Troels HaugbÃ¸lle

List of Publications by Year
in descending order

63 papers	3,034 citations	136950 32 h-index	161849 54 g-index
63 all docs	63 docs citations	63 times ranked	3154 citing authors

#	Article	IF	Citations
1	Natural separation of two primordial planetary reservoirs in an expanding solar protoplanetary disk. Science Advances, 2022, 8, eabm3045.	10.3	20
2	Binarity of a protostar affects the evolution of the disk and planets. Nature, 2022, 606, 272-275.	27.8	11
3	Hybrid Accretion of Carbonaceous Chondrites by Radial Transport across the Jupiter Barrier. Astrophysical Journal, 2021, 910, 70.	4.5	12
4	From the CMF to the IMF: beyond the core-collapse model. Monthly Notices of the Royal Astronomical Society, 2021, 504, 1219-1236.	4.4	23
5	Modeling chemistry during star formation: water deuteration in dynamic star-forming regions. Astronomy and Astrophysics, 2021, 649, A66.	5.1	10
6	The dynamical state of massive clumps. Monthly Notices of the Royal Astronomical Society, 2021, 509, 5589-5607.	4.4	1
7	Physical properties and real nature of massive clumps in the galaxy. Monthly Notices of the Royal Astronomical Society, 2021, 510, 1697-1715.	4.4	2
8	The Origin of Massive Stars: The Inertial-inflow Model. Astrophysical Journal, 2020, 900, 82.	4.5	82
9	The Effect of Supernovae on the Turbulence and Dispersal of Molecular Clouds. Astrophysical Journal, 2020, 904, 58.	4.5	15
10	The dependence of episodic accretion on eccentricity during the formation of binary stars. Astronomy and Astrophysics, 2020, 641, A59.	5.1	12
11	Probing the Protosolar Disk Using Dust Filtering at Gaps in the Early Solar System. Astronomical Journal, 2019, 158, 55.	4.7	28
12	OGLE-2014-BLG-1186: gravitational microlensing providing evidence for a planet orbiting the foreground star or for a close binary source?. Monthly Notices of the Royal Astronomical Society, 2019, 484, 5608-5632.	4.4	7
13	The challenges of modelling microphysics: ambipolar diffusion, chemistry, and cosmic rays in MHD shocks. Monthly Notices of the Royal Astronomical Society, 2019, 484, 161-184.	4.4	11
14	Î½CONCEPT: cosmological neutrino simulations from the non-linear Boltzmann hierarchy. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 052-052.	5.4	38
15	Explaining the luminosity spread in young clusters: proto and pre-main sequence stellar evolution in a molecular cloud environment. Monthly Notices of the Royal Astronomical Society, 2018, 474, 1176-1193.	4.4	36
16	A simple and efficient solver for self-gravity in the DISPATCH astrophysical simulation framework. Journal of Physics: Conference Series, 2018, 1031, 012021.	0.4	1
17	Episodic accretion: the interplay of infall and disc instabilities. Monthly Notices of the Royal Astronomical Society, 2018, 475, 2642-2658.	4.4	56
18	The Stellar IMF from Isothermal MHD Turbulence. Astrophysical Journal, 2018, 854, 35.	4.5	51

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19	Supernova Driving. IV. The Star-formation Rate of Molecular Clouds. Astrophysical Journal, 2017, 840, 48.	4.5	78
20	Orbital alignment and star-spot properties in the WASP-52 planetary system. Monthly Notices of the Royal Astronomical Society, 2017, 465, 843-857.	4.4	64
21	A detailed framework to incorporate dust in hydrodynamical simulations. Monthly Notices of the Royal Astronomical Society, 2017, 466, 1259-1274.	4.4	29
22	Zoom-in Simulations of Protoplanetary Disks Starting from GMC Scales. Astrophysical Journal, 2017, 846, 7.	4.5	80
23	Large-scale numerical simulations of star formation put to the test. Astronomy and Astrophysics, 2016, 587, A59.	5.1	19
24	TRACKING THE DISTRIBUTION OF ²⁶Al AND ⁶⁰Fe DURING THE EARLY PHASES OF STAR AND DISK EVOLUTION. Astrophysical Journal, 2016, 826, 22.	4.5	37
25	SUPERNOVA DRIVING. III. SYNTHETIC MOLECULAR CLOUD OBSERVATIONS. Astrophysical Journal, 2016, 826, 140.	4.5	22
26	SUPERNOVA DRIVING. II. COMPRESSIVE RATIO IN MOLECULAR-CLOUD TURBULENCE. Astrophysical Journal, 2016, 825, 30.	4.5	35
27	OGLE-2015-BLG-0479LA,B: BINARY GRAVITATIONAL MICROLENS CHARACTERIZED BY SIMULTANEOUS GROUND-BASED AND SPACE-BASED OBSERVATIONS. Astrophysical Journal, 2016, 828, 53.	4.5	23
28	Protostellar accretion traced with chemistry. Astronomy and Astrophysics, 2016, 587, A60.	5.1	16
29	SUPERNOVA DRIVING. I. THE ORIGIN OF MOLECULAR CLOUD TURBULENCE. Astrophysical Journal, 2016, 822, 11.	4.5	159
30	High-precision photometry by telescope defocussing â€“ VIII. WASP-22, WASP-41, WASP-42 and WASP-55. Monthly Notices of the Royal Astronomical Society, 2016, 457, 4205-4217.	4.4	42
31	High-precision photometry by telescope defocusing â€“ VII. The ultrashort period planet WASP-103â˜…. Monthly Notices of the Royal Astronomical Society, 2015, 447, 711-721.	4.4	66
32	PATHWAY TO THE GALACTIC DISTRIBUTION OF PLANETS: COMBINEDSPITZERAND GROUND-BASED MICROLENS PARALLAX MEASUREMENTS OF 21 SINGLE-LENS EVENTS. Astrophysical Journal, 2015, 804, 20.	4.5	104
33	Larger and faster: revised properties and a shorter orbital period for the WASP-57 planetary system from a pro-am collaboration. Monthly Notices of the Royal Astronomical Society, 2015, 454, 3094-3107.	4.4	32
34	starbench: the D-type expansion of an Hâ€‰ii region. Monthly Notices of the Royal Astronomical Society, 2015, 453, 1324-1343.	4.4	80
35	INFALL-DRIVEN PROTOSTELLAR ACCRETION AND THE SOLUTION TO THE LUMINOSITY PROBLEM. Astrophysical Journal, 2014, 797, 32.	4.5	80
36	On the local variation of the Hubble constant. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 028-028.	5.4	36

