

# A kilonova as the electromagnetic counterpart to a grav

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Citation Report

#	ARTICLE	IF	CITATIONS
1	The surprising history of an antioxidant. <i>Nature</i> , 2017, 551, 37-38.	13.7	17
2	A golden binary. <i>Nature</i> , 2017, 551, 36-37.	13.7	5
3	The X-ray counterpart to the gravitational-wave event GW170817. <i>Nature</i> , 2017, 551, 71-74.	13.7	627
4	Illuminating gravitational waves: A concordant picture of photons from a neutron star merger. <i>Science</i> , 2017, 358, 1559-1565.	6.0	559
5	<i>Swift</i> and <i>NuSTAR</i> observations of GW170817: Detection of a blue kilonova. <i>Science</i> , 2017, 358, 1565-1570.	6.0	399
6	Multi-messenger Observations of a Binary Neutron Star Merger<sup>*</sup>. <i>Astrophysical Journal Letters</i> , 2017, 848, L12.	3.0	2,805
7	The Environment of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017, 848, L28.	3.0	114
8	Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017, 851, L16.	3.0	189
9	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017, 850, L39.	3.0	156
10	ALMA and GMRT Constraints on the Off-axis Gamma-Ray Burst 170817A from the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017, 850, L21.	3.0	49
11	Neutron-star Radius Constraints from GW170817 and Future Detections. <i>Astrophysical Journal Letters</i> , 2017, 850, L34.	3.0	469
12	How to light up a black hole. <i>Nature Astronomy</i> , 2017, 1, 748-750.	4.2	0
13	Enrichment in r-process Elements from Multiple Distinct Events in the Early Draco Dwarf Spheroidal Galaxy<sup>*</sup>. <i>Astrophysical Journal Letters</i> , 2017, 850, L12.	3.0	34
14	Lessons from the Short GRB 170817A: The First Gravitational-wave Detection of a Binary Neutron Star Merger. <i>Astrophysical Journal Letters</i> , 2017, 850, L24.	3.0	82
15	Modeling GW170817 based on numerical relativity and its implications. <i>Physical Review D</i> , 2017, 96, .	1.6	355
16	The Combined Ultraviolet, Optical, and Near-infrared Light Curves of the Kilonova Associated with the Binary Neutron Star Merger GW170817: Unified Data Set, Analytic Models, and Physical Implications. <i>Astrophysical Journal Letters</i> , 2017, 851, L21.	3.0	369
17	Improved Constraints on $H_0$ from a Combined Analysis of Gravitational-wave and Electromagnetic Emission from GW170817. <i>Astrophysical Journal Letters</i> , 2017, 851, L36.	3.0	85
18	Afterglows and Kilonovae Associated with Nearby Low-luminosity Short-duration Gamma-Ray Bursts: Application to GW170817/GRB 170817A. <i>Astrophysical Journal Letters</i> , 2017, 850, L41.	3.0	31

#	ARTICLE	IF	CITATIONS
19	A More Stringent Constraint on the Mass Ratio of Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017, 851, L45.	3.0	23
20	The Electromagnetic Counterpart of the Gravitational Wave Source GW170817. <i>Proceedings of the International Astronomical Union</i> , 2017, 14, 56-60.	0.0	0
21	GW170817: <i>Swift</i> UV detection of a blue kilonova, and improving the search in O3. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 53-60.	0.0	1
22	Improvements in Gravitational-wave Sky Localization with Expanded Networks of Interferometers. <i>Astrophysical Journal Letters</i> , 2018, 854, L25.	3.0	15
23	Compact binary merger and kilonova: outflows from remnant disc. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 683-689.	1.6	4
24	Implications from GW170817 and I-Love-Q relations for relativistic hybrid stars. <i>Physical Review D</i> , 2018, 97, .	1.6	192
25	Transient survey rates for orphan afterglows from compact merger jets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 4435-4441.	1.6	9
26	A comparison between SALT/SAAO observations and kilonova models for AT 2017gfo: the first electromagnetic counterpart of a gravitational wave transient GW170817. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 474, L71-L75.	1.2	34
27	Short gamma-ray burst central engines. <i>International Journal of Modern Physics D</i> , 2018, 27, 1842004.	0.9	25
28	Neutron star mergers as sites of r-process nucleosynthesis and short gamma-ray bursts. <i>International Journal of Modern Physics D</i> , 2018, 27, 1842005.	0.9	129
29	Compton echoes from nearby gamma-ray bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 5621-5628.	1.6	5
30	The Binary Neutron Star Event LIGO/Virgo GW170817 160 Days after Merger: Synchrotron Emission across the Electromagnetic Spectrum. <i>Astrophysical Journal Letters</i> , 2018, 856, L18.	3.0	258
31	First Electromagnetic Pulse Associated with a Gravitational-wave Event: Profile, Duration, and Delay. <i>Astrophysical Journal</i> , 2018, 856, 90.	1.6	11
32	GW170817 falsifies dark matter emulators. <i>Physical Review D</i> , 2018, 97, .	1.6	120
33	Subsequent Nonthermal Emission Due to the Kilonova Ejecta in GW170817. <i>Astrophysical Journal</i> , 2018, 852, 105.	1.6	4
34	Brightening X-Ray Emission from GW170817/GRB 170817A: Further Evidence for an Outflow. <i>Astrophysical Journal Letters</i> , 2018, 853, L4.	3.0	90
35	Using gravitational-wave data to constrain dynamical tides in neutron star binaries. <i>Physical Review D</i> , 2018, 97, .	1.6	27
36	GRB 170817A Associated with GW170817: Multi-frequency Observations and Modeling of Prompt Gamma-Ray Emission. <i>Astrophysical Journal Letters</i> , 2018, 852, L30.	3.0	89

