

Matthew J Turk

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

5,908
citations

172457

29
h-index

289244

40
g-index

49
all docs

49
docs citations

49
times ranked

3842
citing authors

#	ARTICLE	IF	CITATIONS
1	yt: A MULTI-CODE ANALYSIS TOOLKIT FOR ASTROPHYSICAL SIMULATION DATA. <i>Astrophysical Journal, Supplement Series</i> , 2011, 192, 9.	7.7	959
2	ENZO: AN ADAPTIVE MESH REFINEMENT CODE FOR ASTROPHYSICS. <i>Astrophysical Journal, Supplement Series</i> , 2014, 211, 19.	7.7	615
3	First Sagittarius A* Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way. <i>Astrophysical Journal Letters</i> , 2022, 930, L12.	8.3	568
4	THE BIRTH OF A GALAXY: PRIMORDIAL METAL ENRICHMENT AND STELLAR POPULATIONS. <i>Astrophysical Journal</i> , 2012, 745, 50.	4.5	357
5	The birth of a galaxy â€“ III. Propelling reionization with the faintest galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 442, 2560-2579.	4.4	321
6	The Formation of Population III Binaries from Cosmological Initial Conditions. <i>Science</i> , 2009, 325, 601-605.	12.6	301
7	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , 2022, 930, L17.	8.3	215
8	grackle: a chemistry and cooling library for astrophysics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 2217-2234.	4.4	201
9	First Sagittarius A* Event Horizon Telescope Results. V. Testing Astrophysical Models of the Galactic Center Black Hole. <i>Astrophysical Journal Letters</i> , 2022, 930, L16.	8.3	187
10	Resolving the Formation of Protogalaxies. II. Central Gravitational Collapse. <i>Astrophysical Journal</i> , 2008, 682, 745-757.	4.5	185
11	THE AGORA HIGH-RESOLUTION GALAXY SIMULATIONS COMPARISON PROJECT. <i>Astrophysical Journal, Supplement Series</i> , 2014, 210, 14.	7.7	185
12	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2022, 930, L14.	8.3	163
13	The formation of submillimetre-bright galaxies from gas infall over a billion years. <i>Nature</i> , 2015, 525, 496-499.	27.8	154
14	The birth of a galaxy â€“ II. The role of radiation pressure. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 311-326.	4.4	147
15	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. <i>Astrophysical Journal Letters</i> , 2022, 930, L13.	8.3	142
16	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. <i>Astrophysical Journal Letters</i> , 2022, 930, L15.	8.3	137
17	MAGNETIC FIELDS IN POPULATION III STAR FORMATION. <i>Astrophysical Journal</i> , 2012, 745, 154.	4.5	134
18	THREE MODES OF METAL-ENRICHED STAR FORMATION IN THE EARLY UNIVERSE. <i>Astrophysical Journal</i> , 2009, 691, 441-451.	4.5	126

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19	Constraints on hydrodynamical subgrid models from quasar absorption line studies of the simulated circumgalactic medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 430, 1548-1565.	4.4	114
20	Crops In Silico: Generating Virtual Crops Using an Integrative and Multi-scale Modeling Platform. <i>Frontiers in Plant Science</i> , 2017, 8, 786.	3.6	102
21	THE AGORA HIGH-RESOLUTION GALAXY SIMULATIONS COMPARISON PROJECT. II. ISOLATED DISK TEST. <i>Astrophysical Journal</i> , 2016, 833, 202.	4.5	88
22	EFFECTS OF VARYING THE THREE-BODY MOLECULAR HYDROGEN FORMATION RATE IN PRIMORDIAL STAR FORMATION. <i>Astrophysical Journal</i> , 2011, 726, 55.	4.5	58
23	gamer-2: a GPU-accelerated adaptive mesh refinement code â€“ accuracy, performance, and scalability. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 4815-4840.	4.4	49
24	ENZO: An Adaptive Mesh Refinement Code for Astrophysics (Version 2.6). <i>Journal of Open Source Software</i> , 2019, 4, 1636.	4.6	44
25	Machine learning and cosmological simulations â€“ II. Hydrodynamical simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 1162-1179.	4.4	41
26	Machine learning and cosmological simulations â€“ I. Semi-analytical models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 642-658.	4.4	38
27	Multiscale computational models can guide experimentation and targeted measurements for crop improvement. <i>Plant Journal</i> , 2020, 103, 21-31.	5.7	36
28	DWARF GALAXIES WITH IONIZING RADIATION FEEDBACK. I. ESCAPE OF IONIZING PHOTONS. <i>Astrophysical Journal</i> , 2013, 775, 109.	4.5	35
29	powderday: Dust Radiative Transfer for Galaxy Simulations. <i>Astrophysical Journal, Supplement Series</i> , 2021, 252, 12.	7.7	35
30	POPULATION III STAR FORMATION IN LARGE COSMOLOGICAL VOLUMES. I. HALO TEMPORAL AND PHYSICAL ENVIRONMENT. <i>Astrophysical Journal</i> , 2013, 773, 108.	4.5	28
31	DWARF GALAXIES WITH IONIZING RADIATION FEEDBACK. II. SPATIALLY RESOLVED STAR FORMATION RELATION. <i>Astrophysical Journal</i> , 2013, 779, 8.	4.5	24
32	PARALLEL HOP: A SCALABLE HALO FINDER FOR MASSIVE COSMOLOGICAL DATA SETS. <i>Astrophysical Journal, Supplement Series</i> , 2010, 191, 43-57.	7.7	20
33	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. <i>Astrophysical Journal Letters</i> , 2022, 930, L21.	8.3	20
34	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. <i>Astrophysical Journal Letters</i> , 2022, 930, L20.	8.3	20
35	HIGH-ENTROPY POLAR REGIONS AROUND THE FIRST PROTOSTARS. <i>Astrophysical Journal Letters</i> , 2010, 725, L140-L144.	8.3	15
36	unyt: Handle, manipulate, and convert data with units in Python. <i>Journal of Open Source Software</i> , 2018, 3, 809.	4.6	15

#	ARTICLE	IF	CITATIONS
37	The AGORA High-resolution Galaxy Simulations Comparison Project. III. Cosmological Zoom-in Simulation of a Milky Way “mass Halo. <i>Astrophysical Journal</i> , 2021, 917, 64.	4.5	12
38	Scaling a code in the human dimension. , 2013, , .		10
39	Pooch: A friend to fetch your data files. <i>Journal of Open Source Software</i> , 2020, 5, 1943.	4.6	4
40	Three Modes of Metal-Enriched Star Formation in the Early Universe. , 2010, , .		1
41	Large-scale Dynamo in a Primordial Accretion Flow: An Interpretation from Hydrodynamic Simulation. <i>Astrophysical Journal</i> , 2021, 909, 37.	4.5	1
42	widgyts: Custom Jupyter Widgets for Interactive Data Exploration with yt. <i>Journal of Open Source Software</i> , 2020, 5, 1774.	4.6	1
43	Three Modes of Metal-Enriched Star Formation at High Redshift. <i>Proceedings of the International Astronomical Union</i> , 2008, 4, 111-115.	0.0	0
44	Population III Binary Formation. , 2010, , .		0
45	Magnetic fields and angular momentum in population III star formation. , 2012, , .		0
46	Turbulence and small scale dynamo action in population III star formation. , 2012, , .		0
47	The imprint of pop III stars on the first galaxies. , 2012, , .		0