

Adam Burrows

List of Publications by Year in descending order

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181
papers

22,688
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5558

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times ranked

7293
citing authors

#	ARTICLE	IF	CITATIONS
1	A Nongray Theory of Extrasolar Giant Planets and Brown Dwarfs. <i>Astrophysical Journal</i> , 1997, 491, 856-875.	1.6	1,136
2	The theory of brown dwarfs and extrasolar giant planets. <i>Reviews of Modern Physics</i> , 2001, 73, 719-765.	16.4	618
3	On the Nature of Core-Collapse Supernova Explosions. <i>Astrophysical Journal</i> , 1995, 450, 830.	1.6	593
4	Hubble Space Telescope Time-Series Photometry of the Transiting Planet of HD 209458. <i>Astrophysical Journal</i> , 2001, 552, 699-709.	1.6	502
5	INFRARED TRANSMISSION SPECTROSCOPY OF THE EXOPLANETS HD 209458b AND XO-1b USING THE WIDE FIELD CAMERA-3 ON THE HUBBLE SPACE TELESCOPE. <i>Astrophysical Journal</i> , 2013, 774, 95.	1.6	409
6	Chemical Equilibrium Abundances in Brown Dwarf and Extrasolar Giant Planet Atmospheres. <i>Astrophysical Journal</i> , 1999, 512, 843-863.	1.6	404
7	The 3.6–8.0 μ m Broadband Emission Spectrum of HD 209458b: Evidence for an Atmospheric Temperature Inversion. <i>Astrophysical Journal</i> , 2008, 673, 526-531.	1.6	386
8	Colloquium: Perspectives on core-collapse supernova theory. <i>Reviews of Modern Physics</i> , 2013, 85, 245-261.	16.4	375
9	A Possible Bifurcation in Atmospheres of Strongly Irradiated Stars and Planets. <i>Astrophysical Journal</i> , 2003, 594, 1011-1018.	1.6	364
10	Simulations of Magnetically Driven Supernova and Hypernova Explosions in the Context of Rapid Rotation. <i>Astrophysical Journal</i> , 2007, 664, 416-434.	1.6	359
11	Possible Solutions to the Radius Anomalies of Transiting Giant Planets. <i>Astrophysical Journal</i> , 2007, 661, 502-514.	1.6	341
12	Giant Planets at Small Orbital Distances. <i>Astrophysical Journal</i> , 1996, 459, .	1.6	338
13	L and T Dwarf Models and the L to T Transition. <i>Astrophysical Journal</i> , 2006, 640, 1063-1077.	1.6	318
14	SPECTRAL AND PHOTOMETRIC DIAGNOSTICS OF GIANT PLANET FORMATION SCENARIOS. <i>Astrophysical Journal</i> , 2012, 745, 174.	1.6	308
15	A New Mechanism for Core-Collapse Supernova Explosions. <i>Astrophysical Journal</i> , 2006, 640, 878-890.	1.6	303
16	Albedo and Reflection Spectra of Extrasolar Giant Planets. <i>Astrophysical Journal</i> , 2000, 538, 885-903.	1.6	300
17	A PRECISE WATER ABUNDANCE MEASUREMENT FOR THE HOT JUPITER WASP-43b. <i>Astrophysical Journal Letters</i> , 2014, 793, L27.	3.0	297
18	Shock Breakout in Core-Collapse Supernovae and Its Neutrino Signature. <i>Astrophysical Journal</i> , 2003, 592, 434-456.	1.6	295