#	ARTICLE	IF	CITATIONS
37	GW170817: Joint Constraint on the Neutron Star Equation of State from Multimessenger Observations. <i>Astrophysical Journal Letters</i> , 2018, 852, L29.	3.0	436
38	Evidence for Cocoon Emission from the Early Light Curve of SSS17a. <i>Astrophysical Journal</i> , 2018, 855, 103.	1.6	82
39	Shock Acceleration of Electrons and Synchrotron Emission from the Dynamical Ejecta of Neutron Star Mergers. <i>Astrophysical Journal</i> , 2018, 858, 53.	1.6	3
40	Brightening X-Ray/Optical/Radio Emission of GW170817/SGRB 170817A: Evidence for an Electron-Positron Wind from the Central Engine?. <i>Astrophysical Journal Letters</i> , 2018, 856, L33.	3.0	29
41	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2018, 21, 3.	8.2	808
42	Prompt emission from the counter jet of a short gamma-ray burst. <i>Progress of Theoretical and Experimental Physics</i> , 2018, 2018, .	1.8	3
43	Can We Distinguish Low-mass Black Holes in Neutron Star Binaries?. <i>Astrophysical Journal</i> , 2018, 856, 110.	1.6	50
44	The Origin of r-process Elements in the Milky Way. <i>Astrophysical Journal</i> , 2018, 855, 99.	1.6	168
45	Outflows from black hole hyperaccretion systems: short and long-short gamma-ray bursts and $\tilde{\text{quasi-supernovae}}^{\text{TM}}$ . <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 2173-2182.	1.6	24
46	Exploring short-GRB afterglow parameter space for observations in coincidence with gravitational waves. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 5340-5350.	1.6	9
47	A Precise Distance to the Host Galaxy of the Binary Neutron Star Merger GW170817 Using Surface Brightness Fluctuations. <i>Astrophysical Journal Letters</i> , 2018, 854, L31.	3.0	99
48	The First Hours of the GW170817 Kilonova and the Importance of Early Optical and Ultraviolet Observations for Constraining Emission Models. <i>Astrophysical Journal Letters</i> , 2018, 855, L23.	3.0	87
49	Rates of short-GRB afterglows in association with binary neutron star mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 699-707.	1.6	10
50	The radius of the quiescent neutron star in the globular cluster M13. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 4713-4718.	1.6	25
51	An Upper Limit on the Linear Polarization Fraction of the GW170817 Radio Continuum. <i>Astrophysical Journal Letters</i> , 2018, 861, L10.	3.0	27
52	Early Chemical Evolution of Zn Driven by Magnetorotational Supernovae and the Pathway to the Solar Zn Composition. <i>Astrophysical Journal Letters</i> , 2018, 863, L27.	3.0	14
53	The Cow: Discovery of a Luminous, Hot, and Rapidly Evolving Transient. <i>Astrophysical Journal Letters</i> , 2018, 865, L3.	3.0	146
54	Merger delay time distribution of extended emission short GRBs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 4332-4341.	1.6	12

