

CITATION REPORT

List of articles citing

MODULES FOR EXPERIMENTS IN STELLAR ASTROPHYSICS (MESA)

DOI: 10.1088/0067-0049/192/1/3

Astrophysical Journal, Supplement Series, 2011, 192, 3.

Source: <https://exaly.com/paper-pdf/51970971/citation-report.pdf>

Version: 2024-04-26

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
2291	Rotation and magnetic activity of the Hertzsprung-gap giant 31 Comae. 2010 , 520, A52		11
2290	Asymmetric dark matter may alter the evolution of very low-mass stars and brown dwarfs. 2011 , 84,		20
2289	LMXB AND IMXB EVOLUTION: I. THE BINARY RADIO PULSAR PSR J1614-230. 2011 , 732, 70		78
2288	HOW TO MAKE A SINGLETON sdB STAR VIA ACCELERATED STELLAR EVOLUTION. 2011 , 733, L42		29
2287	Binary-induced magnetic activity?. 2011 , 535, A98		14
2286	V2368 Ophiuchi: an eclipsing and double-lined spectroscopic binary used as a photometric comparison star for U Ophiuchi. 2011 , 531, A49		2
2285	The differential rotation of G dwarfs. 2011 , 530, A48		35
2284	Progenitors of electron-capture supernovae. 2011 , 7, 341-342		
2283	STELLAR STRUCTURE AND TESTS OF MODIFIED GRAVITY. 2011 , 732, 25		52
2282	PLANET ENGULFMENT BY $\sim 1.5-3 M_{\odot}$ RED GIANTS. 2011 , 737, 66		109
2281	STELLAR EVOLUTION CONSTRAINTS ON THE TRIPLE- α REACTION RATE. 2011 , 741, 61		18
2280	RETIRED PLANET HOSTS: NOT SO MASSIVE, MAYBE JUST PORTLY AFTER LUNCH. 2011 , 739, L49		72
2279	Differential rotation and meridional flow on the lower zero-age main sequence: Reynolds stress versus baroclinic flow. 2011 , 332, 933-938		45
2278	Fully Nonadiabatic Analysis of Vibrational Instability of Population III Stars due to the e-Mechanism. 2012 , 64, 2		8
2277	Dark matter mini-halo around the compact objects: the formation, evolution and possible contribution to the cosmic ray electrons/positrons. 2012 , 2012, 023-023		2
2276	Low-temperature triple-alpha rate in a full three-body nuclear model. 2012 , 109, 141101		28
2275	The diffusive overshooting approach to Li abundance in clusters. 2012 , 427, 1441-1448		7

2274	Modified gravity makes galaxies brighter. 2012 , 85,	75
2273	STELLAR PULSATIONS AND PERIOD CHANGES IN THE SX PHOENICIS STAR XX CYGNI. 2012 , 144, 92	9
2272	THE LONG-TERM EVOLUTION OF DOUBLE WHITE DWARF MERGERS. 2012 , 748, 35	151
2271	Conservative Initial Mapping For Multidimensional Simulations of Stellar Explosions. 2012 , 402, 012024	2
2270	New Population Synthesis Techniques in the Analysis of Interacting Binaries. 2012 , 341, 012008	3
2269	EVOLUTION OF POST-IMPACT COMPANION STARS IN SN Ia REMNANTS WITHIN THE SINGLE-DEGENERATE SCENARIO. 2012 , 760, 21	38
2268	LOOKING DEEP INTO THE CAT'S EYE: STRUCTURE AND ROTATION IN THE FAST WIND OF THE PN CENTRAL STAR OF NGC 6543. 2012 , 759, L28	12
2267	FROM THE COLOR-MAGNITUDE DIAGRAM OF ϵ CENTAURI AND (SUPER-)ASYMPTOTIC GIANT BRANCH STELLAR MODELS TO A GALACTIC PLANE PASSAGE GAS PURGING CHEMICAL EVOLUTION SCENARIO. 2012 , 757, 132	21
2266	LATERALLY PROPAGATING DETONATIONS IN THIN HELIUM LAYERS ON ACCRETING WHITE DWARFS. 2012 , 755, 4	37
2265	TESTING THE CORE OVERSHOOT MIXING DESCRIBED BY A TURBULENT CONVECTION MODEL ON THE ECLIPSING BINARY STAR HY VIR. 2012 , 761, 153	8
2264	THE RESPONSE OF GIANT STARS TO DYNAMICAL-TIMESCALE MASS LOSS. 2012 , 760, 90	26
2263	OBSERVABLE SIGNATURES OF PLANET ACCRETION IN RED GIANT STARS. I. RAPID ROTATION AND LIGHT ELEMENT REPLENISHMENT. 2012 , 757, 109	66
2262	Ultra-compact X-ray binaries with high luminosity: a key for a new scenario. 2012 , 8, 468-470	
2261	How do red giants respond to mass loss?. 2012 , 8, 293-294	
2260	ON THE ORIGIN OF THE METALLICITY DEPENDENCE IN DYNAMICALLY FORMED EXTRAGALACTIC LOW-MASS X-RAY BINARIES. 2012 , 760, L24	12
2259	ORBITAL EVOLUTION OF COMPACT WHITE DWARF BINARIES. 2012 , 758, 64	34
2258	HYDROGEN-POOR CIRCUMSTELLAR SHELLS FROM PULSATONAL PAIR-INSTABILITY SUPERNOVAE WITH RAPIDLY ROTATING PROGENITORS. 2012 , 760, 154	83
2257	A COMPACT DEGENERATE PRIMARY-STAR PROGENITOR OF SN 2011fe. 2012 , 744, L17	222

2256	X-RAY EMISSION FROM SN 2004dj: A TALE OF TWO SHOCKS. 2012 , 761, 100	12
2255	KIC 1718290: A HELIUM-RICH V1093-HER-LIKE PULSATOR ON THE BLUE HORIZONTAL BRANCH. 2012 , 753, L17	28
2254	EFFECTS OF ROTATIONALLY INDUCED MIXING IN COMPACT BINARY SYSTEMS WITH LOW-MASS SECONDARIES AND IN SINGLE SOLAR-TYPE STARS. 2012 , 755, 95	6
2253	OHMIC DISSIPATION IN THE INTERIORS OF HOT JUPITERS. 2012 , 757, 47	58
2252	ACOUSTIC SIGNATURES OF THE HELIUM CORE FLASH. 2012 , 744, L6	35
2251	Superluminous supernovae: ⁵⁶ Ni power versus magnetar radiation. 2012 , 426, L76-L80	146
2250	Can R Coronae Borealis stars form from the merger of two helium white dwarfs?. 2012 , 426, L81-L85	28
2249	Gravitational wave heating of stars and accretion discs. 2012 , 425, 2407-2412	6
2248	Differential rotation and meridional flows of K giants: Predictions from mean field theory. 2012 , 333, 1028-1031	6
2247	The internal structure of neutron stars and white dwarfs, and the Jacobi virial equation. 2012 , 543, A67	3
2246	EFFECTS OF ROTATION ON THE MINIMUM MASS OF PRIMORDIAL PROGENITORS OF PAIR-INSTABILITY SUPERNOVAE. 2012 , 748, 42	129
2245	THE TIDAL DISRUPTION OF GIANT STARS AND THEIR CONTRIBUTION TO THE FLARING SUPERMASSIVE BLACK HOLE POPULATION. 2012 , 757, 134	102
2244	THE LOW-VELOCITY, RAPIDLY FADING TYPE Ia SUPERNOVA 2002es. 2012 , 751, 142	54
2243	Three-dimensional simulations of the interaction between Type Ia supernova ejecta and their main sequence companions. 2012 , 548, A2	84
2242	KOI 1224: A FOURTH BLOATED HOT WHITE DWARF COMPANION FOUND WITHKEPLER. 2012 , 748, 115	77
2241	ON THE SURVIVAL OF BROWN DWARFS AND PLANETS ENGULFED BY THEIR GIANT HOST STAR. 2012 , 759, L30	47
2240	Emission lines from tidally disrupted white dwarfs and other evolved stars. 2012 , 39, 01005	1
2239	TURBULENT CONVECTION MODEL IN THE OVERSHOOTING REGION. I. EFFECTS OF THE CONVECTIVE MIXING IN THE SOLAR OVERSHOOTING REGION. 2012 , 746, 50	28

2238	DO R CORONAE BOREALIS STARS FORM FROM DOUBLE WHITE DWARF MERGERS?. 2012 , 757, 76	27
2237	An3He-DRIVEN INSTABILITY NEAR THE FULLY CONVECTIVE BOUNDARY. 2012 , 751, 98	13
2236	Large distance of ρ Aurigae inferred from interstellar absorption and reddening. 2012 , 546, A123	9
2235	Age and helium content of the open cluster NGC 6791 from multiple eclipsing binary members. 2012 , 543, A106	128
2234	CONVECTION AND DIFFERENTIAL ROTATION IN F-TYPE STARS. 2012 , 756, 169	49
2233	IMPACT OF TYPE Ia SUPERNOVA EJECTA ON BINARY COMPANIONS IN THE SINGLE-DEGENERATE SCENARIO. 2012 , 750, 151	102
2232	MODELS FOR METAL-POOR STARS WITH ENHANCED ABUNDANCES OF C, N, O, Ne, Na, Mg, Si, S, Ca, AND Ti, IN TURN, AT CONSTANT HELIUM AND IRON ABUNDANCES. 2012 , 755, 15	95
2231	Dynamical tides in eccentric binaries and tidally excited stellar pulsations in Kepler KOI-54. 2012 , 420, 3126-3138	87
2230	Evolutionary models for double helium white dwarf mergers and the formation of helium-rich hot subdwarfs. 2012 , 419, 452-464	83
2229	Wave-driven mass loss in the last year of stellar evolution: setting the stage for the most luminous core-collapse supernovae. 2012 , 423, L92-L96	220
2228	Tidal asteroseismology: Kepler KOI-54. 2012 , 421, 983-1006	79
2227	Dipole low-order g-mode instability of metal-poor low-mass main-sequence stars due to the mechanism. 2012 , 422, 2642-2647	5
2226	The stability of massive main-sequence stars as a function of metallicity. 2012 , 423, 3397-3404	8
2225	Luminous [O iii] and [N ii] from tidally disrupted horizontal branch stars. 2012 , 424, 1268-1274	16
2224	An age difference of two billion years between a metal-rich and a metal-poor globular cluster. 2013 , 500, 51-3	93
2223	Modeling the Panchromatic Spectral Energy Distributions of Galaxies. 2013 , 51, 393-455	447
2222	A massive pulsar in a compact relativistic binary. 2013 , 340, 448, 1233232	2192
2221	Yunnan-III models for evolutionary population synthesis. 2013 , 428, 3390-3408	6

2220	Numerical approaches for multidimensional simulations of stellar explosions. 2013 , 3-4, 70-78	12
2219	MODULES FOR EXPERIMENTS IN STELLAR ASTROPHYSICS (MESA): PLANETS, OSCILLATIONS, ROTATION, AND MASSIVE STARS. <i>Astrophysical Journal, Supplement Series</i> , 2013 , 208, 4	8 1599
2218	Equation of state for magnetized Coulomb plasmas. 2013 , 550, A43	43
2217	A GRID OF THREE-DIMENSIONAL STELLAR ATMOSPHERE MODELS OF SOLAR METALLICITY. I. GENERAL PROPERTIES, GRANULATION, AND ATMOSPHERIC EXPANSION. 2013 , 769, 18	99
2216	Type II-Plateau supernova radiation: dependences on progenitor and explosion properties. 2013 , 433, 1745-1763	124
2215	On the origin of W UMa type contact binaries [a new method for computation of initial masses. 2013 , 430, 2029-2038	60
2214	Tidal resonance locks in inspiraling white dwarf binaries. 2013 , 433, 332-352	32
2213	A new class of pulsating white dwarf of extremely low mass: the fourth and fifth members. 2013 , 436, 3573-3580	59
2212	Dynamical tides in compact white dwarf binaries: helium core white dwarfs, tidal heating and observational signatures. 2013 , 430, 274-287	32
2211	Radiative properties of pair-instability supernova explosions. 2013 , 428, 3227-3251	97
2210	Observations and three-dimensional ionization structure of the planetary nebula SuWt 2?. 2013 , 434, 1513-1530	21
2209	Is the sulphur anomaly in planetary nebulae caused by the s-process?. 2013 , 431, 2861-2871	23
2208	On the pulsation modes of OGLE small amplitude red giant variables in the LMC. 2013 , 431, 3189-3195	19
2207	Iron-group opacities in the envelopes of massive stars. 2013 , 9, 229-232	
2206	Planet-mediated precision reconstruction of the evolution of the cataclysmic variable HU Aquarii. 2013 , 429, L45-L49	51
2205	gyre: an open-source stellar oscillation code based on a new Magnus Multiple Shooting scheme. 2013 , 435, 3406-3418	216
2204	The observational signatures of convectively excited gravity modes in main-sequence stars. 2013 , 430, 1736-1745	49
2203	ASTEROSEISMIC CLASSIFICATION OF STELLAR POPULATIONS AMONG 13,000 RED GIANTS OBSERVED BY KEPLER. 2013 , 765, L41	167

2202	TESTING CONVECTIVE-CORE OVERSHOOTING USING PERIOD SPACINGS OF DIPOLE MODES IN RED GIANTS. 2013 , 766, 118	85
2201	EVOLUTION OF POST-IMPACT REMNANT HELIUM STARS IN TYPE Ia SUPERNOVA REMNANTS WITHIN THE SINGLE-DEGENERATE SCENARIO. 2013 , 773, 49	47
2200	HYDROGEN BURNING ON ACCRETING WHITE DWARFS: STABILITY, RECURRENT NOVAE, AND THE POST-NOVA SUPERSOFT PHASE. 2013 , 777, 136	128
2199	KEPLERPLANETS: A TALE OF EVAPORATION. 2013 , 775, 105	413
2198	REPRODUCING THE OBSERVED ABUNDANCES IN RCB AND HdC STARS WITH POST-DOUBLE-DEGENERATE MERGER MODELS: CONSTRAINTS ON MERGER AND POST-MERGER SIMULATIONS AND PHYSICS PROCESSES. 2013 , 772, 59	26
2197	A SUPER-EDDINGTON WIND SCENARIO FOR THE PROGENITORS OF TYPE Ia SUPERNOVAE. 2013 , 778, L32	15
2196	MULTI-DIMENSIONAL SIMULATIONS OF ROTATING PAIR-INSTABILITY SUPERNOVAE. 2013 , 776, 129	52
2195	MOST OBSERVATIONS OF η Ori E: CHALLENGING THE CENTRIFUGAL BREAKOUT NARRATIVE. 2013 , 769, 33	27
2194	THE EFFECTS OF CURVATURE AND EXPANSION ON HELIUM DETONATIONS ON WHITE DWARF SURFACES. 2013 , 776, 97	26
2193	THE AGE AND MASS OF THE HERCULIS TRIPLE-STAR SYSTEM FROM A MESA GRID OF ROTATING STARS WITH $1.3 \text{ } M/M_{\odot} \approx 8.0$. 2013 , 146, 148	192
2192	SPOON-FEEDING GIANT STARS TO SUPERMASSIVE BLACK HOLES: EPISODIC MASS TRANSFER FROM EVOLVING STARS AND THEIR CONTRIBUTION TO THE QUIESCENT ACTIVITY OF GALACTIC NUCLEI. 2013 , 777, 133	41
2191	FORMATION OF BLACK WIDOWS AND REDBACKS: TWO DISTINCT POPULATIONS OF ECLIPSING BINARY MILLISECOND PULSARS. 2013 , 775, 27	91
2190	On the orbits of low-mass companions to white dwarfs and the fates of the known exoplanets. 2013 , 432, 500-505	116
2189	MAGNETIC ACTIVITY CYCLES IN THE EXOPLANET HOST STAR τ ERIDANI. 2013 , 763, L26	79
2188	THE METALLICITY DEPENDENCE OF THE MINIMUM MASS FOR CORE-COLLAPSE SUPERNOVAE. 2013 , 765, L43	35
2187	ARE SUPERLUMINOUS SUPERNOVAE AND LONG GRBs THE PRODUCTS OF DYNAMICAL PROCESSES IN YOUNG DENSE STAR CLUSTERS?. 2013 , 779, 114	38
2186	Tidally induced oscillations and orbital decay in compact triple-star systems. 2013 , 429, 2425-2441	26
2185	White dwarfed giant mergers, early-type R stars, J stars and lithium. 2013 , 430, 2113-2120	20

2184	GALACTIC ULTRACOMPACT X-RAY BINARIES: DISK STABILITY AND EVOLUTION. 2013 , 768, 184	39
2183	ADVANCED BURNING STAGES AND FATE OF 8-10M [?] STARS. 2013 , 772, 150	132
2182	THE PROGENITOR OF SN 2011ja: CLUES FROM CIRCUMSTELLAR INTERACTION. 2013 , 774, 30	17
2181	DEVIATION OF STELLAR ORBITS FROM TEST PARTICLE TRAJECTORIES AROUND SGr A* DUE TO TIDES AND WINDS. 2013 , 777, 57	11
2180	CIRCUMSTELLAR ABSORPTION IN DOUBLE DETONATION TYPE Ia SUPERNOVAE. 2013 , 770, L35	82
2179	Spatio-kinematic modelling of Abell 65, a double-shelled planetary nebula with a binary central star?. 2013 , 434, 1505-1512	20
2178	Setting a new standard in the analysis of binary stars: progress and challenges. 2013 , 64, 3-10	1
2177	Accumulated tidal heating of stars over multiple pericentre passages near SgrA*. 2013 , 429, 3040-3046	14
2176	Modelling convection mixing length parameter from observations of FGK binary stars. 2013 , 64, 95-102	
2175	The true stellar parameters of the Kepler target list. 2013 , 433, 1133-1145	33
2174	Stellar oscillations in modified gravity. 2013 , 88,	39
2173	Resonant-plane locking and spin alignment in stellar-mass black-hole binaries: A diagnostic of compact-binary formation. 2013 , 87,	89
2172	Constraining the axion-photon coupling with massive stars. 2013 , 110, 061101	61
2171	THE C-FLAME QUENCHING BY CONVECTIVE BOUNDARY MIXING IN SUPER-AGB STARS AND THE FORMATION OF HYBRID C/O/Ne WHITE DWARFS AND SN PROGENITORS. 2013 , 772, 37	69
2170	ASTROPHYSICAL TESTS OF MODIFIED GRAVITY: CONSTRAINTS FROM DISTANCE INDICATORS IN THE NEARBY UNIVERSE. 2013 , 779, 39	138
2169	MASS-RADIUS RELATIONSHIPS FOR VERY LOW MASS GASEOUS PLANETS. 2013 , 769, L9	37
2168	DYNAMO ACTION AND MAGNETIC CYCLES IN F-TYPE STARS. 2013 , 777, 153	37
2167	INTRODUCING CAFein, A NEW COMPUTATIONAL TOOL FOR STELLAR PULSATIONS AND DYNAMIC TIDES. 2013 , 773, 39	6

2166	A PARAMETER-SPACE STUDY OF CARBON-OXYGEN WHITE DWARF MERGERS. 2013 , 767, 164	44
2165	Synthetic horizontal branch morphology for different metallicities and ages under tidally enhanced stellar wind. 2013 , 554, A130	7
2164	Tests of the asymptotic large frequency separation of acoustic oscillations in solar-type and red-giant stars. 2013 , 434, 1668-1673	24
2163	Pulsations of blue supergiants before and after helium core ignition. 2013 , 9, 321-324	
2162	KIC 6761539, a fast rotating Γ Dor Γ Sct hybrid star. 2013 , 9, 419-420	
2161	Analysis of strange-mode instability with time-dependent convection in hot massive stars. 2013 , 9, 493-494	
2160	OHMIC HEATING SUSPENDS, NOT REVERSES, THE COOLING CONTRACTION OF HOT JUPITERS. 2013 , 763, 13	65
2159	Effects of tidally enhanced stellar wind on the horizontal branch morphology of globular clusters. 2013 , 549, A145	18
2158	MESA MODELS OF CLASSICAL NOVA OUTBURSTS: THE MULTICYCLE EVOLUTION AND EFFECTS OF CONVECTIVE BOUNDARY MIXING. 2013 , 762, 8	58
2157	Pulsations driven by three-mechanism in post-merger remnants: First results. 2013 , 43, 04004	2
2156	The internal structure of neutron stars and white dwarfs, and the Jacobi virial equation. II.. 2013 , 552, A29	2
2155	The Astrophysical Multipurpose Software Environment. 2013 , 557, A84	131
2154	TYPE Ia SINGLE DEGENERATE SURVIVORS MUST BE OVERLUMINOUS. 2013 , 765, 150	64
2153	Learning physics from the stars: It's all in the coefficients. 32-59	
2152	THE NEWLY DISCOVERED PULSATING LOW-MASS WHITE DWARFS: AN EXTENSION OF THE ZZ CETI INSTABILITY STRIP. 2013 , 762, 57	48
2151	A comparison of evolutionary tracks for single Galactic massive stars. 2013 , 560, A16	81
2150	Concluding remarks. 2013 , 43, 06001	
2149	Pulsations in white dwarfs: Selected topics. 2013 , 43, 05005	8

2148	KIC 10526294: a slowly rotating B star with rotationally split, quasi-equally spaced gravity modes. 2014 , 570, A8	58
2147	The existence of the α effect in the solar convection zone as indicated by SDO/HMI data. 2014 , 572, L7	12
2146	AME α Asteroseismology Made Easy. 2014 , 566, A82	15
2145	Neutron, quark, and proto-neutron stars at the onset of formation of black-holes: the memory effect. 2014 , 562, A31	2
2144	A new correction of stellar oscillation frequencies for near-surface effects. 2014 , 568, A123	123
2143	X-ray monitoring of classical novae in the central region of M 31 III. Autumn and winter 2009/10, 2010/11, and 2011/12. 2014 , 563, A2	52
2142	Numerical tests of rotational mixing in massive stars with the new population synthesis code BONNFIREs. 2014 , 570, A125	5
2141	The rise and fall of the Type Ib supernova iPTF13bvn. 2014 , 565, A114	59
2140	Asteroseismic inference on the spin-orbit misalignment and stellar parameters of HAT-P-7. 2014 , 570, A54	49
2139	SETTING THE STAGE FOR CIRCUMSTELLAR INTERACTION IN CORE-COLLAPSE SUPERNOVAE. II. WAVE-DRIVEN MASS LOSS IN SUPERNOVA PROGENITORS. 2014 , 780, 96	133
2138	ON THE FORMATION OF ECCENTRIC MILLISECOND PULSARS WITH HELIUM WHITE-DWARF COMPANIONS. 2014 , 797, L24	35
2137	THE ROLE OF THE MAGNETOROTATIONAL INSTABILITY IN THE SUN. 2014 , 787, 21	18
2136	THE SURFACE NITROGEN ABUNDANCE OF A MASSIVE STAR IN RELATION TO ITS OSCILLATIONS, ROTATION, AND MAGNETIC FIELD. 2014 , 781, 88	45
2135	Type II Plateau supernovae as metallicity probes of the Universe. 2014 , 440, 1856-1864	36
2134	Improvements to stellar structure models, based on a grid of 3D convection simulations III. Calibrating the mixing-length formulation. 2014 , 445, 4366-4384	114
2133	Post-merger evolution of carbon-oxygen + helium white dwarf binaries and the origin of R Coronae Borealis and extreme helium stars. 2014 , 445, 660-673	40
2132	MESA and NuGrid simulations of classical novae: CO and ONe nova nucleosynthesis. 2014 , 442, 2058-2074	33
2131	The Evolution of Compact Binary Star Systems. 2014 , 17, 3	219

2130	Origin of W UMa-type contact binaries I. Age and orbital evolution. 2014 , 437, 185-194	28
2129	The eccentric massive binary V380 Cyg: revised orbital elements and interpretation of the intrinsic variability of the primary component*. 2014 , 438, 3093-3110	50
2128	A pre-explosion optical transient event from a white dwarf merger with a giant supernova progenitor. 2014 , 439, 954-967	10
2127	On the age of the β Pictoris moving group. 2014 , 445, 2169-2180	175
2126	The dependence of the evolution of Type Ia SN progenitors on the C-burning rate uncertainty and parameters of convective boundary mixing. 2014 , 440, 1274-1280	49
2125	Prospects for asteroseismic inference on the envelope helium abundance in red giant stars. 2014 , 440, 1828-1843	31
2124	The thermal stability of helium burning on accreting neutron stars. 2014 , 445, 3278-3288	9
2123	Next generation population synthesis of accreting white dwarfs II. Hybrid calculations using bse + mesa. 2014 , 445, 1912-1923	26
2122	Modelling of τ Scorpii, a high-mass binary with a δ Cep variable primary component. 2014 , 442, 616-628	12
2121	Asteroseismology of the ZZ Ceti star KUV 11370+4222. 2014 , 437, 2566-2576	15
2120	The evolution of triples with a Roche lobe filling outer star. 2014 , 438, 1909-1921	29
2119	Stability analysis of strange-modes in hot massive stars with time-dependent convection. 2014 , 66, 69	7
2118	Asteroseismology of the DAV star HS 0507+0434B, including core-composition profiles. 2014 , 437, 3183-3189	4
2117	Limits on core-driven ILOT outbursts of asymptotic giant branch stars. 2014 , 440, 582-587	9
2116	It takes a village to raise a tide: non-linear multiple-mode coupling and mode identification in KOI-54. 2014 , 440, 3036-3050	26
2115	The accretion of solar material onto white dwarfs: No mixing with core material implies that the mass of the white dwarf is increasing. 2014 , 4, 041007	8
2114	Detecting modified gravity in the stars. 2014 , 23, 1442002	20
2113	NEW ASTEROSEISMIC SCALING RELATIONS BASED ON THE HAYASHI TRACK RELATION APPLIED TO RED GIANT BRANCH STARS IN NGC 6791 AND NGC 6819. 2014 , 781, 44	18

2112	THREE ANCIENT HALO SUBGIANTS: PRECISE PARALLAXES, COMPOSITIONS, AGES, AND IMPLICATIONS FOR GLOBULAR CLUSTERS, „ 2014 , 792, 110	60
2111	THE PHYSICAL PARAMETERS OF THE RETIRED A STAR HD 185351. 2014 , 794, 15	38
2110	THE INITIATION AND PROPAGATION OF HELIUM DETONATIONS IN WHITE DWARF ENVELOPES. 2014 , 797, 46	98
2109	THE SIGNATURE OF SINGLE-DEGENERATE ACCRETION-INDUCED COLLAPSE. 2014 , 794, 28	12
2108	A THEORETICAL STUDY OF ACOUSTIC GLITCHES IN LOW-MASS MAIN-SEQUENCE STARS. 2014 , 794, 114	21
2107	KEPLER-93b: A TERRESTRIAL WORLD MEASURED TO WITHIN 120 km, AND A TEST CASE FOR A NEWSPITZER OBSERVING MODE. 2014 , 790, 12	65
2106	PROPERTIES OF AN ECLIPSING DOUBLE WHITE DWARF BINARY NLTT 11748. 2014 , 780, 167	26
2105	SEARCH FOR SURVIVING COMPANIONS IN TYPE Ia SUPERNOVA REMNANTS. 2014 , 792, 71	25
2104	POSSIBLE ORIGIN OF THE G2 CLOUD FROM THE TIDAL DISRUPTION OF A KNOWN GIANT STAR BY SGR A*. 2014 , 786, L12	38
2103	Effect of binary fraction on horizontal branch morphology under tidally enhanced stellar wind. 2014 , 66, 82	3
2102	BINARY INTERACTIONS AS A POSSIBLE SCENARIO FOR THE FORMATION OF MULTIPLE STELLAR POPULATIONS IN GLOBULAR CLUSTERS. 2014 , 789, 88	13
2101	The double-dark portal. 2014 , 2014, 1	6
2100	Analysis of 1SWASP J140747.93B94542.6 eclipse fine-structure: hints of exomoons. 2014 , 441, 2845-2854	16
2099	Wave-driven stellar expansion and binary interaction in pre-supernova outbursts. 2014 , 445, 2492-2499	39
2098	Viscoelastic tidal dissipation in giant planets and formation of hot Jupiters through high-eccentricity migration. 2014 , 438, 1526-1534	53
2097	Asteroseismology of DAV star EC140127446, mode identification and model fittings. 2014 , 443, 3477-3485	6
2096	How accurate are stellar ages based on stellar models?. 2014 , 65, 99-176	28
2095	THE METASTABLE DYNAMO MODEL OF STELLAR ROTATIONAL EVOLUTION. 2014 , 789, 101	59

2094	ISOCHRONES FOR OLD (>5 GYR) STARS AND STELLAR POPULATIONS. I. MODELS FOR $0.4 \leq [\text{Fe}/\text{H}] \leq +0.6$, $0.25 \leq Y \leq 0.33$, AND $0.4 \leq [\alpha/\text{Fe}] \leq +0.4$. 2014 , 794, 72	68
2093	THE COMPACTNESS OF PRESUPERNOVA STELLAR CORES. 2014 , 783, 10	167
2092	ASTEROSEISMIC ESTIMATE OF HELIUM ABUNDANCE OF A SOLAR ANALOG BINARY SYSTEM. 2014 , 790, 138	41
2091	AN ACCRETING WHITE DWARF NEAR THE CHANDRASEKHAR LIMIT IN THE ANDROMEDA GALAXY. 2014 , 786, 61	47
2090	Supermassive stars as a source of abundance anomalies of proton-capture elements in globular clusters. 2014 , 437, L21-L25	168
2089	CHARACTERIZING THE CONVECTIVE VELOCITY FIELDS IN MASSIVE STARS. 2014 , 795, 92	16
2088	ANGULAR MOMENTUM TRANSPORT WITHIN EVOLVED LOW-MASS STARS. 2014 , 788, 93	157
2087	NON-RADIAL OSCILLATIONS IN M-GIANT SEMI-REGULAR VARIABLES: STELLAR MODELS AND KEPLER OBSERVATIONS. 2014 , 788, L10	57
2086	LUMINOUS BLUE VARIABLES AND SUPERLUMINOUS SUPERNOVAE FROM BINARY MERGERS. 2014 , 796, 121	78
2085	Triggering jet-driven explosions of core-collapse supernovae by accretion from convective regions. 2014 , 439, 4011-4017	38
2084	INDIVIDUAL ALPHA ELEMENTS, C, N, AND Ba IN EARLY-TYPE GALAXIES. 2014 , 783, 20	28
2083	Pulsations of pre-white dwarfs with hydrogen-dominated atmospheres. 2014 , 66, 76	10
2082	KIC 7582608: a new Kepler roAp star with frequency variability. 2014 , 443, 2049-2062	23
2081	Constraining the initial entropy of directly detected exoplanets. 2014 , 437, 1378-1399	102
2080	Accreting carbon-oxygen white dwarfs at explosive C ignition. 2014 , 438, 3358-3367	14
2079	Determination of three-dimensional spin-orbit angle with joint analysis of asteroseismology, transit lightcurve, and the Rossiter-McLaughlin effect: Cases of HAT-P-7 and Kepler-25. 2014 , 66,	75
2078	THE FATE OF FALLBACK MATTER AROUND NEWLY BORN COMPACT OBJECTS. 2014 , 781, 119	64
2077	IDENTIFICATION OF THE OPTICAL COUNTERPART OF FERMI BLACK WIDOW MILLISECOND PULSAR PSR J1544+4937. 2014 , 791, L5	18

2076	ANGULAR MOMENTUM TRANSPORT VIA INTERNAL GRAVITY WAVES IN EVOLVING STARS. 2014 , 796, 17	78
2075	PLANETS ON THE EDGE. 2014 , 787, L9	38
2074	Mass Loss: Its Effect on the Evolution and Fate of High-Mass Stars. 2014 , 52, 487-528	508
2073	THE DYNAMICS OF THE MULTI-PLANET SYSTEM ORBITING KEPLER-56. 2014 , 794, 131	36
2072	FROM HOT JUPITERS TO SUPER-EARTHS VIA ROCHE LOBE OVERFLOW. 2014 , 793, L3	60
2071	TIDAL DISSIPATION AND OBLIQUITY EVOLUTION IN HOT JUPITER SYSTEMS. 2014 , 786, 102	62
2070	Supernovae at the cosmic dawn. 2014 , 23, 1430008	3
2069	Improvements to stellar structure models, based on a grid of 3D convection simulations Π . T(Π) relations. 2014 , 442, 805-820	46
2068	Mass loss of massive stars near the Eddington luminosity by core neutrino emission shortly before their explosion. 2014 , 564, A83	21
2067	Pulsating red giant stars in eccentric binary systems discovered fromKeplerspace-based photometry. 2014 , 564, A36	92
2066	Multi-scale and multi-domain computational astrophysics. 2014 , 372,	4
2065	Binary white dwarfs in the halo of the Milky Way. 2014 , 569, A42	9
2064	POET: A Model for Planetary Orbital Evolution Due to Tides on Evolving Stars. 2014 , 126, 553-564	29
2063	Asteroseismic Diagnostics for Semi-Convection in B Stars in the Era of K2. 2014 , 9, 182-187	
2062	Probing high-mass stellar evolutionary models with binary stars. 2014 , 9, 200-205	
2061	Pulsations of massive stars beyond TAMS: effects of mass loss, diffusion, overshooting. 2014 , 9, 226-227	
2060	Seismic analysis of the massive η Cephei star 15 Canis Majoris. 2014 , 9, 239-240	
2059	SPIN AND MAGNETISM OF WHITE DWARFS. 2015 , 809, 108	12

2058	Uncertainties on near-core mixing in red-clump stars: effects on the period spacing and on the luminosity of the AGB bump. 2015 , 453, 2291-2302	39
2057	SN 2009ib: a Type II-P supernova with an unusually long plateau. 2015 , 450, 3137-3154	43
2056	Mass transfer from giant donors. 2015 , 449, 4415-4427	71
2055	The first pre-supersoft X-ray binary. 2015 , 452, 1754-1763	16
2054	Indirect probes of dark matter and globular cluster properties from dark matter annihilation within the coolest white dwarfs. 2015 , 91,	13
2053	Astrophysical probes of the Vainshtein mechanism: Stars and galaxies. 2015 , 91,	93
2052	Effects of axions on nucleosynthesis in massive stars. 2015 , 92,	7
2051	BARIUM SURFACE ABUNDANCES OF BLUE STRAGGLERS IN THE OPEN CLUSTER NGC 6819. 2015 , 150, 84	9
2050	TIDALLY DRIVEN ROCHE-LOBE OVERFLOW OF HOT JUPITERS WITH MESA. 2015 , 813, 101	59
2049	FAILURE OF A NEUTRINO-DRIVEN EXPLOSION AFTER CORE-COLLAPSE MAY LEAD TO A THERMONUCLEAR SUPERNOVA. 2015 , 811, 97	24
2048	CONSTRUCTING A FLEXIBLE LIKELIHOOD FUNCTION FOR SPECTROSCOPIC INFERENCE. 2015 , 812, 128	73
2047	THE SPIN RATE OF PRE-COLLAPSE STELLAR CORES: WAVE-DRIVEN ANGULAR MOMENTUM TRANSPORT IN MASSIVE STARS. 2015 , 810, 101	54
2046	THE AGES OF A-STARS. I. INTERFEROMETRIC OBSERVATIONS AND AGE ESTIMATES FOR STARS IN THE URSA MAJOR MOVING GROUP. 2015 , 813, 58	36
2045	THE INTERNAL ROTATION PROFILE OF THE B-TYPE STAR KIC 10526294 FROM FREQUENCY INVERSION OF ITS DIPOLE GRAVITY MODES. 2015 , 810, 16	64
2044	WHEN DO STARS IN 47 TUCANAE LOSE THEIR MASS?. 2015 , 810, 127	16
2043	LIGHT CURVES OF CORE-COLLAPSE SUPERNOVAE WITH SUBSTANTIAL MASS LOSS USING THE NEW OPEN-SOURCE SUPERNOVA EXPLOSION CODE (SNEC). 2015 , 814, 63	109
2042	EVOLUTION OF TRANSIENT LOW-MASS X-RAY BINARIES TO REDBACK MILLISECOND PULSARS. 2015 , 814, 74	13
2041	Stellar wind - magnetosphere interactions in hot Jupiters. 2015 , 11, 367-369	

