

# Troels Haugb lle

## List of Publications by Year in descending order

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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	Magnetic Field Generation in Collisionless Shocks: Pattern Growth and Transport. <i>Astrophysical Journal</i> , 2004, 608, L13-L16.	4.5	209
2	Confronting Lemaitre–Tolman–Bondi models with observational cosmology. <i>Journal of Cosmology and Astroparticle Physics</i> , 2008, 2008, 003.	5.4	202
3	SUPERNOVA DRIVING. I. THE ORIGIN OF MOLECULAR CLOUD TURBULENCE. <i>Astrophysical Journal</i> , 2016, 822, 11.	4.5	159
4	A SIMPLE LAW OF STAR FORMATION. <i>Astrophysical Journal Letters</i> , 2012, 759, L27.	8.3	138
5	The effect of thermal neutrino motion on the non-linear cosmological matter power spectrum. <i>Journal of Cosmology and Astroparticle Physics</i> , 2008, 2008, 020.	5.4	125
6	Looking the void in the eyes—the kinematic Sunyaev–Zeldovich effect in Lemaître–Tolman–Bondi models. <i>Journal of Cosmology and Astroparticle Physics</i> , 2008, 2008, 016.	5.4	105
7	PATHWAY TO THE GALACTIC DISTRIBUTION OF PLANETS: COMBINED <i>SPITZER</i> AND GROUND-BASED MICROLENS PARALLAX MEASUREMENTS OF 21 SINGLE-LENS EVENTS. <i>Astrophysical Journal</i> , 2015, 804, 20.	4.5	104
8	THE EFFECT OF PECULIAR VELOCITIES ON SUPERNOVA COSMOLOGY. <i>Astrophysical Journal</i> , 2011, 741, 67.	4.5	93
9	Non-Fermi Power-Law Acceleration in Astrophysical Plasma Shocks. <i>Astrophysical Journal</i> , 2004, 617, L107-L110.	4.5	89
10	The Origin of Massive Stars: The Inertial-inflow Model. <i>Astrophysical Journal</i> , 2020, 900, 82.	4.5	82
11	INFALL-DRIVEN PROTOSTELLAR ACCRETION AND THE SOLUTION TO THE LUMINOSITY PROBLEM. <i>Astrophysical Journal</i> , 2014, 797, 32.	4.5	80
12	starbench: the D-type expansion of an H <sub>ii</sub> region. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 1324-1343.	4.4	80
13	Zoom-in Simulations of Protoplanetary Disks Starting from GMC Scales. <i>Astrophysical Journal</i> , 2017, 846, 7.	4.5	80
14	Supernova Driving. IV. The Star-formation Rate of Molecular Clouds. <i>Astrophysical Journal</i> , 2017, 840, 48.	4.5	78
15	Neutrinos in non-linear structure formation—the effect on halo properties. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 014-014.	5.4	76
16	High-precision photometry by telescope defocusing—VII. The ultrashort period planet WASP-103—... <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 711-721.	4.4	66
17	Orbital alignment and star-spot properties in the WASP-52 planetary system. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 843-857.	4.4	64
18	The radial BAO scale and cosmic shear, a new observable for inhomogeneous cosmologies. <i>Journal of Cosmology and Astroparticle Physics</i> , 2009, 2009, 028-028.	5.4	58

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19	ALMA observations of the kinematics and chemistry of disc formation. <i>Astronomy and Astrophysics</i> , 2014, 566, A74.	5.1	56
20	Episodic accretion: the interplay of infall and disc instabilities. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 2642-2658.	4.4	56
21	The Stellar IMF from Isothermal MHD Turbulence. <i>Astrophysical Journal</i> , 2018, 854, 35.	4.5	51
22	The Velocity Field of the Local Universe from Measurements of Type Ia Supernovae. <i>Astrophysical Journal</i> , 2007, 661, 650-659.	4.5	49
23	Angular signatures of annihilating dark matter in the cosmic gamma-ray background. <i>Physical Review D</i> , 2008, 77, .	4.7	48
24	THREE-DIMENSIONAL MODELING OF RELATIVISTIC COLLISIONLESS ION-ELECTRON SHOCKS. <i>Astrophysical Journal Letters</i> , 2011, 739, L42.	8.3	44
25	High-precision photometry by telescope defocussing â€“ VIII. WASP-22, WASP-41, WASP-42 and WASP-55. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 4205-4217.	4.4	42
26	$\hat{1}/2\text{CO} < i > \text{N} < / i > \text{CEPT}$ : cosmological neutrino simulations from the non-linear Boltzmann hierarchy. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 052-052.	5.4	38
27	TRACKING THE DISTRIBUTION OF $< \text{sup} > 26 < / \text{sup} > \text{Al}$ AND $< \text{sup} > 60 < / \text{sup} > \text{Fe}$ DURING THE EARLY PHASES OF STAR AND DISK EVOLUTION. <i>Astrophysical Journal</i> , 2016, 826, 22.	4.5	37
28	On the local variation of the Hubble constant. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 028-028.	5.4	36
29	Explaining the luminosity spread in young clusters: proto and pre-main sequence stellar evolution in a molecular cloud environment. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 1176-1193.	4.4	36
30	Large scale structure simulations of inhomogeneous Lemaître-Tolman-Bondi void models. <i>Physical Review D</i> , 2010, 82, .	4.7	35
31	RADIATION SIGNATURES OF SUB-LARMOR SCALE MAGNETIC FIELDS. <i>Astrophysical Journal</i> , 2011, 737, 55.	4.5	35
32	KINETIC MODELING OF PARTICLE ACCELERATION IN A SOLAR NULL-POINT RECONNECTION REGION. <i>Astrophysical Journal</i> , 2013, 771, 93.	4.5	35
33	SUPERNOVA DRIVING. II. COMPRESSIVE RATIO IN MOLECULAR-CLOUD TURBULENCE. <i>Astrophysical Journal</i> , 2016, 825, 30.	4.5	35
34	The signature of large scale structures on the very high energy gamma ray sky. <i>Journal of Cosmology and Astroparticle Physics</i> , 2007, 2007, 013-013.	5.4	32
35	Larger and faster: revised properties and a shorter orbital period for the WASP-57 planetary system from a pro-am collaboration. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 3094-3107.	4.4	32
36	RADIATION SPECTRAL SYNTHESIS OF RELATIVISTIC FILAMENTATION. <i>Astrophysical Journal Letters</i> , 2010, 722, L114-L119.	8.3	30