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19	Atomic and Molecular Opacities for Brown Dwarf and Giant Planet Atmospheres. <i>Astrophysical Journal, Supplement Series</i> , 2007, 168, 140-166.	3.0	289
20	The Gemini Planet Imager Exoplanet Survey: Giant Planet and Brown Dwarf Demographics from 10 to 100 au. <i>Astronomical Journal</i> , 2019, 158, 13.	1.9	270
21	Atmospheric, Evolutionary, and Spectral Models of the Brown Dwarf Gliese 229 B. <i>Science</i> , 1996, 272, 1919-1921.	6.0	268
22	Theoretical Spectra and Atmospheres of Extrasolar Giant Planets. <i>Astrophysical Journal</i> , 2003, 588, 1121-1148.	1.6	266
23	Thermal structure of an exoplanet atmosphere from phase-resolved emission spectroscopy. <i>Science</i> , 2014, 346, 838-841.	6.0	266
24	3.6 AND 4.5 μ m PHASE CURVES AND EVIDENCE FOR NON-EQUILIBRIUM CHEMISTRY IN THE ATMOSPHERE OF EXTRASOLAR PLANET HD 189733b. <i>Astrophysical Journal</i> , 2012, 754, 22.	1.6	264
25	Pulsar Recoil and Gravitational Radiation Due to Asymmetrical Stellar Collapse and Explosion. <i>Physical Review Letters</i> , 1996, 76, 352-355.	2.9	256
26	Theoretical Spectra and Light Curves of Close-in Extrasolar Giant Planets and Comparison with Data. <i>Astrophysical Journal</i> , 2008, 678, 1436-1457.	1.6	256
27	Strong water absorption in the dayside emission spectrum of the planet HD 189733b. <i>Nature</i> , 2008, 456, 767-769.	13.7	252
28	CAN TiO EXPLAIN THERMAL INVERSIONS IN THE UPPER ATMOSPHERES OF IRRADIATED GIANT PLANETS?. <i>Astrophysical Journal</i> , 2009, 699, 1487-1500.	1.6	244
29	A COMBINED SUBARU/VLT/MMT 1-5 μ m STUDY OF PLANETS ORBITING HR 8799: IMPLICATIONS FOR ATMOSPHERIC PROPERTIES, MASSES, AND FORMATION. <i>Astrophysical Journal</i> , 2011, 729, 128.	1.6	233
30	Theoretical Spectral Models of the Planet HD 209458b with a Thermal Inversion and Water Emission Bands. <i>Astrophysical Journal</i> , 2007, 668, L171-L174.	1.6	225
31	THE DEUTERIUM-BURNING MASS LIMIT FOR BROWN DWARFS AND GIANT PLANETS. <i>Astrophysical Journal</i> , 2011, 727, 57.	1.6	216
32	Core-collapse supernova explosion theory. <i>Nature</i> , 2021, 589, 29-39.	13.7	215
33	<i>SPITZER</i> SECONDARY ECLIPSES OF THE DENSE, MODESTLY-IRRADIATED, GIANT EXOPLANET HAT-P-20b USING PIXEL-LEVEL DECORRELATION. <i>Astrophysical Journal</i> , 2015, 805, 132.	1.6	212
34	DIRECT IMAGING OF A COLD JOVIAN EXOPLANET IN ORBIT AROUND THE SUN-LIKE STAR GJ 504. <i>Astrophysical Journal</i> , 2013, 774, 11.	1.6	205
35	Neutrino opacities in nuclear matter. <i>Nuclear Physics A</i> , 2006, 777, 356-394.	0.6	191
36	A Theory of Supernova Explosions. <i>Astrophysical Journal</i> , 1993, 416, L75.	1.6	188

