2004, 2004, 233-234.	0.0	3
170	Magnetic Fields in Molecular Clouds. Proceedings of the International Astronomical Union, 2010, 6, 187-196.	0.0	3
171	Radiation from accelerated particles in relativistic jets with shocks, shear-flow, and reconnection. EAS Publications Series, 2013, 61, 177-179.	0.3	3
172	Dynamic behavior and topology of 3D magnetic fields. Space Science Reviews, 1994, 68, 75-80.	3.7	2
173	Dynamo generated turbulence in discs. , 1995, , 385-390.		2
174	Superâ€"AlfvÃ©nic Turbulent Fragmentation in Molecular Clouds. , 1999, , 248-255.		2
175	Seismic Diagnostics on Stellar Convection Treatment from Oscillation Amplitudes of p-modes. Astrophysics and Space Science, 2003, 284, 221-224.	0.5	2
176	An Ab Initio Approach to the Solar Coronal Heating Problem. Symposium - International Astronomical Union, 2004, 219, 488-492.	0.1	2
177	Trans-Debye Scale Plasma Modeling & Stochastic GRB Wakefield Plasma Processes. AIP Conference Proceedings, 2008, , .	0.3	2
178	The Surface of Stellar Models - Now with more 3D simulations!. EPJ Web of Conferences, 2015, 101, 06064.	0.1	2
179	The Stellar IMF as a Property of Turbulence. , 2005, , 357-362.		2
180	Coupling from the Photosphere to the Chromosphere andÂtheÂCorona. Space Sciences Series of ISSI, 2008, , 317-350.	0.0	2

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181	NLTE Spectral Line Formation in Three Dimensions. , 1991, , 61-68.		2
182	Stochastic Excitation of Gravity Waves by Overshooting Convection in Solar-Type Stars. , 2003, , 237-240.		2
183	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
184	A New Device for Collection of Parotid Saliva. Annals of the New York Academy of Sciences, 1993, 694, 274-275.	1.8	1
185	Double null points and magnetic reconnection. Advances in Space Research, 1997, 19, 1785-1788.	1.2	1
186	Magnetic Fields in Young Galaxies. Highlights of Astronomy, 2002, 12, 706-708.	0.0	1
187	Solar Surface Magnetoconvection. Symposium - International Astronomical Union, 2003, 210, 169-180.	0.1	1
188	Scaling Relations of Supersonic Turbulence in Molecular Clouds. Astrophysics and Space Science, 2004, 292, 61-68.	0.5	1
189	Self-Regulating Supernova Heating in Interstellar Medium Simulations. Astrophysics and Space Science, 2004, 292, 267-272.	0.5	1
190	The mass distribution of unstable cores in turbulent magnetized clouds. Proceedings of the International Astronomical Union, 2006, 2, 283-291.	0.0	1
191	Simulation of relativistic shocks and associated radiation from turbulent magnetic fields. Proceedings of the International Astronomical Union, 2010, 6, 354-357.	0.0	1
192	Theory of the Star Formation Rate. Proceedings of the International Astronomical Union, 2010, 6, 347-354.	0.0	1
193	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
194	Driving and damping of oscillations. , 1990, , 93-101.		1
195	Vector potential magnetic null points. , 1991, , 89-91.		1
196	Magnetic Field Generation and Electron Acceleration in Collisionless Shocks. , 2005, , 211-215.		1
197	The dynamical state of massive clumps. Monthly Notices of the Royal Astronomical Society, 2021, 509, 5589-5607.	1.6	1
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