2040	The calculation of thermophysical properties of nickel plasma. 2015 , 22, 092703	18
2039	Super-Eddington wind scenario for the progenitors of type Ia supernovae: Accreting He-rich matter onto white dwarfs. 2015 , 584, A37	17
2038	Wider pulsation instability regions for δ Cephei and SPB stars calculated using new Los Alamos opacities. 2015 , 580, L9	24
2037	BEYOND MIXING-LENGTH THEORY: A STEP TOWARD 321D. 2015 , 809, 30	87
2036	Tight asteroseismic constraints on core overshooting and diffusive mixing in the slowly rotating pulsating B8.3V star KIC 10526294. 2015 , 580, A27	109
2035	Confronting uncertainties in stellar physics: calibrating convective overshooting with eclipsing binaries. 2015 , 575, A117	57
2034	CONSTRAINTS ON THE INITIAL-FINAL MASS RELATION FROM WIDE DOUBLE WHITE DWARFS. 2015 , 815, 63	31
2033	ASTEROSEISMIC MODELING OF 16 Cyg A & B USING THE COMPLETE KEPLER DATA SET. 2015 , 811, L37	51
2032	OSCILLATING RED GIANTS OBSERVED DURING CAMPAIGN 1 OF THE KEPLER K2 MISSION: NEW PROSPECTS FOR GALACTIC ARCHAEOLOGY. 2015 , 809, L3	78
2031	CONSTRAINING NEUTRINO COOLING USING THE HOT WHITE DWARF LUMINOSITY FUNCTION IN THE GLOBULAR CLUSTER 47 TUCANAE. 2015 , 809, 141	21
2030	Seismic evidence for a weak radial differential rotation in intermediate-mass core helium burning stars. 2015 , 580, A96	87
2029	A seismic and gravitationally bound double star observed by Kepler. 2015 , 582, A25	34
2028	A STRONG SHALLOW HEAT SOURCE IN THE ACCRETING NEUTRON STAR MAXI J0556-332. 2015 , 809, L31	51
2027	A HIGHLY ECCENTRIC 3.9 MILLISECOND BINARY PULSAR IN THE GLOBULAR CLUSTER NGC 6652. 2015 , 807, L23	14
2026	The mass spectrum of compact remnants from the parsec stellar evolution tracks. 2015 , 451, 4086-4103	198
2025	parsec evolutionary tracks of massive stars up to $350 M_{\odot}$ at metallicities $0.0001 \leq Z \leq 0.04$. 2015 , 452, 1068-1080	260
2024	Early optical follow-up of the nearby active star DG CVn during its 2014 superflare. 2015 , 452, 4195-4202	6
2023	A new hydrodynamics code for Type Ia supernovae. 2015 , 454, 1238-1259	25

2022	A possible formation channel for blue hook stars in globular clusters. 2015 , 449, 2741-2749	19
2021	The Araucaria Project: accurate stellar parameters and distance to evolved eclipsing binary ASAS J180057-2333.8 in Sagittarius Arm. 2015 , 451, 651-659	19
2020	Recombination energy in double white dwarf formation. 2015 , 450, L39-L43	65
2019	Nearly uniform internal rotation of solar-like main-sequence stars revealed by space-based asteroseismology and spectroscopic measurements. 2015 , 452, 2654-2674	61
2018	Forming equatorial rings around dying stars. 2015 , 453, 2115-2125	19
2017	The age-metallicity dependence for white dwarf stars. 2015 , 450, 3708-3723	39
2016	THE THREE-DIMENSIONAL EVOLUTION TO CORE COLLAPSE OF A MASSIVE STAR. 2015 , 808, L21	107
2015	The AGB bump: a calibrator for core mixing. 2015 , 101, 06012	
2014	Asteroseismic estimate of helium abundance of 16 Cyg A, B. 2015 , 101, 06066	
2013	Modelling the evolution of solar-mass stars with a range of metallicities using MESA. 2015 , 93, 03011	
2012	Detecting non-uniform period spacings in the Kepler photometry of <i>Doradus</i> stars: methodology and case studies. 2015 , 574, A17	52
2011	Testing eccentricity pumping mechanisms to model eccentric long-period sdB binaries with MESA. 2015 , 579, A49	32
2010	The post-common envelope central stars of the planetary nebulae Henize 2-155 and Henize 2-161. 2015 , 580, A19	45
2009	Testing the β -max scaling relation. 2015 , 101, 06017	
2008	Determining the evolutionary stage of HD163899 on the basis of its oscillation spectrum. 2015 , 11, 567-572	
2007	Physics under the bonnet of a stellar evolution code. 2015 , 11, 600-607	
2006	Main-sequence oscillators as a test of stellar opacities. 2015 , 11, 653-660	
2005	Progress in the study of pulsating subdwarf B stars. 2015 , 11, 589-595	1

2004	Constraining differential rotation of Sun-like stars from asteroseismic and starspot rotation periods. 2015 , 582, A10	24
2003	Toward a consistent use of overshooting parametrizations in 1D stellar evolution codes. 2015 , 580, A61	48
2002	Pulsations of red supergiant pair-instability supernova progenitors leading to extreme mass loss. 2015 , 573, A18	36
2001	Doppler images and the underlying dynamo. 2015 , 574, A25	6
2000	ON THE FORMATION OF ULTRALUMINOUS X-RAY SOURCES WITH NEUTRON STAR ACCRETORS: THE CASE OF M82 X-2. 2015 , 802, L5	41
1999	Tidal downsizing model II. Numerical methods: saving giant planets from tidal disruptions. 2015 , 454, 64-82	34
1998	Thermal runaway during the evolution of ONeMg cores towards accretion-induced collapse. 2015 , 453, 1910-1927	72
1997	ALMA reveals sunburn: CO dissociation around AGB stars in the globular cluster 47 Tucanae. 2015 , 453, 4325-4337	13
1996	A test of the asteroseismic Γ_{max} scaling relation for solar-like oscillations in main-sequence and subgiant stars. 2015 , 451, 3011-3020	19
1995	A formation scenario for the triple pulsar PSR J0337+1715: breaking a binary system inside a common envelope. 2015 , 450, 1716-1723	26
1994	Evolution of Angular Momentum Distribution in Exoplanet Systems. 2015 , 58, 550-566	17
1993	DARK MATTER ADMIXED TYPE Ia SUPERNOVAE. 2015 , 812, 110	14
1992	Population synthesis of accreting white dwarfs III. X-ray and UV emission. 2015 , 453, 3025-3035	22
1991	CHRONOGRAPHY OF THE MILKY WAY'S HALO SYSTEM WITH FIELD BLUE HORIZONTAL-BRANCH STARS. 2015 , 813, L16	23
1990	FIRST NEW SOLAR MODELS WITH OPAS OPACITY TABLES. 2015 , 813, L42	21
1989	GIANT IMPACT: AN EFFICIENT MECHANISM FOR THE DEVOLATILIZATION OF SUPER-EARTHS. 2015 , 812, 164	41
1988	The rise-time of Type II supernovae. 2015 , 451, 2212-2229	80
1987	MODULES FOR EXPERIMENTS IN STELLAR ASTROPHYSICS (MESA): BINARIES, PULSATIONS, AND EXPLOSIONS. <i>Astrophysical Journal, Supplement Series</i> , 2015 , 220, 15	8 1329

1986	LOCAL RADIATION HYDRODYNAMIC SIMULATIONS OF MASSIVE STAR ENVELOPES AT THE IRON OPACITY PEAK. 2015 , 813, 74	82
1985	DISCOVERY OF MULTIPLE PULSATIONS IN THE NEW SCUTI STAR HD 92277: ASTEROSEISMOLOGY FROM DOME A, ANTARCTICA. 2015 , 149, 84	32
1984	Water contents of Earth-mass planets around M dwarfs. 2015 , 8, 177-180	106
1983	DARK STARS: IMPROVED MODELS AND FIRST PULSATION RESULTS. 2015 , 799, 210	6
1982	AN ANCIENT EXTRASOLAR SYSTEM WITH FIVE SUB-EARTH-SIZE PLANETS. 2015 , 799, 170	128
1981	New opacity measurement principle for LMJ-PETAL laser facility. 2015 , 17, 162-167	4
1980	HYDRODYNAMIC SIMULATIONS OF H ENTRAINMENT AT THE TOP OF He-SHELL FLASH CONVECTION. 2015 , 798, 49	53
1979	THE ORIGIN OF BLACK HOLE SPIN IN GALACTIC LOW-MASS X-RAY BINARIES. 2015 , 800, 17	85
1978	ON THE ACCRETION-FED GROWTH OF NEUTRON STARS DURING COMMON ENVELOPE. 2015 , 798, L19	62
1977	THE ROLE OF THE MAGNETOROTATIONAL INSTABILITY IN MASSIVE STARS. 2015 , 799, 85	33
1976	MINIMUM CORE MASSES FOR GIANT PLANET FORMATION WITH REALISTIC EQUATIONS OF STATE AND OPACITIES. 2015 , 800, 82	81
1975	EMISSION FROM PAIR-INSTABILITY SUPERNOVAE WITH ROTATION. 2015 , 799, 18	31
1974	Globular cluster interstellar media: ionized and ejected by white dwarfs. 2015 , 446, 2226-2242	25
1973	Statistical methods for thermonuclear reaction rates and nucleosynthesis simulations. 2015 , 42, 034007	28
1972	Nonthermal nuclear reactions induced by fast α particles in the solar core. 2015 , 91,	4
1971	Mass-loss on the red giant branch: the value and metallicity dependence of Reimers' \dot{M} in globular clusters. 2015 , 448, 502-521	63
1970	Automated determination of g-mode period spacing of red giant stars. 2015 , 447, 1935-1950	11
1969	Formation of redbacks via accretion-induced collapse. 2015 , 446, 2540-2549	12

1968	Pulsations in B-type supergiants with masses $\geq 10 M_{\odot}$. 2015 , 447, 2378-2386	8
1967	On the numerical treatment and dependence of thermohaline mixing in red giants. 2015 , 446, 2673-2688	42
1966	On nonthermal processes in the core of the Sun. 2015 , 78, 477-481	
1965	The primordial and evolutionary abundance variations in globular-cluster stars: a problem with two unknowns. 2015 , 448, 3314-3324	44
1964	Hybrid C/O-Ne white dwarfs as progenitors of Type Ia supernovae: dependence on Urca process and mixing assumptions. 2015 , 447, 2696-2705	45
1963	The response of a helium white dwarf to an exploding Type Ia supernova. 2015 , 449, 942-954	17
1962	Gravity-darkening exponents for neutron and non-relativistic stars. 2015 , 577, A87	6
1961	EVERY INTERACTING DOUBLE WHITE DWARF BINARY MAY MERGE. 2015 , 805, L6	60
1960	Code dependencies of pre-supernova evolution and nucleosynthesis in massive stars: evolution to the end of core helium burning. 2015 , 447, 3115-3129	32
1959	DISCOVERY OF TWO NEW THERMALLY BLOATED LOW-MASS WHITE DWARFS AMONG THE KEPLER BINARIES. 2015 , 803, 82	36
1958	FINDING THE FIRST COSMIC EXPLOSIONS. IV. $10 < M_{\odot} < 40 M_{\odot}$ PAIR-INSTABILITY SUPERNOVAE. 2015 , 805, 44	19
1957	STRUCTURAL GLITCHES NEAR THE CORES OF RED GIANTS REVEALED BY OSCILLATIONS IN G-MODE PERIOD SPACINGS FROM STELLAR MODELS. 2015 , 805, 127	37
1956	POSSIBLE SIGNATURES OF EJECTA-COMPANION INTERACTION IN IPTF 13bvn. 2015 , 805, 170	14
1955	BINARY SYSTEMS OF CORE-COLLAPSE SUPERNOVAE POLLUTING A GIANT COMPANION. 2015 , 806, 73	3
1954	FROM ENGINE TO AFTERGLOW: COLLAPSARS NATURALLY PRODUCE TOP-HEAVY JETS AND EARLY-TIME PLATEAUS IN GAMMA-RAY BURST AFTERGLOWS. 2015 , 806, 205	34
1953	CONSTRAINTS ON EXPLOSIVE SILICON BURNING IN CORE-COLLAPSE SUPERNOVAE FROM MEASURED Ni/Fe RATIOS. 2015 , 807, 110	29
1952	ON CARBON BURNING IN SUPER ASYMPTOTIC GIANT BRANCH STARS. 2015 , 807, 184	45
1951	EXCITATION OF GRAVITY WAVES BY FINGERING CONVECTION, AND THE FORMATION OF COMPOSITIONAL STAIRCASES IN STELLAR INTERIORS. 2015 , 808, 89	22

1950	A MEASUREMENT OF DIFFUSION IN 47 TUCANAE. 2015 , 804, 53	19
1949	CAPELLA (AURIGAE) REVISITED: NEW BINARY ORBIT, PHYSICAL PROPERTIES, AND EVOLUTIONARY STATE. 2015 , 807, 26	208
1948	Asteroseismology can reveal strong internal magnetic fields in red giant stars. 2015 , 350, 423-6	79
1947	The YNEV stellar evolution and oscillation code. 2015 , 15, 549-568	5
1946	Insights into tidal disruption of stars from PS1-10jh. 2015 , 454, 2321-2343	30
1945	PHOTOIONIZATION HEATING OF NOVA EJECTA BY THE POST-OUTBURST SUPERSOFT SOURCE. 2015 , 803, 76	13
1944	ASYMMETRIC ACCRETION FLOWS WITHIN A COMMON ENVELOPE. 2015 , 803, 41	77
1943	AM CANUM VENATICORUM PROGENITORS WITH HELIUM STAR DONORS AND THE RESULTANT EXPLOSIONS. 2015 , 807, 74	29
1942	ROTATION OF GIANT STARS. 2015 , 808, 35	25
1941	EXPLORING STELLAR EVOLUTION MODELS OF sdB STARS USING MESA. 2015 , 806, 178	30
1940	APSIDAL MOTION AND A LIGHT CURVE SOLUTION FOR 13 LMC ECCENTRIC ECLIPSING BINARIES. 2015 , 150, 183	9
1939	Testing the Vainshtein mechanism using stars and galaxies. 2015 , 24, 1544021	9
1938	Beyond the cosmological standard model. 2015 , 568, 1-98	657
1937	NEW INSIGHTS FOR HIGH-PRECISION ASTEROSEISMOLOGY: ACOUSTIC RADIUS OF KIC 6225718. 2016 , 818, L13	10
1936	POST-MAIN SEQUENCE EVOLUTION OF ICY MINOR PLANETS: IMPLICATIONS FOR WATER RETENTION AND WHITE DWARF POLLUTION. 2016 , 832, 160	41
1935	RECOVERY FROM GIANT ERUPTIONS IN VERY MASSIVE STARS. 2016 , 817, 66	16
1934	DYNAMICAL ESTIMATE OF POST-MAIN-SEQUENCE STELLAR MASSES IN 47 TUCANAE. 2016 , 826, 88	8
1933	ON THE ROLE OF THE β LIMIT IN THE FORMATION OF POPULATION III MASSIVE STARS. 2016 , 820, 135	7

1932	KEPLERECLIPSING BINARIES WITH DELTA SCUTI/GAMMA DORADUS PULSATING COMPONENTS. I. KIC 9851944. 2016 , 826, 69	38
1931	EXPLAINING THE MOST ENERGETIC SUPERNOVAE WITH AN INEFFICIENT JET-FEEDBACK MECHANISM. 2016 , 826, 178	54
1930	IRON OPACITY BUMP CHANGES THE STABILITY AND STRUCTURE OF ACCRETION DISKS IN ACTIVE GALACTIC NUCLEI. 2016 , 827, 10	49
1929	ANGULAR MOMENTUM FLUCTUATIONS IN THE CONVECTIVE HELIUM SHELL OF MASSIVE STARS. 2016 , 827, 40	18
1928	NEUTRINO SIGNAL OF COLLAPSE-INDUCED THERMONUCLEAR SUPERNOVAE: THE CASE FOR PROMPT BLACK HOLE FORMATION IN SN 1987A. 2016 , 828, 31	30
1927	FORMATION AND EVOLUTION OF BLUE STRAGGLERS IN 47 TUCANAE. 2016 , 830, 139	14
1926	FLARES ON A-TYPE STARS: EVIDENCE FOR HEATING OF SOLAR CORONA BY NANOFLARES?. 2016 , 831, 9	8
1925	OCEANg-MODES ON TRANSIENT NEUTRON STARS. 2016 , 832, 44	3
1924	THE AGE OF THE DIRECTLY IMAGED PLANET HOST STAR κ ANDROMEDAE DETERMINED FROM INTERFEROMETRIC OBSERVATIONS. 2016 , 822, L3	33
1923	STELLAR POPULATION SYNTHESIS BASED MODELING OF THE MILKY WAY USING ASTEROSEISMOLOGY OF 13,000 KEPLER RED GIANTS. 2016 , 822, 15	128
1922	CONVECTIVE PROPERTIES OF ROTATING TWO-DIMENSIONAL CORE-COLLAPSE SUPERNOVA PROGENITORS. 2016 , 822, 61	29
1921	A NEW PRESCRIPTION FOR THE MASS-LOSS RATES OF WC AND WO STARS. 2016 , 833, 133	27
1920	PROBING FINAL STAGES OF STELLAR EVOLUTION WITH X-RAY OBSERVATIONS OF SN 2013ej. 2016 , 817, 22	26
1919	MAIN SEQUENCE EVOLUTION WITH LAYERED SEMICONVECTION. 2016 , 817, 54	18
1918	CARBON SHELL OR CORE IGNITIONS IN WHITE DWARFS ACCRETING FROM HELIUM STARS. 2016 , 821, 28	40
1917	Asteroseismology of the DBV star CBS 114. 2016 , 16, 003	1
1916	SHADOWS OF OUR FORMER COMPANIONS: HOW THE SINGLE-DEGENERATE BINARY TYPE IA SUPERNOVA SCENARIO AFFECTS REMNANTS. 2016 , 833, 62	5
1915	Asteroseismology of the δ Scuti star HD 50844. 2016 , 593, A69	11

1914	SUB-INERTIAL GRAVITY MODES IN THE B8V STAR KIC 7760680 REVEAL MODERATE CORE OVERSHOOTING AND LOW VERTICAL DIFFUSIVE MIXING. 2016 , 823, 130		101
1913	MESA meets MURaM. 2016 , 592, A159		42
1912	Radiative levitation in carbon-enhanced metal-poor stars withs-process enrichment. 2016 , 592, A29		13
1911	Analytic Models of Brown Dwarfs and the Substellar Mass Limit. 2016 , 2016, 1-15		13
1910	The Most Massive Heartbeat: Finding the Pulse of ϵ Drionis. 2016 , 12, 181-185		
1909	TODAY A DUO, BUT ONCE A TRIO? THE DOUBLE WHITE DWARF HS 2220+2146 MAY BE A POST-BLUE STRAGGLER BINARY. 2016 , 828, 38		5
1908	THE ASTEROSEISMIC POTENTIAL OFTESS: EXOPLANET-HOST STARS. 2016 , 830, 138		93
1907	Hydrogen in hot subdwarfs formed by double helium white dwarf mergers. 2016 , 463, 2756-2767		14
1906	ASTEROSEISMIC SIGNATURES OF EVOLVING INTERNAL STELLAR MAGNETIC FIELDS. 2016 , 824, 14		36
1905	Asteroseismic determination of fundamental parameters of Sun-like stars using multilayered neural networks. 2016 , 461, 4206-4214		12
1904	MESA ISOCHRONES AND STELLAR TRACKS (MIST) 0: METHODS FOR THE CONSTRUCTION OF STELLAR ISOCHRONES. <i>Astrophysical Journal, Supplement Series</i> , 2016 , 222, 8	8	673
1903	Accreting He-rich material onto carbon-oxygen white dwarfs until explosive carbon ignition. 2016 , 16, 160		11
1902	Asteroseismology of 19 low-luminosity red giant stars fromKepler. 2016 , 591, A99		21
1901	The dependence of convective core overshooting on stellar mass. 2016 , 592, A15		57
1900	MESA ISOCHRONES AND STELLAR TRACKS (MIST). I. SOLAR-SCALED MODELS. 2016 , 823, 102		1043
1899	Asteroseismic modelling of the two F-type hybrid pulsators KIC 10080943A and KIC 10080943B. 2016 , 592, A116		62
1898	BAYESIAN ESTIMATION OF THERMONUCLEAR REACTION RATES. 2016 , 831, 107		30
1897	BAYESIAN EVOLUTION MODELS FOR JUPITER WITH HELIUM RAIN AND DOUBLE-DIFFUSIVE CONVECTION. 2016 , 832, 113		21

1896	A new route towards merging massive black holes. 2016 , 588, A50		315
1895	Asteroseismology of red giants: From analysing light curves to estimating ages. 2016 , 337, 774-782		34
1894	ON VARIATIONS OF PRE-SUPERNOVA MODEL PROPERTIES. <i>Astrophysical Journal, Supplement Series</i> , 2016 , 227, 22	8	61
1893	Long-rising Type II supernovae from Palomar Transient Factory and Caltech Core-Collapse Project. 2016 , 588, A5		32
1892	The continuing story of SN IIf 2013df: new optical and IR observations and analysis. 2016 , 460, 1500-1518		17
1891	ABSOLUTE PROPERTIES OF THE PRE-MAIN-SEQUENCE ECLIPSING BINARY STAR NP PERSEI. 2016 , 152, 2		11
1890	Type II supernovae as probes of environment metallicity: observations of host H II regions. 2016 , 589, A110		39
1889	LOW MACH NUMBER MODELING OF CONVECTION IN HELIUM SHELLS ON SUB-CHANDRASEKHAR WHITE DWARFS. II. BULK PROPERTIES OF SIMPLE MODELS. 2016 , 827, 84		11
1888	DISK-FED GIANT PLANET FORMATION. 2016 , 819, L14		33
1887	Common envelope events with low-mass giants: understanding the energy budget. 2016 , 460, 3992-4002		56
1886	THE LAST MINUTES OF OXYGEN SHELL BURNING IN A MASSIVE STAR. 2016 , 833, 124		81
1885	EVOLUTION OF CATAclysmic VARIABLES AND RELATED BINARIES CONTAINING A WHITE DWARF. 2016 , 833, 83		39
1884	URCA COOLING PAIRS IN THE NEUTRON STAR OCEAN AND THEIR EFFECT ON SUPERBURSTS. 2016 , 831, 13		21
1883	Searching for Li-rich giants in a sample of 12 open clusters. 2016 , 587, A66		23
1882	The binding energy parameter for common envelope evolution. 2016 , 16, 009		4
1881	TYPE Ia SUPERNOVA EXPLOSIONS FROM HYBRID CARBON/OXYGEN/NEON WHITE DWARF PROGENITORS. 2016 , 832, 13		24
1880	Rapidly rotating neutron star progenitors. 2016 , 463, 1642-1650		10
1879	TURBULENT CHEMICAL DIFFUSION IN CONVECTIVELY BOUNDED CARBON FLAMES. 2016 , 832, 71		34

1878	A solar twin in the eclipsing binary LL Aquarii. 2016 , 594, A92	10
1877	Interior rotation of a sample of Doradus stars from ensemble modelling of their gravity-mode period spacings. 2016 , 593, A120	109
1876	THE MAGNETIC FURNACE: INTENSE CORE DYNAMOS IN B STARS. 2016 , 829, 92	44
1875	Gravito-inertial waves in a differentially rotating spherical shell. 2016 , 800, 213-247	16
1874	iPTF15dtg: a double-peaked Type Ic supernova from a massive progenitor. 2016 , 592, A89	40
1873	CONSTRAINTS ON THE DISTANCE MODULI, HELIUM AND METAL ABUNDANCES, AND AGES OF GLOBULAR CLUSTERS FROM THEIR RR LYRAE AND NON-VARIABLE HORIZONTAL-BRANCH STARS. I. M3, M15, AND M92. 2016 , 827, 2	26
1872	Modelling nova populations in galaxies. 2016 , 458, 2916-2927	16
1871	Angular momentum fluxes caused by β effect and meridional circulation structure of the Sun. 2016 , 58, 1490-1496	3
1870	Habitability of terrestrial-mass planets in the HZ of M Dwarfs II. H/He-dominated atmospheres. 2016 , 459, 4088-4108	80
1869	Suppression of Quadrupole and Octupole Modes in Red Giants Observed by Kepler *. 2016 , 33,	23
1868	PROPERTIES OF CARBON-OXYGEN WHITE DWARFS FROM MONTE CARLO STELLAR MODELS. 2016 , 823, 46	29
1867	Dark stars: a review. 2016 , 79, 066902	21
1866	Bad prospects for the detection of giant stars III. Tidal disruption: effect of the ambient medium on bound debris. 2016 , 458, 3324-3330	23
1865	EVOLUTIONARY TRACKS FOR BETELGEUSE. 2016 , 819, 7	30
1864	On the nature of rapidly fading Type II supernovae. 2016 , 455, 423-430	20
1863	The Thermonuclear Runaway and the Classical Nova Outburst. 2016 , 128, 051001	70
1862	SUPERNOVAE FROM DIRECT COLLISIONS OF WHITE DWARFS AND THE ROLE OF HELIUM SHELL IGNITION. 2016 , 822, 19	19
1861	ORBITAL EVOLUTION OF MASS-TRANSFERING ECCENTRIC BINARY SYSTEMS. I. PHASE-DEPENDENT EVOLUTION. 2016 , 825, 70	36

1860	ORBITAL EVOLUTION OF MASS-TRANSFERRING ECCENTRIC BINARY SYSTEMS. II. SECULAR EVOLUTION. 2016 , 825, 71		42
1859	Asteroseismology of the Hyades with K2: first detection of main-sequence solar-like oscillations in an open cluster. 2016 , 463, 2600-2611		15
1858	FUNDAMENTAL PARAMETERS OF MAIN-SEQUENCE STARS IN AN INSTANT WITH MACHINE LEARNING. 2016 , 830, 31		48
1857	NOMINAL VALUES FOR SELECTED SOLAR AND PLANETARY QUANTITIES: IAU 2015 RESOLUTION B3. 2016 , 152, 41		154
1856	GW150914: spin-based constraints on the merger time of the progenitor system. 2016 , 462, 844-849		75
1855	Hot Subluminous Stars. 2016 , 128, 082001		185
1854	NUGRID STELLAR DATA SET. I. STELLAR YIELDS FROM H TO BI FOR STARS WITH METALLICITIES $Z = 0.02$ and $Z = 0.01$. <i>Astrophysical Journal, Supplement Series</i> , 2016 , 225, 24	8	133
1853	Fundamental properties of Kepler and CoRoT targets III. Tuning scaling relations using the first adiabatic exponent. 2016 , 462, 1577-1590		21
1852	A numerical method for generating rapidly rotating bipolytropic structures in equilibrium. 2016 , 462, 2237-2245		9
1851	SHORT GAMMA-RAY BURSTS FROM THE MERGER OF TWO BLACK HOLES. 2016 , 821, L18		144
1850	The effect of tides on the population of PN from interacting binaries. 2016 , 463, 1040-1056		36
1849	Tidal decay and stable Roche-lobe overflow of short-period gaseous exoplanets. 2016 , 126, 227-248		44
1848	The Pulsation Induced by Mass Transfer in Critically Rotating Stars. 2016 , 33, 099702		2
1847	DYNAMICAL CONSTRAINTS ON THE CORE MASS OF HOT JUPITER HAT-P-13B. 2016 , 821, 26		47
1846	Asymptotic analysis of dipolar mixed modes of oscillations in red giant stars. 2016 , 68, 109		16
1845	TRACING THE EVOLUTION OF HIGH-REDSHIFT GALAXIES USING STELLAR ABUNDANCES. 2016 , 820, 71		5
1844	EVOLUTIONARY ANALYSIS OF GASEOUS SUB-NEPTUNE-MASS PLANETS WITH MESA. 2016 , 831, 180		97
1843	CONSTRAINING THE ANGULAR MOMENTUM EVOLUTION OF V455 ANDROMEDAE. 2016 , 821, 14		4

1842	EXPLORING THE POTENTIAL DIVERSITY OF EARLY TYPE IA SUPERNOVA LIGHT CURVES. 2016 , 826, 96	62
1841	EVOLUTION OF INTERMEDIATE-MASS X-RAY BINARIES DRIVEN BY THE MAGNETIC BRAKING OF AP/BP STARS. I. ULTRACOMPACT X-RAY BINARIES. 2016 , 830, 131	21
1840	CONSTRAINING WHITE DWARF STRUCTURE AND NEUTRINO PHYSICS IN 47 TUCANAE. 2016 , 821, 27	6
1839	NUMERICAL MODELING OF THE EARLY LIGHT CURVES OF TYPE IIP SUPERNOVAE. 2016 , 829, 109	36
1838	Post-main-sequence planetary system evolution. 2016 , 3, 150571	143
1837	The evolution of magnetic hot massive stars: Implementation of the quantitative influence of surface magnetic fields in modern models of stellar evolution. 2016 , 12, 250-254	2
1836	Asymmetric Core-collapse of a Rapidly-rotating Massive Star. 2016 , 12, 400-400	
1835	Detection of solar-like oscillations in relics of the Milky Way: asteroseismology of K giants in M4 using data from the NASA K2 mission. 2016 , 461, 760-765	42
1834	Common envelope events with low-mass giants: understanding the transition to the slow spiral-in. 2016 , 462, 362-381	48
1833	Explaining two recent intermediate-luminosity optical transients (ILOTs) by a binary interaction and jets. 2016 , 462, 217-222	19
1832	ON THE LAUNCHING AND STRUCTURE OF RADIATIVELY DRIVEN WINDS IN WOLF-BAYET STARS. 2016 , 821, 109	12
1831	A possible formation channel for blue hook stars in globular cluster Π . Effects of metallicity, mass ratio, tidal enhancement efficiency and helium abundance. 2016 , 463, 3449-3460	10
1830	SpaceInn hare-and-hounds exercise: Estimation of stellar properties using space-based asteroseismic data. 2016 , 592, A14	27
1829	EVOLUTION OF LOW-MASS X-RAY BINARIES: THE EFFECT OF DONOR EVAPORATION. 2016 , 830, 153	9
1828	Do electron-capture supernovae make neutron stars?. 2016 , 593, A72	72
1827	Nonlinear pulsations of stars with initial mass $3 \{M_{\odot}\}$ on the asymptotic giant branch. 2016 , 42, 665-673	4
1826	The evolution and fate of super-Chandrasekhar mass white dwarf merger remnants. 2016 , 463, 3461-3475	56
1825	Measuring the extent of convective cores in low-mass stars using Kepler data: toward a calibration of core overshooting. 2016 , 589, A93	68

1824	The effect of stellar evolution on migrating warm jupiters. 2016 , 455, 1538-1552	32
1823	Cool and luminous transients from mass-losing binary stars. 2016 , 455, 4351-4372	68
1822	Exact and approximate expressions of energy generation rates and their impact on the explosion properties of pair instability supernovae. 2016 , 456, 1320-1331	41
1821	Mass transfer and magnetic braking in Sco X-1. 2016 , 456, 263-269	6
1820	On the formation of galactic black hole low-mass X-ray binaries. 2016 , 457, 1015-1027	21
1819	Testing the cores of first ascent red giant stars using the period spacing of g modes. 2016 , 457, L59-L63	16
1818	How much radioactive nickel does ASASSN-15lh require?. 2016 , 459, L21-L25	14
1817	An algorithm for computing the 2D structure of fast rotating stars. 2016 , 318, 277-304	36
1816	Simulations of stripped core-collapse supernovae in close binaries. 2016 , 3,	16
1815	Population of post-nova supersoft X-ray sources. 2016 , 455, 668-679	16
1814	Star formation in the first galaxies III. Formation, evolution, and characteristics of the first metal-enriched stellar cluster. 2016 , 455, 3288-3302	19
1813	Stellar modelling of Spica, a high-mass spectroscopic binary with a Cep variable primary component. 2016 , 458, 1964-1976	14
1812	Spectroscopic survey of Doradus stars I. Comprehensive atmospheric parameters and abundance analysis of Doradus stars. 2016 , 458, 2307-2322	31
1811	The dispersion of period spacing for DAVstars. 2016 , 458, 1190-1198	2
1810	Super-Eddington stellar winds driven by near-surface energy deposition. 2016 , 458, 1214-1233	59
1809	UNCERTAINTIES IN GALACTIC CHEMICAL EVOLUTION MODELS. 2016 , 824, 82	34
1808	PROPERTIES AND EVOLUTION OF THE REDBACK MILLISECOND PULSAR BINARY PSR J2129-0429. 2016 , 816, 74	34
1807	ATMOSPHERES OF LOW-MASS PLANETS: THE BOIL-OFF 2016 , 817, 107	127

1806	A comparative analysis of the observed white dwarf cooling sequence from globular clusters. 2016 , 456, 3729-3742	18
1805	HYDRODYNAMIC MOVING-MESH SIMULATIONS OF THE COMMON ENVELOPE PHASE IN BINARY STELLAR SYSTEMS. 2016 , 816, L9	90
1804	Stellar winds near massive black holes II: the case of the S-stars. 2016 , 456, 3645-3654	6
1803	Stability of metal-rich very massive stars. 2016 , 456, 525-537	1
1802	Full-lifetime simulations of multiple unequal-mass planets across all phases of stellar evolution. 2016 , 458, 3942-3967	83
1801	Models of interacting supernovae and their spectral diversity. 2016 , 458, 2094-2121	34
1800	Hydrodynamic simulations of the interaction between an AGB star and a main-sequence companion in eccentric orbits. 2016 , 455, 3511-3525	45
1799	KIC 9246715: THE DOUBLE RED GIANT ECLIPSING BINARY WITH ODD OSCILLATIONS. 2016 , 818, 108	26
1798	Was the nineteenth century giant eruption of Eta Carinae a merger event in a triple system?. 2016 , 456, 3401-3412	42
1797	SYSTEMATIC STUDIES OF SHOCK REVIVAL AND THE SUBSEQUENT EVOLUTIONS IN CORE-COLLAPSE SUPERNOVAE WITH PARAMETRIC PROGENITOR MODELS. 2016 , 818, 165	5
1796	THE INITIAL PHYSICAL CONDITIONS OF KEPLER-36 b AND c. 2016 , 819, L10	44
1795	H ingestion into He-burning convection zones in super-AGB stellar models as a potential site for intermediate neutron-density nucleosynthesis. 2016 , 455, 3848-3863	61
1794	SPIN ORBIT ALIGNMENT OF EXOPLANET SYSTEMS: ENSEMBLE ANALYSIS USING ASTEROSEISMOLOGY. 2016 , 819, 85	62
1793	Hydrodynamic simulations of the interaction between giant stars and planets. 2016 , 458, 832-844	86
1792	Simulations of the tidal interaction and mass transfer of a star in an eccentric orbit around an intermediate-mass black hole: the case of HLX-1. 2016 , 455, 462-475	11
1791	WAIT FOR IT: POST-SUPERNOVA WINDS DRIVEN BY DELAYED RADIOACTIVE DECAYS. 2017 , 834, 180	32
1790	Stellar helium burning in other universes: A solution to the triple alpha fine-tuning problem. 2017 , 87, 40-54	7
1789	A New Model of Roche Lobe Overflow for Short-period Gaseous Planets and Binary Stars. 2017 , 835, 145	45