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37	Theory of Extrasolar Giant Planet Transits. <i>Astrophysical Journal</i> , 2001, 560, 413-419.	1.6	184
38	THERMAL PHASE VARIATIONS OF WASP-12b: DEFYING PREDICTIONS. <i>Astrophysical Journal</i> , 2012, 747, 82.	1.6	179
39	Criteria for Core-Collapse Supernova Explosions by the Neutrino Mechanism. <i>Astrophysical Journal</i> , 2008, 688, 1159-1175.	1.6	176
40	Two-Dimensional Multiangle, Multigroup Neutrino Radiation-Hydrodynamic Simulations of Postbounce Supernova Cores. <i>Astrophysical Journal</i> , 2008, 685, 1069-1088.	1.6	175
41	The Spin Periods and Rotational Profiles of Neutron Stars at Birth. <i>Astrophysical Journal</i> , Supplement Series, 2006, 164, 130-155.	3.0	169
42	Features of the Acoustic Mechanism of Core-Collapse Supernova Explosions. <i>Astrophysical Journal</i> , 2007, 655, 416-433.	1.6	165
43	The overarching framework of core-collapse supernova explosions as revealed by 3D <scp>fornax</scp> simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 2715-2735.	1.6	164
44	DIMENSION AS A KEY TO THE NEUTRINO MECHANISM OF CORE-COLLAPSE SUPERNOVA EXPLOSIONS. <i>Astrophysical Journal</i> , 2010, 720, 694-703.	1.6	163
45	MODEL ATMOSPHERES FOR MASSIVE GAS GIANTS WITH THICK CLOUDS: APPLICATION TO THE HR 8799 PLANETS AND PREDICTIONS FOR FUTURE DETECTIONS. <i>Astrophysical Journal</i> , 2011, 737, 34.	1.6	163
46	ORBITAL PHASE VARIATIONS OF THE ECCENTRIC GIANT PLANET HAT-P-2b. <i>Astrophysical Journal</i> , 2013, 766, 95.	1.6	153
47	FIRST LIGHT LBT AO IMAGES OF HR 8799 bcde AT 1.6 AND 3.3 μ m: NEW DISCREPANCIES BETWEEN YOUNG PLANETS AND OLD BROWN DWARFS. <i>Astrophysical Journal</i> , 2012, 753, 14.	1.6	152
48	THE 4.5 μ m FULL-ORBIT PHASE CURVE OF THE HOT JUPITER HD 209458b. <i>Astrophysical Journal</i> , 2014, 790, 53.	1.6	152
49	Effects of correlations on neutrino opacities in nuclear matter. <i>Physical Review C</i> , 1998, 58, 554-571.	1.1	151
50	A MODEL FOR GRAVITATIONAL WAVE EMISSION FROM NEUTRINO-DRIVEN CORE-COLLAPSE SUPERNOVAE. <i>Astrophysical Journal</i> , 2009, 707, 1173-1190.	1.6	148
51	Theory for the Secondary Eclipse Fluxes, Spectra, Atmospheres, and Light Curves of Transiting Extrasolar Giant Planets. <i>Astrophysical Journal</i> , 2006, 650, 1140-1149.	1.6	143
52	A Systematic Study of Departures from Chemical Equilibrium in the Atmospheres of Substellar Mass Objects. <i>Astrophysical Journal</i> , 2007, 669, 1248-1261.	1.6	130
53	DIRECT IMAGING CONFIRMATION AND CHARACTERIZATION OF A DUST-ENSHROUDED CANDIDATE EXOPLANET ORBITING FOMALHAUT. <i>Astrophysical Journal Letters</i> , 2012, 760, L32.	3.0	130
54	EXOPLANET TRANSIT SPECTROSCOPY USING WFC3: WASP-12 b, WASP-17 b, AND WASP-19 b. <i>Astrophysical Journal</i> , 2013, 779, 128.	1.6	130

