

Jeffrey S Oishi

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

3,983
citations

304743

22
h-index

330143

37
g-index

42
all docs

42
docs citations

42
times ranked

3697
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid planetesimal formation in turbulent circumstellar disks. <i>Nature</i> , 2007, 448, 1022-1025.	27.8	972
2	yt: A MULTI-CODE ANALYSIS TOOLKIT FOR ASTROPHYSICAL SIMULATION DATA. <i>Astrophysical Journal, Supplement Series</i> , 2011, 192, 9.	7.7	959
3	ENZO: AN ADAPTIVE MESH REFINEMENT CODE FOR ASTROPHYSICS. <i>Astrophysical Journal, Supplement Series</i> , 2014, 211, 19.	7.7	615
4	Dedalus: A flexible framework for numerical simulations with spectral methods. <i>Physical Review Research</i> , 2020, 2, .	3.6	218
5	SIMULATING THE COMMON ENVELOPE PHASE OF A RED GIANT USING SMOOTHED-PARTICLE HYDRODYNAMICS AND UNIFORM-GRID CODES. <i>Astrophysical Journal</i> , 2012, 744, 52.	4.5	189
6	MAGNETIC FIELDS IN POPULATION III STAR FORMATION. <i>Astrophysical Journal</i> , 2012, 745, 154.	4.5	134
7	Cassiopeia A and Its Clumpy Presupernova Wind. <i>Astrophysical Journal</i> , 2003, 593, L23-L26.	4.5	108
8	Turbulent Torques on Protoplanets in a Dead Zone. <i>Astrophysical Journal</i> , 2007, 670, 805-819.	4.5	85
9	A validated non-linear Kelvin-Helmholtz benchmark for numerical hydrodynamics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 4274-4288.	4.4	66
10	The Inability of Ambipolar Diffusion to Set a Characteristic Mass Scale in Molecular Clouds. <i>Astrophysical Journal</i> , 2006, 638, 281-285.	4.5	50
11	ON HYDRODYNAMIC MOTIONS IN DEAD ZONES. <i>Astrophysical Journal</i> , 2009, 704, 1239-1250.	4.5	50
12	MAGNETOROTATIONAL TURBULENCE TRANSPORTS ANGULAR MOMENTUM IN STRATIFIED DISKS WITH LOW MAGNETIC PRANDTL NUMBER BUT MAGNETIC REYNOLDS NUMBER ABOVE A CRITICAL VALUE. <i>Astrophysical Journal</i> , 2011, 740, 18.	4.5	46
13	ENZO: An Adaptive Mesh Refinement Code for Astrophysics (Version 2.6). <i>Journal of Open Source Software</i> , 2019, 4, 1636.	4.6	44
14	SELF-GENERATED TURBULENCE IN MAGNETIC RECONNECTION. <i>Astrophysical Journal Letters</i> , 2015, 806, L12.	8.3	43
15	Flow-Induced Symmetry Breaking in Growing Bacterial Biofilms. <i>Physical Review Letters</i> , 2019, 123, 258101.	7.8	41
16	Numerical simulations of internal wave generation by convection in water. <i>Physical Review E</i> , 2015, 91, 063016.	2.1	40
17	TURBULENT CHEMICAL DIFFUSION IN CONVECTIVELY BOUNDED CARBON FLAMES. <i>Astrophysical Journal</i> , 2016, 832, 71.	4.5	39
18	Hybrid Adaptive Ray-Moment Method (HARM2): A highly parallel method for radiation hydrodynamics on adaptive grids. <i>Journal of Computational Physics</i> , 2017, 330, 924-942.	3.8	34

#	ARTICLE	IF	CITATIONS
19	ON THE STABILITY OF DUST-LADEN PROTOPLANETARY VORTICES. <i>Astrophysical Journal</i> , 2010, 721, 1593-1602.	4.5	33
20	Dynamical Expansion of H ₂ Regions from Ultracompact to Compact Sizes in Turbulent, Self-gravitating Molecular Clouds. <i>Astrophysical Journal</i> , 2007, 668, 980-992.	4.5	28
21	Tensor calculus in polar coordinates using Jacobi polynomials. <i>Journal of Computational Physics</i> , 2016, 325, 53-73.	3.8	28
22	CONDUCTION IN LOW MACH NUMBER FLOWS. I. LINEAR AND WEAKLY NONLINEAR REGIMES. <i>Astrophysical Journal</i> , 2014, 797, 94.	4.5	27
23	Convective Dynamics and Disequilibrium Chemistry in the Atmospheres of Giant Planets and Brown Dwarfs. <i>Astrophysical Journal</i> , 2018, 854, 8.	4.5	19
24	Single-hemisphere Dynamos in M-dwarf Stars. <i>Astrophysical Journal Letters</i> , 2020, 902, L3.	8.3	17
25	The Weakly Nonlinear Magnetorotational Instability in a Local Geometry. <i>Astrophysical Journal</i> , 2017, 841, 1.	4.5	16
26	Breezing through the Space Environment of Barnard's Star b. <i>Astrophysical Journal Letters</i> , 2019, 875, L12.	8.3	15
27	Predicting the Rossby Number in Convective Experiments. <i>Astrophysical Journal</i> , 2019, 872, 138.	4.5	11
28	Accelerated evolution of convective simulations. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	9
29	The Weakly Nonlinear Magnetorotational Instability in a Global, Cylindrical Taylor-Couette Flow. <i>Astrophysical Journal</i> , 2017, 841, 2.	4.5	8
30	Tensor calculus in spherical coordinates using Jacobi polynomials. Part-II: Implementation and examples. <i>Journal of Computational Physics: X</i> , 2019, 3, 100012.	0.7	8
31	A Constrained-Transport Magnetohydrodynamics Algorithm with Near-Spectral Resolution. <i>Astrophysical Journal</i> , 2008, 677, 520-529.	4.5	6
32	Tensor calculus in spherical coordinates using Jacobi polynomials. Part-I: Mathematical analysis and derivations. <i>Journal of Computational Physics: X</i> , 2019, 3, 100013.	0.7	6
33	eigentools: A Python package for studying differential eigenvalue problems with an emphasis on robustness. <i>Journal of Open Source Software</i> , 2021, 6, 3079.	4.6	5
34	Generalized quasilinear approximation of the interaction of convection and mean flows in a thermal annulus. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018, 474, 20180422.	2.1	4
35	Performance of parallel-in-time integration for Rayleigh-Bénard convection. <i>Computing and Visualization in Science</i> , 2020, 23, 1.	1.2	4
36	The magnetorotational instability prefers three dimensions. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20190622.	2.1	4

#	ARTICLE	IF	CITATIONS
37	Convective Boundary Mixing Processes. Research Notes of the AAS, 2022, 6, 41.	0.7	2
38	Numerical Methods for Radiative Feedback from the First Stars: Ionization in Adaptive Mesh Refinement Simulations. , 2010, , .		0
39	Magnetic fields and angular momentum in population III star formation. , 2012, , .		0
40	Turbulence and small scale dynamo action in population III star formation. , 2012, , .		0
41	Methods for Simulating the Heavy Core Instability. EPJ Web of Conferences, 2013, 46, 06001.	0.3	0