1788	Searching for Rapid Orbital Decay of WASP-18b. 2017 , 836, L24	47
1787	Grids of synthetic stellar spectra. 2017 , 95, 840-842	2
1786	Seismic Measurement of the Locations of the Base of Convection Zone and Helium Ionization Zone for Stars in the Kepler Seismic LEGACY Sample. 2017 , 837, 47	28
1785	Constructing stable 3D hydrodynamical models of giant stars. 2017 , 599, A5	28
1784	Analysis of suprathreshold nuclear processes in the solar core plasma. 2017 , 44, 045202	5
1783	Constraints on Bygone Nucleosynthesis of Accreting Neutron Stars. 2017 , 837, 73	16
1782	Planet-induced Stellar Pulsations in HAT-P-2's Eccentric System. 2017 , 836, L17	29
1781	Modelling nitrogen abundances in the massive binary system. 2017 , 60, 1	2
1780	Late-time Cooling of Neutron Star Transients and the Physics of the Inner Crust. 2017 , 839, 95	28
1779	On the Statistical Properties of the Lower Main Sequence. 2017 , 839, 116	23
1778	The Influence of Atomic Diffusion on Stellar Ages and Chemical Tagging. 2017 , 840, 99	105
1777	Radii and Mass-loss Rates of Type IIb Supernova Progenitors. 2017 , 840, 90	25
1776	Presupernova Neutrinos: Realistic Emissivities from Stellar Evolution. 2017 , 840, 2	22
1775	Stellar pulsations in beyond Horndeski gravity theories. 2017 , 2017, 007-007	18
1774	Kepler observations of the asteroseismic binary HD 176465. 2017 , 601, A82	24
1773	On the Origin of Sub-subgiant Stars. II. Binary Mass Transfer, Envelope Stripping, and Magnetic Activity. 2017 , 840, 67	24
1772	Nebular Continuum and Line Emission in Stellar Population Synthesis Models. 2017 , 840, 44	119
1771	KIC 8262223: A Post-mass Transfer Eclipsing Binary Consisting of a Delta Scuti Pulsator and a Helium White Dwarf Precursor. 2017 , 837, 114	27

1770	Type Ib and IIb Supernova Progenitors in Interacting Binary Systems. 2017 , 840, 10	78
1769	The asteroseismic surface effect from a grid of 3D convection simulations II. Frequency shifts from convective expansion of stellar atmospheres. 2017 , 466, L43-L47	31
1768	The effects of near-core convective shells on the gravity modes of the subdwarf B pulsator KIC 10553698A. 2017 , 465, 1518-1531	12
1767	Internal rotation of 13 low-mass low-luminosity red giants in the Kepler field. 2017 , 602, A62	18
1766	Non-linear regimes in mean-field full-sphere dynamo. 2017 , 466, 3007-3020	15
1765	Predicting the Presence of Companions for Stripped-envelope Supernovae: The Case of the Broad-lined Type Ic SN 2002ap. 2017 , 842, 125	32
1764	Delay-time distribution of core-collapse supernovae with late events resulting from binary interaction. 2017 , 601, A29	92
1763	Massive star formation by accretion. 2017 , 602, A17	13
1762	Surface-effect corrections for oscillation frequencies of evolved stars. 2017 , 600, A128	30
1761	Post-main-sequence Evolution of Icy Minor Planets. II. Water Retention and White Dwarf Pollution around Massive Progenitor Stars. 2017 , 842, 67	35
1760	Revisiting the pre-main-sequence evolution of stars. 2017 , 599, A49	27
1759	Evolution Models of Helium White Dwarf Main-sequence Star Merger Remnants. 2017 , 835, 242	20
1758	On the habitability of universes without stable deuterium. 2017 , 91, 90-104	26
1757	CHEMICAL EVOLUTION LIBRARY FOR GALAXY FORMATION SIMULATION. 2017 , 153, 85	31
1756	Common Envelope Wind Tunnel: Coefficients of Drag and Accretion in a Simplified Context for Studying Flows around Objects Embedded within Stellar Envelopes. 2017 , 838, 56	58
1755	Standing on the Shoulders of Dwarfs: the Kepler Asteroseismic LEGACY Sample. II. Radii, Masses, and Ages. 2017 , 835, 173	161
1754	Impacts of Nuclear-Physics Uncertainty in Stellar Temperatures on the s-Process Nucleosynthesis. 2017 ,	
1753	Subdwarf B stars from the common envelope ejection channel. 2017 , 599, A54	21

1752	A Possible Mechanism for Driving Oscillations in Hot Giant Planets. 2017 , 837, 148	21
1751	Rotational Splitting and Asteroseismic Modeling of the Scuti Star EE Camelopardalis. 2017 , 838, 31	5
1750	Magnetic massive stars as progenitors of Heavy-Stellar-mass black holes. 2017 , 466, 1052-1060	52
1749	The formation of diffusive staircases. 2017 , 812, 1-4	5
1748	TIDALLY INDUCED PULSATIONS IN KEPLER ECLIPSING BINARY KIC 3230227. 2017 , 834, 59	42
1747	An evolutionary channel towards the accreting millisecond pulsar SAX J1808.4B658. 2017 , 464, 4673-4679	7
1746	The Betelgeuse Project: constraints from rotation. 2017 , 465, 2654-2661	12
1745	Stability of mass transfer from massive giants: double black hole binary formation and ultraluminous X-ray sources. 2017 , 465, 2092-2100	86
1744	Tidal Dissipation in WASP-12. 2017 , 849, L11	50
1743	Formation of Black Hole X-Ray Binaries with Non-degenerate Donors in Globular Clusters. 2017 , 843, L30	9
1742	On the Chemical Mixing Induced by Internal Gravity Waves. 2017 , 848, L1	44
1741	Triple system HD 201433 with a SPB star component seen by BRITE - Constellation: Pulsation, differential rotation, and angular momentum transfer. 2017 , 603, A13	36
1740	Effects of Irradiation on the Evolution of Ultracompact X-Ray Binaries. 2017 , 847, 62	13
1739	The mechanism(s) of core-collapse supernovae. 2017 , 375,	17
1738	Exploring the Efficacy and Limitations of Shock-cooling Models: New Analysis of Type II Supernovae Observed by the Kepler Mission. 2017 , 848, 8	17
1737	The Carbon and Nitrogen Abundance Ratio in the Broad Line Region of Tidal Disruption Events. 2017 , 846, 150	19
1736	An outburst powered by the merging of two stars inside the envelope of a giant. 2017 , 471, 3456-3464	14
1735	The California-Kepler Survey. II. Precise Physical Properties of 205 Kepler Planets and Their Host Stars. 2017 , 154, 108	120

1734	He-accreting carbon-oxygen white dwarfs and Type Ia supernovae. 2017 , 472, 1593-1599	35
1733	Metal-rich SX Phe stars in the Kepler field. 2017 , 466, 1290-1329	16
1732	Ultra-luminous X-ray sources and neutron-star-black-hole mergers from very massive close binaries at low metallicity. 2017 , 604, A55	54
1731	Mass retention efficiencies of He accretion onto carbon-oxygen white dwarfs and type Ia supernovae. 2017 , 604, A31	18
1730	Torsional oscillations and observed rotational period variations in early-type stars. 2017 , 464, 933-939	9
1729	Accretion of Planetary Material onto Host Stars. 2017 , 1-18	
1728	Activity and Kinematics of White Dwarf-M Dwarf Binaries from the SUPERBLINK Proper Motion Survey. 2017 , 154, 118	13
1727	Effects of the Core-collapse Supernova Ejecta Impact on a Rapidly Rotating Massive Companion Star. 2017 , 835, 249	7
1726	The Evolution and Properties of Rotating Massive Star Populations. 2017 , 838, 159	38
1725	Explosion of red-supergiant stars: Influence of the atmospheric structure on shock breakout and early-time supernova radiation. 2017 , 605, A83	43
1724	Electron Captures on ^{14}N as a Trigger for Helium Shell Detonations. 2017 , 845, 97	12
1723	Hot-start Giant Planets Form with Radiative Interiors. 2017 , 846, L17	37
1722	HD 49798: Its History of Binary Interaction and Future Evolution. 2017 , 847, 78	9
1721	The $\text{C}^{12}(\text{p},\text{n})\text{O}^{16}$ reaction and its implications for stellar helium burning. 2017 , 89,	102
1720	Weighing in on the masses of retired A stars with asteroseismology: K2 observations of the exoplanet-host star HD 212771. 2017 , 469, 1360-1368	30
1719	Periodic Accretion-powered Flares from Colliding EMRIs as TDE Imposters. 2017 , 844, 75	21
1718	Secular dimming of KIC 8462852 following its consumption of a planet. 2017 , 468, 4399-4407	41
1717	Asteroseismology and Gaia: Testing Scaling Relations Using 2200 Kepler Stars with TGAS Parallaxes. 2017 , 844, 102	130

1716	Discovery of Extended Main-sequence Turnoffs in Four Young Massive Clusters in the Magellanic Clouds. 2017 , 844, 119	28
1715	Systematic survey of the effects of wind mass loss algorithms on the evolution of single massive stars. 2017 , 603, A118	65
1714	Dynamical tides in exoplanetary systems containing hot Jupiters: confronting theory and observations. 2017 , 470, 2054-2068	38
1713	Evolution to Catastrophe. 2017 , 135-169	
1712	Modelling of stellar convection. 2017 , 3, 1	38
1711	Hunting black holes with Gaia. 2017 , 470, 2611-2616	28
1710	Electron Capture Supernovae from Close Binary Systems. 2017 , 850, 197	28
1709	Lessons from the Onset of a Common Envelope Episode: the Remarkable M31 2015 Luminous Red Nova Outburst. 2017 , 835, 282	56
1708	Neutrinos from Beta Processes in a Presupernova: Probing the Isotopic Evolution of a Massive Star. 2017 , 851, 6	20
1707	Absolute Dimensions of the F-type Eclipsing Binary V2154 Cygni. 2017 , 850, 10	2
1706	Convection Destroys the Core/Mantle Structure in Hybrid C/O/Ne White Dwarfs. 2017 , 834, L9	25
1705	EXPLORING THE HELIUM CORE OF THE CUTI STAR COROT 102749568 WITH ASTEROSEISMOLOGY. 2017 , 834, 146	6
1704	THE EVOLUTION OF GAS GIANT ENTROPY DURING FORMATION BY RUNAWAY ACCRETION. 2017 , 834, 149	40
1703	SCEXAO AND GPIYJHBAND PHOTOMETRY AND INTEGRAL FIELD SPECTROSCOPY OF THE YOUNG BROWN DWARF COMPANION TO HD 1160. 2017 , 834, 162	14
1702	Stellar cooling bounds on new light particles: plasma mixing effects. 2017 , 2017, 1	135
1701	Comparative roles of pp chain reactions as a trigger for suprathreshold processes in the solar core. 2017 , 96,	6
1700	Erratum to: Tidal decay and stable Roche-lobe overflow of short-period gaseous exoplanets. 2017 , 129, 553-554	
1699	Evolution & Explosion of Massive Stars Leading to IIP-III SNe with MESA & SNEC. 2017 , 12, 11-16	1

1698	A comprehensive study of young B stars in NGC 2264. 2017 , 601, A101	12
1697	Novae Contribution to the Galactic Lithium Enhancement. 2017 , 129, 074201	11
1696	Giant star seismology. 2017 , 25, 1	88
1695	Accretion-induced Collapse from Helium Star + White Dwarf Binaries. 2017 , 843, 151	26
1694	The Effects of Magnetic Fields on the Dynamics of Radiation Pressure-dominated Massive Star Envelopes. 2017 , 843, 68	11
1693	Zahn's theory of dynamical tides and its application to stars. 2017 , 43, 429-437	4
1692	Change in the orbital period of a binary system due to dynamical tides for main-sequence stars. 2017 , 43, 186-201	23
1691	Observational Evidence for High Neutronization in Supernova Remnants: Implications for Type Ia Supernova Progenitors. 2017 , 843, 35	26
1690	Bow shock nebulae of hot massive stars in a magnetized medium. 2017 , 464, 3229-3248	30
1689	Strange mode instability driven finite amplitude pulsations and mass-loss in models of massive zero-age main-sequence stars. 2017 , 465, 234-241	3
1688	Tidal dissipation and evolution of white dwarfs around massive black holes: an eccentric path to tidal disruption. 2017 , 468, 2296-2310	10
1687	The statistical challenge of constraining the low-mass IMF in Local Group dwarf galaxies. 2017 , 468, 319-332	18
1686	A study of the low-luminosity Type II-Plateau supernova 2008bk. 2017 , 466, 34-48	28
1685	Dust formation and mass loss around intermediate-mass AGB stars with initial metallicity $Z_{\text{ini}} \approx 10^{-4}$ in the early Universe II. Effect of surface opacity on stellar evolution and the dust-driven wind. 2017 , 466, 1709-1732	8
1684	Light-curve and spectral properties of ultrastripped core-collapse supernovae leading to binary neutron stars. 2017 , 466, 2085-2098	48
1683	Mitigating the mass dependence in the scaling relation of red giant stars. 2017 , 470, 2069-2078	15
1682	On the nature of the candidate T-Tauri star V501 Aurigae?. 2017 , 467, 4902-4913	
1681	The contraction/expansion history of Charon with implications for its planetary-scale tectonic belt. 2017 , 468, 1056-1069	10

1680	On binary channels to anomalous Cepheids. 2017 , 468, 4419-4428		12
1679	Episodic mass ejections from common-envelope objects. 2017 , 470, 1788-1808		39
1678	Spectroscopic binaries in the Solar Twin Planet Search program: from substellar mass to M dwarf companions. 2017 , 472, 3425-3436		9
1677	Polluting white dwarfs with perturbed exo-comets. 2017 , 469, 2750-2759		23
1676	Pre-supernova outbursts via wave heating in massive stars I. Red supergiants. 2017 , 470, 1642-1656		102
1675	Evolution of Accreting White Dwarfs to the Thermonuclear Runaway. 2017 , 1211-1236		2
1674	Influence of Non-spherical Initial Stellar Structure on the Core-Collapse Supernova Mechanism. 2017 , 1791-1803		1
1673	Pre-supernova Evolution and Nucleosynthesis in Massive Stars and Their Stellar Wind Contribution. 2017 , 1879-1929		3
1672	Evolution of Post-accretion-induced Collapse Binaries: The Effect of Evaporation. 2017 , 851, 58		11
1671	SkyNet: A Modular Nuclear Reaction Network Library. <i>Astrophysical Journal, Supplement Series</i> , 2017 , 233, 18	8	48
1670	Absolute Dimensions of the Eccentric Eclipsing Binary V541 Cygni. 2017 , 836, 177		8
1669	Exploring the Carbon Simmering Phase: Reaction Rates, Mixing, and the Convective Urca Process. 2017 , 851, 105		10
1668	An Independent Asteroseismic Analysis of the Fundamental Parameters and Internal Structure of the Solar-like Oscillator KIC 6225718. 2017 , 846, 41		6
1667	Chemical element transport in stellar evolution models. 2017 , 4, 170192		44
1666	Stellar Population Synthesis-based Modeling of the Milky Way using Asteroseismology of Dwarfs and Subgiants from <i>Kepler</i> . 2017 , 835, 163		3
1665	Dynamics and collisional evolution of closely packed planetary systems. 2017 , 470, 4145-4162		24
1664	Towards a better understanding of the evolution of Wolf-Rayet stars and Type Ib/Ic supernova progenitors. 2017 , 470, 3970-3980		45
1663	Heartbeat stars, tidally excited oscillations and resonance locking. 2017 , 472, 1538-1564		53

1662	Masses of the Planetary Nebula Central Stars in the Galactic Globular Cluster System from HST Imaging and Spectroscopy. 2017 , 836, 93	11
1661	Accretion Disk Assembly During Common Envelope Evolution: Implications for Feedback and LIGO Binary Black Hole Formation. 2017 , 845, 173	34
1660	The Quadruple-lined, Doubly Eclipsing System V482 Persei. 2017 , 846, 115	6
1659	The Dependence of Convective Core Overshooting on Stellar Mass: A Semi-empirical Determination Using the Diffusive Approach with Two Different Element Mixtures. 2017 , 849, 18	56
1658	The Evaporation Valley in the Kepler Planets. 2017 , 847, 29	356
1657	Convection and Overshoot in Models of Doradus and Scuti Stars. 2017 , 849, 38	5
1656	The Impact of Progenitor Mass Loss on the Dynamical and Spectral Evolution of Supernova Remnants. 2017 , 849, 109	14
1655	Constraints on the Distance Moduli, Helium, and Metal Abundances, and Ages of Globular Clusters from Their RR Lyrae and Non-variable Horizontal Branch Stars. II. Multiple Stellar Populations in 47 Tuc, M3, and M13. 2017 , 849, 159	23
1654	Fast and Luminous Transients from the Explosions of Long-lived Massive White Dwarf Merger Remnants. 2017 , 850, 127	6
1653	Pre-explosion Spiral Mass Loss of a Binary Star Merger. 2017 , 850, 59	41
1652	The Magnitude of Viscous Dissipation in Strongly Stratified Two-dimensional Convection. 2017 , 845, L17	8
1651	A Model of the Pulsating Extremely Low-mass White Dwarf Precursor WASP 024705B. 2017 , 847, 130	11
1650	Energy transport by convection in the common envelope evolution. 2017 , 472, 4361-4367	28
1649	Modeling Type II-P/II-L Supernovae Interacting with Recent Episodic Mass Ejections from Their Presupernova Stars with MESA and SNEC. 2017 , 851, 138	11
1648	The masses of retired A stars with asteroseismology: Kepler and K2 observations of exoplanet hosts. 2017 , 472, 1866-1878	35
1647	The importance of Urca-process cooling in accreting ONe white dwarfs. 2017 , 472, 3390-3406	26
1646	The origin of the possible massive black hole in the progenitor system of iPTF13bvn. 2017 , 469, L94-L98	6
1645	Deep HST Imaging in 47 Tucanae: A Global Dynamical Model. 2017 , 850, 186	17

1644	A moving-mesh hydrodynamic solver for ChaNGa. 2017 , 471, 3577-3589	9
1643	Immediate dense circumstellar environment of supernova progenitors caused by wind acceleration: its effect on supernova light curves. 2017 , 469, L108-L112	46
1642	Model-independent Measurement of Internal Stellar Structure in 16 Cygni A and B. 2017 , 851, 80	17
1641	The nearby Type Ibn supernova 2015G: signatures of asymmetry and progenitor constraints. 2017 , 471, 4381-4397	20
1640	PTF1 J082340.04+081936.5: A Hot Subdwarf B Star with a Low-mass White Dwarf Companion in an 87-minute Orbit. 2017 , 835, 131	23
1639	Pulsations of intermediate-mass stars on the asymptotic giant branch. 2017 , 43, 602-613	3
1638	Radial Velocities of 41 Kepler Eclipsing Binaries. 2017 , 154, 216	19
1637	Gravity Modes Reveal the Internal Rotation of a Post-mass-transfer Gamma Doradus/Delta Scuti Hybrid Pulsator in Kepler Eclipsing Binary KIC 9592855. 2017 , 851, 39	25
1636	Summary of Eighth Meeting on Hot Subdwarfs and Related Objects. 2017 , 26,	
1635	The rate of period change in DAV stars. 2017 , 17, 065	2
1634	Pre-explosion dynamo in the cores of massive stars. 2017 , 464, 3249-3255	12
1633	Unraveling the formation history of the black hole X-ray binary LMC X-3 from the zero age main sequence to the present. 2017 , 597, A12	8
1632	Asteroseismic modelling of the Binary HD 176465. 2017 , 160, 05010	2
1631	Dynamical tides reexpressed. 2017 , 467, 2146-2149	18
1630	Diffusion in hot subdwarf progenitors from the common envelope channel. 2017 , 26,	
1629	Measuring and Decoding Gravitational Inertial Modes in Intermediate- and High-Mass Stars. 2017 , 14, 98-103	
1628	Modeling the early evolution of massive OB stars with an experimental wind routine. 2017 , 598, A4	21
1627	Surface effects in solar-like oscillators. 2017 , 160, 02001	2

1626	Deciphering the period spacing pattern in the oscillation spectrum of the SPB star KIC 7760680. 2017 , 160, 03012	2
1625	Asteroseismology of the ZZ Ceti and DAZ GD133. 2017 , 152, 05006	
1624	The Universality of the Rapid Neutron-capture Process Revealed by a Possible Disrupted Dwarf Galaxy Star. 2017 , 850, 179	10
1623	Revisiting nucleosynthesis in globular clusters. 2017 , 608, A28	31
1622	The OmegaWhite Survey for Short-period Variable Stars. V. Discovery of an Ultracompact Hot Subdwarf Binary with a Compact Companion in a 44-minute Orbit. 2017 , 851, 28	11
1621	Formation pathway of Population III coalescing binary black holes through stable mass transfer. 2017 , 468, 5020-5032	48
1620	Idealized hydrodynamic simulations of turbulent oxygen-burning shell convection in 4D geometry. 2017 , 465, 2991-3010	52
1619	Constraining the near-core rotation of the Doradus star 43 Cygni using BRITE-Constellation data. 2017 , 608, A103	7
1618	Characterization of exoplanets from their formation. 2017 , 608, A72	68
1617	Ionizing spectra of stars that lose their envelope through interaction with a binary companion: role of metallicity. 2017 , 608, A11	71
1616	Insights from Asteroseismology of Massive Stars: The Need for Additional Angular Momentum Transport Mechanisms. 2017 , 160, 02004	
1615	A study on missing lines in the synthetic solar spectrum near the Ca triplet. 2017 , 600, A58	1
1614	Accelerated tidal circularization via resonance locking in KIC 8164262. 2017 , 472, L25-L29	16
1613	Using low-mass stars as a tool: efforts towards precise models. 2017 , 13, 178-181	
1612	Dynamos and Differential Rotation: Advances at the Crossroads of Analytics, Numerics, and Observations. 2017 , 160, 02010	1
1611	Formation scenario of the progenitor of iPTF13bvn revisited. 2017 , 466, 3775-3783	13
1610	Revising the Evolutionary Stage of HD 163899: The Effects of Convective Overshooting and Rotation. 2017 , 835, 290	5
1609	The orbits of subdwarf-B + main-sequence binaries. 2017 , 605, A109	22

1608	Core overshoot and convection in β Scuti and β Doradus stars. 2017 , 152, 03013		
1607	Stellar Parameters in an Instant with Machine Learning. 2017 , 160, 05003		2
1606	Radiative-transfer models for explosions from rotating and non-rotating single WC stars. 2017 , 603, A51		29
1605	On the oscillation spectrum of a magnetized core in a giant star. 2017 , 160, 02011		1
1604	Asteroseismic Constraints on the Models of Hot B Subdwarfs: Convective Helium-Burning Cores. 2017 , 160, 04001		1
1603	K2 observations of 95 Vir: β Scuti pulsations in a chromospherically active star. 2017 , 468, 2017-2023		1
1602	The most massive heartbeat: an in-depth analysis of β Drionis. 2017 , 467, 2494-2503		32
1601	Modules for Experiments in Stellar Astrophysics ($\mathcal{M}\mathcal{E}\mathcal{S}\mathcal{A}$): Convective Boundaries, Element Diffusion, and Massive Star Explosions. <i>Astrophysical Journal, Supplement Series</i> , 2018 , 234, 34	8	689
1600	The very young resolved stellar populations around stripped-envelope supernovae. 2018 , 476, 2629-2663		34
1599	Explaining the luminosity spread in young clusters: proto and pre-main sequence stellar evolution in a molecular cloud environment. 2018 , 474, 1176-1193		21
1598	Habitable Evaporated Cores and the Occurrence of Panspermia Near the Galactic Center. 2018 , 855, L1		18
1597	Direct measurement of astrophysically important resonances in K38(p), β Ca39. 2018 , 97,		6
1596	Precision Orbit of β Delphini and Prospects for Astrometric Detection of Exoplanets. 2018 , 855, 1		9
1595	The positive binding energy envelopes of low-mass helium stars. 2018 , 475, 3889-3895		1
1594	Chemical Abundances of Main-sequence, Turnoff, Subgiant, and Red Giant Stars from APOGEE Spectra. I. Signatures of Diffusion in the Open Cluster M67. 2018 , 857, 14		40
1593	Constraints on the Progenitor System of SN 2016gkg from a Comprehensive Statistical Analysis. 2018 , 852, L17		9
1592	The effects of diffusion in hot subdwarf progenitors from the common envelope channel. 2018 , 475, 4728-4738		11
1591	Effects of Planetesimal Accretion on the Thermal and Structural Evolution of Sub-Neptunes. 2018 , 852, 58		7

1590	Gravitational Waves from Accreting Neutron Stars Undergoing Common-envelope Inspiral. 2018 , 857, 38		10
1589	An Ultra-short Period Rocky Super-Earth with a Secondary Eclipse and a Neptune-like Companion around K2-141. 2018 , 155, 107		66
1588	Asteroseismic analysis of the pulsating subdwarf B star KIC 11558725: an sdB+WD system with divergent frequency multiplets and mode trapping observed by Kepler. 2018 , 474, 4709-4716		7
1587	Role of Core-collapse Supernovae in Explaining Solar System Abundances of pNuclides. 2018 , 854, 18		29
1586	On the Origin of the Double-cell Meridional Circulation in the Solar Convection Zone. 2018 , 854, 67		10
1585	The Impact of Nuclear Reaction Rate Uncertainties on the Evolution of Core-collapse Supernova Progenitors. <i>Astrophysical Journal, Supplement Series</i> , 2018 , 234, 19	8	25
1584	Pulsations of the High-Amplitude δ Scuti star YZ Bootis. 2018 , 18, 002		7
1583	Planetary Engulfment in the Hertzsprung-Russell Diagram. 2018 , 853, L1		31
1582	Universes without the weak force: Astrophysical processes with stable neutrons. 2018 , 97,		4
1581	Equally spaced periods in the δ Scuti star KIC 5123889. 2018 , 475, 359-367		3
1580	Extreme isolation of WN3/O3 stars and implications for their evolutionary origin as the elusive stripped binaries. 2018 , 475, 772-782		12
1579	Modelling Kepler red giants in eclipsing binaries: calibrating the mixing-length parameter with asteroseismology. 2018 , 475, 981-998		33
1578	Accounting for planet-shaped planetary nebulae. 2018 , 473, 286-294		29
1577	Asymmetric core collapse of rapidly rotating massive star. 2018 , 474, 2419-2429		11
1576	Characterizing the observational properties of δ Scuti stars in the era of space photometry from the Kepler mission. 2018 , 476, 3169-3184		54
1575	The effect of binding energy and resolution in simulations of the common envelope binary interaction. 2018 , 477, 2349-2365		28
1574	Water Loss from Young Planets. 2018 , 214, 1		11
1573	On the Observability of Individual Population III Stars and Their Stellar-mass Black Hole Accretion Disks through Cluster Caustic Transits. <i>Astrophysical Journal, Supplement Series</i> , 2018 , 234, 41	8	38

1572	Pulsations and period variations of the δ Scuti star AN Lyncis in a possible three-body system. 2018 , 473, 398-411	1
1571	Mass ejection in failed supernovae: variation with stellar progenitor. 2018 , 476, 2366-2383	56
1570	Asteroseismology of KIC 7107778: a binary comprising almost identical subgiants. 2018 , 476, 470-481	9
1569	HE 0430-457: a post-merger extremely low-mass pre-white dwarf in a wide binary posing as an extreme horizontal branch star. 2018 , 477, L40-L44	14
1568	Planet Candidates from K2 Campaigns 5B and Follow-up Optical Spectroscopy. 2018 , 155, 21	52
1567	EMPIRICAL TIDAL DISSIPATION IN EXOPLANET HOSTS FROM TIDAL SPIN-UP. 2018 , 155,	35
1566	Outcomes of Grazing Impacts between Sub-Neptunes in Kepler Multis. 2018 , 852, 41	27
1565	Application of screened Coulomb potential in fitting DBV star PG 0112+104. 2018 , 475, 20-26	3
1564	Stellar Multiplicity Meets Stellar Evolution and Metallicity: The APOGEE View. 2018 , 854, 147	64
1563	Sub-Chandrasekhar-mass White Dwarf Detonations Revisited. 2018 , 854, 52	120
1562	Frequency Identification and Asteroseismic Analysis of the Red Giant KIC 9145955: Fundamental Parameters and Helium Core Size. 2018 , 855, 16	3
1561	Fundamental Properties of Co-moving Stars Observed by Gaia. 2018 , 155, 149	10
1560	Occultations from an Active Accretion Disk in a 72-day Detached Post-Algol System Detected by K2. 2018 , 854, 109	5
1559	Asteroseismology of Red Giants and Galactic Archaeology. 2018 , 95-117	
1558	WDEC: A Code for Modeling White Dwarf Structure and Pulsations. 2018 , 155, 187	16
1557	Nonradial Pulsations in Post-outburst Novae. 2018 , 855, 127	7
1556	The Red-giant Branch Bump Revisited: Constraints on Envelope Overshooting in a Wide Range of Masses and Metallicities. 2018 , 859, 156	17
1555	Asteroseismology of KIC 8263801: Is It a Member of NGC 6866 and a Red Clump Star?. 2018 , 866, 59	3

1554	A Model for Clumpy Self-enrichment in Globular Clusters. 2018 , 863, 99		13
1553	Stellar and Nebular Diagnostics in the Ultraviolet for Star-forming Galaxies. 2018 , 863, 14		37
1552	Increases to Inferred Rates of Planetesimal Accretion due to Thermohaline Mixing in Metal-accreting White Dwarfs. 2018 , 859, L19		23
1551	Tidal Dissipation in the System WASP-46. 2018 , 127, 73-78		2
1550	A Dense Companion to the Short-period Millisecond Pulsar Binary PSR J0636+5128. 2018 , 864, 15		16
1549	On the Use of Hydrogen Recombination Energy during Common Envelope Events. 2018 , 858, L24		32
1548	The limited role of recombination energy in common envelope removal. 2018 , 478, 1818-1824		28
1547	Average Opacity Calculation for Core-collapse Supernovae. 2018 , 862, 143		8
1546	A Synthetic Sample of Short-cadence Solar-like Oscillators for TESS. <i>Astrophysical Journal, Supplement Series</i> , 2018 , 239, 34	8	10
1545	The 2D dynamics of radiative zones of low-mass stars. 2018 , 610, A35		2
1544	Sensitivity of gravito-inertial modes to differential rotation in intermediate-mass main-sequence stars. 2018 , 618, A24		53
1543	A High-resolution Study of Presupernova Core Structure. 2018 , 860, 93		97
1542	Physical Properties of II Zw 40's Super Star Cluster and Nebula: New Insights and Puzzles from UV Spectroscopy. 2018 , 865, 55		10
1541	A New CD-like Diagram for SPB Stars: The Variations of Period Spacing as a Signature of Evolutionary Status. 2018 , 867, 47		3
1540	The Influence of the Metal Mass Fraction Z, Age, and Mixing-length Parameter on the RGB Bump Magnitude for the M4 Cluster. 2018 , 869, 109		1
1539	A nearby super-luminous supernova with a long pre-maximum & plateau and strong C II features. 2018 , 620, A67		18
1538	Astrophysical tests of screened modified gravity. 2018 , 27, 1848008		27
1537	Forward seismic modeling of the pulsating magnetic B-type star HD 43317. 2018 , 616, A148		43

1536	The spin of the second-born black hole in coalescing binary black holes. 2018 , 616, A28	87
1535	DAVs: Red Edge and Outbursts. 2018 , 863, 82	7
1534	A Model of the Mira-Type Star T UMi. 2018 , 44, 546-553	2
1533	Orbital properties of binary post-AGB stars. 2018 , 620, A85	37
1532	Wolf-Rayet stars in the Small Magellanic Cloud as testbed for massive star evolution. 2018 , 611, A75	24
1531	What Young Massive Clusters in the Magellanic Clouds teach us about Old Galactic Globular Clusters?. 2018 , 14, 314-317	
1530	Simulations and Modeling of Intermediate Luminosity Optical Transients and Supernova Impostors. 2018 , 6, 82	5
1529	Observational Properties of Miras in the KELT Survey. 2018 , 14, 349-350	
1528	Isolated Stars of Low Metallicity. 2018 , 6, 89	
1527	A physical model of mass ejection in failed supernovae. 2018 , 477, 1225-1238	22
1526	Determining the Evolutionary Stage of the δ Scuti Star HIP 80088 with Asteroseismology. 2018 , 866, 147	4
1525	The class of isolated stars and luminous planetary nebulae in old stellar populations. 2018 , 479, 2249-2255	7
1524	On the parallelization of stellar evolution codes. 2018 , 5,	1
1523	X-ray limits on the progenitor system of the Type Ia supernova 2017ejb. 2018 , 481, 4123-4132	4
1522	Low-mass X-ray binaries from black hole retaining globular clusters. 2018 , 477, 1853-1879	18
1521	The Betelgeuse Project II: asteroseismology. 2018 , 479, 251-261	6
1520	Quantification of Incertitude in Black Box Simulation Codes. 2018 , 1031, 012016	4
1519	Gravity mode offset and properties of the evanescent zone in red-giant stars. 2018 , 610, A80	10

1518	High mass X-ray binaries as progenitors of gravitational wave sources. 2018 , 14, 417-425	3
1517	The Impact of White Dwarf Luminosity Profiles on Oscillation Frequencies. 2018 , 867, L30	12
1516	A potential progenitor for the Type Ic supernova 2017ein. 2018 , 480, 2072-2084	25
1515	Orbital decay in binaries containing post-main-sequence stars. 2018 , 481, 4077-4092	21
1514	Rotation and Magnetism of Massive Stellar Cores. 2018 , 862, 111	8
1513	Mechanical Feedback from Black Hole Accretion as an Energy Source of Core-collapse Supernova Explosions. 2018 , 867, 130	10
1512	Subphotospheric fluctuations in magnetized radiative envelopes: contribution from unstable magnetosonic waves. 2018 , 477, 2286-2297	0
1511	An Ultra Metal-poor Star Near the Hydrogen-burning Limit. 2018 , 867, 98	20
1510	Accretion of Planetary Material onto Host Stars. 2018 , 1895-1912	
1509	Minimum Orbital Period of Precataclysmic Variables. 2018 , 866, 88	8
1508	Binary Companions of Evolved Stars in APOGEE DR14: Orbital Circularization. 2018 , 867, 5	19
1507	Local disc model in view of Gaia DR1 and RAVE data. 2018 , 620, A71	3
1506	ASASSN-14dq: a fast-declining Type II-P supernova in a low-luminosity host galaxy. 2018 , 480, 2475-2500	12
1505	zfourge: Extreme 5007 Å Emission May Be a Common Early-lifetime Phase for Star-forming Galaxies at $z > 2.5$. 2018 , 869, 141	6
1504	Forward Asteroseismic Modeling of Stars with a Convective Core from Gravity-mode Oscillations: Parameter Estimation and Stellar Model Selection. <i>Astrophysical Journal, Supplement Series</i> , 2018 , 237, 15	8 49
1503	Monte-Carlo methods for NLTE spectral synthesis of supernovae. 2018 , 620, A156	11
1502	Systematic study of magnetar-powered hydrogen-rich supernovae. 2018 , 619, A145	6
1501	A Search For Pulsations in the Optical Light Curve of the Nova ASASSN-17hx. 2018 , 869, 7	1

1500	The Revolution Revolution: Magnetic Morphology Driven Spin-down. 2018 , 862, 90	51
1499	Super-Eddington Winds from Type I X-Ray Bursts. 2018 , 863, 53	7
1498	Turbulence in core-collapse supernovae. 2018 , 45, 053003	33
1497	Evolution and Period Change in RR Lyr Variables of the Globular Cluster M 3. 2018 , 44, 616-620	3
1496	PTF11mnb: First analog of supernova 2005bf. 2018 , 609, A106	15
1495	The shape of convective core overshooting from gravity-mode period spacings. 2018 , 614, A128	52
1494	Radio transients from newborn black holes. 2018 , 478, 2281-2290	7
1493	Off the Beaten Path: Gaia Reveals GD-1 Stars outside of the Main Stream. 2018 , 863, L20	61
1492	Discovery of a planetary-mass companion within the gap of the transition disk around PDS 70. 2018 , 617, A44	266
1491	Abundance uncertainties obtained with the PIZBUIN framework for Monte Carlo reaction rate variations. 2018 ,	1
1490	The Pristine survey IV: approaching the Galactic metallicity floor with the discovery of an ultra-metal-poor star. 2018 , 481, 3838-3852	33
1489	Pre-supernova outbursts via wave heating in massive stars III. Hydrogen-poor stars. 2018 , 476, 1853-1868	55
1488	Long-term variations in the X-ray activity of HR 1099. 2018 , 616, A161	3
1487	Metallicity-dependent signatures in the Kepler planets. 2018 , 480, 2206-2216	36
1486	Post-common envelope binary stars, radiative levitation, and blue large-amplitude pulsators. 2018 , 481, 3810-3820	11
1485	Improved Main-sequence Turnoff Ages of Young Open Clusters: Multicolor UBV Techniques and the Challenges of Rotation. 2018 , 156, 165	18
1484	Optically thin core accretion: how planets get their gas in nearly gas-free discs. 2018 , 476, 2199-2208	19
1483	Relativistic Tidal Disruption and Nuclear Ignition of White Dwarf Stars by Intermediate-mass Black Holes. 2018 , 865, 3	19