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55	RESOLVING THE HD 100546 PROTOPLANETARY SYSTEM WITH THE GEMINI PLANET IMAGER: EVIDENCE FOR MULTIPLE FORMING, ACCRETING PLANETS. <i>Astrophysical Journal Letters</i> , 2015, 814, L27.	3.0	129
56	3.6 AND 4.5 $\hat{1}$ / ₄ m SPITZER PHASE CURVES OF THE HIGHLY IRRADIATED HOT JUPITERS WASP-19b AND HAT-P-7b. <i>Astrophysical Journal</i> , 2016, 823, 122.	1.6	129
57	HELIOS: AN OPEN-SOURCE, GPU-ACCELERATED RADIATIVE TRANSFER CODE FOR SELF-CONSISTENT EXOPLANETARY ATMOSPHERES. <i>Astronomical Journal</i> , 2017, 153, 56.	1.9	128
58	THE DEPENDENCE OF BROWN DWARF RADII ON ATMOSPHERIC METALLICITY AND CLOUDS: THEORY AND COMPARISON WITH OBSERVATIONS. <i>Astrophysical Journal</i> , 2011, 736, 47.	1.6	127
59	Characterizing the Gravitational Wave Signal from Core-collapse Supernovae. <i>Astrophysical Journal Letters</i> , 2019, 876, L9.	3.0	127
60	A successful 3D core-collapse supernova explosion model. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 351-369.	1.6	127
61	Fornax: A Flexible Code for Multiphysics Astrophysical Simulations. <i>Astrophysical Journal, Supplement Series</i> , 2019, 241, 7.	3.0	118
62	THE DOMINANCE OF NEUTRINO-DRIVEN CONVECTION IN CORE-COLLAPSE SUPERNOVAE. <i>Astrophysical Journal</i> , 2013, 771, 52.	1.6	114
63	THE GEMINI NICI PLANET-FINDING CAMPAIGN: DISCOVERY OF A CLOSE SUBSTELLAR COMPANION TO THE YOUNG DEBRIS DISK STAR PZ Tel. <i>Astrophysical Journal Letters</i> , 2010, 720, L82-L87.	3.0	112
64	DIMENSIONAL DEPENDENCE OF THE HYDRODYNAMICS OF CORE-COLLAPSE SUPERNOVAE. <i>Astrophysical Journal</i> , 2013, 765, 110.	1.6	111
65	The Gravitational Wave Signal from Core-collapse Supernovae. <i>Astrophysical Journal</i> , 2018, 861, 10.	1.6	111
66	ATMOSPHERIC CHARACTERIZATION OF THE HOT JUPITER KEPLER-13Ab. <i>Astrophysical Journal</i> , 2014, 788, 92.	1.6	110
67	Global comparison of core-collapse supernova simulations in spherical symmetry. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2018, 45, 104001.	1.4	108
68	Multidimensional Radiation/Hydrodynamic Simulations of Proto-Neutron Star Convection. <i>Astrophysical Journal</i> , 2006, 645, 534-550.	1.6	106
69	PHOTOMETRIC AND SPECTRAL SIGNATURES OF THREE-DIMENSIONAL MODELS OF TRANSITING GIANT EXOPLANETS. <i>Astrophysical Journal</i> , 2010, 719, 341-350.	1.6	105
70	Spectra and Diagnostics for the Direct Detection of Wide-Separation Extrasolar Giant Planets. <i>Astrophysical Journal</i> , 2004, 609, 407-416.	1.6	104
71	Phase Curves of WASP-33b and HD 149026b and a New Correlation between Phase Curve Offset and Irradiation Temperature. <i>Astronomical Journal</i> , 2018, 155, 83.	1.9	103
72	TWO-DIMENSIONAL CORE-COLLAPSE SUPERNOVA MODELS WITH MULTI-DIMENSIONAL TRANSPORT. <i>Astrophysical Journal</i> , 2015, 800, 10.	1.6	102