#	ARTICLE	IF	CITATIONS
55	Binary Neutron Star and Short Gamma-Ray Burst Simulations in Light of GW170817. <i>Galaxies</i> , 2018, 6, 119.	1.1	7
56	GW170817: implications for the local kilonova rate and for surveys from ground-based facilities. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 4355-4360.	1.6	15
57	Numerical Simulations of the Jet Dynamics and Synchrotron Radiation of Binary Neutron Star Merger Event GW170817/GRB 170817A. <i>Astrophysical Journal</i> , 2018, 863, 58.	1.6	92
58	Observational Implications of Lowering the LIGO-Virgo Alert Threshold. <i>Astrophysical Journal Letters</i> , 2018, 861, L24.	3.0	7
59	Gamma radiation as a source of information about the characteristics of celestial bodies. <i>E3S Web of Conferences</i> , 2018, 63, 00002.	0.2	0
60	Electromagnetic Emission and Nucleosynthesis from Neutron Star Binary Mergers. <i>Astrophysics and Space Science Library</i> , 2018, , 637-671.	1.0	0
61	Constraints on the neutron star equation of state from AT2017gfo using radiative transfer simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 3871-3878.	1.6	157
62	Rapidly evolving transients in the Dark Energy Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 894-917.	1.6	109
63	Constraints on the ejecta of the GW170817 neutron star merger from its electromagnetic emission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 3423-3441.	1.6	117
64	Physical Conditions for the r-process. I. Radioactive Energy Sources of Kilonovae. <i>Astrophysical Journal</i> , 2018, 868, 65.	1.6	52
65	Synchrotron Radiation from the Fast Tail of Dynamical Ejecta of Neutron Star Mergers. <i>Astrophysical Journal</i> , 2018, 867, 95.	1.6	92
66	A Strong Jet Signature in the Late-time Light Curve of GW170817. <i>Astrophysical Journal Letters</i> , 2018, 868, L11.	3.0	114
67	Optimized Radio Follow-up of Binary Neutron-star Mergers. <i>Astrophysical Journal</i> , 2018, 867, 135.	1.6	2
68	Electrical resistivity and Hall effect in binary neutron star mergers. <i>European Physical Journal A</i> , 2018, 54, 1.	1.0	18
69	Axion star collisions with black holes and neutron stars in full 3D numerical relativity. <i>Physical Review D</i> , 2018, 98, .	1.6	38
70	Kilonova Emission from Black Hole–Neutron Star Mergers: Observational Signatures of Anisotropic Mass Ejection. <i>Astrophysical Journal</i> , 2018, 867, 6.	1.6	5
71	From $\hat{\nu}^3$ to Radio: The Electromagnetic Counterpart of GW170817. <i>Astrophysical Journal</i> , 2018, 867, 18.	1.6	66
72	Recent Nuclear Structure Study through Large Scale Shell Model, from Light to Heavy Nuclei. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
73	Binary Neutron Star Mergers: Mass Ejection, Electromagnetic Counterparts, and Nucleosynthesis. <i>Astrophysical Journal</i> , 2018, 869, 130.	1.6	327
74	Scattered Short Gamma-Ray Bursts as Electromagnetic Counterparts to Gravitational Waves and Implications of GW170817 and GRB 170817A. <i>Astrophysical Journal</i> , 2018, 867, 39.	1.6	14
75	Fading of the X-Ray Afterglow of Neutron Star Merger GW170817/GRB 170817A at 260 Days. <i>Astrophysical Journal Letters</i> , 2018, 862, L19.	3.0	51
76	Long-lived remnants from binary neutron star mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 3670-3682.	1.6	94
77	Understanding the Death of Massive Stars Using an Astrophysical Transients Observatory. <i>Frontiers in Astronomy and Space Sciences</i> , 2018, 5, .	1.1	3
78	Evaluating radiation transport errors in merger simulations using a Monte Carlo algorithm. <i>Physical Review D</i> , 2018, 98, .	1.6	48
79	The first direct double neutron star merger detection: Implications for cosmic nucleosynthesis. <i>Astronomy and Astrophysics</i> , 2018, 615, A132.	2.1	134
80	Radiative Transfer Simulation for the Optical and Near-infrared Electromagnetic Counterparts to GW170817. <i>Astrophysical Journal Letters</i> , 2018, 865, L21.	3.0	117
81	On GW170817 and the Galactic Binary Neutron Star Population. <i>Astrophysical Journal</i> , 2018, 866, 60.	1.6	12
82	Production of Mo and Ru Isotopes in Neutrino-driven Winds: Implications for Solar Abundances and Presolar Grains. <i>Astrophysical Journal</i> , 2018, 866, 105.	1.6	34
83	Multidimensional simulations of ultrastripped supernovae to shock breakout. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 3675-3689.	1.6	57
84	Remnant baryon mass in neutron star-black hole mergers: Predictions for binary neutron star mimickers and rapidly spinning black holes. <i>Physical Review D</i> , 2018, 98, .	1.6	146
85	Super-knee Cosmic Rays from Galactic Neutron Star Merger Remnants. <i>Astrophysical Journal</i> , 2018, 866, 51.	1.6	12
86	Late-time evolution of afterglows from off-axis neutron star mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 2581-2589.	1.6	52
87	A luminous blue kilonova and an off-axis jet from a compact binary merger at $z=0.1341$ . <i>Nature Communications</i> , 2018, 9, 4089.	5.8	85
88	Off-axis emission of short GRB jets from double neutron star mergers and GRB 170817A. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 1597-1608.	1.6	64
89	Measuring the Viewing Angle of GW170817 with Electromagnetic and Gravitational Waves. <i>Astrophysical Journal Letters</i> , 2018, 860, L2.	3.0	54
90	The evolution of the X-ray afterglow emission of GW 170817/ GRB 170817A in <i>XMM-Newton</i> observations. <i>Astronomy and Astrophysics</i> , 2018, 613, L1.	2.1	150

#	ARTICLE	IF	CITATIONS
91	Disc formation in the collapse of supramassive neutron stars. Monthly Notices of the Royal Astronomical Society, 2018, 480, 5272-5285.	1.6	11
92	Progenitors of gravitational wave mergers: binary evolution with the stellar grid-based code ComBinE. Monthly Notices of the Royal Astronomical Society, 2018, 481, 1908-1949.	1.6	248
93	Polarization of the first-hour macronovae. Monthly Notices of the Royal Astronomical Society, 2018, 481, 1008-1015.	1.6	8
94	The birth environment of the solar system constrained by the relative abundances of the solar radionuclides. Proceedings of the International Astronomical Union, 2018, 14, 70-77.	0.0	4
95	Interpreting GRB170817A as a giant flare from a jet-less double neutron star merger. Astronomy and Astrophysics, 2018, 619, A18.	2.1	17
96	Afterglow imaging and polarization of misaligned structured GRB jets and cocoons: breaking the degeneracy in GRB 170817A. Monthly Notices of the Royal Astronomical Society, 2018, 478, 4128-4141.	1.6	87
97	Localization of binary neutron star mergers with second and third generation gravitational-wave detectors. Physical Review D, 2018, 97, .	1.6	31
98	The THESEUS space mission concept: science case, design and expected performances. Advances in Space Research, 2018, 62, 191-244.	1.2	133
99	ATLAS: A High-cadence All-sky Survey System. Publications of the Astronomical Society of the Pacific, 2018, 130, 064505.	1.0	569
100	Continued Brightening of the Afterglow of GW170817/GRB 170817A as Being Due to a Delayed Energy Injection. Astrophysical Journal Letters, 2018, 859, L3.	3.0	10
101	Prompt gamma-ray emission of GRB 170817A associated to GW 170817: A consistent picture. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	2
102	Can an off-axis gamma-ray burst jet in GW170817 explain all the electromagnetic counterparts?. Progress of Theoretical and Experimental Physics, 2018, 2018, .	1.8	61
103	A Magnetar Origin for the Kilonova Ejecta in GW170817. Astrophysical Journal, 2018, 856, 101.	1.6	168
104	Free Neutron Ejection from Shock Breakout in Binary Neutron Star Mergers. Astrophysical Journal, 2018, 861, 25.	1.6	16
105	THESEUS: A key space mission concept for Multi-Messenger Astrophysics. Advances in Space Research, 2018, 62, 662-682.	1.2	56
106	The optical afterglow of the short gamma-ray burst associated with GW170817. Nature Astronomy, 2018, 2, 751-754.	4.2	185
107	Is the Macronova in GW170817 Powered by the Central Engine?. Astrophysical Journal, 2018, 861, 55.	1.6	28
108	Three-dimensional GRMHD Simulations of Neutrino-cooled Accretion Disks from Neutron Star Mergers. Astrophysical Journal, 2018, 858, 52.	1.6	166