1482	A new stellar spectrum interpolation algorithm and its application to Yunnan-III evolutionary population synthesis models. 2018 , 476, 4071-4084	2
1481	Aldebaran b's Temperate Past Uncovered in Planet Search Data. 2018 , 865, L20	14
1480	Clues about the scarcity of stripped-envelope stars from the evolutionary state of the sdO+Be binary system ϵ Persei. 2018 , 615, A30	24
1479	Exploring Fundamentally Three-dimensional Phenomena in High-fidelity Simulations of Core-collapse Supernovae. 2018 , 865, 81	112
1478	The IACOB project. 2018 , 613, A65	33
1477	Formation of hot subdwarf B stars with neutron star components. 2018 , 618, A14	12
1476	Orbital and atmospheric characterization of the planet within the gap of the PDS 70 transition disk. 2018 , 617, L2	118
1475	Enhanced rotational mixing in the radiative zones of massive stars. 2018 , 480, 5427-5446	12
1474	An astrophysical interpretation of the remarkable g-mode frequency groups of the rapidly rotating ϵ Dor star, KIC 5608334. 2018 , 477, 2183-2195	23
1473	Nuclear processes in other universes: Varying the strength of the weak force. 2018 , 98,	4
1472	Phantom: A Smoothed Particle Hydrodynamics and Magnetohydrodynamics Code for Astrophysics. 2018 , 35,	169
1471	Spectral models for binary products: Unifying subdwarfs and Wolf-Rayet stars as a sequence of stripped-envelope stars. 2018 , 615, A78	81
1470	Outbursts of luminous blue variable stars from variations in the helium opacity. 2018 , 561, 498-501	40
1469	The blue straggler V106 in NGC 6791: a prototype progenitor of old single giants masquerading as young. 2018 , 481, 5062-5072	14
1468	A Catalog of 10,000 Very Metal-poor Stars from LAMOST DR3. <i>Astrophysical Journal, Supplement Series</i> , 2018 , 238, 16	8 28
1467	Distinguishing Core and Shell Helium-burning Subdwarf B Stars by Asteroseismology. 2018 , 866, 58	0
1466	Frequency dependence of p-mode frequency shifts induced by magnetic activity in Kepler solar-like stars. 2018 , 611, A84	17
1465	A Compact Multi-planet System with a Significantly Misaligned Ultra Short Period Planet. 2018 , 156, 245	26

1464	Stellar models with calibrated convection and temperature stratification from 3D hydrodynamics simulations. 2018 , 478, 5650-5659	29
1463	The White Dwarf Initial/Final Mass Relation for Progenitor Stars from 0.85 to 7.5 M \odot . 2018 , 866, 21	124
1462	Three Hypervelocity White Dwarfs in Gaia DR2: Evidence for Dynamically Driven Double-degenerate Double-detonation Type Ia Supernovae. 2018 , 865, 15	101
1461	Comprehensive Study of Ejecta-companion Interaction for Core-collapse Supernovae in Massive Binaries. 2018 , 864, 119	22
1460	Eclipsing Binaries in the Open Cluster Ruprecht 147. I. EPIC 219394517. 2018 , 866, 67	19
1459	Surface correction of main-sequence solar-like oscillators with the Kepler LEGACY sample. 2018 , 479, 4416-4431	9
1458	Kepler Object of Interest Network. 2018 , 618, A41	20
1457	Massive Stars and Their Supernovae. 2018 , 173-286	3
1456	Supernovae from massive stars with extended tenuous envelopes. 2018 , 612, A61	15
1455	Core rotation braking on the red giant branch for various mass ranges. 2018 , 616, A24	63
1454	Pulsations and eclipse-time analysis of HW Vir. 2018 , 481, 2721-2735	12
1453	KIC 3240411 – the hottest known SPB star with the asymptotic g-mode period spacing. 2018 , 478, 2243-2256	34
1452	Revisiting the pre-main-sequence evolution of stars. 2018 , 618, A132	18
1451	New Neutron-capture Site in Massive Pop III and Pop II Stars as a Source for Heavy Elements in the Early Galaxy. 2018 , 865, 120	26
1450	Signatures of Magnetic Activity in the Seismic Data of Solar-type Stars Observed by Kepler. <i>Astrophysical Journal, Supplement Series</i> , 2018 , 237, 17	8 20
1449	The Young Massive Star Cluster Westerlund 2 Observed with MUSE. I. First Results on the Cluster Internal Motion from Stellar Radial Velocities. 2018 , 156, 211	11
1448	Pre-supernova models for massive stars produced with large nuclear reaction network by MESA. 2018 ,	
1447	The delay of shock breakout due to circumstellar material evident in most type II supernovae. 2018 , 2, 808-818	53

1446	The dusty progenitor star of the Type II supernova 2017eaw. 2018 , 481, 2536-2547	25
1445	On the Red Giant Branch: Ambiguity in the Surface Boundary Condition Leads to ~ 100 K Uncertainty in Model Effective Temperatures. 2018 , 860, 131	18
1444	HD 89345: a bright oscillating star hosting a transiting warm Saturn-sized planet observed by K2. 2018 , 478, 4866-4880	19
1443	Tidal Disruptions of Main-sequence Stars of Varying Mass and Age: Inferences from the Composition of the Fallback Material. 2018 , 857, 109	16
1442	Formation of Extremely Low-mass White Dwarf Binaries. 2018 , 858, 14	21
1441	Convective Overshooting in sdB Stars Using the k -Model. 2018 , 863, 12	5
1440	Radiating the Hydrogen Recombination Energy during Common Envelope Evolution. 2018 , 863, L14	17
1439	A window into δ ct stellar interiors: understanding the eclipsing binary system TT Hor. 2018 , 480, 1372-1383	9
1438	Are there pre-main-sequence/black hole X-ray binaries?. 2018 , 480, 3856-3863	
1437	Hot subdwarfs formed from the merger of two He white dwarfs. 2018 , 476, 5303-5311	16
1436	The Late-type Eclipsing Binaries in the Large Magellanic Cloud: Catalog of Fundamental Physical Parameters. 2018 , 860, 1	19
1435	Age Determinations of the Hyades, Praesepe, and Pleiades via MESA Models with Rotation. 2018 , 863, 67	66
1434	Surface effects on the red giant branch. 2018 , 478, 4697-4709	17
1433	No cataclysmic variables missing: higher merger rate brings into agreement observed and predicted space densities. 2018 , 478, 5626-5637	22
1432	NuGrid stellar data set III. Stellar yields from H to Bi for stellar models with MZAMS = $1\text{--}5 M_{\odot}$ and $Z = 0.0001\text{--}0.02$. 2018 , 480, 538-571	66
1431	Populations of accreting white dwarfs. 2018 , 14, 371-372	
1430	Common envelope evolution of massive stars. 2018 , 14, 449-454	4
1429	Massive star evolution revealed in the Mass-Luminosity plane. 2018 , 14, 480-485	

- 1428 The black hole spin in coalescing binary black holes and high-mass X-ray binaries. **2018**, 14, 426-432
- 1427 Formation of the SMC WO+O binary AB8. **2018**, 14, 78-82
- 1426 KIC 8164262: a heartbeat star showing tidally induced pulsations with resonant locking. **2018**, 473, 5165-5176 28
- 1425 Asteroseismic modelling of solar-type stars: internal systematics from input physics and surface correction methods. **2018**, 477, 5052-5063 22
- 1424 Ultra-long Gamma-Ray Bursts from the Collapse of Blue Supergiant Stars: An End-to-end Simulation. **2018**, 859, 48 15
- 1423 Progenitors of low-luminosity Type II-Plateau supernovae. **2018**, 473, 3863-3881 24
- 1422 Evolutionary constraints on the long-period subdwarf B binary PG 1018047. **2018**, 474, 433-442 4
- 1421 The onset of convective coupling and freezing in the white dwarfs of 47 Tucanae. **2018**, 474, 677-682 1
- 1420 The rotational shear in pre-collapse cores of massive stars. **2018**, 474, 1194-1205 2
- 1419 A spectroscopic and photometric investigation of the mercury-manganese star KIC 6128830. **2018**, 474, 2467-2478 12
- 1418 Orbital Motion of Young Binaries in Ophiuchus and Upper Centaurus-Lupus. **2018**, 155, 109 12
- 1417 Evolution models of helium white dwarf-chain-sequence star merger remnants: the mass distribution of single low-mass white dwarfs. **2018**, 474, 427-432 4
- 1416 Cyberhubs: Virtual Research Environments for Astronomy. *Astrophysical Journal, Supplement Series*, **2018**, 236, 2 8 9
- 1415 Type IIP supernova light curves affected by the acceleration of red supergiant winds. **2018**, 476, 2840-2851 36
- 1414 Explaining iPTF14hls as a common-envelope jets supernova. **2018**, 475, 1198-1202 41
- 1413 Mass-accreting white dwarfs and type Ia supernovae. **2018**, 18, 049 49
- 1412 Three new barium dwarfs with white dwarf companions: BD+68°1027, RE J0702+129 and BD+80°670. **2018**, 474, 2129-2141 5
- 1411 Identification of two new HMXBs in the LMC: an ~2013 s pulsar and a probable SFXT. **2018**, 475, 220-231 8

1410	A Circumbinary Disk Model for the Rapid Orbital Shrinkage in Black Hole Low-mass X-Ray Binaries. 2018 , 859, 46	5
1409	Episodic accretion: the interplay of infall and disc instabilities. 2018 , 475, 2642-2658	37
1408	The Delta Scuti star 38 Eri from the ground and from space. 2018 , 477, 4362-4379	5
1407	Accreting CO material onto ONe white dwarfs towards accretion-induced collapse. 2018 , 18, 036	12
1406	Star Formation Histories of the LEGUS Dwarf Galaxies. I. Recent History of NGC 1705, NGC 4449, and Holmberg II. 2018 , 856, 62	17
1405	The Radius and Entropy of a Magnetized, Rotating, Fully Convective Star: Analysis with Depth-dependent Mixing Length Theories. 2018 , 856, 132	7
1404	A Study of Wolf-Rayet Stars Formed VIA Chemically Homogeneous Evolution. 2018 , 130, 084202	4
1403	Simulating a binary system that experiences the grazing envelope evolution. 2018 , 477, 2584-2598	28
1402	An overabundance of black hole X-ray binaries in the Galactic Centre from tidal captures. 2018 , 478, 4030-4051	51
1401	Evolutionary Models of Red Supergiants: Evidence for A Metallicity-dependent Mixing Length and Implications for Type IIP Supernova Progenitors. 2018 , 853, 79	25
1400	Simulating X-ray bursts with a radiation hydrodynamics code. 2018 ,	
1399	The Dependence of Convective Core Overshooting on Stellar Mass: Additional Binary Systems and Improved Calibration. 2018 , 859, 100	45
1398	Measuring Model-independent Masses and Radii of Single-lined Eclipsing Binaries: Analytic Precision Estimates. 2018 , 862, 53	8
1397	A mixed heliumoxygen shell in some core-collapse supernova progenitors. 2018 , 478, 703-710	2
1396	Nonkinematic solar dynamo models with double-cell meridional circulation. 2018 , 179, 185-201	7
1395	The nature of the lithium enrichment in the most Li-rich giant star. 2018 , 2, 790-795	29
1394	Consistent Modeling of GS 1826-24 X-Ray Bursts for Multiple Accretion Rates Demonstrates the Possibility of Constraining rp-process Reaction Rates. 2018 , 860, 147	19
1393	Towards a novel stellar opacity measurement scheme using stability properties of double ablation front structures. 2018 , 25, 072707	1

1392	Asteroseismology of the Double-mode High-amplitude δ Scuti Star VX Hydrae. 2018 , 861, 96	5
1391	The double helium-white dwarf channel for the formation of AM CVn binaries. 2018 , 18, 009	2
1390	Interrelated main-sequence mass-luminosity, mass-radius, and mass-effective temperature relations. 2018 , 479, 5491-5511	72
1389	Numerical modelling of tertiary tides. 2018 , 479, 3604-3615	6
1388	Photoevaporation and high-eccentricity migration created the sub-Jovian desert. 2018 , 479, 5012-5021	78
1387	On suprathreshold corrections to reaction rates in astrophysical plasmas. 2018 , 54, 1	3
1386	Orbital Radius during the Grazing Envelope Evolution. 2018 , 861, 136	4
1385	A Photometric, Spectroscopic, and Apsidal Motion Analysis of the F-type Eclipsing Binary BW Aquarii from K2 Campaign 3. 2018 , 156, 8	3
1384	Variability of Red Supergiants in M31 from the Palomar Transient Factory. 2018 , 859, 73	16
1383	Applegate mechanism in post-common-envelope binaries: Investigating the role of rotation. 2018 , 615, A81	6
1382	A GRB and Broad-lined Type Ic Supernova from a Single Central Engine. 2018 , 860, 38	36
1381	Angular momentum transport by heat-driven g-modes in slowly pulsating B stars. 2018 , 475, 879-893	69
1380	Hydrogen and helium shell burning during white dwarf accretion. 2018 , 18, 058	1
1379	Stellar wind retention and expulsion in massive star clusters. 2018 , 478, 2794-2811	10
1378	Ultraviolet Detection of the Binary Companion to the Type IIb SN 2001ig. 2018 , 856, 83	26
1377	Kinematics of B-F Stars as a Function of Their Dereddened Color from Gaia and PCRV Data. 2018 , 44, 248-264	
1376	Galactic cartography with SkyMapper I. Population substructure and the stellar number density of the inner halo. 2018 , 480, 1218-1228	2
1375	SN 2017ein and the Possible First Identification of a Type Ic Supernova Progenitor. 2018 , 860, 90	44

1374	Constraints on the Distance Moduli, Helium and Metal Abundances, and Ages of Globular Clusters from their RR Lyrae and Non-variable Horizontal-branch Stars. III. M55 and NGC 6362. 2018 , 862, 72	8
1373	Star Cluster Ages in the Gaia Era. 2018 , 863, 65	9
1372	Related Progenitor Models for Long-duration Gamma-Ray Bursts and Type Ic Superluminous Supernovae. 2018 , 858, 115	36
1371	New full evolutionary sequences of H- and He-atmosphere massive white dwarf stars using mesa. 2018 , 480, 1547-1562	25
1370	Snake in the Clouds: a new nearby dwarf galaxy in the Magellanic bridge. 2018 , 479, 5343-5361	59
1369	Accretion in common envelope evolution. 2018 , 480, 1898-1911	58
1368	New and Known Moving Groups and Clusters Identified in a Gaia Comoving Catalog. 2018 , 863, 91	29
1367	An Alternative Channel for High-mass Binary Black HolesDark Matter Accretion onto Black Holes. 2018 , 863, 17	9
1366	The Gaia-ESO Survey: open clusters in Gaia-DR1. 2018 , 612, A99	42
1365	Weak Shock Propagation with Accretion. I. Self-similar Solutions and Application to Failed Supernovae. 2018 , 863, 158	19
1364	Nuclear physics of the outer layers of accreting neutron stars. 2018 , 45, 093001	41
1363	Dynamical tides in highly eccentric binaries: chaos, dissipation, and quasi-steady state. 2018 , 476, 482-495	24
1362	The primordial entropy of Jupiter. 2018 , 477, 4817-4823	12
1361	Which evolutionary status does the Blue Large-Amplitude Pulsators stay at?. 2018 , 478, 3871-3877	8
1360	Orbital Characteristics of the Subdwarf-B and F V Star Binary EC 20117-4014 (=V4640 Sgr). 2018 , 859, 145	6
1359	The Evolution of Massive Close Binaries: Anomalous Relationship between Nitrogen Abundances and Rotational Velocities. 2018 , 859, 43	4
1358	Uncertainties in s-process nucleosynthesis in low-mass stars determined from Monte Carlo variations. 2018 , 478, 4101-4127	15
1357	Measuring the Progenitor Masses and Dense Circumstellar Material of Type II Supernovae. 2018 , 858, 15	64

1356	Efficient common-envelope ejection through dust-driven winds. 2018 , 478, L12-L17	37
1355	HST/STIS analysis of the first main sequence pulsar CU Virginis. 2019 , 625, A34	8
1354	Masses and ages for metal-poor stars. 2019 , 627, A173	16
1353	Numerical Methods for Simulating Star Formation. 2019 , 6,	8
1352	The formation of Jupiter's diluted core by a giant impact. 2019 , 572, 355-357	38
1351	Comparison of the optical light curves of hydrogen-rich and hydrogen-poor type II supernovae. 2019 , 488, 4239-4257	13
1350	Asteroseismology of Red Clump Stars as a Probe of the Dark Matter Content of the Galaxy Central Region. 2019 , 880, L25	5
1349	Self-consistent Predictions for LIER-like Emission Lines from Post-AGB Stars. 2019 , 158, 2	19
1348	Most Black Holes Are Born Very Slowly Rotating. 2019 , 881, L1	112
1347	The Dependence of Convective Core Overshooting on Stellar Mass: Reality Check and Additional Evidence. 2019 , 876, 134	34
1346	Evolving R Coronae Borealis stars with mesa. 2019 , 488, 438-450	13
1345	The formation of bimodal dust species in nova ejecta II. Chemical conditions. 2019 , 488, 525-535	5
1344	Asymmetric Dark Matter Imprint on Low-mass Main-sequence Stars in the Milky Way Nuclear Star Cluster. 2019 , 879, 50	8
1343	Inferring Explosion Properties from Type II-Plateau Supernova Light Curves. 2019 , 879, 3	29
1342	Carbon Isotope Ratios in M10 Giants. 2019 , 878, 43	3
1341	Spectral energy distribution of the first galaxies: contribution from pre-main-sequence stars. 2019 , 488, L64-L68	
1340	KELT-23Ab: A Hot Jupiter Transiting a Near-solar Twin Close to the TESS and JWST Continuous Viewing Zones. 2019 , 158, 78	5
1339	Confirmation of the Gaia DR2 Parallax Zero-point Offset Using Asteroseismology and Spectroscopy in the Kepler Field. 2019 , 878, 136	121

1338 Asteroseismology of the DOV star PG 1159035. **2019**, 488, 2253-2262

1337 Grids of stellar models with rotation. **2019**, 627, A24

35

1336 The Interaction between Shear and Fingering (Thermohaline) Convection. **2019**, 879, 60

8

1335 Deep Learning Applied to the Asteroseismic Modeling of Stars with Coherent Oscillation Modes. **2019**, 131, 108001

15

1334 Formation of accreting millisecond X-ray pulsars. **2019**, 19, 110

1333 The Physical Parameters and Atmospheric Model of ϵ Tau at AGB Evolutionary Stage. **2019**, 1245, 012008

1332 NuGrid stellar data set III. Updated low-mass AGB models and s-process nucleosynthesis with metallicities $Z = 0.01$, $Z = 0.02$, and $Z = 0.03$. **2019**, 489, 1082-1098

23

1331 Modelling differential rotation of red giants: the case of the evolved sun. **2019**, 490, L71-L75

1330 Alfvén Wave-driven Wind from RGB and AGB Stars. **2019**, 879, 77

6

1329 Off-axis Synchrotron Light Curves from Full-time-domain Moving-mesh Simulations of Jets from Massive Stars. **2019**, 880, 135

6

1328 High-precision Asteroseismology in a Slowly Pulsating B Star: HD 50230. **2019**, 881, 86

13

1327 One-, Two-, and Three-dimensional Simulations of Oxygen-shell Burning Just before the Core Collapse of Massive Stars. **2019**, 881, 16

45

1326 Modules for Experiments in Stellar Astrophysics (MESA): Pulsating Variable Stars, Rotation, Convective Boundaries, and Energy Conservation. *Astrophysical Journal, Supplement Series*, **2019**, 243, 10

8

406

1325 Self-lensing Discovery of a 0.2 M_{\odot} White Dwarf in an Unusually Wide Orbit around a Sun-like Star. **2019**, 881, L3

20

1324 The Tidal Disruption of Sun-like Stars by Massive Black Holes. **2019**, 882, L25

29

1323 Helium settling in F stars: constraining turbulent mixing using observed helium glitch signature. **2019**, 489, 1850-1858

12

1322 The likelihood of detecting young giant planets with high-contrast imaging and interferometry. **2019**, 490, 502-512

4

1321 Rotational and pulsational variability in the TESS light curve of HD 27463. **2019**, 490, 2102-2111

5

1320	When Does the Onset of Multiple Stellar Populations in Star Clusters Occur? Detection of Enriched Stellar Populations in NGC 2121. 2019 , 876, 94	11
1319	Envelope Convection, Surface Magnetism, and Spots in A and Late B-type Stars. 2019 , 883, 106	39
1318	A noninteracting low-mass black hole-giant star binary system. 2019 , 366, 637-640	102
1317	Fundamental properties of Kepler and CoRoT targets IV. Masses and radii from frequencies of minimum Ω and their implications. 2019 , 489, 1753-1769	8
1316	Supernova lightCURVE POPulation Synthesis II: Validation against supernovae with an observed progenitor. 2019 , 36,	14
1315	The Formation of Bimodal Dust Species in Nova Ejecta. 2019 , 131, 124202	2
1314	Constraining Massive Star Activities in the Final Years through Properties of Supernovae and Their Progenitors. 2019 , 877, 92	21
1313	Visual Orbits of Spectroscopic Binaries with the CHARA Array. II. The Eclipsing Binary HD 185912. 2019 , 158, 218	5
1312	The Formation of Subdwarf A-type Stars. 2019 , 885, 20	4
1311	Density Conversion between 1D and 3D Stellar Models with 1DMESA2HYDRO3D. 2019 , 882, 63	3
1310	Pulsational Pair-instability Supernovae in Very Close Binaries. 2019 , 882, 36	87
1309	WFIRST and EUCLID: Enabling the Microlensing Parallax Measurement from Space. 2019 , 880, L32	6
1308	On the Diversity of Fallback Rates from Tidal Disruption Events with Accurate Stellar Structure. 2019 , 882, L26	23
1307	Constraining mixing in massive stars in the Small Magellanic Cloud. 2019 , 625, A132	36
1306	New δ Cep pulsators discovered with K2 space photometry. 2019 , 489, 1304-1320	11
1305	V1082-Sgr: A magnetic cataclysmic variable with a lobe-filling companion star. 2019 , 489, 3031-3035	2
1304	Massive star evolution: rotation, winds, and overshooting vectors in the mass-luminosity plane. 2019 , 622, A50	30
1303	Photometric and spectroscopic diversity of Type II supernovae. 2019 , 631, A8	23

1302	Asteroseismology of tidally distorted sdB stars. 2019 , 489, 3066-3072	2
1301	Asteroseismic investigation of 20 planet and planet-candidate host stars. 2019 , 490, 1509-1517	6
1300	Comprehensive models of novae at metallicity $Z' = 0.02$ and $Z' = 10\%$. 2019 , 490, 1678-1692	14
1299	System Parameters for the Eclipsing B-star Binary BD+11°3569. 2019 , 158, 118	
1298	Polygram Stars: Resonant Tidal Excitation of Fundamental Oscillation Modes in Asynchronous Stellar Coalescence. 2019 , 877, 28	5
1297	Gray Radiation Hydrodynamics with the FLASH Code for Astrophysical Applications. 2019 , 876, 148	3
1296	The Planetary Accretion Shock. II. Grid of Postshock Entropies and Radiative Shock Efficiencies for Nonequilibrium Radiation Transport. 2019 , 881, 144	33
1295	Clues on the Origin and Evolution of Massive Contact Binaries: Atmosphere Analysis of VFTS 352. 2019 , 880, 115	22
1294	Excavating the Explosion and Progenitor Properties of Type IIP Supernovae via Modeling of their Optical Light Curves. 2019 , 880,	10
1293	Electron-capture Rates in ^{20}Ne for a Forbidden Transition to the Ground State of ^{20}F Relevant to the Final Evolution of High-density O/Ne/Mg Cores. 2019 , 881, 64	15
1292	Crust-cooling Models Are Insensitive to the Crust-Core Transition Pressure for Realistic Equations of State. 2019 , 882, 91	1
1291	Homogeneous Analysis of Hot Earths: Masses, Sizes, and Compositions. 2019 , 883, 79	32
1290	Aluminium-26 from Massive Binary Stars. I. Nonrotating Models. 2019 , 884, 38	9
1289	Double Detonations with Thin, Modestly Enriched Helium Layers can Make Normal Type Ia Supernovae. 2019 , 878, L38	38
1288	A Mass-accreting Gamma Doradus Pulsator with a Synchronized Core in Kepler Eclipsing Binary KIC 7385478. 2019 , 882, L5	7
1287	Obtaining Precision Constraints on Modified Gravity with Helioseismology. 2019 , 123, 091103	17
1286	The EBLM project. 2019 , 626, A119	11
1285	Modelling of the B-type binaries CW Cephei and U Ophiuchi. 2019 , 628, A25	18

1284	Stellar engines: Design considerations for maximizing acceleration. 2019 , 165, 96-104	3
1283	Pulsating white dwarfs: new insights. 2019 , 27, 1	67
1282	Angular momentum transport in massive stars and natal neutron star rotation rates. 2019 , 488, 4338-4355	13
1281	Mass discrepancy analysis for a select sample of Type II-Plateau supernovae. 2019 , 629, A124	20
1280	The i-process yields of rapidly accreting white dwarfs from multicycle He-shell flash stellar evolution models with mixing parametrizations from 3D hydrodynamics simulations. 2019 , 488, 4258-4270	33
1279	Spectroscopic binaries RV Tauri and DF Cygni. 2019 , 628, A40	6
1278	The surface abundances of red supergiants at core collapse. 2019 , 483, 887-895	32
1277	HIDES spectroscopy of bright detached eclipsing binaries from the Kepler field III. Spectral analysis, updated parameters and new systems. 2019 , 484, 451-475	17
1276	Helium abundance in a sample of cool stars: measurements from asteroseismology. 2019 , 483, 4678-4694	26
1275	Photometric detection of internal gravity waves in upper main-sequence stars. 2019 , 621, A135	38
1274	Tracing the formation of the Milky Way through ultra metal-poor stars. 2019 , 484, 2166-2180	45
1273	Three-dimensional Simulations of Massive Stars. I. Wave Generation and Propagation. 2019 , 876, 4	39
1272	Effects of winds on the leftover hydrogen in massive stars following Roche lobe overflow. 2019 , 486, 4451-4462	19
1271	Common envelope evolution on a moving mesh. 2019 , 486, 5809-5818	18
1270	Quantifying How Density Gradients and Front Curvature Affect Carbon Detonation Strength during SNe Ia. 2019 , 871, 154	7
1269	Rapid Rotation in the Kepler Field: Not a Single Star Phenomenon. 2019 , 871, 174	20
1268	Residual Carbon in Oxygen-Neon White Dwarfs and Its Implications for Accretion-induced Collapse. 2019 , 872, 131	11
1267	Heating of the Intergalactic Medium by Hydrogen Reionization. 2019 , 874, 154	36

1266	On the Origin of Black Hole Spin in High-mass X-Ray Binaries. 2019 , 870, L18	51
1265	Neutrino flavor as a test of the explosion mechanism of core-collapse supernovae. 2019 , 99,	3
1264	An Older, More Quiescent Universe from Panchromatic SED Fitting of the 3D-HST Survey. 2019 , 877, 140	84
1263	Extended Main-sequence Turnoffs in the Double Cluster η and ζ Persei: The Complex Role of Stellar Rotation. 2019 , 876, 65	22
1262	Evolution of Helium Star-White Dwarf Binaries Leading up to Thermonuclear Supernovae. 2019 , 878, 100	6
1261	Short-term Variability of Evolved Massive Stars with TESS. 2019 , 878, 155	9
1260	A New Class of Large-amplitude Radial-mode Hot Subdwarf Pulsators. 2019 , 878, L35	14
1259	Hydrodynamical moving-mesh simulations of the tidal disruption of stars by supermassive black holes. 2019 , 487, 981-992	23
1258	Exploring the formation by core accretion and the luminosity evolution of directly imaged planets. 2019 , 624, A20	17
1257	Chemical abundances of open clusters from high-resolution infrared spectra II. NGC 6940. 2019 , 485, 4625-4640	4
1256	The Long-term Evolution and Appearance of Type Iax Postgenitor Stars. 2019 , 872, 29	11
1255	A Hot Saturn Orbiting an Oscillating Late Subgiant Discovered by TESS. 2019 , 157, 245	51
1254	The Gemini Planet Imager Exoplanet Survey: Giant Planet and Brown Dwarf Demographics from 10 to 100 au. 2019 , 158, 13	151
1253	Period spacings of η Doradus pulsators in the Kepler field: Rossby and gravity modes in 82 stars. 2019 , 487, 782-800	30
1252	Stellar masses from granulation and oscillations of 23 bright red giants observed by BRITe-Constellation. 2019 , 624, A35	3
1251	On the Nature of the Core of η Centauri A: The Impact of the Metallicity Mixture. 2019 , 6,	4
1250	WASP-4b Arrived Early for the TESS Mission. 2019 , 157, 217	39
1249	The Period-Luminosity Relations of Red Supergiants in M33 and M31. <i>Astrophysical Journal, Supplement Series</i> , 2019 , 241, 35	8 14

1248	Precise determination of stellar parameters of the ZZ Ceti and DAZ white dwarf GD 133 through asteroseismology. 2019 , 486, 3560-3568	1
1247	A seismic scaling relation for stellar age. 2019 , 486, 4612-4621	17
1246	Absolute Dimensions of the Early F-type Eclipsing Binary V506 Ophiuchi. 2019 , 876, 41	3
1245	The difficulty of inferring progenitor masses from type-II-Plateau supernova light curves. 2019 , 625, A9	27
1244	The outcomes of carbon-oxygen white dwarfs accreting CO-rich material. 2019 , 483, 263-275	13
1243	SN 2017czd: A Rapidly Evolving Supernova from a Weak Explosion of a Type IIb Supernova Progenitor. 2019 , 875, 76	4
1242	Simulating stellar winds in AMUSE. 2019 , 625, A85	4
1241	Energy budget and core-envelope motion in common envelope evolution. 2019 , 486, 1070-1085	13
1240	CN Andromedae: a shallow contact binary with a possible tertiary component. 2019 , 19, 010	1
1239	Dependence of convective boundary mixing on boundary properties and turbulence strength. 2019 , 484, 4645-4664	19
1238	Storing magnetic fields in pre-collapse cores of massive stars. 2019 , 486, 1652-1657	3
1237	A Triple Origin for Twin Blue Stragglers in Close Binaries. 2019 , 876, L33	8
1236	Massive Stellar Mergers as Precursors of Hydrogen-rich Pulsational Pair Instability Supernovae. 2019 , 876, L29	18
1235	Two in a crowd? Characterising the effect of photometric contamination on the extraction of the global asteroseismic parameter Π_{ax} in red-giant binaries. 2019 , 624, A140	4
1234	Suprathermal nuclear effects in the solar core: overall view. 2019 , 46, 065201	1
1233	Convective boundary mixing in a post-He core burning massive star model. 2019 , 484, 3921-3934	19
1232	Asteroseismology of main-sequence F stars with Kepler: overcoming short mode lifetimes. 2019 , 485, 560-569	5
1231	The role of convection in determining the ejection efficiency of common envelope interactions. 2019 , 485, 4492-4501	23

1230	Black hole accretion discs and luminous transients in failed supernovae from non-rotating supergiants. 2019 , 485, L83-L88	40
1229	An Ultraviolet \square Optical Color \square Metallicity Relation for Red Clump Stars Using GALEX and Gaia. 2019 , 872, 95	4
1228	Asteroseismology of the Pre-main-sequence \square Scuti Pulsator IP Persei. 2019 , 872, 156	2
1227	Weighing Black Holes Using Tidal Disruption Events. 2019 , 872, 151	78
1226	Mixing via Thermocompositional Convection in Hybrid C/O/Ne White Dwarfs. 2019 , 876, 10	2
1225	Rossby and Magnetic Prandtl Number Scaling of Stellar Dynamos. 2019 , 876, 83	14
1224	The Signature of a Windy Radio Supernova Progenitor in a Binary System. 2019 , 872, L3	2
1223	V643 Orionis: A detached, evolved, post-mass-exchange eclipsing binary. 2019 , 624, A88	1
1222	Common envelope jets supernova (CEJSN) impostors resulting from a neutron star companion. 2019 , 482, 4233-4242	27
1221	Formation and evolution of hybrid He \square O white dwarfs and their properties. 2019 , 482, 1135-1142	34
1220	Discrepancies in the ages of young star clusters; evidence for mergers?. 2019 , 486, 266-273	26
1219	Convective overshooting and penetration in a Boussinesq spherical shell. 2019 , 484, 1220-1237	26
1218	Testing asteroseismology with Gaia DR2: hierarchical models of the Red Clump. 2019 , 486, 3569-3585	38
1217	Mixing by overshooting and rotation in intermediate-mass stars. 2019 , 485, 4641-4657	19
1216	Low-frequency gravity waves in blue supergiants revealed by high-precision space photometry. 2019 , 3, 760-765	56
1215	HARPS-N radial velocities confirm the low densities of the Kepler-9 planets. 2019 , 484, 3233-3243	18
1214	Off-centre carbon burning in He-accreting carbon \square oxygen white dwarfs. 2019 , 486, 2977-2981	5
1213	Neutron star \square white dwarf mergers: early evolution, physical properties, and outcomes. 2019 , 486, 1805-1813	19

1212	Hydrodynamical simulations and similarity relations for eruptive mass-loss from massive stars. 2019 , 485, 988-1000	17
1211	An Eccentric Massive Jupiter Orbiting a Subgiant on a 9.5-day Period Discovered in the Transiting Exoplanet Survey Satellite Full Frame Images. 2019 , 157, 191	37
1210	Age Determination in Upper Scorpius with Eclipsing Binaries. 2019 , 872, 161	51
1209	Diversity of common envelope jets supernovae and the fast transient AT2018cow. 2019 , 484, 4972-4979	41
1208	Cycle period, differential rotation, and meridional flow for early M dwarf stars. 2019 , 622, A40	7
1207	Constraining transport of angular momentum in stars. 2019 , 622, A187	11
1206	Analysis of broad-lined Type Ic supernovae from the (intermediate) Palomar Transient Factory. 2019 , 621, A71	34
1205	Slowing the spins of stellar cores. 2019 , 485, 3661-3680	115
1204	Onset of non-linear internal gravity waves in intermediate-mass stars. 2019 , 482, 5500-5512	8
1203	A Multimass Velocity Dispersion Model of 47 Tucanae Indicates No Evidence for an Intermediate-mass Black Hole. 2019 , 875, 1	69
1202	Benchmark ages for the Gaia benchmark stars. 2019 , 482, 895-920	24
1201	Can the Friction of the Nova Envelope Account for the Extra Angular Momentum Loss in Cataclysmic Variables?. 2019 , 870, 22	6
1200	Overshooting in the Core Helium-burning Stage of a 30M \odot Star Using the α -Model. 2019 , 870, 77	1
1199	Formation of Extremely Low-mass White Dwarfs in Double Degenerates. 2019 , 871, 148	27
1198	Searching for the Donor Stars of ULX Pulsars. 2019 , 871, 231	11
1197	Influence of Nuclear Reaction Rate Uncertainties on Neutron Star Properties Extracted from X-Ray Burst Model/Observation Comparisons. 2019 , 872, 84	22
1196	Nonlinear Mixed Modes in Red Giants. 2019 , 873, 67	5
1195	Polluted White Dwarfs: Mixing Regions and Diffusion Timescales. 2019 , 872, 96	19