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37	ALMA observations of the kinematics and chemistry of disc formation. Astronomy and Astrophysics, 2014, 566, A74.	5.1	56
38	<scp>photon-plasma</scp>: A modern high-order particle-in-cell code. Physics of Plasmas, 2013, 20, .	1.9	26
39	KINETIC MODELING OF PARTICLE ACCELERATION IN A SOLAR NULL-POINT RECONNECTION REGION. Astrophysical Journal, 2013, 771, 93.	4.5	35
40	Zooming in on the Formation of Protoplanetary Disks. Proceedings of the International Astronomical Union, 2013, 8, 131-135.	0.0	4
41	A SIMPLE LAW OF STAR FORMATION. Astrophysical Journal Letters, 2012, 759, L27.	8.3	138
42	Neutrinos in non-linear structure formation â€" a simple SPH approach. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 045-045.	5.4	18
43	Halo abundances and shear in void models. Physics of the Dark Universe, 2012, 1, 24-31.	4.9	11
44	RADIATION SIGNATURES OF SUB-LARMOR SCALE MAGNETIC FIELDS. Astrophysical Journal, 2011, 737, 55.	4.5	35
45	THREE-DIMENSIONAL MODELING OF RELATIVISTIC COLLISIONLESS ION-ELECTRON SHOCKS. Astrophysical Journal Letters, 2011, 739, L42.	8.3	44
46	THE EFFECT OF PECULIAR VELOCITIES ON SUPERNOVA COSMOLOGY. Astrophysical Journal, 2011, 741, 67.	4.5	93
47	RADIATION SPECTRAL SYNTHESIS OF RELATIVISTIC FILAMENTATION. Astrophysical Journal Letters, 2010, 722, L114-L119.	8.3	30
48	RESIDUAL HUBBLE-BUBBLE EFFECTS ON SUPERNOVA COSMOLOGY. Astrophysical Journal, 2010, 718, 1445-1455.	4.5	29
49	Non-gaussianity from axion monodromy inflation. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 001-001.	5.4	24
50	Neutrinos in non-linear structure formation â€" the effect on halo properties. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 014-014.	5.4	76
51	Large scale structure simulations of inhomogeneous LemaÃ®tre-Tolman-Bondi void models. Physical Review D, 2010, 82, .	4.7	35
52	A GLOBAL AUTOCORRELATION STUDY AFTER THE FIRST AUGER DATA: IMPACT ON THE NUMBER DENSITY OF UHECR SOURCES. Astrophysical Journal, 2009, 702, 825-832.	4.5	17
53	The radial BAO scale and cosmic shear, a new observable for inhomogeneous cosmologies. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 028-028.	5.4	58
54	Angular signatures of annihilating dark matter in the cosmic gamma-ray background. Physical Review D, 2008, 77, .	4.7	48

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55	Confronting Lemaitreâ€“Tolmanâ€“Bondi models with observational cosmology. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 003.	5.4	202
56	Precision measurements of large scale structure with future type Ia supernova surveys. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 022.	5.4	13
57	The effect of thermal neutrino motion on the non-linear cosmological matter power spectrum. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 020.	5.4	125
58	Looking the void in the eyesâ€"the kinematic Sunyaevâ€“Zeldovich effect in LemaÃ®treâ€“Tolmanâ€“Bondi models. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 016.	5.4	105
59	Clustering Properties of Ultraâ€“Highâ€Energy Cosmic Rays and the Search for Their Astrophysical Sources. Astrophysical Journal, 2008, 676, 807-815.	4.5	15
60	The Velocity Field of the Local Universe from Measurements of Type Ia Supernovae. Astrophysical Journal, 2007, 661, 650-659.	4.5	49
61	The signature of large scale structures on the very high energy gamma ray sky. Journal of Cosmology and Astroparticle Physics, 2007, 2007, 013-013.	5.4	32
62	Magnetic Field Generation in Collisionless Shocks: Pattern Growth and Transport. Astrophysical Journal, 2004, 608, L13-L16.	4.5	209
63	Non-Fermi Power-Law Acceleration in Astrophysical Plasma Shocks. Astrophysical Journal, 2004, 617, L107-L110.	4.5	89