#	ARTICLE	IF	CITATIONS
109	Mass Ejection from the Remnant of a Binary Neutron Star Merger: Viscous-radiation Hydrodynamics Study. <i>Astrophysical Journal</i> , 2018, 860, 64.	1.6	183
110	Neutron-capture Elements in Planetary Nebulae: First Detections of Near-infrared [Te iii] and [Br v] Emission Lines*. <i>Astrophysical Journal Letters</i> , 2018, 861, L8.	3.0	16
111	GRB 170817A as a jet counterpart to gravitational wave trigger GW 170817. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 733-740.	1.6	78
112	Spitzer Space Telescope Infrared Observations of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2018, 862, L11.	3.0	30
113	Optimizing searches for electromagnetic counterparts of gravitational wave triggers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 692-702.	1.6	51
114	A Long-lived Remnant Neutron Star after GW170817 Inferred from Its Associated Kilonova. <i>Astrophysical Journal</i> , 2018, 861, 114.	1.6	105
115	What Powered the Optical Transient AT2017gfo Associated with GW170817?. <i>Astrophysical Journal Letters</i> , 2018, 861, L12.	3.0	71
116	Implications of the radio and X-ray emission that followed GW170817. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 407-415.	1.6	64
117	Testing Gravitational Memory Generation with Compact Binary Mergers. <i>Physical Review Letters</i> , 2018, 121, 071102.	2.9	24
118	How gravitational waves could solve some of the Universe's deepest mysteries. <i>Nature</i> , 2018, 556, 164-168.	13.7	3
119	The Diversity of Kilonova Emission in Short Gamma-Ray Bursts. <i>Astrophysical Journal</i> , 2018, 860, 62.	1.6	74
120	A Globular Cluster Luminosity Function Distance to NGC 4993 Hosting a Binary Neutron Star Merger GW170817/GRB 170817A. <i>Astrophysical Journal Letters</i> , 2018, 859, L6.	3.0	10
121	$\hat{\Gamma}^2$ -decay Rates for Exotic Nuclei and r-process Nucleosynthesis up to Thorium and Uranium. <i>Astrophysical Journal</i> , 2018, 859, 133.	1.6	18
122	Expected neutrino fluence from short Gamma-Ray Burst 170817A and off-axis angle constraints. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 1191-1197.	1.6	28
123	The Allowed Parameter Space of a Long-lived Neutron Star as the Merger Remnant of GW170817. <i>Astrophysical Journal</i> , 2018, 860, 57.	1.6	84
124	Global simulations of strongly magnetized remnant massive neutron stars formed in binary neutron star mergers. <i>Physical Review D</i> , 2018, 97, .	1.6	135
125	Are fast radio bursts the most likely electromagnetic counterpart of neutron star mergers resulting in prompt collapse?. <i>Physical Review D</i> , 2019, 100, .	1.6	11
126	The X-shooter GRB afterglow legacy sample (XS-GRB). <i>Astronomy and Astrophysics</i> , 2019, 623, A92.	2.1	47



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127	Galactic $r$ -process Abundance Feature Shaped by Radial Migration. <i>Astrophysical Journal</i> , 2019, 878, 125.	1.6	8
128	GRID: a student project to monitor the transient gamma-ray sky in the multi-messenger astronomy era. <i>Experimental Astronomy</i> , 2019, 48, 77-95.	1.6	38
129	Searches after Gravitational Waves Using ARizona Observatories (SAGUARO): System Overview and First Results from Advanced LIGO/Virgo's Third Observing Run. <i>Astrophysical Journal Letters</i> , 2019, 881, L26.	3.0	41
130	Late-time Kilonova Light Curves and Implications to GW170817. <i>Astrophysical Journal</i> , 2019, 878, 93.	1.6	30
131	Discovery of a kilonova and prospects for future hunts. <i>Rendiconti Lincei</i> , 2019, 30, 79-83.	1.0	0
132	Gravitational waves from neutron star mergers and their relation to the nuclear equation of state. <i>Progress in Particle and Nuclear Physics</i> , 2019, 109, 103714.	5.6	152
133	Lessons from the light of a neutron star merger. <i>Annals of Physics</i> , 2019, 410, 167923.	1.0	5
134	Can a black hole–neutron star merger explain GW170817, AT2017gfo, and GRB170817A?. <i>Physical Review D</i> , 2019, 100, .	1.6	38
135	A Brief Review of Kilonova (Mergernova) Researchestwo. <i>Chinese Astronomy and Astrophysics</i> , 2019, 43, 178-198.	0.1	1
136	Constraints on hybrid neutron stars equation of state from neutron stars merging. <i>European Physical Journal A</i> , 2019, 55, 1.	1.0	1
137	When Did the Remnant of GW170817 Collapse to a Black Hole?. <i>Astrophysical Journal</i> , 2019, 876, 139.	1.6	78
138	Detectability of neutron star merger afterglows. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 2405-2411.	1.6	27
139	Binary Neutron Star (BNS) Merger: What We Learned from Relativistic Ejecta of GW/GRB 170817A. <i>Physics</i> , 2019, 1, 194-228.	0.5	2
140	Observable features of GW170817 kilonova afterglow. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 3914-3921.	1.6	35
141	The Faintest Dwarf Galaxies. <i>Annual Review of Astronomy and Astrophysics</i> , 2019, 57, 375-415.	8.1	334
142	Spitzer mid-infrared detections of neutron star merger GW170817 suggests synthesis of the heaviest elements. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2021, 510, L7-L12.	1.2	64
143	Equation of state constraints from multi-messenger observations of neutron star mergers. <i>Annals of Physics</i> , 2019, 411, 167958.	1.0	12
144	The Optical Afterglow of GW170817: An Off-axis Structured Jet and Deep Constraints on a Globular Cluster Origin. <i>Astrophysical Journal Letters</i> , 2019, 883, L1.	3.0	69