1194	Gaia-derived luminosities of Kepler A/F stars and the pulsator fraction across the β Scuti instability strip. 2019 , 485, 2380-2400	50
1193	Visual Orbits of Spectroscopic Binaries with the CHARA Array. I. HD 224355. 2019 , 157, 140	9
1192	On the Existence of Brown Dwarfs More Massive than the Hydrogen Burning Limit. 2019 , 871, 227	5
1191	Benchmarking Substellar Evolutionary Models Using New Age Estimates for HD 4747 B and HD 19467 B. 2019 , 873, 83	7
1190	Spectroscopic study of two new super Li-rich red clump K giants. 2019 , 482, 3822-3830	10
1189	Type Ib/Ic Supernovae: Effect of Nickel Mixing on the Early-time Color Evolution and Implications for the Progenitors. 2019 , 872, 174	16
1188	The origin of the two populations of blue stragglers in M30. 2019 , 621, L10	10
1187	Isochronal age-mass discrepancy of young stars: SCExAO/CHARIS integral field spectroscopy of the HIP 79124 triple system. 2019 , 622, A42	12
1186	Red giant evolution in modified gravity. 2019 , 2019, 011-011	1
1185	Nucleosynthetic yields from neutron stars accreting in binary common envelopes. 2019 , 485, 620-639	2
1184	Convection physics and tidal synchronization of the subdwarf binary NY Virginis. 2019 , 485, 2889-2894	6
1183	Stellar ages, masses, and radii from asteroseismic modeling are robust to systematic errors in spectroscopy. 2019 , 622, A130	23
1182	The Helium Abundance of NGC 6791 from Modeling of Stellar Oscillations. 2019 , 874, 180	20
1181	Evolution of Magnetized White Dwarf Binaries to Type Ia Supernovae. 2019 , 871, 31	10
1180	slug IV: a novel forward-modelling method to derive the demographics of star clusters. 2019 , 482, 3550-3566	6
1179	The degree of fine-tuning in our universe β nd others. 2019 , 807, 1-111	13
1178	Merging black hole binaries with the SEVN code. 2019 , 485, 889-907	117
1177	A revisit to the enigmatic variable star 21 Comae. 2019 , 485, 4247-4259	4

1176	Accurate stellar parameters and distance to two evolved eclipsing binary systems, OGLE-BLG-ECL-123903 and OGLE-BLG-ECL-296596, towards the Galactic bulge. 2019 , 621, A93	4
1175	The Power of Asteroseismology for Early Stellar Evolution. 2019 , 6,	1
1174	Resolving Power of Asteroseismic Inversion of the Kepler Legacy Sample. 2019 , 15, 107-115	2
1173	First galaxy SED: Contribution from pre-main-sequence stars. 2019 , 15, 287-288	
1172	Testing white dwarf cosmochronology using wide double white dwarfs. 2019 , 15, 197-201	
1171	Properties and nature of Be stars. 2019 , 629, A105	2
1170	The s process in rotating low-mass AGB stars. 2019 , 629, A123	10
1169	Near-resonance in a System of Sub-Neptunes from TESS. 2019 , 158, 177	27
1168	KELT-24b: A 5M J Planet on a 5.6 day Well-aligned Orbit around the Young V = 8.3 F-star HD 93148. 2019 , 158, 197	7
1167	Testing the Radius Scaling Relation with Gaia DR2 in the Kepler Field. 2019 , 885, 166	32
1166	Mind the Gap: The Location of the Lower Edge of the Pair-instability Supernova Black Hole Mass Gap. 2019 , 887, 53	107
1165	Pulsational Pair-instability Supernovae. I. Pre-collapse Evolution and Pulsational Mass Ejection. 2019 , 887, 72	45
1164	Structural and Evolutionary Diagnostics from Asteroseismic Phase Functions. 2019 , 885, 26	4
1163	Updating the theoretical tidal evolution constants: Apsidal motion and the moment of inertia. 2019 , 628, A29	13
1162	Evolved massive stars at low-metallicity. 2019 , 629, A91	19
1161	Asteroseismology of evolved stars to constrain the internal transport of angular momentum. 2019 , 631, L6	20
1160	When Does the Onset of Multiple Stellar Populations in Star Clusters Occur. II. No Evidence of Multiple Stellar Populations in Lindsay 113. 2019 , 884, 17	6
1159	On the Rapid Orbital Expansion in the Compact Low-mass X-Ray Binary 2A 1822B71. 2019 , 887, 201	1

1158	Isochrone-cloud fitting of the extended main-sequence turn-off of young clusters. 2019 , 632, A74	15
1157	Combined Effects of Rotation and Age Spreads on Extended Main-Sequence Turn Offs. 2019 , 887, 199	20
1156	Tidally Induced Radius Inflation of Sub-Neptunes. 2019 , 886, 72	24
1155	The impact of stars stripped in binaries on the integrated spectra of stellar populations. 2019 , 629, A134	40
1154	Supernovae from blue supergiant progenitors: What a mess!. 2019 , 622, A70	9
1153	Masses, oxygen, and carbon abundances in CHEPS dwarf stars. 2019 , 621, A112	13
1152	Constraints on the Galactic Inner Halo Assembly History from the Age Gradient of Blue Horizontal-branch Stars. 2019 , 884, 67	8
1151	Evolutionary Models for R Coronae Borealis Stars. 2019 , 885, 27	16
1150	So close, so different: characterization of the K2-36 planetary system with HARPS-N. 2019 , 624, A38	7
1149	Modelling depletion by re-accretion of gas from a dusty disc in post-AGB stars. 2019 , 629, A49	15
1148	Radio Emission from Supernovae in the Very Early Phase: Implications for the Dynamical Mass Loss of Massive Stars. 2019 , 885, 41	5
1147	Entropy Rain: Dilution and Compression of Thermals in Stratified Domains. 2019 , 884, 65	10
1146	Influence of Magnetic Activity on the Determination of Stellar Parameters Through Asteroseismology. 2019 , 6,	8
1145	SN Ia Explosions from Hybrid Carbon-Oxygen-Neon White Dwarf Progenitors that Have Mixed during Cooling. 2019 , 887, 188	5
1144	Progenitors of Type IIb Supernovae. I. Evolutionary Pathways and Rates. 2019 , 885, 130	27
1143	Low-frequency Variability in Massive Stars: Core Generation or Surface Phenomenon?. 2019 , 886, L15	23
1142	Orbital Decay in a 20 Minute Orbital Period Detached Binary with a Hydrogen-poor Low-mass White Dwarf. 2019 , 886, L12	24
1141	Kepler Object of Interest Network. 2019 , 628, A108	6

1140	Local resolution of the Hubble tension: The impact of screened fifth forces on the cosmic distance ladder. 2019 , 100,	55
1139	Surviving companions of Type Ia supernovae: theory and observations. 2019 , 85, 101523	13
1138	Detection of a Low-mass Stellar Companion to the Accelerating A2IV Star HR 1645. 2019 , 158, 226	3
1137	A wide star-black-hole binary system from radial-velocity measurements. 2019 , 575, 618-621	81
1136	KIC 4142768: An Evolved Gamma Doradus/Delta Scuti Hybrid Pulsating Eclipsing Binary with Tidally Excited Oscillations. 2019 , 885, 46	18
1135	Screened fifth forces mediated by dark matter-baryon interactions: Theory and astrophysical probes. 2019 , 100,	17
1134	The K2-HERMES Survey: age and metallicity of the thick disc. 2019 , 490, 5335-5352	40
1133	Type IIP Supernova Progenitors and Their Explodability. I. Convective Overshoot, Blue Loops, and Surface Composition. 2019 , 886, 27	3
1132	Discovery of a Disrupting Open Cluster Far into the Milky Way Halo: A Recent Star Formation Event in the Leading Arm of the Magellanic Stream?. 2019 , 887, 19	13
1131	On the Properties of the Galactic Dust Layer within 700 pc of the Sun. 2019 , 45, 605-619	3
1130	On the Origin of Solar Torsional Oscillations and Extended Solar Cycle. 2019 , 887, 215	11
1129	Evolution of ONeMg Core in Super-AGB Stars toward Electron-capture Supernovae: Effects of Updated Electron-capture Rate. 2019 , 886, 22	17
1128	Spallation-altered Accreted Compositions for X-Ray Bursts: Impact on Ignition Conditions and Burst Ashes. 2019 , 887, 100	2
1127	Stellar mergers as the origin of magnetic massive stars. 2019 , 574, 211-214	62
1126	A Population of Neutron Star Ultraluminous X-Ray Sources with a Helium Star Companion. 2019 , 886, 118	6
1125	Cold Giant Planets Evaporated by Hot White Dwarfs. 2019 , 887, L4	19
1124	Exploring the Convective Core of the Hybrid δ Scuti-Doradus Star CoRoT 100866999 with Asteroseismology. 2019 , 887, 253	6
1123	GABE: Galaxy Assembly with Binary Evolution. 2019 , 19, 151	2

1122	Low-mass X-ray binaries: the effects of the magnetic braking prescription. 2019 , 483, 5595-5613	15
1121	The role of radioactive nickel in shaping the plateau phase of Type II supernovae. 2019 , 483, 1211-1223	13
1120	The structure of detonation waves in supernovae revisited. 2019 , 483, 425-457	6
1119	Asteroseismic modelling of the subgiant ϵ Herculis using SONG data: lifting the degeneracy between age and model input parameters. 2019 , 483, 780-789	10
1118	Understanding WASP-12b. 2019 , 482, 1872-1882	24
1117	Binary asteroseismic modelling: isochrone-cloud methodology and application to Kepler gravity mode pulsators. 2019 , 482, 1231-1246	32
1116	The GALAH survey: co-orbiting stars and chemical tagging. 2019 , 482, 5302-5315	12
1115	The Unusual Initial Mass Function of the Arches Cluster. 2019 , 870, 44	36
1114	Impact of binary interaction on the evolution of blue supergiants. 2019 , 621, A22	4
1113	Isochrone fitting of Galactic globular clusters I. NGC 5904. 2019 , 483, 4949-4967	7
1112	Orbits of 14 binaries based on 2018 SOAR speckle observations. 2019 , 482, 4096-4110	5
1111	Sensitivity of carbon and oxygen yields to the triple-alpha resonance in massive stars. 2019 , 105, 13-24	8
1110	Waves and Convection in Stellar Astrophysics. 2020 , 31-70	
1109	Effects of Close Binary Evolution on the Main-sequence Morphology of Young Star Clusters. 2020 , 888, L12	24
1108	The Pristine survey IX. CFHT ESPaDOnS spectroscopic analysis of 115 bright metal-poor candidate stars. 2020 , 492, 3241-3262	22
1107	Early formation and recent starburst activity in the nuclear disk of the Milky Way. 2020 , 4, 377-381	40
1106	Testing exoplanet evaporation with multitransiting systems. 2020 , 491, 5287-5297	28
1105	Empirical relations for the sensitivities of solar-like oscillations to magnetic perturbations. 2020 , 496, 4593-4605	1

1104	Convective turbulent viscosity acting on equilibrium tidal flows: new frequency scaling of the effective viscosity. 2020 , 497, 3400-3417	11
1103	Two-dimensional simulations of internal gravity waves in the radiation zones of intermediate-mass stars. 2020 , 497, 4231-4245	13
1102	Stellar-mass black holes in young massive and open stellar clusters IV. Updated stellar-evolutionary and black hole spin models and comparisons with the LIGO-Virgo O1/O2 merger-event data. 2020 , 500, 3002-3026	39
1101	Modelling R Coronae Borealis stars: effects of He-burning shell temperature and metallicity. 2020 , 498, 2912-2924	5
1100	Constraining the entropy of formation from young transiting planet. 2020 , 498, 5030-5040	11
1099	Modelling the Milky Way II. Method and first results fitting the thick disc and halo with DES-Y3 data. 2020 , 497, 1547-1562	7
1098	Analysis of eclipsing binaries in multiple stellar systems: the case of V1200 Centauri. 2020 , 499, 3019-3033	4
1097	Cosmic rates of black hole mergers and pair-instability supernovae from chemically homogeneous binary evolution. 2020 , 499, 5941-5959	31
1096	The challenge of forming a fuzzy core in Jupiter. 2020 , 638, A121	18
1095	Linear dust polarization during the embedded phase of protostar formation. 2020 , 639, A137	3
1094	Tidally trapped pulsations in binary stars. 2020 , 498, 5730-5744	12
1093	How many components? Quantifying the complexity of the metallicity distribution in the Milky Way bulge with APOGEE. 2020 , 499, 1037-1057	20
1092	Jet-driven AGN feedback in galaxy formation before black hole formation. 2020 , 81, 101438	2
1091	Coupling thermal evolution of planets and hydrodynamic atmospheric escape in mesa. 2020 , 499, 77-88	11
1090	Clustering and capture reaction rate from ab initio symmetry-adapted descriptions of Ne20. 2020 , 102,	5
1089	Stress-driven spin-down of a viscous fluid within a spherical shell. 2020 , 904,	
1088	Formation pathway for lonely stripped-envelope supernova progenitors: implications for Cassiopeia A. 2020 , 499, 1154-1171	13
1087	Visual Orbits of Spectroscopic Binaries with the CHARA Array. III. HD 8374 and HD 24546. 2020 , 160, 58	2

1086	Tidally Excited Oscillations in Heartbeat Binary Stars: Pulsation Phases and Mode Identification. 2020 , 888, 95		18
1085	SPECULATOR: Emulating Stellar Population Synthesis for Fast and Accurate Galaxy Spectra and Photometry. <i>Astrophysical Journal, Supplement Series</i> , 2020 , 249, 5	8	9
1084	Stellar structure models in modified theories of gravity: Lessons and challenges. 2020 , 876, 1-75		62
1083	Toward Early-type Eclipsing Binaries as Extragalactic Milestones. II. NLTE Spectral Analysis and Stellar Parameters of the Detached O-type System OGLE-LMC-ECL-06782 in the LMC. 2020 , 890, 137		1
1082	Towards a realistic explosion landscape for binary population synthesis. 2020 , 499, 2803-2816		25
1081	Orbital and physical parameters of eclipsing binaries from the ASAS catalogue [XI]. CHIRON investigation of long-period binaries. 2020 , 500, 4972-4988		2
1080	Efficiency of tidal dissipation in slowly rotating fully convective stars or planets. 2020 , 497, 4472-4485		10
1079	Interior Structure of Solar-like Star [Ceti. 2020 , 1523, 012012		
1078	The ASAS-SN catalogue of variable stars [VIII]. Dipper stars in the Lupus star-forming region. 2020 , 496, 3257-3269		10
1077	Helium and nitrogen enrichment in massive main-sequence stars: mechanisms and implications for the origin of WNL stars. 2020 , 494, 3861-3879		5
1076	Enhanced mass-loss rate evolution of stars with $\sim 18 M_{\odot}$ and missing optically observed type II core-collapse supernovae. 2020 , 494, 5230-5238		4
1075	The impact of recombination energy on simulations of the common-envelope binary interaction. 2020 , 494, 5333-5349		15
1074	Turbulence in the Sun is suppressed on large scales and confined to equatorial regions. 2020 , 6, eaba9639		10
1073	The formation of type Ia supernovae from carbon-oxygen-silicon white dwarfs. 2020 , 495, 1445-1460		4
1072	Observing the earliest moments of supernovae using strong gravitational lenses. 2020 , 495, 4622-4637		1
1071	Study of the effects of magnetic braking on the lithium abundances of the Sun and solar-type stars. 2020 , 496, 1343-1354		
1070	Non-linear dynamical tides in white dwarf binaries. 2020 , 496, 5482-5502		10
1069	Asteroseismic inference of subgiant evolutionary parameters with deep learning. 2020 , 499, 2445-2461		4

1068	The Close Binary Fraction as a Function of Stellar Parameters in APOGEE: A Strong Anti-Correlation With α Abundances. 2020 ,	13
1067	Massive discs around low-mass stars. 2020 , 494, 4130-4148	13
1066	Common envelope evolution on the asymptotic giant branch: unbinding within a decade?. 2020 , 495, 4028-4039	9
1065	Convective excitation and damping of solar-like oscillations. 2020 , 495, 4904-4923	2
1064	Isochrone fitting of Galactic globular clusters III. NGC 6205 (M13). 2020 , 497, 3674-3693	3
1063	Planetary candidates transiting cool dwarf stars from campaigns 12 to 15 of K2. 2020 , 499, 5416-5441	3
1062	Leveraging HST with MUSE II. Sodium abundance variations within the 2-Gyr-old cluster NGC 1978. 2020 , 498, 4472-4480	6
1061	A revisit of PSR J1909B744 with 15-yr high-precision timing. 2020 , 499, 2276-2291	11
1060	Gaia DR2 giants in the Galactic dust II. Reddening across the whole dust layer and some properties of the giant clump. 2020 , 500, 2590-2606	5
1059	Convective differential rotation in stars and planets III. Observational and numerical tests. 2020 , 498, 3782-3806	1
1058	Stellar wind models of central stars of planetary nebulae. 2020 , 635, A173	4
1057	Gravitational waves from in-spirals of compact objects in binary common-envelope evolution. 2020 , 493, 4861-4867	10
1056	Time-dependent radiation hydrodynamics on a moving mesh. 2020 , 493, 5397-5407	5
1055	The solar abundance problem and eMSTOs in clusters. 2020 , 641, A73	4
1054	Massive donors in interacting binaries: effect of metallicity. 2020 , 638, A55	30
1053	Systematic investigation of the effect of ^{56}Ni mixing in the early photospheric velocity evolution of stripped-envelope supernovae. 2020 , 497, 1619-1626	3
1052	UV Spectroscopy of Massive Stars. 2020 , 8, 60	1
1051	Is HR 6819 a triple system containing a black hole?. 2020 , 641, A43	25

1050	The Recent Research Progress of Exoplanets of Ultra-Short Periods. 2020 , 44, 283-312	0
1049	Helium White Dwarf-main Sequence Star Merger and Formation of Pulsating Hot Subdwarf Stars. 2020 , 44, 325-333	
1048	First inverse kinematics study of the $\text{Ne}^{22}(p,\text{n})\text{Na}^{23}$ reaction and its role in AGB star and classical nova nucleosynthesis. 2020 , 102,	1
1047	Shock breakouts from red supergiants: analytical and numerical predictions. 2020 , 494, 3927-3936	8
1046	The ecological impact of high-performance computing in astrophysics. 2020 , 4, 819-822	18
1045	Asteroseismology of 36 Kepler subgiants II. Determining ages from detailed modelling. 2020 , 495, 3431-3462	17
1044	Faint rapid red transients from neutron star-O white dwarf mergers. 2020 , 493, 3956-3965	10
1043	A study of type I X-ray bursts from an NS accreting pure helium. 2020 , 20, 049	3
1042	The influence of line opacity treatment in stella on supernova light curves. 2020 , 499, 4312-4324	3
1041	Unified description of interactions and energy loss of particles in dense matter and plasmas. 2020 , 102,	3
1040	Eclipses of continuous gravitational waves as a probe of stellar structure. 2020 , 101,	4
1039	Status of the $\text{Mg}^{24}(\text{p},\text{n})\text{Si}^{28}$ reaction rate at stellar temperatures. 2020 , 102,	3
1038	Moving and reactive boundary conditions in moving-mesh hydrodynamics. 2020 , 494, 4616-4626	2
1037	Photometric properties of reionization-epoch galaxies in the simba simulations. 2020 , 494, 5636-5651	10
1036	Low-energy core-collapse supernovae in the frame of the jittering jets explosion mechanism. 2020 , 494, 5902-5908	5
1035	The sensitivity of presupernova neutrinos to stellar evolution models. 2020 , 496, 3961-3972	0
1034	A holistic and probabilistic approach to the ground-based and spaceborne data of HAT-P-19 system. 2020 , 496, 4174-4190	4
1033	Tidal evolution of eccentric binaries driven by convective turbulent viscosity. 2020 , 496, 3767-3780	7

1032	Eccentric grazing envelope evolution towards Type 11b supernova progenitors. 2020 , 497, 855-864	1
1031	Convection and spin-up during common envelope evolution: the formation of short-period double white dwarfs. 2020 , 497, 1895-1903	9
1030	Properties of the post in-spiral common envelope ejecta II: dust formation. 2020 , 497, 3166-3179	7
1029	The impact of composition choices on solar evolution: age, helio- and asteroseismology, and neutrinos. 2020 , 498, 1992-2000	4
1028	Stellar initial mass function variation in massive early-type galaxies: the potential role of the deuterium abundance. 2020 , 498, 4051-4059	1
1027	Gaia DR2 giants in the Galactic dust III. Application of the reddening maps and models. 2020 , 500, 2607-2619	2
1026	The GOGREEN survey: post-infall environmental quenching fails to predict the observed age difference between quiescent field and cluster galaxies at $z > 1$. 2020 , 498, 5317-5342	14
1025	Leveraging HST with MUSE: II. Na-abundance variations in intermediate age star clusters. 2020 , 499, 1200-1211	1
1024	Detection of tidal tails around the open cluster M 67 using principal component analysis. 2020 , 72,	4
1023	On the role of reduced wind mass-loss rate in enabling exoplanets to shape planetary nebulae. 2020 , 496, 612-619	5
1022	Tidal dissipation in evolving low-mass and solar-type stars with predictions for planetary orbital decay. 2020 , 498, 2270-2294	30
1021	Investigation of near-contact semi-detached binary WUMi through observations and evolutionary models. 2020 , 20, 052	0
1020	Hot subdwarf B stars with neutron star components. 2020 , 634, A126	4
1019	Structure of a massive common envelope in the common-envelope wind model for Type Ia supernovae. 2020 , 633, A41	0
1018	Close Binary Companions to APOGEE DR16 Stars: 20,000 Binary-star Systems Across the Color-Magnitude Diagram. 2020 , 895, 2	44
1017	Three-dimensional core-collapse supernova simulations of massive and rotating progenitors. 2020 , 494, 4665-4675	32
1016	The pulsation properties of β Bootis stars I. the southern TESS sample. 2020 , 495, 1888-1912	4
1015	Asteroseismology of luminous red giants with Kepler I: long-period variables with radial and non-radial modes. 2020 , 493, 1388-1403	10

1014	Very regular high-frequency pulsation modes in young intermediate-mass stars. 2020 , 581, 147-151	22
1013	Discovery and Rapid Follow-up Observations of the Unusual Type II SN 2018ivc in NGC 1068. 2020 , 895, 31	7
1012	Carbon/Oxygen Classical Novae Are Galactic ^7Li Producers as well as Potential Supernova Ia Progenitors. 2020 , 895, 70	29
1011	The binary evolution of SAX J1808.4B658: implications of an evolved donor star. 2020 , 495, 796-805	0
1010	Relevance of the small frequency separation for asteroseismic stellar age, mass, and radius. 2020 , 635, A77	1
1009	Burst-induced coronal cooling in GS 1826B. 2020 , 634, A58	1
1008	Mode identification in three pulsating hot subdwarfs observed with TESS satellite. 2020 , 495, 2844-2857	8
1007	Application of the screened Coulomb potential to fit the DA-type variable star HS 0507 + 0434B. 2020 , 495, 2428-2435	2
1006	The Gaia/Kepler Stellar Properties Catalog. I. Homogeneous Fundamental Properties for 186,301 Kepler Stars. 2020 , 159, 280	79
1005	TESS Reveals HD 118203 b to be a Transiting Planet. 2020 , 159, 243	8
1004	The Variability of the Star Formation Rate in Galaxies. I. Star Formation Histories Traced by EW(H β) and EW(H α). 2020 , 892, 87	11
1003	Type IIP Supernova Progenitors. III. Blue to Red Supergiant Ratio in Low-metallicity Models with Convective Overshoot. 2020 , 894, 118	1
1002	The single-sided pulsator CO Camelopardalis. 2020 , 494, 5118-5133	20
1001	A Pre-main-sequence Dor-Bct Hybrid with Extremely Slow Internal Rotation in a Short-period Eclipsing Binary KIC 9850387 Revealed by Asteroseismology. 2020 , 895, 124	6
1000	Theoretical investigation of the Humphreys-Davidson limit at high and low metallicity. 2020 , 635, A175	9
999	TESS Asteroseismic Analysis of the Known Exoplanet Host Star HD 222076. 2020 , 896, 65	8
998	Sensitivity of the lower edge of the pair-instability black hole mass gap to the treatment of time-dependent convection. 2020 , 493, 4333-4341	37
997	Solar luminosity bounds on mirror matter. 2020 , 101,	2

996	Asteroseismic Modeling of Gravity Modes in Slowly Rotating A/F Stars with Radiative Levitation. 2020 , 895, 51	10
995	General relativistic hydrodynamics on a moving-mesh I: static spacetimes. 2020 , 496, 206-214	1
994	Determining the size of the helium core of KIC 9970396 using asteroseismology: a red giant approaching the red giant bump. 2020 , 494, 511-528	1
993	On the Formation of PSR J1640+2224: A Neutron Star Born Massive?. 2020 , 892, 4	16
992	The MUSE-Faint survey. 2020 , 635, A107	11
991	Contribution from stars stripped in binaries to cosmic reionization of hydrogen and helium. 2020 , 634, A134	19
990	PSR J1012+5307: a millisecond pulsar with an extremely low-mass white dwarf companion. 2020 , 494, 4031-4042	10
989	snapshot: connections between internal and surface properties of massive stars. 2020 , 495, 4659-4680	11
988	Type Ia supernovae from non-accreting progenitors. 2020 , 635, A72	5
987	Centrifugally driven mass-loss and outbursts of massive stars. 2020 , 495, 249-265	8
986	DES16C3cje: A low-luminosity, long-lived supernova. 2020 , 496, 95-110	5
985	An Alternative Interpretation of GW190412 as a Binary Black Hole Merger with a Rapidly Spinning Secondary. 2020 , 895, L28	31
984	Core magnetic field imprint in the non-radial oscillations of red giant stars. 2020 , 496, 620-628	1
983	An update on fine-tunings in the triple-alpha process. 2020 , 56, 1	8
982	The First Ultracompact Roche Lobe Filling Hot Subdwarf Binary. 2020 , 891, 45	29
981	Limits on Mode Coherence in Pulsating DA White Dwarfs Due to a Nonstatic Convection Zone. 2020 , 890, 11	7
980	The Stars in M15 Were Born with the r-process. 2020 , 891, L13	5
979	A new mass-loss rate prescription for red supergiants. 2020 , 492, 5994-6006	38

978	SN 2016gsd: an unusually luminous and linear Type II supernova with high velocities. 2020 , 493, 1761-1781	5
977	Differential rotation in convective envelopes: constraints from eclipsing binaries. 2020 , 491, 690-707	2
976	Circumstellar CO J = 3-2 detected around the evolving metal-poor ([Fe/H] \approx -1.15 dex) AGB star RU Vulpeculae. 2020 , 491, 1174-1189	2
975	Probing Time-Dependent Fundamental Constants with Nucleosynthesis in Population III Stars. 2020 , 12, 404	0
974	Mirror principle and the red-giant bump: the battle of entropy in low-mass stars. 2020 , 492, 5940-5948	2
973	Type IIP Supernova Progenitors. II. Stellar Mass and Obscuration by the Dust in the Circumstellar Medium. 2020 , 889, 86	1
972	How to discover Mirror Stars. 2020 , 804, 135391	10
971	The Aarhus red giants challenge. 2020 , 635, A164	18
970	Possible Formation Scenarios of ZTF J153932.16+502738.8 A Gravitational Source Close to the Peak of LISA B Sensitivity. 2020 , 890, 69	3
969	The Structure and Evolution of Massive Rotating Single and Binary Population III Stars. 2020 , 892, 41	2
968	Asteroseismology of evolved stars to constrain the internal transport of angular momentum. 2020 , 634, L16	10
967	On the Formation of SS433. 2020 , 896, 34	1
966	Tidal Asteroseismology: Possible Evidence of Nonlinear Mode Coupling in an Equilibrium State in Kepler Eclipsing Binary KIC 3230227. 2020 , 896, 161	5
965	Coupled Thermal and Compositional Evolution of Photoevaporating Planet Envelopes. 2020 , 896, 48	14
964	The Value of Progenitor Radius Measurements for Explosion Modeling of Type II-Plateau Supernovae. 2020 , 895, L45	14
963	Hydrodynamics of core-collapse supernovae and their progenitors. 2020 , 6, 1	44
962	Long-term evolution of a magnetic massive merger product. 2020 , 495, 2796-2812	14
961	The effect of dark matter on stars at the Galactic center: The paradox of youth problem. 2020 , 29, 2050052	2

960	Relative importance of convective uncertainties in massive stars. 2020 , 496, 1967-1989	17
959	Debris Disk Results from the Gemini Planet Imager Exoplanet Survey's Polarimetric Imaging Campaign. 2020 , 160, 24	18
958	Is Betelgeuse the Outcome of a Past Merger?. 2020 , 896, 50	6
957	Formation of Carbon-Enhanced Metal-Poor RR Lyrae Stars. 2020 , 44, 61-69	
956	The expansion of stripped-envelope stars: Consequences for supernovae and gravitational-wave progenitors. 2020 , 637, A6	37
955	Tidal Inflation Reconciles Low-density Sub-Saturns with Core Accretion. 2020 , 897, 7	12
954	An accurate and efficient numerical calculation of detonation waves in multidimensional supernova simulations using a burning limiter and adaptive quasi-statistical equilibrium. 2020 , 493, 5413-5433	7
953	Orbital Decay in High-Mass X-Ray Binaries. 2020 , 64, 425-433	1
952	Dispersal of protoplanetary discs by the combination of magnetically driven and photoevaporative winds. 2020 , 492, 3849-3858	14
951	The Formation of a 70 M \odot Black Hole at High Metallicity. 2020 , 890, 113	35
950	A Massive Star's Dying Breaths: Pulsating Red Supergiants and Their Resulting Type IIP Supernovae. 2020 , 891, 15	7
949	The C/O ratio of He-accreting carbon-oxygen white dwarfs and type Ia supernovae. 2020 , 20, 003	2
948	The WAGGS project-III. Discrepant mass-to-light ratios of Galactic globular clusters at high metallicity. 2020 , 492, 3859-3871	8
947	High-redshift JWST predictions from IllustrisTNG: dust modelling and galaxy luminosity functions. 2020 , 492, 5167-5201	48
946	The stellar photosphere-hydrogen ionization front interaction in classical pulsators: a theoretical explanation for observed period-colour relations. 2020 , 493, 29-47	3
945	Applications of Stellar Population Synthesis in the Distant Universe. 2020 , 8, 6	3
944	Population Synthesis of Helium White Dwarf-Red Giant Star Mergers and the Formation of Lithium-rich Giants and Carbon Stars. 2020 , 889, 33	7
943	Neutrino luminosity of stars with different masses. 2020 , 20, 005	1

942	Detection of pristine circumstellar material from the Cassiopeia A supernova progenitor. 2020 , 4, 584-589	3
941	Pulsation in faint blue stars. 2020 , 492, 232-244	7
940	The effects of surface fossil magnetic fields on massive star evolution III. Implementation of magnetic braking in mesa and implications for the evolution of surface rotation in OB stars. 2020 , 493, 518-535	15
939	The nature of the NGC 2546: Not one but two open clusters. 2020 , 633, A146	2
938	Pulsational Pair-instability Supernovae. II. Neutrino Signals from Pulsations and Their Detection by Terrestrial Neutrino Detectors. 2020 , 889, 75	5
937	Impact of the Rotation and Compactness of Progenitors on the Mass of Black Holes. 2020 , 888, 76	50
936	Constraining dark photon properties with Asteroseismology. 2020 , 491, 409-416	2
935	Pulsational properties of ten new slowly pulsating B stars. 2020 , 633, A122	4
934	The young stellar content of the giant H II regions M 8, G333.60.2, and NGC 6357 with VLT/KMOS. 2020 , 633, A155	3
933	Why binary interaction does not necessarily dominate the formation of Wolf-Rayet stars at low metallicity. 2020 , 634, A79	28
932	Radiation hydrodynamical simulations of eruptive mass loss from progenitors of Type Ibn/IIn supernovae. 2020 , 635, A127	11
931	Signatures of mirror stars. 2020 , 2020, 1	14
930	An extremely energetic supernova from a very massive star in a dense medium. 2020 , 4, 893-899	19
929	Modelling gas evacuation mechanisms in present-day globular clusters: stellar winds from evolved stars and pulsar heating. 2020 , 491, 4602-4614	3
928	The uncertain masses of progenitors of core-collapse supernovae and direct-collapse black holes. 2020 , 494, L53-L58	18
927	WASP-4 Is Accelerating toward the Earth. 2020 , 893, L29	18
926	3D hydrodynamic simulations of C ingestion into a convective O shell. 2020 , 491, 972-992	20
925	A 3D Radiation Hydrodynamic AGB Binary Model. 2020 , 892, 110	14

924	Comments on numerical stability of detonations in white dwarf simulations. 2020 , 491, 3760-3766	2
923	The origin of spin in binary black holes. 2020 , 635, A97	87
922	Missing red supergiants and carbon burning. 2020 , 492, 2578-2587	29
921	Constraining Type Ia supernova progenitor systems with stellar population age dating. 2020 , 493, 986-1002	7
920	Distorted surfaces of magnetic helium-peculiar stars: an application to α Cen. 2020 , 493, 2140-2148	2
919	Fingerprints of giant planets in the composition of solar twins. 2020 , 493, 5079-5088	16
918	Mass transfer of low-mass binaries and chemical anomalies among unevolved stars in globular clusters. 2020 , 493, 5479-5488	2
917	Most lithium-rich low-mass evolved stars revealed as red clump stars by asteroseismology and spectroscopy. 2021 , 5, 86-93	12
916	Scaling relations for width of the power excess of stellar oscillations. 2021 , 84, 101522	1
915	Differential Modeling Systematics across the HR Diagram from Asteroseismic Surface Corrections. 2021 , 906, 54	3
914	Absolute physical parameters of three poorly studied detached eclipsing binaries. 2021 , 21, 022	
913	Capture rate of weakly interacting massive particles (WIMPs) in binary star systems. 2021 , 503, 458-471	0
912	Observing and modelling the young solar analogue EK Draconis: starspot distribution, elemental abundances, and evolutionary status. 2021 , 502, 3343-3356	3
911	The K2 M67 Study: Precise Mass for a Turnoff Star in the Old Open Cluster M67. 2021 , 161, 59	2
910	A precise asteroseismic age and metallicity for HD 139614: a pre-main-sequence star with a protoplanetary disc in Upper Centaurus-Lupus. 2021 , 502, 1633-1646	15
909	Multiple Stellar Populations at Less-evolved Stages: Detection of Chemical Variations among Main-sequence Dwarfs in NGC 1978. 2021 , 906, 133	4
908	Evolutionary Models for the Remnant of the Merger of Two Carbon-Oxygen Core White Dwarfs. 2021 , 906, 53	19
907	Age dissection of the Milky Way discs: Red giants in the Kepler field. 2021 , 645, A85	31

906	Probing the interior physics of stars through asteroseismology. 2021 , 93,	47
905	Formation Channels of Single and Binary Stellar-Mass Black Holes. 2021 , 1-65	6
904	Red Supergiants in M31 and M33. I. The Complete Sample. 2021 , 907, 18	9
903	Multiple Stellar Populations along the Red Horizontal Branch and Red Clump of Globular Clusters. 2021 , 906, 76	10
902	Optically thin circumstellar medium in the μ Lyr A system. 2021 , 645, A51	4
901	A relation between the radial velocity dispersion of young clusters and their age. 2021 , 645, L10	5
900	Five percent measurement of the gravitational constant in the Large Magellanic Cloud. 2021 , 103,	1
899	OUP accepted manuscript.	2
898	Gaia-based Isochronal, Kinematic, and Spatial Analysis of the χ Cha Association. 2021 , 161, 87	1
897	Twin stars as tracers of binary evolution in the Kepler era. 2021 , 503, 1036-1050	
896	Stromlo Stellar Tracks: Non-solar-scaled Abundances for Massive Stars. 2021 , 908, 241	5
895	An extended halo around an ancient dwarf galaxy. 2021 , 5, 392-400	10
894	Novel Probes Project: Tests of gravity on astrophysical scales. 2021 , 93,	18
893	Rotation of the convective core in χ Dor stars measured by dips in period spacings of g modes coupled with inertial modes. 2021 , 502, 5856-5874	12
892	Analytic, dust-independent mass-loss rates for red supergiant winds initiated by turbulent pressure. 2021 , 646, A180	2
891	Comparison between the first and second mass eruptions from progenitors of Type IIIn supernovae. 2021 , 646, A118	5
890	Physics and evolution of the most massive stars in 30 Doradus. 2021 , 647, A13	5
889	Synthetic observables for electron-capture supernovae and low-mass core collapse supernovae. 2021 , 503, 797-814	2