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37	RESIDUAL HUBBLE-BUBBLE EFFECTS ON SUPERNOVA COSMOLOGY. <i>Astrophysical Journal</i> , 2010, 718, 1445-1455.	4.5	29
38	A detailed framework to incorporate dust in hydrodynamical simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 1259-1274.	4.4	29
39	Probing the Protosolar Disk Using Dust Filtering at Gaps in the Early Solar System. <i>Astronomical Journal</i> , 2019, 158, 55.	4.7	28
40	<sc>photon-plasma</sc>: A modern high-order particle-in-cell code. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	26
41	Non-gaussianity from axion monodromy inflation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 001-001.	5.4	24
42	OGLE-2015-BLG-0479LA,B: BINARY GRAVITATIONAL MICROLENS CHARACTERIZED BY SIMULTANEOUS GROUND-BASED AND SPACE-BASED OBSERVATIONS. <i>Astrophysical Journal</i> , 2016, 828, 53.	4.5	23
43	From the CMF to the IMF: beyond the core-collapse model. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 1219-1236.	4.4	23
44	SUPERNOVA DRIVING. III. SYNTHETIC MOLECULAR CLOUD OBSERVATIONS. <i>Astrophysical Journal</i> , 2016, 826, 140.	4.5	22
45	Natural separation of two primordial planetary reservoirs in an expanding solar protoplanetary disk. <i>Science Advances</i> , 2022, 8, eabm3045.	10.3	20
46	Large-scale numerical simulations of star formation put to the test. <i>Astronomy and Astrophysics</i> , 2016, 587, A59.	5.1	19
47	Neutrinos in non-linear structure formation â€” a simple SPH approach. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 045-045.	5.4	18
48	A GLOBAL AUTOCORRELATION STUDY AFTER THE FIRST AUGER DATA: IMPACT ON THE NUMBER DENSITY OF UHECR SOURCES. <i>Astrophysical Journal</i> , 2009, 702, 825-832.	4.5	17
49	Protostellar accretion traced with chemistry. <i>Astronomy and Astrophysics</i> , 2016, 587, A60.	5.1	16
50	Clustering Properties of Ultraâ€”Highâ€”Energy Cosmic Rays and the Search for Their Astrophysical Sources. <i>Astrophysical Journal</i> , 2008, 676, 807-815.	4.5	15
51	The Effect of Supernovae on the Turbulence and Dispersal of Molecular Clouds. <i>Astrophysical Journal</i> , 2020, 904, 58.	4.5	15
52	Precision measurements of large scale structure with future type Ia supernova surveys. <i>Journal of Cosmology and Astroparticle Physics</i> , 2008, 2008, 022.	5.4	13
53	Hybrid Accretion of Carbonaceous Chondrites by Radial Transport across the Jupiter Barrier. <i>Astrophysical Journal</i> , 2021, 910, 70.	4.5	12
54	The dependence of episodic accretion on eccentricity during the formation of binary stars. <i>Astronomy and Astrophysics</i> , 2020, 641, A59.	5.1	12

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55	Halo abundances and shear in void models. <i>Physics of the Dark Universe</i> , 2012, 1, 24-31.	4.9	11
56	The challenges of modelling microphysics: ambipolar diffusion, chemistry, and cosmic rays in MHD shocks. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 161-184.	4.4	11
57	Binarity of a protostar affects the evolution of the disk and planets. <i>Nature</i> , 2022, 606, 272-275.	27.8	11
58	Modeling chemistry during star formation: water deuteration in dynamic star-forming regions. <i>Astronomy and Astrophysics</i> , 2021, 649, A66.	5.1	10
59	OGLE-2014-BLG-1186: gravitational microlensing providing evidence for a planet orbiting the foreground star or for a close binary source?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 5608-5632.	4.4	7
60	Zooming in on the Formation of Protoplanetary Disks. <i>Proceedings of the International Astronomical Union</i> , 2013, 8, 131-135.	0.0	4
61	Physical properties and real nature of massive clumps in the galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 510, 1697-1715.	4.4	2
62	A simple and efficient solver for self-gravity in the DISPATCH astrophysical simulation framework. <i>Journal of Physics: Conference Series</i> , 2018, 1031, 012021.	0.4	1
63	The dynamical state of massive clumps. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 5589-5607.	4.4	1