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145	Optimizing multitelescope observations of gravitational-wave counterparts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 5775-5783.	1.6	35
146	Properties of jet and surrounding material of GW/GRB 170817A. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 2822-2837.	1.6	2
147	Multimessenger Bayesian parameter inference of a binary neutron star merger. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 489, L91-L96.	1.2	163
148	SN2018kzr: A Rapidly Declining Transient from the Destruction of a White Dwarf. <i>Astrophysical Journal Letters</i> , 2019, 885, L23.	3.0	28
149	A Pulsar Wind Nebula Embedded in the Kilonova AT 2017gfo Associated with GW170817/GRB 170817A. <i>Astrophysical Journal</i> , 2019, 885, 60.	1.6	20
150	Optimal Search Strategy for Finding Transients in Large-sky Error Regions under Realistic Constraints. <i>Astrophysical Journal</i> , 2019, 876, 104.	1.6	5
151	Jetâ€œCocoon Outflows from Neutron Star Mergers: Structure, Light Curves, and Fundamental Physics. <i>Astrophysical Journal</i> , 2019, 881, 89.	1.6	29
152	Short GRB 160821B: A Reverse Shock, a Refreshed Shock, and a Well-sampled Kilonova. <i>Astrophysical Journal</i> , 2019, 883, 48.	1.6	96
153	Follow-up of the Neutron Star Bearing Gravitational-wave Candidate Events S190425z and S190426c with MMT and SOAR. <i>Astrophysical Journal Letters</i> , 2019, 880, L4.	3.0	63
154	GROWTH on S190510g: DECam Observation Planning and Follow-up of a Distant Binary Neutron Star Merger Candidate. <i>Astrophysical Journal Letters</i> , 2019, 881, L16.	3.0	30
155	The host galaxies of double compact objects across cosmic time. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 4622-4631.	1.6	25
156	Neutron star binary orbits in their host potential: effect on early r-process enrichment. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 296-311.	1.6	25
157	A First Search for Prompt Radio Emission from a Gravitational-wave Event. <i>Astrophysical Journal Letters</i> , 2019, 877, L39.	3.0	22
158	GROWTH on S190426c: Real-time Search for a Counterpart to the Probable Neutron Starâ€œBlack Hole Merger using an Automated Difference Imaging Pipeline for DECam. <i>Astrophysical Journal Letters</i> , 2019, 881, L7.	3.0	39
159	Late-time Afterglow from Double-sided Structured Jets: Application to GRB 170817A. <i>Astrophysical Journal</i> , 2019, 880, 39.	1.6	8
160	A Rapidly Declining Transient Discovered with the Subaru/Hyper Suprime-Cam. <i>Astrophysical Journal</i> , 2019, 885, 13.	1.6	4
161	On-axis view of GRB 170817A. <i>Astronomy and Astrophysics</i> , 2019, 628, A18.	2.1	47
162	A multidimensional implementation of the Advanced Spectral neutrino Leakage scheme. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 4211-4229.	1.6	13

#	ARTICLE	IF	CITATIONS
163	Prospects for multi-messenger extended emission from core-collapse supernovae in the Local Universe. <i>European Physical Journal Plus</i> , 2019, 134, 1.	1.2	10
164	The afterglow and kilonova of the short GRB 160821B. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 13-27.	1.6	78
165	Studying newborn neutron stars by the transient emission after stellar collapses and compact binary mergers. <i>AIP Conference Proceedings</i> , 2019, 1799, 020001.	0.3	2
166	An unusual transient following the short GRB 071227. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 13-27.	1.6	2
167	possis: predicting spectra, light curves, and polarization for multidimensional models of supernovae and kilonovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 5037-5045.	1.6	113
168	Black Hole Hyperaccretion and Gamma-ray Burststwo. <i>Chinese Astronomy and Astrophysics</i> , 2019, 43, 143-177.	0.1	2
169	Improved leakage-equilibration-absorption scheme ( $\text{leas}$ ) for neutrino physics in compact object mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 4754-4789.	1.6	52
170	Serendipitous discoveries of kilonovae in the LSST main survey: maximizing detections of sub-threshold gravitational wave events. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 4260-4273.	1.6	26
171	Black holes, gravitational waves and fundamental physics: a roadmap. <i>Classical and Quantum Gravity</i> , 2019, 36, 143001.	1.5	451
172	Jet structure in the afterglow phase for gamma-ray bursts with a precessing jet. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 3214-3220.	1.6	8
173	Spectral classification of gravitational-wave emission and equation of state constraints in binary neutron star mergers. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2019, 46, 113002.	1.4	41
174	A Strategy for LSST to Unveil a Population of Kilonovae without Gravitational-wave Triggers. <i>Publications of the Astronomical Society of the Pacific</i> , 2019, 131, 068004.	1.0	19
175	The chemical evolution of r-process elements from neutron star mergers: the role of a 2-phase interstellar medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 580-594.	1.6	32
176	A new delay time distribution for merging neutron stars tested against Galactic and cosmic data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 2896-2909.	1.6	49
177	Merger and Mass Ejection of Neutron Star Binaries. <i>Annual Review of Nuclear and Particle Science</i> , 2019, 69, 41-64.	3.5	165
178	The Common Envelope Jet Supernova (CEJSN) r-process Scenario. <i>Astrophysical Journal</i> , 2019, 878, 24.	1.6	42
179	Radioactive Heating and Late Time Kilonova Light Curves. <i>Astrophysical Journal</i> , 2019, 876, 128.	1.6	47
180	LSST Target-of-opportunity Observations of Gravitational-wave Events: Essential and Efficient. <i>Astrophysical Journal</i> , 2019, 874, 88.	1.6	37