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73	Three-dimensional supernova explosion simulations of 9-, 10-, 11-, 12-, and 13-M \odot stars. Monthly Notices of the Royal Astronomical Society, 2019, 485, 3153-3168.	1.6	101
74	ANALYTIC MODELS FOR ALBEDOS, PHASE CURVES, AND POLARIZATION OF REFLECTED LIGHT FROM EXOPLANETS. Astrophysical Journal, 2012, 747, 25.	1.6	99
75	Transiting Exoplanet Studies and Community Targets for JWST's Early Release Science Program. Publications of the Astronomical Society of the Pacific, 2016, 128, 094401.	1.0	98
76	Thermal Emission of Exoplanet XO-1b. Astrophysical Journal, 2008, 684, 1427-1432.	1.6	97
77	3.6 AND 4.5 μ m PHASE CURVES OF THE HIGHLY IRRADIATED ECCENTRIC HOT JUPITER WASP-14b. Astrophysical Journal, 2015, 811, 122.	1.6	97
78	Crucial Physical Dependencies of the Core-Collapse Supernova Mechanism. Space Science Reviews, 2018, 214, 1.	3.7	97
79	DETECTION OF A TEMPERATURE INVERSION IN THE BROADBAND INFRARED EMISSION SPECTRUM OF TrES-4. Astrophysical Journal, 2009, 691, 866-874.	1.6	96
80	A COMBINED VERY LARGE TELESCOPE AND GEMINI STUDY OF THE ATMOSPHERE OF THE DIRECTLY IMAGED PLANET, ρ^2 PICTORIS b. Astrophysical Journal, 2013, 776, 15.	1.6	95
81	Two-dimensional, Time-dependent, Multigroup, Multiangle Radiation Hydrodynamics Test Simulation in the Core-Collapse Supernova Context. Astrophysical Journal, 2004, 609, 277-287.	1.6	94
82	RECOVERY OF THE CANDIDATE PROTOPLANET HD 100546 b WITH GEMINI/NICI AND DETECTION OF ADDITIONAL (PLANET-INDUCED?) DISK STRUCTURE AT SMALL SEPARATIONS. Astrophysical Journal Letters, 2014, 796, L30.	3.0	94
83	AN INVESTIGATION INTO THE CHARACTER OF PRE-EXPLOSION CORE-COLLAPSE SUPERNOVA SHOCK MOTION. Astrophysical Journal, 2012, 759, 5.	1.6	93
84	WARM SPITZER PHOTOMETRY OF THE TRANSITING EXOPLANETS CoRoT-1 AND CoRoT-2 AT SECONDARY ECLIPSE. Astrophysical Journal, 2011, 726, 95.	1.6	92
85	Convection and the mechanism of type II supernovae. Astrophysical Journal, 1987, 318, L57.	1.6	90
86	The missing link in gravitational-wave astronomy: discoveries waiting in the decihertz range. Classical and Quantum Gravity, 2020, 37, 215011.	1.5	90
87	Effects of mass loss for highly-irradiated giant planets. Icarus, 2007, 187, 358-364.	1.1	89
88	COUPLED EVOLUTION WITH TIDES OF THE RADIUS AND ORBIT OF TRANSITING GIANT PLANETS: GENERAL RESULTS. Astrophysical Journal, 2009, 700, 1921-1932.	1.6	89
89	Dynamics and Gravitational Wave Signature of Collapsar Formation. Physical Review Letters, 2011, 106, 161103.	2.9	88
90	Optical Albedo Theory of Strongly Irradiated Giant Planets: The Case of HD 209458b. Astrophysical Journal, 2008, 682, 1277-1282.	1.6	88

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91	Electron-capture and Low-mass Iron-core-collapse Supernovae: New Neutrino-radiation-hydrodynamics Simulations. <i>Astrophysical Journal</i> , 2017, 850, 43.	1.6	87
92	THERMAL PROCESSES GOVERNING HOT-JUPITER RADII. <i>Astrophysical Journal</i> , 2013, 772, 76.	1.6	86
93	MASS-RADIUS RELATIONS AND CORE-ENVELOPE DECOMPOSITIONS OF SUPER-EARTHS AND SUB-NEPTUNES. <i>Astrophysical Journal</i> , 2014, 787, 173.	1.6	85
94	THE BROADBAND INFRARED EMISSION SPECTRUM OF THE EXOPLANET TrES-3. <i>Astrophysical Journal</i> , 2010, 711, 374-379.	1.6	84
95	Many-body corrections to charged-current neutrino absorption rates in nuclear matter. <i>Physical Review C</i> , 1999, 59, 510-514.	1.1	83
96	RESULTS FROM CORE-COLLAPSE SIMULATIONS WITH MULTI-DIMENSIONAL, MULTI-ANGLE NEUTRINO TRANSPORT. <i>Astrophysical Journal</i> , 2011, 728, 8.	1.6	83
97	Phase Functions and Light Curves of Wide-Separation Extrasolar Giant Planets. <i>Astrophysical Journal</i> , 2005, 627, 520-533.	1.6	81
98	DEEP THERMAL INFRARED IMAGING OF HR 8799 bcde: NEW ATMOSPHERIC CONSTRAINTS AND LIMITS ON A FIFTH PLANET. <i>Astrophysical Journal</i> , 2014, 795, 133.	1.6	80
99	GEMINI PLANET IMAGER SPECTROSCOPY OF THE HR 8799 PLANETS c AND d. <i>Astrophysical Journal Letters</i> , 2014, 794, L15.	3.0	80
100	Neutrino oscillations in supernovae: Angular moments and fast instabilities. <i>Physical Review D</i> , 2020, 101, .	1.6	79
101	SECONDARY ECLIPSE PHOTOMETRY OF WASP-4b WITH WARM-SPITZER. <i>Astrophysical Journal</i> , 2011, 727, 23.	1.6	77
102	Correlated gravitational wave and neutrino signals from general-relativistic rapidly rotating iron core collapse. <i>Physical Review D</i> , 2012, 86, .	1.6	77
103	THE EMERGENT 1.1-1.7 μ m SPECTRUM OF THE EXOPLANET COROT-2B AS MEASURED USING THE HUBBLE SPACE TELESCOPE. <i>Astrophysical Journal</i> , 2014, 783, 113.	1.6	77
104	Temporal and angular variations of 3D core-collapse supernova emissions and their physical correlations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 2227-2246.	1.6	77
105	HAT-P-65b AND HAT-P-66b: TWO TRANSITING INFLATED HOT JUPITERS AND OBSERVATIONAL EVIDENCE FOR THE REINFLATION OF CLOSE-IN GIANT PLANETS*. <i>Astronomical Journal</i> , 2016, 152, 182.	1.9	73
106	Statistical Characterization of Hot Jupiter Atmospheres Using Spitzer's Secondary Eclipses. <i>Astronomical Journal</i> , 2020, 159, 137.	1.9	72
107	Magnetically Driven Explosions of Rapidly Rotating White Dwarfs Following Accretion-Induced Collapse. <i>Astrophysical Journal</i> , 2007, 669, 585-599.	1.6	71
108	DETECTION OF THERMAL EMISSION OF XO-2b: EVIDENCE FOR A WEAK TEMPERATURE INVERSION. <i>Astrophysical Journal</i> , 2009, 701, 514-520.	1.6	71

