

Jeffrey S Oishi

List of Publications by Year in descending order

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3,983
citations

304743

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37
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42
all docs

42
docs citations

42
times ranked

3697
citing authors

#	ARTICLE	IF	CITATIONS
1	Convective Boundary Mixing Processes. Research Notes of the AAS, 2022, 6, 41.	0.7	2
2	eigentools: A Python package for studying differential eigenvalue problems with an emphasis on robustness. Journal of Open Source Software, 2021, 6, 3079.	4.6	5
3	Performance of parallel-in-time integration for Rayleigh B�nard convection. Computing and Visualization in Science, 2020, 23, 1.	1.2	4
4	The magnetorotational instability prefers three dimensions. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20190622.	2.1	4
5	Dedalus: A flexible framework for numerical simulations with spectral methods. Physical Review Research, 2020, 2, .	3.6	218
6	Single-hemisphere Dynamos in M-dwarf Stars. Astrophysical Journal Letters, 2020, 902, L3.	8.3	17
7	Tensor calculus in spherical coordinates using Jacobi polynomials. Part-II: Implementation and examples. Journal of Computational Physics: X, 2019, 3, 100012.	0.7	8
8	Breezing through the Space Environment of Barnard�s Star b. Astrophysical Journal Letters, 2019, 875, L12.	8.3	15
9	Tensor calculus in spherical coordinates using Jacobi polynomials. Part-I: Mathematical analysis and derivations. Journal of Computational Physics: X, 2019, 3, 100013.	0.7	6
10	Predicting the Rossby Number in Convective Experiments. Astrophysical Journal, 2019, 872, 138.	4.5	11
11	Flow-Induced Symmetry Breaking in Growing Bacterial Biofilms. Physical Review Letters, 2019, 123, 258101.	7.8	41
12	ENZO: An Adaptive Mesh Refinement Code for Astrophysics (Version 2.6). Journal of Open Source Software, 2019, 4, 1636.	4.6	44
13	Convective Dynamics and Disequilibrium Chemistry in the Atmospheres of Giant Planets and Brown Dwarfs. Astrophysical Journal, 2018, 854, 8.	4.5	19
14	Generalized quasilinear approximation of the interaction of convection and mean flows in a thermal annulus. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20180422.	2.1	4
15	Accelerated evolution of convective simulations. Physical Review Fluids, 2018, 3, .	2.5	9
16	The Weakly Nonlinear Magnetorotational Instability in a Global, Cylindrical Taylor�Couette Flow. Astrophysical Journal, 2017, 841, 2.	4.5	8
17	The Weakly Nonlinear Magnetorotational Instability in a Local Geometry. Astrophysical Journal, 2017, 841, 1.	4.5	16
18	Hybrid Adaptive Ray-Moment Method (HARM2): A highly parallel method for radiation hydrodynamics on adaptive grids. Journal of Computational Physics, 2017, 330, 924-942.	3.8	34

#	ARTICLE	IF	CITATIONS
19	TURBULENT CHEMICAL DIFFUSION IN CONVECTIVELY BOUNDED CARBON FLAMES. <i>Astrophysical Journal</i> , 2016, 832, 71.	4.5	39
20	Tensor calculus in polar coordinates using Jacobi polynomials. <i>Journal of Computational Physics</i> , 2016, 325, 53-73.	3.8	28
21	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
22	Numerical simulations of internal wave generation by convection in water. <i>Physical Review E</i> , 2015, 91, 063016.	2.1	40
23	SELF-GENERATED TURBULENCE IN MAGNETIC RECONNECTION. <i>Astrophysical Journal Letters</i> , 2015, 806, L12.	8.3	43
24	ENZO: AN ADAPTIVE MESH REFINEMENT CODE FOR ASTROPHYSICS. <i>Astrophysical Journal, Supplement Series</i> , 2014, 211, 19.	7.7	615
25	CONDUCTION IN LOW MACH NUMBER FLOWS. I. LINEAR AND WEAKLY NONLINEAR REGIMES. <i>Astrophysical Journal</i> , 2014, 797, 94.	4.5	27
26	Methods for Simulating the Heavy Core Instability. <i>EPJ Web of Conferences</i> , 2013, 46, 06001.	0.3	0
27	Magnetic fields and angular momentum in population III star formation. , 2012, , .		0
28	Turbulence and small scale dynamo action in population III star formation. , 2012, , .		0
29	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
30	MAGNETIC FIELDS IN POPULATION III STAR FORMATION. <i>Astrophysical Journal</i> , 2012, 745, 154.	4.5	134
31	yt: A MULTI-CODE ANALYSIS TOOLKIT FOR ASTROPHYSICAL SIMULATION DATA. <i>Astrophysical Journal, Supplement Series</i> , 2011, 192, 9.	7.7	959
32	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
33	Numerical Methods for Radiative Feedback from the First Stars: Ionization in Adaptive Mesh Refinement Simulations. , 2010, , .		0
34	ON THE STABILITY OF DUST-LADEN PROTOPLANETARY VORTICES. <i>Astrophysical Journal</i> , 2010, 721, 1593-1602.	4.5	33
35	ON HYDRODYNAMIC MOTIONS IN DEAD ZONES. <i>Astrophysical Journal</i> , 2009, 704, 1239-1250.	4.5	50
36	A Constrained Transport Magnetohydrodynamics Algorithm with Near-Spectral Resolution. <i>Astrophysical Journal</i> , 2008, 677, 520-529.	4.5	6

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37	Dynamical Expansion of H _{ii} Regions from Ultracompact to Compact Sizes in Turbulent, Self-gravitating Molecular Clouds. <i>Astrophysical Journal</i> , 2007, 668, 980-992.	4.5	28
38	Turbulent Torques on Protoplanets in a Dead Zone. <i>Astrophysical Journal</i> , 2007, 670, 805-819.	4.5	85
39	Rapid planetesimal formation in turbulent circumstellar disks. <i>Nature</i> , 2007, 448, 1022-1025.	27.8	972
40	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
41	Cassiopeia A and Its Clumpy Presupernova Wind. <i>Astrophysical Journal</i> , 2003, 593, L23-L26.	4.5	108