#	ARTICLE	IF	CITATIONS
181	Background-limited Imaging in the Near Infrared with Warm InGaAs Sensors: Applications for Time-domain Astronomy. <i>Astronomical Journal</i> , 2019, 157, 46.	1.9	13
182	Non-thermal afterglow of the binary neutron star merger GW170817: a more natural modelling of electron energy distribution leads to a qualitatively different new solution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 2155-2166.	1.6	6
183	Multiwavelength studies of gravitational wave sources: Physics and phenomenology. <i>Astronomische Nachrichten</i> , 2019, 340, 346-350.	0.6	0
184	Presto-Color: A Photometric Survey Cadence for Explosive Physics and Fast Transients. <i>Publications of the Astronomical Society of the Pacific</i> , 2019, 131, 068002.	1.0	14
185	Multi-messenger Extended Emission from the Compact Remnant in GW170817. <i>Astrophysical Journal Letters</i> , 2019, 876, L2.	3.0	12
186	$r$ -process nucleosynthesis: connecting rare-isotope beam facilities with the cosmos. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2019, 46, 083001.	1.4	115
187	Current status of $r$ -process nucleosynthesis. <i>Progress in Particle and Nuclear Physics</i> , 2019, 107, 109-166.	5.6	124
188	A multiwavelength analysis of a collection of short-duration GRBs observed between 2012 and 2015. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 5294-5318.	1.6	22
189	Light Curves of a Shock-breakout Material and a Relativistic Off-axis Jet from a Binary Neutron Star System. <i>Astrophysical Journal</i> , 2019, 871, 200.	1.6	20
190	A luminosity distribution for kilonovae based on short gamma-ray burst afterglows. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 672-690.	1.6	56
191	The Palomar Transient Factory Sky2Night programme. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 4507-4528.	1.6	11
192	The Benefit of Simultaneous Seven-filter Imaging: 10 Years of GROND Observations. <i>Publications of the Astronomical Society of the Pacific</i> , 2019, 131, 015002.	1.0	5
193	Extended Calculations of Energy Levels and Transition Rates of Nd II-IV Ions for Application to Neutron Star Mergers. <i>Astrophysical Journal, Supplement Series</i> , 2019, 240, 29.	3.0	45
194	2900 Square Degree Search for the Optical Counterpart of Short Gamma-Ray Burst GRB 180523B with the Zwicky Transient Facility. <i>Publications of the Astronomical Society of the Pacific</i> , 2019, 131, 048001.	1.0	27
195	Binaries as Sources of Gravitational Waves. , 2019, , 191-207.		0
196	Compact radio emission indicates a structured jet was produced by a binary neutron star merger. <i>Science</i> , 2019, 363, 968-971.	6.0	272
197	Gravitational waveforms from spectral Einstein code simulations: Neutron star-neutron star and low-mass black hole-neutron star binaries. <i>Physical Review D</i> , 2019, 99, .	1.6	41
198	Fingerprints of Heavy-Element Nucleosynthesis in the Late-Time Lightcurves of Kilonovae. <i>Physical Review Letters</i> , 2019, 122, 062701.	2.9	84

#	ARTICLE	IF	CITATIONS
199	Spot size diagnosis of monochromatic X-ray optics system based on an algorithm. , 2019, , .		0
200	Spiral-wave Wind for the Blue Kilonova. <i>Astrophysical Journal Letters</i> , 2019, 886, L30.	3.0	62
201	Upscattered Cocoon Emission in Short Gamma-Ray Bursts as High-energy Gamma-Ray Counterparts to Gravitational Waves. <i>Astrophysical Journal Letters</i> , 2019, 887, L16.	3.0	17
202	The Lanthanide Fraction Distribution in Metal-poor Stars: A Test of Neutron Star Mergers as the Dominant r-process Site. <i>Astrophysical Journal</i> , 2019, 882, 40.	1.6	44
203	Radio afterglows of binary neutron star mergers: a population study for current and future gravitational wave observing runs. <i>Astronomy and Astrophysics</i> , 2019, 631, A39.	2.1	18
204	A statistical method for the identification of stars enriched in neutron-capture elements from medium-resolution spectra. <i>Astronomy and Astrophysics</i> , 2019, 631, A93.	2.1	1
205	GROWTH on S190425z: Searching Thousands of Square Degrees to Identify an Optical or Infrared Counterpart to a Binary Neutron Star Merger with the Zwicky Transient Facility and Palomar Gattini-IR. <i>Astrophysical Journal Letters</i> , 2019, 885, L19.	3.0	86
206	The r-process Nucleosynthesis in the Outflows from Short GRB Accretion Disks. <i>Astrophysical Journal</i> , 2019, 882, 163.	1.6	19
207	Waveform systematics for binary neutron star gravitational wave signals: Effects of spin, precession, and the observation of electromagnetic counterparts. <i>Physical Review D</i> , 2019, 100, .	1.6	23
208	Distinguishing the nature of comparable-mass neutron star binary systems with multimessenger observations: GW170817 case study. <i>Physical Review D</i> , 2019, 100, .	1.6	54
209	Binary neutron star mergers: Effects of spin and post-merger dynamics. <i>Physical Review D</i> , 2019, 100, .	1.6	27
210	The optical electromagnetic counterpart of the gravitational wave event GW170817. <i>Nuclear and Particle Physics Proceedings</i> , 2019, 306-308, 42-49.	0.2	2
211	The evolution of the X-ray and radio emission of GW 170817/GRB 170817A. <i>Nuclear and Particle Physics Proceedings</i> , 2019, 306-308, 50-52.	0.2	0
212	Jet Propagation in Neutron Star Mergers and GW170817. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	1.6	35
213	GW170817 –the first observed neutron star merger and its kilonova: Implications for the astrophysical site of the r-process. <i>European Physical Journal A</i> , 2019, 55, 1.	1.0	69
214	Search for Gravitational-wave Signals Associated with Gamma-Ray Bursts during the Second Observing Run of Advanced LIGO and Advanced Virgo. <i>Astrophysical Journal</i> , 2019, 886, 75.	1.6	29
215	Identification of strontium in the merger of two neutron stars. <i>Nature</i> , 2019, 574, 497-500.	13.7	278
216	Properties of the Binary Neutron Star Merger GW170817. <i>Physical Review X</i> , 2019, 9, .	2.8	728