888	BAT99 126: A multiple Wolf-Rayet system in the Large Magellanic Cloud with a massive near-contact binary. 2021 , 646, A33	2
887	On the origin of nitrogen at low metallicity. 2021 , 502, 4359-4376	6
886	Solar dynamo cycle variations with a rotational period. 2021 , 502, 2565-2581	3
885	Stability and pulsation of the first dark stars. 2021 , 503, 3677-3691	0
884	Populations of super-soft X-ray sources in galaxies of different morphological types. 2021 , 646, A85	2
883	Stellar chromospheric activity of 1674 FGK stars from the AMBRE-HARPS sample. 2021 , 646, A77	4
882	Wind Mass-loss Rates of Stripped Stars Inferred from Cygnus X-1. 2021 , 908, 118	18
881	An Unsupervised Method for Identifying X-enriched Stars Directly from Spectra: Li in LAMOST. 2021 , 908, 247	2
880	3D1D hydro-nucleosynthesis simulations II. Advective-reactive post-processing method and its application to H ingestion into He-shell flash convection in rapidly accreting white dwarfs. 2021 , 504, 744-760	3
879	Dynamical Masses and Stellar Evolutionary Model Predictions of M Stars. 2021 , 908, 42	5
878	The excess of cool supergiants from contemporary stellar evolution models defies the metallicity-independent Humphreys-Davidson limit. 2021 , 503, 1884-1896	4
877	Horizontal shear instabilities in rotating stellar radiation zones. 2021 , 646, A64	5
876	Measuring Distances to Low-luminosity Galaxies Using Surface Brightness Fluctuations. 2021 , 908, 24	15
875	θ Eri: a bright pulsating magnetic Bp star in a 5.95-d double-lined spectroscopic binary. 2021 , 502, 5200-5209	0
874	Evolved massive stars at low-metallicity. 2021 , 646, A141	4
873	A stripped-companion origin for Be stars: clues from the putative black holes HR 6819 and LB-1. 2021 , 502, 3436-3455	19
872	A ~75 per cent occurrence rate of debris discs around F stars in the β Pic moving group. 2021 , 502, 5390-5416	6
871	The Process of Stellar Tidal Disruption by Supermassive Black Holes. 2021 , 217, 1	3

870	SPECIES. 2021 , 647, A157	1
869	On the Progenitors of AM CVn Stars as LISA Sources: The Evolved Donor Star Channel. 2021 , 910, 22	6
868	Thermonuclear explosion of a massive hybrid HeCO white dwarf triggered by a He detonation on a companion. 2021 , 503, 4734-4747	12
867	Towards a fully consistent Milky Way disk model. 2021 , 647, A39	2
866	Seismic constraints on the internal structure of evolved stars: From high-luminosity RGB to AGB stars.	0
865	Stellar Evolution in AGN Disks. 2021 , 910, 94	22
864	He-shell flashes on the surface of oxygen-neon white dwarfs. 2021 , 21, 034	1
863	New mass-loss rates of B supergiants from global wind models. 2021 , 647, A28	1
862	The Swan: Data-driven Inference of Stellar Surface Gravities for Cool Stars from Photometric Light Curves. 2021 , 161, 170	2
861	Radio observations of massive stars in the Galactic centre: The Arches Cluster. 2021 , 647, A110	3
860	Searching for Low-mass Population III Stars Disguised as White Dwarfs. 2021 , 161, 197	1
859	How does the mass and activity history of the host star affect the population of low-mass planets?. 2021 , 504, 2034-2050	5
858	Enhancement of lithium in red clump stars by the additional energy loss induced by new physics. 2021 , 503, 2746-2753	7
857	A Theoretical Framework for the Mass Distribution of Gas Giant Planets Forming through the Core Accretion Paradigm. 2021 , 909, 1	3
856	The effects of surface fossil magnetic fields on massive star evolution III. The case of β Sco. 2021 , 504, 2474-2492	2
855	Simulating the formation of η Carinae's surrounding nebula through unstable triple evolution and stellar merger-induced eruption. 2021 , 503, 4276-4296	11
854	On the Impact of ^{22}Ne on the Pulsation Periods of Carbon-Oxygen White Dwarfs with Helium-dominated Atmospheres. 2021 , 910, 24	2
853	Tidal dissipation impact on the eccentric onset of common envelope phases in massive binary star systems. 2021 , 503, 5569-5582	6

852	Maximum black hole mass across cosmic time. 2021 , 504, 146-154	33
851	Warm millimetre dust in protoplanetary discs near massive stars. 2021 , 503, 4172-4182	4
850	The APOGEE Library of Infrared SSP Templates (A-LIST): High-resolution Simple Stellar Population Spectral Models in the H Band. 2021 , 161, 167	3
849	Photoevaporative Dispersal of Protoplanetary Disks around Evolving Intermediate-mass Stars. 2021 , 909, 109	6
848	Direct detection of atomic dark matter in white dwarfs. 2021 , 2021, 1	2
847	Convective Overshooting in the Envelopes of A-type Stars Using the k-Model. 2021 , 910, 34	1
846	SN 2013ai: A Link between Hydrogen-rich and Hydrogen-poor Core-collapse Supernovae. 2021 , 909, 145	2
845	The Effect of Circumstellar Matter on the Double-peaked Type Ic Supernovae and Implications for LSQ14efd, iPTF15dtg, and SN 2020bvc. 2021 , 910, 68	3
844	TESS Delivers Five New Hot Giant Planets Orbiting Bright Stars from the Full-frame Images. 2021 , 161, 194	5
843	Variability of newly identified B-type stars observed by Kepler. 2021 , 503, 5894-5928	9
842	Flipping spins in mass transferring binaries and origin of spin-orbit misalignment in binary black holes. 2021 , 103,	11
841	The impact of mass-transfer physics on the observable properties of field binary black hole populations. 2021 , 647, A153	38
840	The effects of asymmetric dark matter on stellar evolution II. Spin-dependent scattering. 2021 , 503, 5611-5623	5
839	Searching for solar-like oscillations in pre-main sequence stars using APOLLO. 2021 , 647, A168	1
838	Formation of millisecond pulsars with helium white dwarfs, ultra-compact X-ray binaries, and gravitational wave sources. 2021 , 503, 3540-3551	8
837	Cygnus X-1 contains a 21-solar mass black hole-Implications for massive star winds. 2021 , 371, 1046-1049	43
836	Probing the internal magnetism of stars using asymptotic magneto-asteroseismology. 2021 , 647, A122	5
835	The effect of aspherical stellar wind of giant stars on the symbiotic channel of Type Ia supernovae. 2021 , 503, 4061-4074	1

834	TIC 168789840: A Sextuply Eclipsing Sextuple Star System. 2021 , 161, 162	17
833	Non-local Thermodynamic Equilibrium Radiative Transfer Simulations of Sub-Chandrasekhar-mass White Dwarf Detonations. 2021 , 909, L18	13
832	The Epoch of Giant Planet Migration Planet Search Program. I. Near-infrared Radial Velocity Jitter of Young Sun-like Stars. 2021 , 161, 173	3
831	Evolution of LMXBs under Different Magnetic Braking Prescriptions. 2021 , 909, 174	11
830	The role of mass transfer and common envelope evolution in the formation of merging binary black holes. 2021 ,	17
829	R Coronae Borealis Star Evolution: Simulating 3D Merger Events to 1D Stellar Evolution Including Large-scale Nucleosynthesis. 2021 , 911, 103	5
828	The double-peaked Type Ic supernova 2019cad: another SN 2005bf-like object. 2021 , 504, 4907-4922	4
827	Eclipsing Systems with Pulsating Components (Types δ Cep, δ Sct, δ Dor or Red Giant) in the Era of High-Accuracy Space Data. 2021 , 9, 28	2
826	Rotationally and tidally distorted compact stars. 2021 , 648, A111	1
825	The origin and evolution of magnetic white dwarfs in close binary stars. 2021 , 5, 648-654	10
824	One Channel to Rule Them All? Constraining the Origins of Binary Black Holes Using Multiple Formation Pathways. 2021 , 910, 152	72
823	Inertial and gravity wave transmissions near radiative-convective boundaries. 2021 , 916,	1
822	Dynamical masses and mass-to-light ratios of resolved massive star clusters III. Results for 26 star clusters in the Magellanic Clouds. 2021 , 504, 4160-4191	4
821	Massive Star Modeling and Nucleosynthesis. 8,	0
820	AGB Winds with Gas-Dust Drift in Stellar Evolution Codes. 2021 , 7, 113	0
819	The Role of Strong Gravity and the Nuclear Equation of State on Neutron-star Common-envelope Accretion. 2021 , 910, L22	2
818	Milky Way archaeology using RR Lyrae and type II Cepheids. 2021 , 648, A78	7
817	Solar structure and evolution. 2021 , 18, 1	15

816	Convective core sizes in rotating massive stars. 2021 , 648, A126	9
815	Analytic Estimates of the Achievable Precision on the Physical Properties of Transiting Planets Using Purely Empirical Measurements. 2021 , 911, 84	0
814	Exoplanet Population Synthesis with Account for Orbit Variation Due to Stellar Evolution. 2021 , 65, 246-268	0
813	Mass Ejection in Failed Supernovae: Equation of State and Neutrino Loss Dependence. 2021 , 911, 6	9
812	A comparison of the dynamical and model-derived parameters of the pulsating eclipsing binary KIC 9850387. 2021 , 648, A91	3
811	Validation of the Gaia Early Data Release 3 Parallax Zero-point Model with Asteroseismology. 2021 , 161, 214	18
810	Fundamental properties of stars from Kepler and Gaia data: parallax offset and revised scaling relations. 2021 , 504, 2273-2285	1
809	MESA Models with Magnetic Braking. 2021 , 912, 65	3
808	Evolution of Wolf-Rayet stars as black hole progenitors. 2021 , 505, 4874-4889	8
807	Post-merger evolution of double helium white dwarfs and distribution of helium-rich hot subdwarfs. 2021 , 504, 2670-2674	0
806	Luminous Type II Short-Plateau Supernovae 2006Y, 2006ai, and 2016egz: A Transitional Class from Stripped Massive Red Supergiants. 2021 , 913, 55	5
805	Calibration of the H α Activity Relation for M Dwarfs. 2021 , 161, 277	8
804	Skye: A Differentiable Equation of State. 2021 , 913, 72	8
803	Stellar Rotation in the K2 Sample: Evidence for Modified Spin-down. 2021 , 913, 70	7
802	A revisited study of Cepheids in open clusters in the Gaia era. 2021 , 505, 1342-1366	5
801	Measuring Young Stars in Space and Time. I. The Photometric Catalog and Extinction Properties of N44. 2021 , 161, 256	1
800	Star Formation Timescales of the Halo Populations from Asteroseismology and Chemical Abundances*. 2021 , 912, 72	2
799	Hierarchically modelling Kepler dwarfs and subgiants to improve inference of stellar properties with asteroseismology. 2021 , 505, 2427-2446	1

798	The Role of Core-collapse Physics in the Observability of Black Hole Neutron Star Mergers as Multimessenger Sources. 2021 , 912, L23	11
797	Progenitor mass constraints for the type Ib intermediate-luminosity SN 2015ap and the highly extinguished SN 2016bau. 2021 , 505, 2530-2547	3
796	A binary with a δ Scuti star and an oscillating red giant: orbit and asteroseismology of KIC 9773821. 2021 , 505, 2336-2348	1
795	LAMOST J0140355 + 392651: an evolved cataclysmic variable donor transitioning to become an extremely low-mass white dwarf. 2021 , 505, 2051-2073	2
794	Deep Extragalactic Visible Legacy Survey (DEVILS): SED fitting in the D10-COSMOS field and the evolution of the stellar mass function and SFRM? relation. 2021 , 505, 540-567	11
793	The evolution of primary stars ($30M_{\odot}$) in massive close binary systems. 2021 , 75, 1	1
792	Tracking the Evolution of Lithium in Giants Using Asteroseismology: Super-Li-rich Stars Are Almost Exclusively Young Red-clump Stars. 2021 , 913, L4	4
791	Screened fifth forces lower the TRGB-calibrated Hubble constant too. 2020 , 102,	16
790	New physics and the black hole mass gap. 2020 , 102,	13
789	Modified gravity and the black hole mass gap. 2020 , 102,	7
788	Penetration of a cooling convective layer into a stably-stratified composition gradient: Entrainment at low Prandtl number. 2020 , 5,	5
787	X-Ray Searches for Axions from Super Star Clusters. 2020 , 125, 261102	16
786	Beyond the Standard Model Explanations of GW190521. 2020 , 125, 261105	27
785	Population Synthesis of Ultraluminous X-ray Sources with Magnetized Neutron Stars. 2020 , 46, 658-676	3
784	Asteroseismology of High-Mass Stars: New Insights of Stellar Interiors With Space Telescopes. 2020 , 7,	21
783	NEUTRONIZATION DURING CARBON SIMMERING IN TYPE IA SUPERNOVA PROGENITORS. 2016 , 825, 57	23
782	Radial Velocity Discovery of an Eccentric Jovian World Orbiting at 18 au. 2019 , 158, 181	15
781	XO-7 b: A Transiting Hot Jupiter with a Massive Companion on a Wide Orbit. 2020 , 159, 44	2

780	The TESS Keck Survey. I. A Warm Sub-Saturn-mass Planet and a Caution about Stray Light in TESS Cameras. 2020 , 159, 241	16
779	TIC 278956474: Two Close Binaries in One Young Quadruple System Identified by TESS. 2020 , 160, 76	8
778	PTFO 8-8695: Two Stars, Two Signals, No Planet. 2020 , 160, 86	4
777	KELT-25 b and KELT-26 b: A Hot Jupiter and a Substellar Companion Transiting Young A Stars Observed by TESS*. 2020 , 160, 111	12
776	The Gaia Kepler Stellar Properties Catalog. II. Planet Radius Demographics as a Function of Stellar Mass and Age. 2020 , 160, 108	55
775	TOI 694b and TIC 220568520b: Two Low-mass Companions near the Hydrogen-burning Mass Limit Orbiting Sun-like Stars. 2020 , 160, 133	8
774	The K2 and TESS Synergy. I. Updated Ephemerides and Parameters for K2-114, K2-167, K2-237, and K2-261. 2020 , 160, 209	9
773	Cluster Difference Imaging Photometric Survey. II. TOI 837: A Young Validated Planet in IC 2602. 2020 , 160, 239	15
772	Nondetection of Helium in the Upper Atmospheres of Three Sub-Neptune Exoplanets. 2020 , 160, 258	19
771	Low-mass White Dwarfs with Hydrogen Envelopes as a Missing Link in the Tidal Disruption Menu. 2017 , 841, 132	27
770	Structure and Evolution of Internally Heated Hot Jupiters. 2017 , 844, 94	27
769	Three-dimensional Hydrodynamical Simulations of Mass Transfer in Binary Systems by a Free Wind. 2017 , 846, 117	27
768	Convective Overshooting in Low-mass Stars Using the k l Model. 2019 , 879, 86	4
767	EVR-CB-001: An Evolving, Progenitor, White Dwarf Compact Binary Discovered with the Evryscope. 2019 , 883, 51	11
766	Signatures of Magnetic Activity: On the Relation between Stellar Properties and p-mode Frequency Variations. 2019 , 883, 65	4
765	The Impact of Pair-instability Mass Loss on the Binary Black Hole Mass Distribution. 2019 , 882, 121	74
764	Intermediate Luminosity Optical Transients (ILOTs) from Merging Giants. 2019 , 884, 58	7
763	Testing Stellar Evolution with Asteroseismic Inversions of a Main-sequence Star Harboring a Small Convective Core. 2019 , 885, 143	5

762	Nuclear Ignition of White Dwarf Stars by Relativistic Encounters with Rotating Intermediate Mass Black Holes. 2019 , 885, 136	2
761	Collisional N-body Dynamics Coupled to Self-gravitating Magnetohydrodynamics Reveals Dynamical Binary Formation. 2019 , 887, 62	19
760	Remnants of Subdwarf Helium Donor Stars Ejected from Close Binaries with Thermonuclear Supernovae. 2019 , 887, 68	18
759	Star Formation Histories of the LEGUS Dwarf Galaxies. III. The Nonbursty Nature of 23 Star-forming Dwarf Galaxies. 2019 , 887, 112	14
758	PopSyCLE: A New Population Synthesis Code for Compact Object Microlensing Events. 2020 , 889, 31	11
757	Young Stars near Cometary Globule CG 30 in the Tumultuous Gum Nebula. 2020 , 889, 50	3
756	When Does the Onset of Multiple Stellar Populations in Star Clusters Occur? III. No Evidence of Significant Chemical Variations in Main-sequence Stars of NGC 419. 2020 , 893, 17	8
755	MOSEL Survey: Tracking the Growth of Massive Galaxies at $z \approx 2$. 2020 , 893, 23	2
754	Gravitational-wave Radiation of Double Degenerates with Extremely Low-mass White Dwarf Companions. 2020 , 893, 2	9
753	A New Census of the 0.2 μm Galaxy Population. 2020 , 893, 111	22
752	A Comparison of UV and Optical Metallicities in Star-forming Galaxies. 2020 , 893, 1	9
751	Reinflation of Warm and Hot Jupiters. 2020 , 893, 36	15
750	On Stellar Evolution in a Neutrino Hertzprung-Russell Diagram. 2020 , 893, 133	5
749	Probing the Influence of a Tachocline in Simulated M-dwarf Dynamos. 2020 , 893, 107	7
748	Discovery of Tidal Tails around the Old Open Cluster NGC 2506. 2020 , 894, 48	4
747	Detecting Pair-instability Supernovae at $z \approx 5$ with the James Webb Space Telescope. 2020 , 894, 94	7
746	Toward an Accurate Description of an Accretion-induced Collapse and the Associated Ejected Mass. 2020 , 894, 146	4
745	KIC 10736223: An Algol-type Eclipsing Binary That Has Just Undergone the Rapid Mass-transfer Stage. 2020 , 895, 136	11

744	NS 1987A in SN 1987A. 2020 , 898, 125	27
743	Constraining Properties of the Next Nearby Core-collapse Supernova with Multimessenger Signals. 2020 , 898, 139	22
742	Comparing Moment-based and Monte Carlo Methods of Radiation Transport Modeling for Type II-Plateau Supernova Light Curves. 2020 , 898, 29	6
741	COSMIC Variance in Binary Population Synthesis. 2020 , 898, 71	75
740	The Origin of the Bimodal Distribution of Magnetic Fields in Early-type Stars. 2020 , 900, 113	15
739	Semianalytic Expressions for the Isolation and Coupling of Mixed Modes. 2020 , 898, 127	7
738	Nuclear Reaction Screening, Weak Interactions, and r-process Nucleosynthesis in High Magnetic Fields. 2020 , 898, 163	5
737	Population Synthesis of Black Hole X-Ray Binaries. 2020 , 898, 143	8
736	Asteroseismic Analyses of Slowly Pulsating B Star KIC 8324482: Ultraweak Element Mixing beyond the Central Convective Core. 2020 , 899, 38	9
735	MINESweeper: Spectrophotometric Modeling of Stars in the Gaia Era. 2020 , 900, 28	15
734	Torsional Oscillations in Dynamo Models with Fluctuations and Potential for Helioseismic Predictions of the Solar Cycles. 2020 , 900, 26	5
733	Spitzer Follow-up of Extremely Cold Brown Dwarfs Discovered by the Backyard Worlds: Planet 9 Citizen Science Project. 2020 , 899, 123	14
732	The Contour Method: a New Approach to Finding Modes of Nonadiabatic Stellar Pulsations. 2020 , 899, 116	6
731	Common Envelope Wind Tunnel: Range of Applicability and Self-similarity in Realistic Stellar Envelopes. 2020 , 899, 77	4
730	Nuclear Structures of ^{17}O and Time-dependent Sensitivity of the Weak s-process to the $^{16}\text{O}(n,p)^{17}\text{O}$ Rate. 2020 , 899, 133	6
729	Synthetic Spectra of Rotating Stars. 2020 , 901, 100	2
728	Giant Planet Formation Models with a Self-consistent Treatment of the Heavy Elements. 2020 , 900, 133	15
727	The Evolution of Rotation and Magnetic Activity in 94 Aqr Aa from Asteroseismology with TESS. 2020 , 900, 154	8

726	Hydrodynamic Simulations of Pre-supernova Outbursts in Red Supergiants: Asphericity and Mass Loss. 2020 , 900, 99	6
725	On the Development of Multidimensional Progenitor Models for Core-collapse Supernovae. 2020 , 901, 33	13
724	The Art of Modeling Stellar Mergers and the Case of the B[e] Supergiant R4 in the Small Magellanic Cloud. 2020 , 901, 44	4
723	Cool, Luminous, and Highly Variable Stars in the Magellanic Clouds from ASAS-SN: Implications for Thorne-Żytkow Objects and Super-asymptotic Giant Branch Stars. 2020 , 901, 135	7
722	On the Spectral Evolution of Hot White Dwarf Stars. I. A Detailed Model Atmosphere Analysis of Hot White Dwarfs from SDSS DR12. 2020 , 901, 93	61
721	Elimination of the Blue Loops in the Evolution of Intermediate-mass Stars by the Neutrino Magnetic Moment and Large Extra Dimensions. 2020 , 901, 115	4
720	Precollapse Properties of Superluminous Supernovae and Long Gamma-Ray Burst Progenitor Models. 2020 , 901, 114	11
719	SN 2018fif: The Explosion of a Large Red Supergiant Discovered in Its Infancy by the Zwicky Transient Facility. 2020 , 902, 6	3
718	Short-term Variability of Evolved Massive Stars with TESS. II. A New Class of Cool, Pulsating Supergiants. 2020 , 902, 24	6
717	Tidal Disruptions of Main-sequence Stars. IV. Relativistic Effects and Dependence on Black Hole Mass. 2020 , 904, 101	6
716	Tidal Disruptions of Main-sequence Stars. II. Simulation Methodology and Stellar Mass Dependence of the Character of Full Tidal Disruptions. 2020 , 904, 99	17
715	Tidal Disruptions of Main-sequence Stars. III. Stellar Mass Dependence of the Character of Partial Disruptions. 2020 , 904, 100	9
714	Tidal Disruptions of Main-sequence Stars. I. Observable Quantities and Their Dependence on Stellar and Black Hole Mass. 2020 , 904, 98	20
713	Convectively Driven 3D Turbulence in Massive Star Envelopes. I. A 1D Implementation of Diffusive Radiative Transport. 2020 , 902, 67	4
712	Pulsation-driven Mass Loss from Massive Stars behind Stellar Mergers in Metal-poor Dense Clusters. 2020 , 902, 81	2
711	Detailed Characterization of Heartbeat Stars and Their Tidally Excited Oscillations. 2020 , 903, 122	7
710	Multi-gigayear White Dwarf Cooling Delays from Clustering-enhanced Gravitational Sedimentation. 2020 , 902, 93	24
709	EVR-CB-004: An Inflated Hot Subdwarf O Star + Unseen WD Companion in a Compact Binary Discovered with the Evryscope. 2020 , 902, 92	3

708	Double-peaked Balmer Emission Indicating Prompt Accretion Disk Formation in an X-Ray Faint Tidal Disruption Event. 2020 , 903, 31	20
707	Progenitors of Type IIb Supernovae. II. Observable Properties. 2020 , 903, 70	4
706	Standing on the Shoulders of Giants: New Mass and Distance Estimates for Betelgeuse through Combined Evolutionary, Asteroseismic, and Hydrodynamic Simulations with MESA. 2020 , 902, 63	13
705	Theoretical versus Observational Uncertainties: Composition of Giant Exoplanets. 2020 , 903, 147	10
704	A Model for the Fast Blue Optical Transient AT2018cow: Circumstellar Interaction of a Pulsational Pair-instability Supernova. 2020 , 903, 66	14
703	The breakBRD Breakdown: Using IllustrisTNG to Track the Quenching of an Observationally Motivated Sample of Centrally Star-forming Galaxies. 2020 , 903, 143	1
702	Stars Stripped in Binaries: The Living Gravitational-wave Sources. 2020 , 904, 56	4
701	Measuring Stellar and Black Hole Masses of Tidal Disruption Events. 2020 , 904, 73	12
700	How Well Can We Measure the Stellar Mass of a Galaxy: The Impact of the Assumed Star Formation History Model in SED Fitting. 2020 , 904, 33	32
699	PSR J1641+3627F: A Low-mass He White Dwarf Orbiting a Possible High-mass Neutron Star in the Globular Cluster M13. 2020 , 905, 63	6
698	Stellar Tidal Disruption Events with Abundances and Realistic Structures (STARS): Library of Fallback Rates. 2020 , 905, 141	10
697	A Framework for Relative Biosignature Yields from Future Direct Imaging Missions. 2020 , 905, 108	3
696	A Diversity of Wave-driven Presupernova Outbursts. 2021 , 906, 3	15
695	Forecasting Chemical Abundance Precision for Extragalactic Stellar Archaeology. <i>Astrophysical Journal, Supplement Series</i> , 2020 , 249, 24	8 4
694	Dippers from the TESS Full-frame Images. I. Results of the First One Year Data and Discovery of a Runaway Dipper. <i>Astrophysical Journal, Supplement Series</i> , 2020 , 251, 18	8 8
693	The Complete Evolution of a Neutron-star Binary through a Common Envelope Phase Using 1D Hydrodynamic Simulations. 2019 , 883, L45	64
692	Evolving LMXBs: CARB Magnetic Braking. 2019 , 886, L31	6
691	A New Class of Roche Lobe-filling Hot Subdwarf Binaries. 2020 , 898, L25	19

690	A Helium-flash-induced Mixing Event Can Explain the Lithium Abundances of Red Clump Stars. 2020 , 901, L18	10
689	Intermediate-mass Stars Become Magnetic White Dwarfs. 2020 , 901, L14	7
688	On the Maximum Stellar Rotation to form a Black Hole without an Accompanying Luminous Transient. 2020 , 901, L24	5
687	Single-hemisphere Dynamos in M-dwarf Stars. 2020 , 902, L3	3
686	Constraints from Gravitational-wave Detections of Binary Black Hole Mergers on the Λ CDM H ₀ Rate. 2020 , 902, L36	54
685	The Stellar Merger Scenario for Black Holes in the Pair-instability Gap. 2020 , 904, L13	20
684	Fallback Supernova Assembly of Heavy Binary Neutron Stars and Light Black Hole Neutron Star Pairs and the Common Stellar Ancestry of GW190425 and GW200115. 2021 , 920, L17	4
683	Are there magnetars in high-mass X-ray binaries?.	1
682	Orbital and physical parameters of eclipsing binaries from the ASAS catalogue IXII. A sample of systems with K2 photometry. 2021 , 508, 5687-5708	2
681	Population Synthesis of Black Hole Binaries with Compact Star Companions. 2021 , 920, 81	15
680	Pulsation and Rotation of the EL CVn-type Eclipsing Binary 1SWASP J024743.37-251549.2. 2021 , 162, 212	0
679	TIC 308396022: delta Scuti-gamma Doradus hybrid with large-amplitude radial fundamental mode and regular g-mode period spacing.	0
678	The Final Fates of Close Hot Subdwarf White Dwarf Binaries: Mergers Involving He/C/O White Dwarfs and the Formation of Unusual Giant Stars with C/O-Dominated Envelopes. 2021 , 920, 110	3
677	Progenitors of Long-Duration Gamma-ray Bursts. 2021 , 9, 79	1
676	OO Dra: An Algol-type Binary Formed through an Extremely Helium-poor Mass Accretion Revealed by Asteroseismology. 2021 , 920, 76	0
675	BVRI Photometric Observations, Light Curve Solutions and Orbital Period Analysis of BF Pav. 2021 , 21, 203	1
674	Different to the core: the pre-supernova structures of massive single and binary-stripped stars.	14
673	The COMBS Survey III. The chemodynamical origins of metal-poor bulge stars.	0

- 672 The BAYesian STellar algorithm (BASTA): a fitting tool for stellar studies, asteroseismology, exoplanets, and Galactic archaeology. 1
- 671 Mixed Modes and Asteroseismic Surface Effects. I. Analytic Treatment. **2021**, 920, 8 1
- 670 Models of metal-poor stars with different initial abundances of C, N, O, Mg, and Si. I. bolometric corrections derived from new MARCS synthetic spectra and their implications for observed colour-magnitude diagrams. 0
- 669 Asteroseismology of iota Draconis and Discovery of an Additional Long-period Companion. **2021**, 162, 211 0
- 668 Gravitational lensing of gravitational waves: effect of microlens population in lensing galaxies. **2021**, 508, 4869-4886 4
- 667 PLATO hare-and-hounds exercise: asteroseismic model fitting of main-sequence solar-like pulsators. 1
- 666 Vibrational Instability of Metal-Poor Low-Mass Main-Sequence Stars. **2013**, 17-21
- 665 On the pulsation modes and masses of RGB OSARGs. **2013**, 43, 03013
- 664 Stellar Structure. **2013**, 1-49
- 663 Rotation of Red Giants. **2015**, 71-72, 321-324
- 662 Eccentricity Pumping Through Circumbinary Disks in Hot Subdwarf Binaries. **2015**, 71-72, 207-210
- 661 Evolution of Accreting White Dwarfs to the Thermonuclear Runaway. **2016**, 1-26
- 660 Influence of Non-spherical Initial Stellar Structure on the Core-Collapse Supernova Mechanism. **2016**, 1-13
- 659 Conclusions and Future Work. **2017**, 195-204
- 658 Paper III: Constraining Differential Rotation of Sun-like Stars from Asteroseismic and Starspot Rotation Periods. **2017**, 63-78
- 657 Introduction. **2017**, 1-40
- 656 Constraints on rotation of B-type stars from the nitrogen abundance. **2017**, 152, 06006
- 655 Faint variable stars observed with Kepler. **2017**, 152, 06004

- 654 Pre-supernova Evolution and Nucleosynthesis in Massive Stars and Their Stellar Wind Contribution. **2017**, 1-51
- 653 Characterising Pulsational Non-linearity. **2017**, 141-171
- 652 Three-Dimensional Stellar Obliquities of HAT-P-7 and Kepler-25 from Joint Analysis of Asteroseismology, Transit Light Curve, and the Rossiter-McLaughlin Effect. **2018**, 55-80
- 651 Physical process of tidal synchronization and orbital circularization in rotating binaries. **2018**, 67, 199701
- 650 Water Loss from Young Planets. **2018**, 377-395
- 649 Heavy Elements Nucleosynthesis on Accreting White Dwarfs Surface: Seeding the p-Process. **2019**, 179-182
- 648 Explosive Nucleosynthesis: What We Learned and What We Still Do Not Understand. **2019**, 125-134 1
- 647 Relative Importance of Convective Uncertainties. **2019**, 385-387
- 646 Formation and internal nucleosynthesis in massive rotating Wolf-Rayet stars. **2019**, 68, 219701
- 645 Early Supernova Emission: Logarithmic Corrections to the Planar Phase. **2019**, 884, 41 2
- 644 Spectroscopic and Asteroseismic Analysis of the Secondary Clump Red Giant HD 226808. **2020**, 894, 67 0
- 643 Longitudinal drift of Tayler instability eigenmodes as a possible explanation for super-slowly rotating Ap stars. **2020**, 638, L9 1
- 642 The Explosion and Progenitor Properties of Type IIP Supernovae Inferred from MESA and STELLA Modelling. **2020**, 4,
- 641 Three-dimensional Hydrodynamic Simulations of Convective Nuclear Burning in Massive Stars Near Iron Core Collapse. **2021**, 921, 28 6
- 640 Asteroseismology of SZ Lyn using multiband high time resolution photometry from ground and space. **2021**, 502, 541-555
- 639 The Betelgeuse Project. III. Merger Characteristics. **2020**, 905, 128 1
- 638 Merged white dwarfs and nucleosynthesis. **2020**, 41, 1 0
- 637 HATS-34b and HATS-46b: re-characterization using TESS and Gaia. **2021**, 501, 5393-5407 2

- 636 Mass ratio, the hills mechanism, and the galactic centre S-stars. 2
- 635 The Sun: Light Dark Matter and Sterile Neutrinos. **2020**, 905, 22 1
- 634 The Impact of a Fossil Magnetic Field on Dipolar Mixed-Mode Frequencies in Sub- and Red-Giant Stars. **2020**, 251-257
- 633 Contemplating the Future. **2020**, 335-343
- 632 Laminar Flame Speeds in Degenerate Oxygen-Neon Mixtures. **2020**, 891, 5 1
- 631 Constraining Massive Star Activities in the Final Years through Properties of Supernovae and Their Progenitors. **2020**,
- 630 Apparent Magnitude of Betelgeuse as a Type IIP Supernova. **2020**, 4, 35
- 629 Novel Model of an Ultra-stripped Supernova Progenitor of a Double Neutron Star. **2021**, 920, L36 1
- 628 Establishing HD 97457 as a Prototype Rotator: Precision Orbit with New Keck, CHARA, and RV Observations. **2021**, 921, 41 0
- 627 A Search for Transits among the Delta Scuti Variables in Kepler. **2021**, 162, 204 1
- 626 Close binary evolution based on Gaia DR2. The origin of late WC-type Wolf-Rayet stars with low luminosity. 0
- 625 Upper mass-loss limits and clumping in the intermediate and outer wind regions of OB stars. 0
- 624 The Most Metal-poor Stars in the Magellanic Clouds Are r-process Enhanced*. **2021**, 162, 229 5
- 623 Analysis of TESS field eclipsing binary star V948 Her: a pulsating or non-pulsating star?.
- 622 A strange star scenario for the formation of eccentric millisecond pulsar PSR J1946+3417. **2021**, 21, 231
- 621 Dynamical screening effects on big bang nucleosynthesis. **2021**, 2021, 017
- 620 A database of spectral energy distributions of progenitors of core-collapse supernovae*. **2021**, 21, 213
- 619 Revisiting the explodability of single massive star progenitors of stripped-envelope supernovae. 15

618	BESTP \square An automated Bayesian modeling tool for asteroseismology. 2021 , 21, 226	1
617	Sensitivity of ^{44}Ti and ^{56}Ni Production in Core-collapse Supernova Shock-driven Nucleosynthesis to Nuclear Reaction Rate Variations. 2020 , 898, 5	2
616	KIC 12268220: A \square cuti Pulsating Star and an Active Protohelium White Dwarf in an Eclipsing Binary System. 2020 , 898, 136	1
615	An upgraded interpolator of the radial basis function network for spectral calculation based on empirical stellar spectral library. 2020 , 20, 148	
614	The evolutionary status of chemically peculiar eclipsing binary star DV Boo. 2020 , 20, 150	1
613	TESS asteroseismology of the known planet host star \square Fornacis. 2020 , 641, A25	6
612	A study on tidal disruption event dynamics around an Sgr A*-like massive black hole. 2020 , 642, A111	2
611	Discovery of 18 Stars with \square .10 2020 , 901, 164	1
610	On the Detectability of Large-Scale Flows by Asteroseismology. 7,	
609	CNO Cycle Burning in Ultra-low Metallicity Solar Mass Stars. 2020 , 4, 172	
608	\square Earth: A 3.14 day Earth-sized Planet from K2's Kitchen Served Warm by the SPECULOOS Team. 2020 , 160, 172	2
607	Revisiting the Architecture of the KOI-89 System. 2020 , 160, 224	0
606	Pre-supernova activity as a possible explanation of the peculiar properties of Type IIP supernova 2009kf. 2020 , 500, 1889-1894	1
605	Robust asteroseismic properties of the bright planet host HD \square 38529. 2020 , 499, 6084-6093	3
604	Urca nuclide production in Type-I X-ray bursts and implications for nuclear physics studies. 2020 , 500, 2958-2968	3
603	Asteroseismology of the DAV star R808. 2020 , 500, 4703-4709	
602	The effect of impact parameter on tidal disruption events. 2020 , 501, 1748-1754	0
601	A theoretical framework for BL Her stars \square . Effect of metallicity and convection parameters on period \square luminosity and period \square radius relations. 2020 , 501, 875-891	3