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109	CASTRO: A NEW COMPRESSIBLE ASTROPHYSICAL SOLVER. II. GRAY RADIATION HYDRODYNAMICS. <i>Astrophysical Journal, Supplement Series</i> , 2011, 196, 20.	3.0	71
110	WARM SPITZER PHOTOMETRY OF THREE HOT JUPITERS: HAT-P-3b, HAT-P-4b AND HAT-P-12b. <i>Astrophysical Journal</i> , 2013, 770, 102.	1.6	71
111	A 5 $\hat{1}$ /4m IMAGE OF $\hat{1}^2$ PICTORIS b AT A SUB-JUPITER PROJECTED SEPARATION: EVIDENCE FOR A MISALIGNMENT BETWEEN THE PLANET AND THE INNER, WARPED DISK. <i>Astrophysical Journal Letters</i> , 2011, 736, L33.	3.0	70
112	WARM SPITZER OBSERVATIONS OF THREE HOT EXOPLANETS: XO-4b, HAT-P-6b, AND HAT-P-8b. <i>Astrophysical Journal</i> , 2012, 746, 111.	1.6	69
113	EVOLUTIONARY MODELS OF SUPER-EARTHS AND MINI-NEPTUNES INCORPORATING COOLING AND MASS LOSS. <i>Astrophysical Journal</i> , 2015, 808, 150.	1.6	68
114	Revival of the fittest: exploding core-collapse supernovae from 12 to 25 \hat{A} m \hat{A} S \hat{M} . <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 3091-3108.	1.6	68
115	Generalized Boltzmann formalism for oscillating neutrinos. <i>Physical Review D</i> , 2005, 71, .	1.6	67
116	ATMOSPHERE AND SPECTRAL MODELS OF THE KEPLER-FIELD PLANETS HAT-P-7b AND TrES-2. <i>Astrophysical Journal</i> , 2010, 722, 871-879.	1.6	66
117	THE IMPACT OF CIRCLIMPLANTARY JETS ON TRANSIT SPECTRA AND TIMING OFFSETS FOR HOT JUPITERS. <i>Astrophysical Journal</i> , 2012, 751, 87.	1.6	66
118	Multi-dimensional explorations in supernova theory. <i>Physics Reports</i> , 2007, 442, 23-37.	10.3	63
119	$\hat{1}$ /4 and $\hat{1}$,, neutrino thermalization and production in supernovae: Processes and time scales. <i>Physical Review C</i> , 2000, 62, .	1.1	61
120	The hydrodynamic origin of neutron star kicks. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 423, 1805-1812.	1.6	61
121	UPDATED SPITZER EMISSION SPECTROSCOPY OF BRIGHT TRANSITING HOT JUPITER HD 189733b. <i>Astrophysical Journal</i> , 2014, 796, 100.	1.6	61
122	THE FIRST H -BAND SPECTRUM OF THE GIANT PLANET $\hat{1}^2$ PICTORIS b. <i>Astrophysical Journal Letters</i> , 2015, 798, L3.	3.0	61
123	CHARACTERIZATION OF THE ATMOSPHERE OF THE HOT JUPITER HAT-P-32Ab AND THE M-DWARF COMPANION HAT-P-32B. <i>Astrophysical Journal</i> , 2014, 796, 115.	1.6	59
124	DYNAMICAL CONSTRAINTS ON THE CORE MASS OF HOT JUPITER HAT-P-13B. <i>Astrophysical Journal</i> , 2016, 821, 26.	1.6	59
125	A systematic study of proto-neutron star convection in three-dimensional core-collapse supernova simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 5764-5779.	1.6	59
126	The prompt mechanism of Type II supernovae. <i>Astrophysical Journal</i> , 1985, 299, L19.	1.6	57