#	ARTICLE	IF	CITATIONS
217	Cooling off with a kilonova – lower limit on the expansion velocity of GW170817. Monthly Notices of the Royal Astronomical Society, 2019, 483, 624-627.	1.6	5
218	A long-lived neutron star merger remnant in GW170817: constraints and clues from X-ray observations. Monthly Notices of the Royal Astronomical Society, 2019, 483, 1912-1921.	1.6	121
219	The origin of polarization in kilonovae and the case of the gravitational-wave counterpart AT 2017gfo. Nature Astronomy, 2019, 3, 99-106.	4.2	29
220	Observational evidence for extended emission to GW170817. Monthly Notices of the Royal Astronomical Society: Letters, 2019, 482, L46-L49.	1.2	23
221	A kilonova associated with GRB 070809. Nature Astronomy, 2020, 4, 77-82.	4.2	55
222	Identification of Absorption Lines of Heavy Metals in the Wavelength Range 0.97–1.32 $\mu$ m. Astrophysical Journal, Supplement Series, 2020, 246, 10.	3.0	10
223	Phenomenology and Physics of Late-Type Stars. , 2020, , 191-222.		0
224	Kilonovae. Living Reviews in Relativity, 2020, 23, 1.	8.2	268
225	Calculations of astrophysical reaction rates using ENDF/B-VIII.0 library. Nuclear Data Sheets, 2020, 167, 76-107.	0.7	2
226	The electromagnetic counterparts of compact binary mergers. Physics Reports, 2020, 886, 1-84.	10.3	98
227	Searching for electromagnetic counterparts to gravitational-wave merger events with the prototype Gravitational-Wave Optical Transient Observer (GOTO-4). Monthly Notices of the Royal Astronomical Society, 2020, 497, 726-738.	1.6	68
228	A thousand days after the merger: Continued X-ray emission from GW170817. Monthly Notices of the Royal Astronomical Society, 2020, 498, 5643-5651.	1.6	79
229	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2020, 23, 3.	8.2	447
230	Simulating kilonovae in the $\Lambda$ CDM universe. Monthly Notices of the Royal Astronomical Society, 2020, 498, 926-939.	1.6	4
231	Using machine learning for transient classification in searches for gravitational-wave counterparts. Monthly Notices of the Royal Astronomical Society, 2020, 497, 1320-1331.	1.6	10
232	Astrophysical implications of neutron star inspiral and coalescence. International Journal of Modern Physics D, 2020, 29, 2041015.	0.9	17
233	Searching for the radio remnants of short-duration gamma-ray bursts. Monthly Notices of the Royal Astronomical Society, 2020, 500, 1708-1720.	1.6	28
234	Electromagnetic counterparts of gravitational wave sources at the Very Large Telescope. Nature Reviews Physics, 2020, 2, 455-457.	11.9	7

#	ARTICLE	IF	CITATIONS
235	The Physics of Kilonovae. <i>Frontiers in Physics</i> , 2020, 8, .	1.0	5
236	Modelling double neutron stars: radio and gravitational waves. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 1587-1610.	1.6	36
237	AT2018kzr: the merger of an oxygen-neon white dwarf and a neutron star or black hole. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 246-262.	1.6	18
238	Sub-radian-accuracy gravitational waves from coalescing binary neutron stars in numerical relativity. II. Systematic study on the equation of state, binary mass, and mass ratio. <i>Physical Review D</i> , 2020, 101, .	1.6	31
239	Gravitational waves and mass ejecta from binary neutron star mergers: Effect of the spin orientation. <i>Physical Review D</i> , 2020, 102, .	1.6	12
240	Measuring the Hubble constant with a sample of kilonovae. <i>Nature Communications</i> , 2020, 11, 4129.	5.8	35
241	Multimessenger constraints on the neutron-star equation of state and the Hubble constant. <i>Science</i> , 2020, 370, 1450-1453.	6.0	239
242	Increasing the accuracy of binary neutron star simulations with an improved vacuum treatment. <i>Physical Review D</i> , 2020, 102, .	1.6	9
243	Exploring the astrophysical conditions for the creation of the first r-process peak. <i>Journal of Physics: Conference Series</i> , 2020, 1667, 012030.	0.3	0
244	Short Duration Gamma-Ray Bursts and Their Outflows in Light of GW170817. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 7, .	1.1	6
245	Electromagnetic counterparts to gravitational wave events from <i>Gaia</i>. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 3264-3273.	1.6	4
246	Radioactive Heating Rate of r-process Elements and Macronova Light Curve. <i>Astrophysical Journal</i> , 2020, 891, 152.	1.6	60
247	Science case for the Einstein telescope. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 050-050.	1.9	602
248	Optimal gravitational-wave follow-up tiling strategies using a genetic algorithm. <i>Physical Review D</i> , 2020, 101, .	1.6	1
249	Web application for galaxy-targeted follow-up of electromagnetic counterparts to gravitational wave sources. <i>Astronomy and Astrophysics</i> , 2020, 634, A32.	2.1	8
250	A Search for Neutron Star-Black Hole Binary Mergers in the Short Gamma-Ray Burst Population. <i>Astrophysical Journal</i> , 2020, 895, 58.	1.6	48
251	A Deep CFHT Optical Search for a Counterpart to the Possible Neutron Star-Black Hole Merger GW190814. <i>Astrophysical Journal</i> , 2020, 895, 96.	1.6	40
252	Lifetime of short-period binaries measured from their Galactic kinematics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 2271-2286.	1.6	20