600	Tidally excited oscillations in hot white dwarfs. 2020 , 501, 1836-1851	2
599	Kepler Binary Stars in the NGC 6819 Open Cluster: KIC 5113146 and KIC 5111815. 2020 , 160, 245	2
598	DY Pegasi: An SX Phoenicis Star in a Binary System with an Evolved Companion. 2020 , 904, 5	3
597	Investigation of Photoneutron Reactions Leading to the Production and Decay of the Isotope (^{102}Pd). 2020 , 83, 787-795	
596	TULIPS: A Tool for Understanding the Lives, Interiors, and Physics of Stars. 2022 , 38, 100516	0
595	Modelling multiwavelength emission of Ultra-luminous X-ray Sources accreting above the Eddington limit.	1
594	Lithium Enrichment Signatures of Planetary Engulfment Events in Evolved Stars. 2021 , 162, 273	4
593	Constraining Progenitors of Observed Low-mass X-ray Binaries Using Convection and Rotation-Boosted Magnetic Braking. 2021 , 922, 174	0
592	(Li6, d) and (Li6, t) reactions on Ne22 and implications for s-process nucleosynthesis. 2021 , 104,	0
591	Multidimensional Radiative Transfer Calculations of Double Detonations of Sub-Chandrasekhar-mass White Dwarfs. 2021 , 922, 68	2
590	SCEXAO/CHARIS Direct Imaging of A Low-mass Companion At A Saturn-like Separation from an Accelerating Young A7 Star. 2021 , 162, 251	0
589	EPIC 228782059: Asteroseismology of What Could Be the Coolest Pulsating Helium-atmosphere White Dwarf (DBV) Known. 2021 , 922, 2	2
588	X-Ray Binaries in M51 I: Catalog and Statistics. 2021 , 922, 178	1
587	CubeSpec space mission. I. Asteroseismology of massive stars from time series optical spectroscopy: science requirements and target list prioritisation.	2
586	Testing Evolutionary Models with Red Supergiant and Wolf-Rayet Populations. 2021 , 922, 177	6
585	Detached Shell Carbon Stars: Tracing Thermal Pulses on the Asymptotic Giant Branch. 2021 , 922, 24	1
584	Stellar rotation and its connection to the evolution of hydrogen-dominated atmospheres of exoplanets.	0
583	The Maximum Accreted Mass of Recycled Pulsars. 2021 , 922, 158	1

582	Uncovering astrometric black hole binaries with massive main-sequence companions with Gaia.	0
581	Type II supernovae from the Carnegie Supernova Project-I. I. Bolometric light curves of 74 SNe II using uBgVriYJH photometry.	3
580	Partial, Zombie, and Full Tidal Disruption of Stars by Supermassive Black Holes. 2021 , 922, 168	6
579	Period-change rates in Large Magellanic Cloud Cepheids revisited.	2
578	Dynamical parallax, physical parameters, and evolutionary status of the components of the bright eclipsing binary alpha Draconis.	0
577	TOI-2109: An Ultrahot Gas Giant on a 16 hr Orbit. 2021 , 162, 256	3
576	The Impact of Realistic Red Supergiant Mass Loss on Stellar Evolution. 2021 , 922, 55	4
575	Asteroseismology of a High-amplitude δ Scuti Star GSC 4552-1498: Mode Identification and Model Fitting. 2021 , 922, 199	0
574	Binary Black Hole Formation with Detailed Modeling: Stable Mass Transfer Leads to Lower Merger Rates. 2021 , 922, 110	8
573	Mixed Modes and Asteroseismic Surface Effects. II. Subgiant Systematics. 2021 , 922, 18	1
572	Asteroseismological Analysis of the DAV HS 0507+0434B: The Influence of Chemical Profile on the Pulsation Periods. 2021 , 922, 138	0
571	Discovery, TESS Characterization, and Modeling of Pulsations in the Extremely Low-mass White Dwarf GD 278. 2021 , 922, 220	0
570	Pre-explosion Properties of Helium Star Donors to Thermonuclear Supernovae. 2021 , 922, 241	0
569	Under an iron sky: On the entropy at the start of the Universe. 2021 , 38,	0
568	Numerical simulations of the random angular momentum in convection: Implications for supergiant collapse to form black holes.	5
567	OUP accepted manuscript.	3
566	OUP accepted manuscript.	0
565	Core-collapse supernova from a possible progenitor star of $100 M_{\odot}$. 2022 , 43, 1	0

564	Probing the progenitors of spinning binary black-hole mergers with long gamma-ray bursts. 2022 , 657, L8	5
563	OUP accepted manuscript.	0
562	Simulating the Outcome of a Binary Neutron Star Merger in a Common Envelope Jets Supernova. 2021 , 923, 55	1
561	Black-hole Neutron-star Mergers Are Unlikely Multimessenger Sources. 2021 , 923, L2	6
560	TESS Giants Transiting Giants. I.: A Noninflated Hot Jupiter Orbiting a Massive Subgiant. 2022 , 163, 53	2
559	OUP accepted manuscript.	0
558	Sculpting the Sub-Saturn Occurrence Rate via Atmospheric Mass Loss. 2022 , 924, 9	1
557	Observing Intermediate-mass Black Holes and the Upper Stellar-mass gap with LIGO and Virgo. 2022 , 924, 39	8
556	Explosibility fluctuations of massive stellar cores enable asymmetric compact object mergers such as GW190814. 2022 , 657, L6	2
555	A 20 Second Cadence View of Solar-type Stars and Their Planets with TESS: Asteroseismology of Solar Analogs and a Recharacterization of δ Men c. 2022 , 163, 79	3
554	The Effects of Metallicity on Convective Overshoot Behavior in Models of δ Scuti Variable Stars. 2022 , 924, 130	
553	How much hydrogen is in Type Ib and IIb supernova progenitors?. 2022 , 511, 691-712	1
552	Presupernova ultralight axionlike particles. 2022 , 105,	0
551	Hypercritical Accretion for Black Hole High Spin in Cygnus X-1.	0
550	Photodynamical Modeling of the Fascinating Eclipses in the Triple-star System KOI-126. 2022 , 924, 66	1
549	Dynamical Mass of the Exoplanet Host Star HR 8799. 2022 , 163, 52	0
548	Stellar response after stripping as a model for common-envelope outcomes. 2022 , 511, 2326-2338	1
547	NGC 2004 #115: a black hole imposter containing three luminous stars.	3

546	OUP accepted manuscript.	0
545	NGC 1850 BH1 is another stripped-star binary masquerading as a black hole. 2022 , 511, 24-29	6
544	Stochastic gravitational-wave background as a tool for investigating multi-channel astrophysical and primordial black-hole mergers.	1
543	The Pristine survey IXV. A CFHT ESPaDOnS view on the Milky Way halo and disc populations. 2022 , 511, 1004-1021	0
542	Five young δ Scuti stars in the Pleiades seen with Kepler/K2.	2
541	Radio observations of massive stars in the Galactic centre: The Quintuplet cluster.	
540	Evidence for the Preferential Disruption of Moderately Massive Stars by Supermassive Black Holes. 2022 , 924, 70	1
539	Evolutionary and Observational Consequences of Dyson Sphere Feedback. 2022 , 924, 78	1
538	Isotopic Compositions of Ruthenium Predicted from the NuGrid Project. 2022 , 924, 88	
537	The Three-dimensional Collapse of a Rapidly Rotating 16 M_{\odot} Star. 2022 , 924, L15	1
536	Discovery of a Double-detonation Thermonuclear Supernova Progenitor. 2022 , 925, L12	2
535	Stochastic Low-frequency Variability in Three-dimensional Radiation Hydrodynamical Models of Massive Star Envelopes. 2022 , 924, L11	3
534	Stellar Shocks from Dark Matter Asteroid Impacts.. 2022 , 128, 021101	1
533	Stellar rotation rates in Kepler eccentric (heartbeat) binaries obtained from r-mode signatures. 2022 , 511, 560-571	1
532	Common envelopes in massive stars: Towards the role of radiation pressure and recombination energy in ejecting red supergiant envelopes.	5
531	Spectroscopy of the massive interacting binary UU Cassiopeiae.	
530	Collision of Two Stellar Associations in the Nearby Gum Nebula.	
529	Planet populations inferred from debris discs. Insights from 178 debris systems in the ISPY, LEECH, and LISTEN planet-hunting surveys.	4

528	Filling the gap between synchronized and non-synchronized sdBs in short-period sdBV+dM binaries with TESS: TIC 137608661, a new system with a well-defined rotational splitting. 2022 , 511, 2201-2217	0
527	Formation of the Double White Dwarf Binary PTF J0533+0209 through Stable Mass Transfer?. 2022 , 925, 89	0
526	The composition of massive white dwarfs and their dependence on C-burning modeling.	0
525	The spins of compact objects born from helium stars in binary systems.	3
524	Seismic modelling of a very young SPB star [KIC 8264293]. 2022 , 511, 1529-1543	2
523	The Uncertain Future of Massive Binaries Obscures the Origin of LIGO/Virgo Sources. 2022 , 925, 69	8
522	Kepler Bonus: Aperture Photometry Light Curves of EXBA Sources. 2022 , 163, 93	1
521	Still Brighter than Pre-explosion, SN 2012Z Did Not Disappear: Comparing Hubble Space Telescope Observations a Decade Apart. 2022 , 925, 138	3
520	Predictions for Gravity-mode Periods and Surface Abundances in Intermediate-mass Dwarfs from Shear Mixing and Radiative Levitation. 2022 , 925, 154	0
519	Individual element sensitivity for stellar evolutionary isochrones.	0
518	An Analytic, Fully Relativistic Framework for Tidal Disruption Event Streams in Schwarzschild Geometry.	
517	Stellar mergers as the origin of the blue main-sequence band in young star clusters.	4
516	Effects of Winds on the Optical Properties of Type Ib and Ic Supernova Progenitors. 2022 , 925, 216	0
515	Forbidden electron capture on Na24 and Al27 in degenerate oxygen-neon stellar cores. 2022 , 105,	0
514	Stripped-envelope stars in different metallicity environments. I. Evolutionary phases, classification, and populations.	0
513	TESS Giants Transiting Giants. II. The Hottest Jupiters Orbiting Evolved Stars. 2022 , 163, 120	1
512	HATS-74Ab, HATS-75b, HATS-76b, and HATS-77b: Four Transiting Giant Planets Around K and M Dwarfs*. 2022 , 163, 125	1
511	Asteroseismic inference of the near-core magnetic field strength in the main sequence B star HD 43317.	1

510	Kepler-167e as a Probe of the Formation Histories of Cold Giants with Inner Super-Earths. 2022 , 926, 62	0
509	LAMOST Time-Domain survey: first results of four K2 plates. 2021 , 21, 292	1
508	Uncovering the chemical structure of the pulsating low-mass white dwarf SDSS J115219.99+024814.4. 2021 , 510, 858-869	1
507	Transients from ONE white dwarf \rightarrow neutron star/black hole mergers. 2022 , 510, 3758-3777	3
506	An environmental analysis of the Type 1b SN 2019yvr and the possible presence of an inflated binary companion. 2022 , 510, 3701-3715	6
505	Improved Dynamical Masses for Six Brown Dwarf Companions Using Hipparcos and Gaia EDR3. 2021 , 162, 301	6
504	TESS Asteroseismology of μ Mensae: Benchmark Ages for a G7 Dwarf and Its M Dwarf Companion. 2021 , 922, 229	2
503	Phases of Mass Transfer from Hot Subdwarfs to White Dwarf Companions and Their Photometric Properties. 2021 , 922, 245	4
502	Wave-driven Mass Loss of Stripped Envelope Massive Stars: Progenitor-dependence, Mass Ejection, and Supernovae. 2021 , 923, 41	5
501	Enhancement of Lithium in Red Clump Stars by Neutrino Magnetic Moments. 2022 , 260, 11016	
500	First $^{80}\text{Se}(n,\gamma)$ cross section measurement with high resolution in the full stellar energy range 1 eV - 100 keV and its astrophysical implications for the s-process. 2022 , 260, 11026	
499	Slow White Dwarf Mergers as a New Galactic Source of Trans-Iron Elements. 2022 , 260, 06002	
498	IQ Collaboratory. III. The Empirical Dust Attenuation Framework \rightarrow Taking Hydrodynamical Simulations with a Grain of Dust. 2022 , 926, 122	3
497	The preliminary statistical analysis of LAMOST DR8 low resolution AFGK stars.	0
496	Interacting Stellar EMRIs as Sources of Quasi-periodic Eruptions in Galactic Nuclei. 2022 , 926, 101	7
495	Mixing fraction in classical novae.	1
494	The BPT Diagram in Cosmological Galaxy Formation Simulations: Understanding the Physics Driving Offsets at High Redshift. 2022 , 926, 80	2
493	Fast, Slow, Early, Late: Quenching Massive Galaxies at $z \sim 0.8$. 2022 , 926, 134	7

492	Pre-explosive Accretion and Simmering Phases of SNe Ia. 2022 , 926, 103	4
491	4FGL J1120.0-204: A Unique Gamma-Ray-bright Neutron Star Binary with an Extremely Low-mass Proto-white Dwarf. 2022 , 926, 201	0
490	No Evidence for Axions from Chandra Observation of the Magnetic White Dwarf RE J0317-853.. 2022 , 128, 071102	0
489	Convective Boundary Mixing Processes. 2022 , 6, 41	1
488	Modelling stars with Gaussian Process Regression: augmenting stellar model grid. 2022 , 511, 5597-5610	1
487	Detecting deep axisymmetric toroidal magnetic fields in stars. The traditional approximation of rotation for differentially rotating deep spherical shells with a general azimuthal magnetic field.	0
486	Improved nuclear physics near A=61 refines urca neutrino luminosities in accreted neutron star crusts. 2022 , 105,	0
485	Stellar Convective Penetration: Parameterized Theory and Dynamical Simulations. 2022 , 926, 169	8
484	Non-linear tidal excitation of superharmonic gravity waves in main-sequence stars in binary and exoplanetary systems. 2022 , 511, 5860-5877	0
483	A Transparent Window into Early-type Stellar Variability. 2022 , 926, 221	1
482	SQUIGGLE : Studying Quenching in Intermediate-z Galaxies Gas, Angular Momentum, and Evolution. 2022 , 926, 89	1
481	Tidally Tilted Pulsations in HD 265435, a Subdwarf B Star with a Close White Dwarf Companion. 2022 , 928, L14	0
480	Magnetorotational core collapse of possible gamma-ray burst progenitors IV. A wider range of progenitors. 2022 , 512, 2489-2507	3
479	The Nearby Evolved Stars Survey II: Constructing a volume-limited sample and first results from the James Clerk Maxwell Telescope. 2022 , 512, 1091-1110	0
478	The formation of discs in the interior of AGB stars from the tidal disruption of planets and brown dwarfs. 2022 , 511, 5994-6000	0
477	A New Detached Binary USNO-B1.0 1421-0485411 with the Secondary Component having Large Albedo. 2022 , 163, 167	1
476	Bipolar planetary nebulae from common-envelope evolution of binary stars.	2
475	Numerical experiments to help understand cause and effect in massive star evolution. 2022 , 512, 4116-4135	4

474	The near-core rotation of HD112429. A gamma Doradus star with TESS photometry and legacy spectroscopy.	0
473	Longitudinally Modulated Dynamo Action in Simulated M-dwarf Stars. 2022 , 928, 51	0
472	The white dwarf binary pathways survey \square VI. Two close post-common envelope binaries with TESS light curves. 2022 , 512, 1843-1856	3
471	Seismic signature of electron degeneracy in the core of red giants: Hints for mass transfer between close red-giant companions. 2022 , 659, A106	2
470	Thermonuclear $^{17}\text{O}(n, p)^{18}\text{O}$ Reaction Rate and Its Astrophysical Implications. 2022 , 927, 92	
469	Orbital Evolution of Close-in Super-Earths Driven by Atmospheric Escape. 2022 , 928, 105	1
468	468 151-166	
467	On the Energy Source of Ultrastripped Supernovae. 2022 , 927, 223	0
466	Repeated Mergers, Mass-gap Black Holes, and Formation of Intermediate-mass Black Holes in Dense Massive Star Clusters. 2022 , 927, 231	9
465	TESS Hunt for Young and Maturing Exoplanets (THYME). VI. An 11 Myr Giant Planet Transiting a Very-low-mass Star in Lower Centaurus Crux. 2022 , 163, 156	4
464	Tidal Dissipation Due to Inertial Waves Can Explain the Circularization Periods of Solar-type Binaries. 2022 , 927, L36	3
463	The evolution toward the observational features of the stripped envelope type IIb Supernovae in the binary system.	0
462	Mechanical feedback from stellar winds with an application to galaxy formation at high redshift. 2022 , 512, 4573-4592	1
461	Stellar labels for hot stars from low-resolution spectra. I. The HotPayne method and results for 330,000 stars from LAMOST DR6.	3
460	Across the green valley with HST grisms: colour evolution, crossing time-scales, and the growth of the red sequence at $z \approx 1.0$. 2022 , 512, 3566-3588	0
459	Crust cooling of soft x-ray transients -the uncertainties of shallow heating.	
458	Detailed models of interacting short-period massive binary stars. 2022 , 659, A98	1
457	Comparison between Core-collapse Supernova Nucleosynthesis and Meteoric Stardust Grains: Investigating Magnesium, Aluminium, and Chromium. 2022 , 927, 220	0

456	Unicorns and Giraffes in the binary zoo: stripped giants with subgiant companions.	6
455	Photometric Investigation of Contact Binary DY Cet Based on TESS Data.	0
454	Evidence that the Hot Jupiter WASP-77 A b Formed Beyond Its Parent Protoplanetary Disk's H ₂ O Ice Line. 2022 , 163, 159	1
453	The California-Kepler Survey. X. The Radius Gap as a Function of Stellar Mass, Metallicity, and Age. 2022 , 163, 179	2
452	Quasi-periodic eruptions from the helium envelope of hydrogen-deficient stars stripped by supermassive black holes.	0
451	Stellar multiplicity and stellar rotation: insights from APOGEE. 2022 , 512, 2051-2061	1
450	Core overshoot constrained by the absence of a solar convective core and some solar-like stars.	
449	Relativistic Coulomb screening in pulsational pair instability supernovae. 2022 , 659, A97	0
448	A Guide to Realistic Uncertainties on the Fundamental Properties of Solar-type Exoplanet Host Stars. 2022 , 927, 31	2
447	Modeling overcontact binaries. I. The effect of tidal deformation.	0
446	Asteroseismology of 3642 Kepler Red Giants: Correcting the Scaling Relations Based on Detailed Modeling. 2022 , 927, 167	1
445	Feedback-dominated Accretion Flows. 2022 , 928, 191	2
444	Six New Compact Triply Eclipsing Triples Found With TESS.	5
443	Quantum effects on plasma screening for thermonuclear reactions in laser-generated plasmas. 2022 , 4,	
442	Optical and Near-infrared Excesses are Correlated in T Tauri Stars. 2022 , 928, 134	1
441	Explaining the differences in massive star models from various simulations.	2
440	Type II supernovae from the Carnegie Supernova Project-I. 2022 , 660, A41	1
439	Tidal Evolution and Diffusive Growth During High-eccentricity Planet Migration: Revisiting the Eccentricity Distribution of Hot Jupiters. 2022 , 928, 140	1

438	Type II supernovae from the Carnegie Supernova Project-I. 2022 , 660, A42	0
437	Unveiling the Nature of SN 2011fh: A Young and Massive Star Gives Rise to a Luminous SN 2009ip-like Event. 2022 , 928, 138	0
436	A Channel to Form Fast-spinning Black Hole-Neutron Star Binary Mergers as Multimessenger Sources. 2022 , 928, 163	0
435	Determining the seismic age of the young open cluster Per using δ Scuti stars.	0
434	Photometric Analysis of the OGLE Heartbeat Stars. 2022 , 928, 135	0
433	Signatures of a Surviving Helium-star Companion in Type Ia Supernovae and Constraints on the Progenitor Companion of SN 2011fe. 2022 , 928, 146	1
432	Rapidly quenched galaxies in the Simba cosmological simulation and observations.	0
431	Inferring the rotation period distribution of stars from their projected rotation velocities and radii: Application to late-F/early-G Kepler stars. 2022 , 510, 5623-5638	0
430	Nonstandard Modeling of a Possible Blue Straggler Star, KIC 11145123. 2021 , 923, 244	1
429	Atmospheric mass loss and stellar wind effects in young and old systems III. Is TOI-942 the past of TOI-421 system?. 2022 , 510, 3039-3045	0
428	Populations of Ultraluminous X-ray Sources in Galaxies: Origin and Evolution. 2021 , 47, 831-855	
427	Mass Transfer and Stellar Evolution of the White Dwarfs in AM CVn Binaries. 2021 , 923, 125	3
426	Dynamical tides in eccentric binaries containing massive main-sequence stars: analytical expressions. 2022 , 510, 4943-4951	1
425	K2-99 revisited: a non-inflated warm Jupiter, and a temperate giant planet on a 522-d orbit around a subgiant. 2022 , 510, 5035-5049	0
424	The Cosmic Carbon Footprint of Massive Stars Stripped in Binary Systems. 2021 , 923, 214	0
423	Orbital Dynamics and the Evolution of Planetary Habitability in the AU Mic System. 2022 , 163, 20	0
422	Magnetic Archaeology of Early-type Stellar Dynamos. 2021 , 923, 104	1
421	Mysterious Dust-emitting Object Orbiting TIC 400799224. 2021 , 162, 299	1

420	Accretion-induced merger leading to core-collapse supernovae in old stellar populations. 2022 , 510, 4242-4248	
419	Two Massive Jupiters in Eccentric Orbits from the TESS Full-frame Images. 2022 , 163, 9	1
418	Preparing the next gravitational million-body simulations: evolution of single and binary stars in nbody6++gpu , mocca , and mcluster . 2022 , 511, 4060-4089	3
417	26Aluminum from Massive Binary Stars. II. Rotating Single Stars Up to Core Collapse and Their Impact on the Early Solar System. 2021 , 923, 47	2
416	Revised Stellar Parameters for V471 Tau, A Post-common Envelope Binary in the Hyades. 2022 , 163, 34	0
415	Evolution of Accretor Stars in Massive Binaries: Broader Implications from Modeling ζ Ophiuchi. 2021 , 923, 277	4
414	Masses of White Dwarf Binary Companions to Type Ia Supernovae Measured from Runaway Velocities. 2021 , 923, L34	2
413	Convective Overshooting in Extreme Horizontal-branch Stars Using MESA with the k-omega Model*. 2021 , 923, 166	0
412	Regular radial velocity variations in nine G- and K-type giant stars: Eight planets and one planet candidate. 2022 , 74, 92-127	1
411	TOI-1431b/MASCARA-5b: A Highly Irradiated Ultrahot Jupiter Orbiting One of the Hottest and Brightest Known Exoplanet Host Stars. 2021 , 162, 292	3
410	Sensitivity studies on the thermal beta+decay and thermal neutrino loss rates in the multizone X-ray burst model mesa. 2022 , 510, 4639-4644	
409	Magnetic dynamos in white dwarfs III: explaining the occurrence of strong magnetic fields in close double white dwarfs.	2
408	Star formation in two irradiated globules around Cygnus OB2. 2022 , 660, A106	
407	Search for Stellar Flybys in the Sco-Cen OB Association with the Gaia DR2. 2022 , 163, 219	0
406	Quenching and the UVJ Diagram in the SIMBA Cosmological Simulation. 2022 , 929, 94	2
405	The impact of the uncertainties in the $^{12}\text{C}(\text{p},\text{n})^{13}\text{C}$ reaction rate on the evolution of low- Z intermediate-mass stars.	0
404	Discovery of post-mass-transfer helium-burning red giants using asteroseismology.	1
403	Estimation of the NiCu Cycle Strength and Its Impact on Type I X-Ray Bursts. 2022 , 929, 96	

402	Partial-envelope stripping and nuclear-timescale mass transfer from evolved supergiants at low metallicity.	2
401	Viscous and centrifugal instabilities of massive stars.	
400	Remnant masses of core collapse supernovae in the jittering jets explosion mechanism.	5
399	Hydrodynamic Simulations of Electron-capture Supernovae: Progenitor and dimension dependence.	1
398	A Fresh Look at AGB Stars in Galactic Open Clusters with Gaia: Impact on Stellar Models and the Initial Binary Mass Relation. 2022 , 258, 43	3
397	Properties and applications of a predicted population of runaway He-sdO/B stars ejected from single degenerate He-donor SNe.	2
396	The Milky Way tomography with APOGEE: intrinsic density distribution and structure of mono-abundance populations.	0
395	Convective Penetration in Early-type Stars. 2022 , 929, 182	0
394	TYC 2990-127-1: an Algol-type SB2 binary system of subgiant and red giant with a probable ongoing mass-transfer..	0
393	CHIPS: Complete History of Interaction-powered Supernovae. 2022 , 929, 177	1
392	Numerical Simulations of Convective Three-dimensional Red Supergiant Envelopes. 2022 , 929, 156	0
391	The eclipsing binary systems with β Scuti component III. AB Cas.	0
390	The HST Large Program on ϵ Centauri. V. Exploring the Ultracool Dwarf Population with Stellar Atmosphere and Evolutionary Modeling. 2022 , 930, 24	0
389	Investigating the Stability of Mass Transfer in Neutron StarHelium White Dwarf Binaries. 2022 , 930, 134	0
388	Wave-driven Outbursts and Variability of Low-mass Supernova Progenitors. 2022 , 930, 119	2
387	On the rotation properties of a post-explosion helium-star companion in Type Iax supernovae.	
386	SN 2020jfo: A Short-plateau Type II Supernova from a Low-mass Progenitor. 2022 , 930, 34	1
385	On the Diversity of Mixing and Helium Core Masses of B-type Dwarfs from Gravity-mode Asteroseismology. 2022 , 930, 94	1

- 384 Stable Mass Transfer Can Explain Massive Binary Black Hole Mergers with a High-spin Component. **2022**, 930, 26 2
- 383 Potential Habitability as a Stellar Property: Effects of Model Uncertainties and Measurement Precision. **2022**, 930, 78 0
- 382 The Chemical Composition of Extreme-velocity Stars* □ **2022**, 163, 252 0
- 381 Mutual Inclination of Ultra-short-period Planets with Time-varying Stellar J 2 Moments. **2022**, 930, 58 0
- 380 Type Ia supernova ejecta-donor interaction: explosion model comparison. 0
- 379 Linking chromospheric activity and magnetic field properties for late-type dwarf stars. 0
- 378 Asynchronous Rotation of a Massive Star in Close Binary Systems. 0
- 377 Three-dimensional simulations of the jet feedback mechanism in common envelope jets supernovae. 3
- 376 A Close-in Puffy Neptune with Hidden Friends: The Enigma of TOI 620. **2022**, 163, 269 1
- 375 Slow convection and fast rotation in crystallization-driven white dwarf dynamos. 1
- 374 Premature black hole death of Population III stars by dark matter. **2022**, 2022, 025 0
- 373 A Dearth of Close-in Planets around Rapidly Rotating Stars or a Dearth of Data?. **2022**, 930, L23 0
- 372 Eruption of the Envelope of Massive Stars by Energy Injection with Finite Duration. **2022**, 930, 168 0
- 371 Ellipsars: Ring-like Explosions from Flattened Stars. **2022**, 931, L16 0
- 370 Asteroseismology of the multiple stellar populations in the globular cluster M4. 0
- 369 The SDSS-HET Survey of Kepler Eclipsing Binaries. A Sample of Four Benchmark Binaries. **2022**, 931, 75 0
- 368 A Multiplanet System—Sole Super-puff: Exploring Allowable Physical Parameters for the Cold Super-puff HIP 41378 f. **2022**, 163, 277 0
- 367 The Warm Neptune GJ 3470b Has a Polar Orbit. **2022**, 931, L15 0

- 366 Inflated Eccentric Migration of Evolving Gas Giants I [Accelerated Formation and Destruction of Hot and Warm Jupiters. **2022**, 931, 10 0
- 365 Candidate eclipsing binary systems with a [Scuti star in Northern TESS field. 1
- 364 Axion instability supernovae. **2022**, 105, 0
- 363 Formation of mass-gap black holes from neutron star x-ray binaries with super-eddington accretion. 2
- 362 The Effect of Supernova Convection On Neutron Star and Black Hole Masses. **2022**, 931, 94 4
- 361 tomso: TOols for Models of Stars and their Oscillations. **2022**, 7, 4343
- 360 Evaporation of dark matter from celestial bodies. **2022**, 2022, 042 0
- 359 Possible In Situ Formation of Uranus and Neptune via Pebble Accretion. **2022**, 931, 21 2
- 358 Mass-loss implementation and temperature evolution of very massive stars. 1
- 357 Inflated Eccentric Migration of Evolving Gas Giants II [Numerical Methodology and Basic Concepts. **2022**, 931, 11 0
- 356 On effects of surface bipolar magnetic regions on the convection zone dynamo. 0
- 355 Discovery of a highly eccentric, chromospherically active binary: ASASSN-V J192114.84+624950.8. **2022**, 514, 200-207 0
- 354 Determining the Age for the Red Giants KIC 9145955 and KIC 9970396 by Gravity-dominated Mixed Modes. **2022**, 931, 64 0
- 353 Mixed-mode Asteroseismology of Red Giant Stars Through the Luminosity Bump. **2022**, 931, 116 0
- 352 Asteroseismology of the dip structure in period-spacings of rapidly rotating [Doradus stars caused by the coupling between core and envelope oscillations. 0
- 351 T[Integration Incorporating Convection. **2022**, 6, 112
- 350 Detailed analysis of an eccentric TESS binary star with solar-type components: TIC 284613090. **2022**, 96, 101860
- 349 Investigation of Small Separation of Evolved Stars in Cluster NGC 6811.

- 348 Pulsational instability of pre-main-sequence models from accreting protostars. II. Modelling echelle diagrams of delta Scuti stars without rotational splitting. 0
- 347 Where to Find Overmassive Brown Dwarfs: New Benchmark Systems for Binary Evolution. **2022**, 932, 91 0
- 346 Gamma-Ray Light Curves and Spectra of Classical Novae. 0
- 345 Frequency Analysis of KIC 1573174: Shedding Light on the Nature of HADS Stars. **2022**, 932, 42 0
- 344 The Late-Time Light Curves of Type Ia Supernovae: Confronting Models with Observations. 2
- 343 The Pre-main Sequence: Challenges and Prospects for Asteroseismology. 9, 0
- 342 Asteroseismology of evolved stars to constrain the internal transport of angular momentum. V. Efficiency of the transport on the red giant branch and in the red clump. 0
- 341 The First High-contrast Images of X-Ray Binaries: Detection of Candidate Companions in the ζ Cas Analog RX J1744.7-2713. **2022**, 164, 7 1
- 340 Searching for Anomalies in the ZTF Catalog of Periodic Variable Stars. **2022**, 932, 118 0
- 339 Exploratory scenarios for the differential nuclear and tidal evolution of TZ Fornacis. 0
- 338 Discovery of 34 Low-mass Comoving Systems Using NOIRLab Source Catalog DR2. **2022**, 164, 3 1
- 337 Formation Channels of Single and Binary Stellar-Mass Black Holes. **2022**, 705-769 0
- 336 İstanbul Üniversitesi Gelişiminden Yeni Bir Kaya Dönemli Zonklayan Yıldız Keşfi. 0
- 335 Cosmic nucleosynthesis: A multi-messenger challenge. **2022**, 103983 1
- 334 Pulsating B stars in the Scorpius-Centaurus Association with TESS. 0
- 333 Y Gem: A White Dwarf Symbiotic Star?. **2022**, 932, 132 0
- 332 What are the spectroscopic binaries with high mass functions near the Gaia DR3 main sequence?. 3
- 331 Evidence for the Late Arrival of Hot Jupiters in Systems with High Host-star Obliquities. **2022**, 164, 26 0

330	Stationary Accretion Flow with Nuclear Burning. 2022 , 933, 29	
329	How to search for mirror stars with Gaia. 2022 , 2022,	0
328	The frequency and mass-ratio distribution of binaries in clusters I: description of the method and application to M67.	
327	Evolution of Main-sequence-like Surviving Companions in Type Ia Supernova Remnants. 2022 , 933, 38	1
326	Absolute dimensions and apsidal motion of the eclipsing binaries V889 Aquilae and V402 Lacertae.	1
325	Confronting double-detonation sub-Chandrasekhar models with the low-luminosity suppression of Type Ia supernovae. 2022 , 515, 286-292	
324	Atomic diffusion and turbulent mixing in solar-like stars: Impact on the fundamental properties of FG-type stars.	
323	Shock Breakout in Three-dimensional Red Supergiant Envelopes. 2022 , 933, 164	1
322	The $\chi_{\text{eff-z}}$ correlation of field binary black hole mergers and how 3G gravitational-wave detectors can constrain it.	2
321	Seismic modelling of the pulsating mercurythanganese star HD 29589. 2022 , 514, 5640-5658	1
320	Type IIP Supernova IV. Shock Breakout from Progenitor Stars Modeled with Convective Overshoot and Mass Loss. 2022 , 933, 194	
319	A search for transit timing variations in the HATS-18 planetary system.	0
318	Long-term Evolution of Postexplosion Helium-star Companions of Type Ia Supernovae. 2022 , 933, 65	1
317	A Roche Lobe-filling hot Subdwarf and White Dwarf Binary: Possible detection of an ejected common envelope?.	0
316	Modeling of multimode radially pulsating High-Amplitude δ Scuti stars from the OGLE Galactic bulge sample.	0
315	Turbulent cold flows gave birth to the first quasars. 2022 , 607, 48-51	8
314	wdwarfdate: A Python Package to Derive Bayesian Ages of White Dwarfs. 2022 , 164, 62	1
313	NGC1818 unveils the origin of the extended main-sequence turn-off in young Magellanic Clouds clusters. 2022 , 13,	2

312	A Rapidly Fading Star as a Type II Obscuring Intermediate Luminosity Optical Transient (ILOT) in a Triple-star System. 2022 , 934, 60	0
311	Integrated mass loss of evolved stars in M4 using asteroseismology.	0
310	The K2 Galactic Archaeology Program: Overview, target selection and survey properties.	
309	Realistic 3D hydrodynamics simulations find significant turbulent entrainment in massive stars.	1
308	Formation of black widows through ultra-compact X-ray binaries with He star companions.	0
307	The magneto-rotational instability in massive stars.	1
306	Towards a fully consistent Milky Way disk model. V. The disk model for 4 to 14 kpc.	0
305	Patchy Nightside Clouds on Ultra-hot Jupiters: General Circulation Model Simulations with Radiatively Active Cloud Tracers. 2022 , 934, 79	0
304	Connecting the Light Curves of Type IIP Supernovae to the Properties of Their Progenitors. 2022 , 934, 67	0
303	Asteroseismology of the DAV Star L19-2. 2022 , 934, 34	
302	Extended population associated with W40.	0
301	TOI-712: A System of Adolescent Mini-Neptunes Extending to the Habitable Zone. 2022 , 164, 71	0
300	Vetting the 'lobster' Diagram: Searching for Unseen Companions in Wide Binaries Using NASA Space Exoplanet Missions. 2022 , 934, 72	1
299	The viability of the optically thick wind model in accreting white dwarfs at high accretion rates. 2022 , 515, 2747-2754	0
298	Rotational Variation Allows for Narrow Age Spread in the Extended Main-sequence Turnoff of Massive Cluster NGC 1846. 2022 , 934, 105	1
297	Suspicious Siblings: The Distribution of Mass and Spin across Component Black Holes in Isolated Binary Evolution. 2022 , 933, 86	5
296	The Galactic Distribution of Phosphorus: A Survey of 163 Disk and Halo Stars*. 2022 , 164, 61	0
295	Neutrino Emissivities as a Probe of the Internal Magnetic Fields of White Dwarfs. 2022 , 934, 99	0