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127	CONSTRAINTS ON THE ATMOSPHERIC CIRCULATION AND VARIABILITY OF THE ECCENTRIC HOT JUPITER XO-3b. <i>Astrophysical Journal</i> , 2014, 794, 134.	1.6	56
128	Theoretical support for the hydrodynamic mechanism of pulsar kicks. <i>Physical Review D</i> , 2010, 82, .	1.6	55
129	WARM<i>SPITZER</i> AND PALOMAR NEAR-IR SECONDARY ECLIPSE PHOTOMETRY OF TWO HOT JUPITERS: WASP-48b AND HAT-P-23b. <i>Astrophysical Journal</i> , 2014, 781, 109.	1.6	55
130	SHOULD ONE USE THE RAY-BY-RAY APPROXIMATION IN CORE-COLLAPSE SUPERNOVA SIMULATIONS?. <i>Astrophysical Journal</i> , 2016, 831, 81.	1.6	55
131	The effect of trapped lepton number and entropy on the outcome of stellar collapse. <i>Astrophysical Journal</i> , 1983, 270, 735.	1.6	54
132	INDUCED ROTATION IN THREE-DIMENSIONAL SIMULATIONS OF CORE-COLLAPSE SUPERNOVAE: IMPLICATIONS FOR PULSAR SPINS. <i>Astrophysical Journal</i> , 2011, 732, 57.	1.6	53
133	AN INFORMATION-THEORETIC APPROACH TO OPTIMIZE JWST OBSERVATIONS AND RETRIEVALS OF TRANSITING EXOPLANET ATMOSPHERES. <i>Astrophysical Journal</i> , 2017, 835, 96.	1.6	53
134	Fast oscillations, collisionless relaxation, and spurious evolution of supernova neutrino flavor. <i>Physical Review D</i> , 2020, 102, .	1.6	53
135	Where, when, and why: Occurrence of fast-pairwise collective neutrino oscillation in three-dimensional core-collapse supernova models. <i>Physical Review D</i> , 2021, 104, .	1.6	53
136	<i>SPITZER</i> SECONDARY ECLIPSE OBSERVATIONS OF FIVE COOL GAS GIANT PLANETS AND EMPIRICAL TRENDS IN COOL PLANET EMISSION SPECTRA. <i>Astrophysical Journal</i> , 2015, 810, 118.	1.6	52
137	Core-collapse supernova neutrino emission and detection informed by state-of-the-art three-dimensional numerical models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 696-717.	1.6	50
138	Convection, type II supernovae, and the early evolution of neutron stars. <i>Physics Reports</i> , 1988, 163, 51-62.	10.3	49
139	CASTRO: A NEW COMPRESSIBLE ASTROPHYSICAL SOLVER. III. MULTIGROUP RADIATION HYDRODYNAMICS. <i>Astrophysical Journal, Supplement Series</i> , 2013, 204, 7.	3.0	48
140	Towards an understanding of the resolution dependence of Core-Collapse Supernova simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 4622-4637.	1.6	48
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