- 294 The response of a red supergiant to a common envelope jets supernova (CEJSN) impostor event. **2022**, 515, 5473-5478
- 293 Onset of common envelope evolution during a core helium flash by rapid envelope expansion. **2022**, 515, 5400-5406
- 292 Feeding post core collapse supernova explosion jets with an inflated main sequence companion. 2
- 291 3D Hydrodynamics of Pre-supernova Outbursts in Convective Red Supergiant Envelopes. **2022**, 936, 28
- 290 On Trapped Modes in Variable White Dwarfs as Probes of the $^{12}\text{C}(\alpha)^{16}\text{O}$ Reaction Rate. **2022**, 935, 21 0
- 289 COol Companions ON Ultrawide orbits (COCONUTS). III. A Very Red L6 Benchmark Brown Dwarf around a Young M5 Dwarf. **2022**, 935, 15
- 288 Magnetized Oscillatory Double-diffusive Convection. **2022**, 935, 33
- 287 Memory-efficient emulation of physical tabular data using quadtree decomposition. **2022**, 101823
- 286 Birth of a Be star: an APOGEE search for Be stars forming through binary mass transfer. 1
- 285 Still at Odds with Conventional Galaxy Evolution: The Star Formation History of Ultra-Diffuse Galaxy Dragonfly 44. 1
- 284 Recovering the Star Formation Histories of Recently Quenched Galaxies: The Impact of Model and Prior Choices. **2022**, 935, 146 0
- 283 SN 2016iy: A Type IIb supernova arising from a low-mass progenitor. 1
- 282 Resolution Study of Thermonuclear Initiation in White Dwarf Tidal Disruption Events. **2022**, 934, 157
- 281 An Atlas of Convection in Main-sequence Stars. **2022**, 262, 19 1
- 280 Detection of an excess of young stars in the Galactic Centre Sagittarius B1 region. 0
- 279 A synthetic population of Wolf-Rayet stars in the LMC based on detailed single and binary star evolution models. 0
- 278 Evolution of AM CVn Binaries with White Dwarf Donors. **2022**, 935, 9 1
- 277 Convection reconciles the difference in efficiencies between low-mass and high-mass Common Envelopes. 0

- 276 A Bayesian Analysis of Physical Parameters for 783 Kepler Close Binaries: Extreme-mass-ratio Systems and a New Mass Ratio versus Period Lower Limit. **2022**, 262, 12 1
- 275 PARSEC V2.0: Stellar tracks and isochrones of low and intermediate mass stars with rotation. 0
- 274 From 3D hydrodynamic simulations of common-envelope interaction to gravitational-wave mergers. 0
- 273 Phase-resolved spectroscopic analysis of the eclipsing black hole X-ray binary M33 X-7: System properties, accretion, and evolution. 0
- 272 Close Encounters of Stars with Stellar-mass Black Hole Binaries. 0
- 271 Platform for probing radiation transport properties of hydrogen at conditions found in the deep interiors of red dwarfs. **2022**, 29, 083301 2
- 270 Testing White Dwarf Age Estimates Using Wide Double White Dwarf Binaries from Gaia EDR3. **2022**, 934, 148 1
- 269 Extension of the Asfgrid for Correcting Asteroseismic Large Frequency Separations. **2022**, 6, 168 0
- 268 Benchmarking MESA isochrones against the Hyades single star sequence. 0
- 267 The Giraffe—Discovery of a stripped red giant in an interacting binary with a $\sim 2 M_{\odot}$ lower giant. 1
- 266 A Tendency Toward Alignment in Single-star Warm-Jupiter Systems. **2022**, 164, 104 0
- 265 Revising Properties of Planet-host Binary Systems. I. Methods and Pilot Study. **2022**, 935, 141 0
- 264 Cyclic changes in the interacting binary RX Cassiopeiae. 0
- 263 Rotation in stellar interiors: General formulation and an asteroseismic-calibrated transport by the Tayler instability. 0
- 262 Detailed Evolutionary Models for Twins in Sight of New Spectral Data: AN Cam, RS Ari, and V455 Aur. 0
- 261 Formation of black holes in the pair-instability mass gap: evolution of a post-collision star. 3
- 260 Precise Evolutionary Asteroseismology of High-Amplitude δ Scuti Star AE Ursae Majoris. 0
- 259 Is Thermohaline Mixing the Full Story? Evidence for Separate Mixing Events near the Red Giant Branch Bump. **2022**, 935, L30 0

- 258 Pre-main sequence evolution of low-mass stars in Eddington-inspired BornInfeld gravity. **2022**, 82, ○
- 257 Searching for dark energy with the Sun. ○
- 256 Constraints on the Spindown of Fully Convective M Dwarfs Using Wide Field Binaries. **2022**, 936, 109 ○
- 255 Revising Properties of PlanetHost Binary Systems. II. Apparent Near-Earth-analog Planets in Binaries Are Often Sub-Neptunes*. **2022**, 164, 138 ○
- 254 The EBLM project IX. Five fully convective M-dwarfs, precisely measured with CHEOPS and TESS light curves. ○
- 253 Astrophysical Searches and Constraints. **2023**, 73-122 ○
- 252 KIC 2857323: A Double-mode High-amplitude δ Scuti Star with Amplitude Decline of the First Overtone Mode. **2022**, 936, 48 ○
- 251 On the Impact of Relativistic Gravity on the Rate of Tidal Disruption Events. **2022**, 936, 70 1
- 250 Observing EAGLE galaxies with JWST: predictions for Milky Way progenitors and their building blocks. **2022**, 516, 3861-3877 ○
- 249 Long-term lithium abundance signatures following planetary engulfment. **2022**, 516, 3354-3365 2
- 248 Dissecting the microphysics behind the metallicity-dependence of massive stars radii. **2022**, 516, 5816-5831 ○
- 247 TIC 5724661: A Long-period Binary with a Pulsating sdB Star and δ Scuti Variable. **2022**, 936, 123 ○
- 246 Common envelope binary interaction simulations between a thermally-pulsating AGB star and a low mass companion. ○
- 245 Stochastic excitation of internal gravity waves in rotating late F-type stars: A 3D simulation approach. ○
- 244 A simple and accurate prescription for the tidal disruption radius of a star and the peak accretion rate in tidal disruption events. **2022**, 517, L26-L30 ○
- 243 The imprint of star formation on stellar pulsations. **2022**, 13, ○
- 242 Period-Colour and Amplitude-Colour relations for OGLE- δ Scuti stars in the Galactic Bulge and LMC. ○
- 241 The Formation of the Stripped-envelope Type IIb Supernova Progenitors: Rotation, Metallicity, and Overshooting. **2022**, 262, 26 ○

- 240 A trio of giant planets orbiting evolved star HD 184010. ○
- 239 Validation of TESS exoplanet candidates orbiting solar analogues in the all-sky PLATO input catalogue. **2022**, 516, 4432-4447 ○
- 238 Properties of the radius valley around low mass stars: predictions from the core-powered mass-loss mechanism. **2022**, 516, 4585-4593 ○
- 237 Common envelopes in massive stars II: The distinct roles of hydrogen and helium recombination. **2022**, 516, 4669-4678 ○
- 236 A new window to tidal asteroseismology: non-linearly excited stellar eigenmodes and the period spacing pattern in KOI-54. **2022**, 517, 437-446 ○
- 235 The hydrogen clock to infer the upper stellar mass. **2022**, 516, 4052-4065 ○
- 234 Shell helium-burning hot subdwarf B stars as candidates for blue large-amplitude pulsators. ○
- 233 Period Change Rates of Large Magellanic Cloud Cepheids using MESA. ○
- 232 Searching for the Next Galactic Luminous Red Nova. ○
- 231 An 18.9 min blue large-amplitude pulsator crossing the Hertzsprung gap of hot subdwarfs. ○
- 230 Supernova double-peaked light curves from double-nickel distribution. ○
- 229 The effects of surface fossil magnetic fields on massive star evolution: IV. Grids of models at Solar, LMC, and SMC metallicities. 1
- 228 Primordial black holes capture by stars and induced collapse to low-mass stellar black holes. **2022**, 517, 28-37 ○
- 227 The spins of stripped B stars support magnetic internal angular momentum transport. ○
- 226 A robust model for the origin of optical quasi-periodic variability in supersoft X-ray sources. **2022**, 666, A81 ○
- 225 Characterising the AGB bump and its potential to constrain mixing processes in stellar interiors. ○
- 224 Magnetic fields of 30 to 100 kG in the cores of red giant stars. **2022**, 610, 43-46 1
- 223 Light-curve Model for Luminous Red Novae and Inferences about the Ejecta of Stellar Mergers. **2022**, 938, 5 ○

- 222 Resolving the Peak of the Black Hole Mass Spectrum. **2022**, 937, 112 1
- 221 The white dwarf binary pathways survey - VIII: a post common envelope binary with a massive white dwarf and an active g-type secondary star. 1
- 220 Detectability of Rotational Modulation in Kepler Sun-like Stars as a Function of Age. **2022**, 937, 94 0
- 219 Thermonuclear and electron-capture supernovae from stripped-envelope stars. 1
- 218 A dense 0.1-solar-mass star in a 51-minute-orbital-period eclipsing binary. 0
- 217 Dusty, Self-obscured Transients from Stellar Coalescence. **2022**, 937, 96 0
- 216 An Analysis of the Eclipsing Binaries HD 71636, V1022 Cassiopeiae, and OT Andromedae. **2022**, 164, 224 0
- 215 Unveiling the nitrogen-rich massive star in the metal-poor galaxy NGC 4068. 0
- 214 Photometric properties and stellar parameters of the rapidly rotating magnetic early-B star HD 345439. 0
- 213 Active Learning for Computationally Efficient Distribution of Binary Evolution Simulations. **2022**, 938, 64 0
- 212 Ionizing feedback effects on star formation in globular clusters with multiple stellar populations. **2022**, 517, 4175-4186 1
- 211 Do High-spin High-mass X-Ray Binaries Contribute to the Population of Merging Binary Black Holes?. **2022**, 938, L19 1
- 210 Advancing globular cluster constraints on the axion-photon coupling. **2022**, 2022, 096 0
- 209 A systematic study of super-Eddington layers in the envelopes of massive stars. 0
- 208 A Rapidly Evolving High-amplitude δ Scuti Star Crossing the Hertzsprung Gap. **2022**, 938, L20 0
- 207 Accelerated Bayesian SED Modeling Using Amortized Neural Posterior Estimation. **2022**, 938, 11 1
- 206 The Initial Magnetic Field Distribution in AB Stars. **2022**, 938, 10 1
- 205 The mystery in Gaia DR3 triples: occurrence rates, orientations, and eccentricities of wide tertiaries around close binaries. 0

204	A Two-stage Formalism for Common-envelope Phases of Massive Stars. 2022 , 937, L42	0
203	Asteroseismology of a Double-mode High-amplitude β Scuti Star TIC 448892817. 2022 , 164, 218	0
202	KIC 7955301: A hierarchical triple system with eclipse timing variations and an oscillating red giant.	0
201	Evolved eclipsing binary systems in the Galactic bulge: Precise physical and orbital parameters of OGLE-BLG-ECL-305487 and OGLE-BLG-ECL-116218.	0
200	Hydrodynamical simulations for the common-envelope wind model for Type Ia supernovae.	1
199	The Gliese 86 Binary System: A Warm Jupiter Formed in a Disk Truncated at \approx au. 2022 , 164, 188	0
198	High-velocity Stars in SDSS/APOGEE DR17. 2022 , 164, 187	0
197	Synthetic Color-Magnitude Diagrams for the Globular Cluster 47 Tucanae. 2022 , 6, 212	0
196	Red Supergiant Stars in IC 1613 and Metallicity-dependent Mixing Length in the Evolutionary Model. 2022 , 939, 28	0
195	Neutron stars colliding with binary companions: formation of hypervelocity stars, pulsar planets, bumpy superluminous supernovae and Thorne-Żukow objects. 2022 , 517, 4544-4556	0
194	Constraints on the contributions to the observed binary black hole population from individual evolutionary pathways in isolated binary evolution. 2022 , 517, 4034-4053	0
193	Binary Interaction Dominates Mass Ejection in Classical Novae. 2022 , 938, 31	1
192	Visual Orbits of Spectroscopic Binaries with the CHARA Array. IV. HD 61859, HD 89822, HD 109510, and HD 191692. 2022 , 164, 228	0
191	Improved Models of R Coronae Borealis Stars. 2022 , 939, 45	0
190	Bridging the Gap between Intermediate and Massive Stars. I. Validation of MESA against the State-of-the-Art Monash Stellar Evolution Program for a $2M_{\odot}$ AGB Star. 2022 , 939, 50	0
189	Magellan/IMACS Spectroscopy of Grus. I. A Low Metallicity Ultra-faint Dwarf Galaxy*. 2022 , 939, 41	1
188	Evidence of a signature of planet formation processes from solar neutrino fluxes. 2022 , 667, L2	0
187	A Sun-like star orbiting a black hole.	5

186	Coping with loss. Stability of mass transfer from post-main-sequence donor stars.	0
185	The influence of metallicity on a combined stellar and disk evolution.	0
184	Impact of the New $^{12}\text{C}+^{12}\text{C}$ Reaction Rate on Presupernova Nucleosynthesis.	0
183	Models for Metal-Poor Stars with Different Initial Abundances of C, N, O, Mg, and Si. III. Grids of Isochrones for $0.5 \leq [\text{Fe}/\text{H}] \leq 0.5$ and Helium Abundances $Y = 0.25$ and 0.29 at Each Metallicity.	0
182	Triage of the Gaia DR3 astrometric orbits. I. A sample of binaries with probable compact companions.	2
181	The evolution of CNO elements in galaxies. 2022 , 30,	0
180	The Barium Odd Isotope Fractions in Seven Ba Stars. 2022 , 8, 596	0
179	Li-rich and super Li-rich giants produced by element diffusion.	0
178	Evaluating chemically homogeneous evolution in stellar binaries: Electromagnetic implications - Ionizing photons, SLSN-I, GRB, Ic-BL.	2
177	Mass Distribution of Black Holes with Effects of Convective Carbon Shell Burning on Pair-Instability Pulsation and Fe Core Collapse.	0
176	Mode Mixing and Rotational Splittings. I. Near-degeneracy Effects Revisited. 2022 , 940, 18	0
175	Parameterisations of thermal bomb explosions for core-collapse supernovae and ^{56}Ni production.	1
174	Tidally Distorted Barytropes and Their Roche Limits, with Application to WASP-12b. 2022 , 939, 91	0
173	The effects of stellar rotation along the main sequence of the 100 Myr old massive cluster NGC 1850.	4
172	Molecular Gas Reservoirs in Massive Quiescent Galaxies at $z \sim 0.7$ Linked to Late-time Star Formation. 2022 , 940, 39	0
171	Influence of a mass transfer stability criterion on double white dwarf populations.	0
170	White dwarf binaries suggest a common envelope efficiency $\approx 1/3$.	0
169	Internal Rotation and Inclinations of Slowly Pulsating B Stars: Evidence of Interior Angular Momentum Transport. 2022 , 940, 49	2

- 168 Helium-enhanced planets along the upper edge of the radius valley. ○
- 167 Analyses of hydrogen-stripped core-collapse supernovae using MOSFiT and MESA-based tools. **2022**, 43, ○
- 166 The Post-interaction Be + Stripped Star Binary HR 6819. **2022**, 63-82 ○
- 165 Scientific Context. **2022**, 1-29 ○
- 164 Low mass X-ray binary simulation data release. **2023**, 42, 100681 ○
- 163 WDPHOTools – a white dwarf photometric toolkit in Python. **2022**, 1, 81-98 ○
- 162 Updated Low-temperature Gas Opacities with BOPUS 2.0. **2022**, 940, 129 ○
- 161 Ups!... I did it again: unveiling the hidden companion in Upsilon Sagittarii, a unique binary system at a second mass transfer stage. **2022**, 518, 3541-3555 ○
- 160 Topological Modes in Stellar Oscillations. **2022**, 940, 84 ○
- 159 GD 99: Re-investigation of an old ZZ Ceti companion. ○
- 158 The white dwarf binary pathways survey - IX. Three long period white dwarf plus subgiant binaries. **2022**, 518, 4579-4594 ○
- 157 Fundamental properties of red giants from Kepler and Gaia DR3 data: diagnostic potential of the mass-metallicity diagram. **2022**, 518, 5552-5562 ○
- 156 Two decades of optical timing of the shortest-period binary star system HM Cancri. **2022**, 518, 5123-5139 ○
- 155 The initial spin distribution of B-type stars revealed by the split main sequences of young star clusters. ○
- 154 Red-giant branch stellar cores as macroscopic dark matter detectors. **2022**, 106, ○
- 153 Extreme Mass Loss in Low-mass Type Ib/c Supernova Progenitors. **2022**, 940, L27 ○
- 152 Horizons: nuclear astrophysics in the 2020s and beyond. **2022**, 49, 110502 1
- 151 Evolution of Carbon-Oxygen White Dwarf Accreting Helium as One of the Progenitors of Accretion-induced Collapse. **2022**, 2377, 012045 ○

- 150 SPYGLASS. II. The Multigenerational and Multiorigin Star Formation History of Cepheus Far North. **2022**, 941, 49 ○
- 149 What Are Those Tiny Things? A First Study of Compact Star Clusters in the SMACS0723 Field with JWST. **2022**, 941, L11 ○
- 148 ArtPop: A Stellar Population and Image Simulation Python Package. **2022**, 941, 26 ○
- 147 Small-scale dynamo in cool stars. II. The effect of metallicity. 1
- 146 Repeated Mergers of Black Hole Binaries: Implications for GW190521. **2022**, 941, 4 ○
- 145 A low-mass companion desert among intermediate-mass visual binaries: The scaled-up counterpart to the brown dwarf desert. **2022**, 519, 778-798 ○
- 144 UV spectropolarimetry with Polstar: massive star binary colliding winds. **2022**, 367, ○
- 143 Towards a new era in giant exoplanet characterisation. **2023**, 669, A24 ○
- 142 The Cosmic Hunt for members in the outskirts of ultra-faint dwarf galaxies: Ursa Major I, Coma Berenices, and Boötes I. **2022**, 519, 1349-1365 ○
- 141 The evolution of circumstellar discs in the galactic centre: an application to the G-clouds. **2022**, 519, 397-417 ○
- 140 The Small Separation A-star Companion Population: First Results with CHARA/MIRC-X. **2022**, 941, 118 ○
- 139 White DwarfRed Giant Star Binaries as Type Ia Supernova Progenitors: With and without Magnetic Confinement. **2022**, 941, L33 ○
- 138 Evolution of eccentric high-mass X-ray binaries. The case of GX 301-2. ○
- 137 Characterization of Population III Stars with Stellar Atmosphere and Evolutionary Modeling and Predictions of their Observability with the JWST. **2023**, 165, 2 1
- 136 Meta-analysis of Photometric and Asteroseismic Measurements of Stellar Rotation Periods: The LombScargle Periodogram, Autocorrelation Function, and Wavelet and Rotational Splitting Analysis for 92 Kepler Asteroseismic Targets. **2022**, 941, 175 ○
- 135 The mass-radius relation of intermediate-mass planets outlined by hydrodynamic escape and thermal evolution. **2022**, 668, A178 ○
- 134 Detection of Oscillating Pulsators in the Eclipsing Binaries Observed by TESS. **2022**, 263, 34 ○
- 133 Formation of black holes in the pair-instability mass gap: Hydrodynamical simulations of a head-on massive star collision. 2

- 132 Occurrence rate of hot Jupiters orbiting red giant stars. 0
- 131 Evidence of structural discontinuities in the inner core of red-giant stars. **2022**, 13, 0
- 130 Structure and evolution of a tidally heated star. 0
- 129 SPYGLASS. III. The Fornax Globulocluster Association and Its Traceback History within the Austral Complex. **2022**, 941, 143 1
- 128 Impact of tides on non-coplanar orbits of progenitors of high-mass X-ray binaries. 0
- 127 A close-in planet orbiting giant star HD 167768. 0
- 126 Dark Matter-Admixed Rotating White Dwarfs as Peculiar Compact Objects. **2022**, 941, 115 0
- 125 A promising formation channel for symbiotic X-ray binaries: cases of IGR J17329-731 and 4U 1700+24. **2022**, 519, 1327-1335 0
- 124 Impact of asymmetrical mass ejection from proto-white dwarfs on the properties of binary millisecond pulsars. 0
- 123 Planet engulfment signatures in twin stars. **2022**, 518, 5465-5474 1
- 122 TESS Giants Transiting Giants. III. An Eccentric Warm Jupiter Supports a Period-Eccentricity Relation for Giant Planets Transiting Evolved Stars. **2023**, 165, 44 0
- 121 Rejuvenated Accretors Have Less Bound Envelopes: Impact of Roche Lobe Overflow on Subsequent Common Envelope Events. **2023**, 942, L32 0
- 120 The influence of initial orbital period on helium and carbon-oxygen core masses in massive case a binary systems with low accretion efficiency. **2022**, 45-51 0
- 119 Chemical Mixing Induced by Internal Gravity Waves in Intermediate-mass Stars. **2023**, 942, 53 0
- 118 A study of convective core overshooting as a function of stellar mass based on two-dimensional hydrodynamical simulations. 1
- 117 Theoretical investigation of the occurrence of tidally excited oscillations in massive eccentric binary systems. 0
- 116 Forward Modeling of Galaxy Populations for Cosmological Redshift Distribution Inference. **2023**, 264, 29 1
- 115 Detailed Chemical Abundances of Stars in the Outskirts of the Tucana II Ultrafaint Dwarf Galaxy*. **2023**, 165, 55 0

114	Close Encounters of Tight Binary Stars with Stellar-mass Black Holes.	0
113	Rotational modulation in A and F stars: Magnetic stellar spots or convective core rotation?.	0
112	Transition of latitudinal differential rotation as a possible cause of weakened magnetic braking of solar-type stars.	0
111	Stripped-envelope stars in different metallicity environments. II. Type I supernovae and compact remnants.	0
110	Exoplanet atmosphere evolution: emulation with neural networks.	0
109	Impact of newly measured $^{26}\text{Al}(n, p)^{26}\text{Mg}$ and $^{26}\text{Al}(n, p)^{23}\text{Na}$ reaction rates on the nucleosynthesis of ^{26}Al in stars.	0
108	Nucleosynthesis in Jet-Driven and Jet-Associated Supernovae. 2023 , 1-38	0
107	A Parameterized Neutrino Emission Model to Study Mass Ejection in Failed Core-collapse Supernovae. 2023 , 942, 16	0
106	Merging binary black holes formed through double-core evolution.	0
105	Correlations in Chromospheric and Coronal Activity Indicators of Giant Stars. 2023 , 165, 70	0
104	Light Curves and Event Rates of Axion Instability Supernovae. 2023 , 943, 12	0
103	Cool, Luminous, and Highly Variable Stars in the Magellanic Clouds. II. Spectroscopic and Environmental Analysis of Thorne- $\dot{\text{M}}$ Object and Super-AGB Star Candidates. 2023 , 943, 18	0
102	Empirical constraints on the nucleosynthesis of nitrogen. 2023 , 520, 782-803	0
101	Comprehensive spectroscopic and photometric study of pulsating eclipsing binary star Al Hya. 2023 , 520, 1601-1612	0
100	Asteroseismology: Looking for Axions in the Red Supergiant Star Alpha Ori. 2023 , 943, 95	0
99	Asteroseismology of the Pulsating Extremely Low-mass White Dwarf SDSS J111215.82 + 111745.0: A Model with p-mode Pulsations Consistent with the Observations. 2023 , 943, 113	0
98	SN 2018hna: Adding a piece to the puzzles of the explosion of blue supergiants.	0
97	POSYDON: A General-purpose Population Synthesis Code with Detailed Binary-evolution Simulations. 2023 , 264, 45	1

- 96 Critical Metallicity of Cool Supergiant Formation. I. Effects on Stellar-mass Loss and Feedback. **2023**, 944, 34 ○
- 95 Simulating the deposition of angular momentum by jets in common envelope evolution. **2023**, 520, 4182-4193 ○
- 94 Evolving ONe WD+He WD systems to ultra-compact X-ray binaries. **2023**, 521, 6053-6060 ○
- 93 Quiescent and Active Galactic Nuclei as Factories of Merging Compact Objects in the Era of Gravitational Wave Astronomy. **2023**, 9, 138 ○
- 92 Mode Mixing and Rotational Splittings. II. Reconciling Different Approaches to Mode Coupling. **2023**, 946, 92 ○
- 91 The Environments around W Serpentis Systems: Independent Limits on System Masses and Extended Envelopes. **2023**, 165, 189 ○
- 90 Assessing stellar yields in Galaxy chemical evolution: Observational stellar abundance patterns. ○
- 89 Constraining Young Hot Jupiter Occurrence Rate in Stellar Associations Using 2-min Cadence TESS Data. **2023**, 9, 192 ○
- 88 Nuclear Physics Constraints on Neutrino Astrophysics. **2023**, 1-36 ○
- 87 Hubble Space Telescope survey of Magellanic Cloud star clusters. **2023**, 672, A161 ○
- 86 A peculiarity of nuclear flow in the stellar CNO cycle with energetic particles. **2023**, 98, 035301 ○
- 85 Red horizontal branch stars: An asteroseismic perspective. **2023**, 671, A53 ○
- 84 Distribution and Evolution of the Li Abundance in Red Clump Stars Can Be Explained by Internal Gravity Waves. **2023**, 943, 115 ○
- 83 VFTS 243 as predicted by the BPASS fiducial models. **2023**, 520, 4740-4746 ○
- 82 A study of nine compact triply eclipsing triples. **2023**, 521, 558-584 ○
- 81 Unravelling the evolution of hot Jupiter systems under the effect of tidal and magnetic interactions and mass-loss. **2023**, 520, 3749-3766 ○
- 80 Strong magnetic fields detected in the cores of 11 red giant stars using gravity-mode period spacings. **2023**, 670, L16 ○
- 79 Radiation shielding of protoplanetary discs in young star-forming regions. **2023**, 520, 5331-5353 ○

- 78 Lithium Abundances in Giants as a Function of Stellar Mass: Evidence for He Flash as the Source of Li Enhancement in Low-mass Giants. **2023**, 944, L5 ○
- 77 Understanding the high-mass binary black hole population from stable mass transfer and super-Eddington accretion inpass. **2023**, 520, 5724-5745 1
- 76 The Origins of Calcium-rich Supernovae From Disruptions of CO White Dwarfs by Hybrid He/O White Dwarfs. **2023**, 944, 22 ○
- 75 A Reanalysis of the Composition of K2-106b: An Ultra-short-period Super-Mercury Candidate. **2023**, 165, 97 ○
- 74 DSPS: Differentiable stellar population synthesis. **2023**, 521, 1741-1756 ○
- 73 Evolution of rotating 25 M \odot Population III star: physical properties and resulting supernovae. **2023**, 521, L17-L23 ○
- 72 Determining Dust Properties in Protoplanetary Disks: SED-derived Masses and Settling with ALMA. **2023**, 944, 66 ○
- 71 Black Hole Ultracompact X-Ray Binaries: Galactic Low-frequency Gravitational Wave Sources. **2023**, 944, 83 ○
- 70 WOCS 4540: Detailed Analysis of a very Long Orbital Period Blue Straggler. **2023**, 944, 89 ○
- 69 A uvbyCaH α CCD Analysis of the Open Cluster Standard, M67, and Its Relation to NGC 752. **2023**, 165, 105 ○
- 68 The Abundance of Belatedly Habitable Planets and Ambiguities in Definitions of the Continuously Habitable Zone. **2023**, 944, 71 ○
- 67 Linking the interiors and surfaces of magnetic stars. **2023**, 520, 5573-5585 ○
- 66 Optical characterization and radial velocity monitoring with Belgian and Indian telescopes (ORBIT): the eclipsing binaries EPIC 211982753 and EPIC 211915147. **2023**, 521, 677-689 ○
- 65 A new versatile code for gamma-ray Monte-Carlo radiative transfer. **2023**, 521, 1277-1291 ○
- 64 Density Profiles of Collapsed Rotating Massive Stars Favor Long Gamma-Ray Bursts. **2023**, 944, L38 ○
- 63 ELM of ELM-WD: An Extremely-low-mass Hot Star Discovered in LAMOST Survey. **2023**, 165, 119 ○
- 62 WIYN Open Cluster Study. LXXXVII. Hubble Space Telescope Ultraviolet Detection of Hot White Dwarf Companions to Blue Lurkers in M67. **2023**, 944, 145 ○
- 61 TOI-4562b: A Highly Eccentric Temperate Jupiter Analog Orbiting a Young Field Star. **2023**, 165, 121 ○

60	Modelling supermassive primordial stars with mesa. 2023 , 521, 463-473	1
59	Evolution of the Postmerger Remnants from the Coalescence of Oxygen-Neon and Carbon-Oxygen White Dwarf Pairs. 2023 , 944, L54	0
58	Tidal Disruption Events from Eccentric Orbits and Lessons Learned from the Noteworthy ASASSN-14ko. 2023 , 944, 184	0
57	Modules for Experiments in Stellar Astrophysics (MESA): Time-dependent Convection, Energy Conservation, Automatic Differentiation, and Infrastructure. 2023 , 265, 15	2
56	X-ray luminosity function of high-mass X-ray binaries: Studying the signatures of different physical processes using detailed binary evolution calculations. 2023 , 672, A99	0
55	Magnetic Inclination Evolution of Accreting Neutron Stars in Intermediate/Low-mass X-Ray Binaries. 2023 , 945, 2	0
54	The DESI PRObabilistic Value-added Bright Galaxy Survey (PROVABGS) Mock Challenge. 2023 , 945, 16	1
53	Another shipment of six short-period giant planets from TESS. 2023 , 521, 2765-2785	0
52	TESS Asteroseismic Analysis of HD 76920: The Giant Star Hosting an Extremely Eccentric Exoplanet. 2023 , 945, 20	0
51	Detached eclipsing binaries in compact hierarchical triples: triple-lined systems BD+442258 and KIC 06525196. 2023 , 521, 1908-1923	0
50	gyre_tides: Modeling Binary Tides within the GYRE Stellar Oscillation Code. 2023 , 945, 43	0
49	New Determination of the $^{12}\text{C}(\text{p},\text{n})^{13}\text{C}$ Reaction Rate and Its Impact on the Black-hole Mass Gap. 2023 , 945, 41	0
48	Neural Stellar Population Synthesis Emulator for the DESI PROVABGS. 2023 , 265, 23	0
47	Synthesizing Spectra from 3D Radiation Hydrodynamic Models of Massive Stars Using Monte Carlo Radiation Transport. 2023 , 945, 58	0
46	Reverse Algols and hydrogen-rich Wolf-Rayet stars from very massive binaries. 2023 , 672, A198	0
45	A Lagrangian construction of rotating star models. 2023 , 521, 2561-2576	0
44	Simulations of the Progenitors of Black Hole-Neutron Star Gravitational Wave Sources. 2023 , 945, 90	0
43	The K2 and TESS Synergy. II. Revisiting 26 Systems in the TESS Primary Mission. 2023 , 165, 155	0

- 42 Surface structure of 45 Hercules: an otherwise unremarkable Ap star with a surprisingly weak magnetic field. **2023**, 521, 3480-3499 ○
- 41 Precursors of Supernovae from Mass Eruption: Prospects for Early Warning of Nearby Core-collapse Supernovae. **2023**, 945, 104 ○
- 40 Observational Properties of 155 O- and B-type Massive Pulsating Stars. **2023**, 265, 33 ○
- 39 He Abundance of Dense Circumstellar Clumps in the Cassiopeia A Supernova Remnant. **2023**, 945, 158 ○
- 38 The core degenerate scenario for the type Ia supernova SN 2020ejj. **2023**, 521, 4561-4567 1
- 37 Study with WhoSGLAd of the acoustic depth of the helium glitch across the seismic HR diagram and its impact on the inferred helium abundance. **2023**, 521, 4131-4139 ○
- 36 A multiphase study of theoretical and observed light curves of classical Cepheids in the Magellanic Clouds. **2023**, 521, 6034-6052 ○
- 35 Constraining the rotation profile in a low-luminosity subgiant with a surface rotation measurement. **2023**, 521, 4122-4130 ○
- 34 The Missing Link between Black Holes in High-mass X-Ray Binaries and Gravitational-wave Sources: Observational Selection Effects. **2023**, 946, 4 ○
- 33 HD 42477: coupled r modes, g modes, and a p mode in an A0Vne star. **2023**, 521, 4765-4774 ○
- 32 A photoelectric study of the eclipsing binary EG Serpentis. **2023**, 522, 1310-1322 ○
- 31 Modeling contact binaries. **2023**, 672, A175 ○
- 30 HIP 67506 C: MagAO-X confirmation of a new low-mass stellar companion to HIP 67506 A. **2023**, 521, 4775-4784 ○
- 29 TOI-3235 b: A Transiting Giant Planet around an M4 Dwarf Star. **2023**, 946, L4 ○
- 28 Binarity and beyond in A stars II. Disentangling the four stars in the vicinity of the triple HIP 87813 within the quintuple system HJ2814. **2023**, 521, 5255-5271 ○
- 27 Long-rising Type II supernovae resembling supernova 1987A II. A comparative study through scaling relations. **2023**, 521, 4801-4818 ○
- 26 The implications of large binding energies of massive stripped core collapse supernova progenitors on the explosion mechanism. **2023**, 522, 438-445 ○
- 25 Binarity and beyond in A stars II. Survey description and first results of VLTI/GRAVITY observations of VAST targets with high GaiaHipparcos accelerations. **2023**, 521, 5232-5254 ○

- 24 The Mass Fallback Rate of the Debris in Relativistic Stellar Tidal Disruption Events. **2023**, 946, 25 ○
- 23 The Ages of Galactic Bulge Stars with Realistic Uncertainties. **2023**, 946, 28 ○
- 22 Revising Properties of Planet Host Binary Systems. III. There Is No Observed Radius Gap for Kepler Planets in Binary Star Systems* . **2023**, 165, 177 ○
- 21 Extremely Relativistic Tidal Disruption Events. **2023**, 946, L33 ○
- 20 The formation history of our Galaxy's nuclear stellar disc constrained from HST observations of the Quintuplet field. **2023**, 672, L8 ○
- 19 Detection and Seismic Study of Gravity and Rossby Mode Pulsations in Four Contact Binaries. **2023**, 947, 3 ○
- 18 Discovery of a 0.64 M \approx 13.4 au Companion to the α Cen Star HIP 47145 = HR 3831 = IM Vel*. **2023**, 7, 66 ○
- 17 Discovery of a 0.58 M \approx 0.9 au Companion to HIP 42313 = β Hya*. **2023**, 7, 65 ○
- 16 Evolutionary and Observational Properties of Red Giant Acoustic Glitch Signatures. **2023**, 947, 22 ○
- 15 Convective Boundary Mixing in Main-Sequence Stars: Theory and Empirical Constraints. **2023**, 11, 56 ○
- 14 3D hydrodynamics simulations of internal gravity waves in red giant branch stars. **2023**, 522, 1706-1725 ○
- 13 Terminating a common envelope jets supernova impostor event with a super-Eddington blue supergiant. **2023**, 522, 885-890 ○
- 12 The Influence of Disk Composition on the Evolution of Stars in the Disks of Active Galactic Nuclei. **2023**, 946, 56 ○
- 11 Nature of Intense Magnetism and Differential Rotation in Convective Dynamos of M-dwarf Stars with Tachoclines. **2023**, 947, 36 ○
- 10 Conclusive Evidence for a Population of Water Worlds around M Dwarfs Remains Elusive. **2023**, 947, L19 ○
- 9 Overview of the DESI Milky Way Survey. **2023**, 947, 37 1
- 8 Predicting light curves of RR Lyrae variables using artificial neural network based interpolation of a grid of pulsation models. **2023**, 522, 1504-1520 ○
- 7 Accreting white dwarfs: effect of WD composition on helium ignition during slow accretion. **2023**, 44, ○

- 6 Spatio-temporal non-localities in a solar-like mean-field dynamo. ○
- 5 Measurement of the $Tb159(n,\gamma)$ cross section at the CSNS Back-n facility. **2023**, 107, ○
- 4 Peeking beneath the precision floor III. Probing the chemo-dynamical histories of the potential globular cluster siblings, NGC 288 and NGC 362. **2023**, 522, 4404-4420 ○
- 3 On the Anticorrelation between Duration and Redshift in Gamma-Ray Bursts. **2023**, 947, 85 ○
- 2 Systematics in asteroseismic modelling: Application of a correlated noise model for oscillation frequencies. ○
- 1 Hidden Companions to Intermediate-mass Stars. III. Discovery of a 1.6M \odot , 1.3 au Companion to HIP 92041 = γ Sagittarii*. **2023**, 7, 95 ○