#	ARTICLE	IF	CITATIONS
253	The key role of magnetic fields in binary neutron star mergers. <i>General Relativity and Gravitation</i> , 2020, 52, 1.	0.7	48
254	Lensed or not lensed: determining lensing magnifications for binary neutron star mergers from a single detection. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 3740-3750.	1.6	26
255	A comparison between short GRB afterglows and kilonova AT2017gfo: shedding light on kilonovae properties. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 3379-3397.	1.6	52
256	Dynamic scheduling: target of opportunity observations of gravitational wave events. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 4366-4371.	1.6	11
257	Systematic opacity calculations for kilonovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 1369-1392.	1.6	144
258	Gamma-Rays from Kilonovae and the Cosmic Gamma-Ray Background. <i>Astrophysical Journal</i> , 2020, 892, 45.	1.6	6
259	Diversity of Kilonova Light Curves. <i>Astrophysical Journal</i> , 2020, 889, 171.	1.6	91
260	Binary Neutron Star Mergers After GW170817. <i>Frontiers in Astronomy and Space Sciences</i> , 2020, 7, .	1.1	19
261	Neutron-Capture Element Abundances in Planetary Nebulae. <i>Galaxies</i> , 2020, 8, 50.	1.1	3
262	Extracting high-level information from gamma-ray burst supernova spectra. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 5956-5965.	1.6	12
263	The impact of isomers on a kilonova associated with neutron star mergers. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 493, L103-L107.	1.2	14
264	Unequal mass binary neutron star simulations with neutrino transport: Ejecta and neutrino emission. <i>Physical Review D</i> , 2020, 101, .	1.6	38
265	Mass measurements of neutron-rich gallium isotopes refine production of nuclei of the first $r$ -process abundance peak in neutron-star merger calculations. <i>Physical Review C</i> , 2020, 101, .	1.1	15
266	Exploring the mass surface near the rare-earth abundance peak via precision mass measurements at JYFLTRAP. <i>Physical Review C</i> , 2020, 101, .	1.1	22
267	Updated parameter estimates for GW190425 using astrophysical arguments and implications for the electromagnetic counterpart. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 494, 190-198.	1.6	37
268	$r$ -process Enrichment in the Galactic Halo Characterized by Nucleosynthesis Variation in the Ejecta of Coalescing Neutron Star Binaries. <i>Astrophysical Journal</i> , 2020, 889, 119.	1.6	7
269	Overview of KAGRA: KAGRA science. <i>Progress of Theoretical and Experimental Physics</i> , 2021, 2021, .	1.8	31
270	Nucleosynthesis in magneto-rotational supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	1.6	39



#	ARTICLE	IF	CITATIONS
271	Nucleosynthesis: The Where and How. , 2021, , 1-19.		1
272	Mergers of Binary Neutron Star Systems: A Multimessenger Revolution. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 7, .	1.1	16
273	Numerical Relativity Simulations of the Neutron Star Merger GW170817: Long-term Remnant Evolutions, Winds, Remnant Disks, and Nucleosynthesis. <i>Astrophysical Journal</i> , 2021, 906, 98.	1.6	94
274	Comparing inclination-dependent analyses of kilonova transients. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 3057-3065.	1.6	34
275	r-Process Nucleosynthesis from Compact Binary Mergers. , 2021, , 1-56.		12
276	Afterglow Light Curves of Nonrelativistic Ejecta Mass in a Stratified Circumstellar Medium. <i>Astrophysical Journal</i> , 2021, 907, 78.	1.6	10
277	GW170817 and GW190814: Tension on the Maximum Mass. <i>Astrophysical Journal Letters</i> , 2021, 908, L28.	3.0	63
278	Origin of the heaviest elements: The rapid neutron-capture process. <i>Reviews of Modern Physics</i> , 2021, 93, .	16.4	326
279	Detectability of kilonovae in optical surveys: <i>post-mortem</i> examination of the LVC O3 run follow-up. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 1294-1303.	1.6	22
280	Where Binary Neutron Stars Merge: Predictions from IllustrisTNG. <i>Astrophysical Journal</i> , 2021, 909, 207.	1.6	4
281	Spritz: general relativistic magnetohydrodynamics with neutrinos. <i>Classical and Quantum Gravity</i> , 2021, 38, 085021.	1.5	10
282	Interpreting binary neutron star mergers: describing the binary neutron star dynamics, modelling gravitational waveforms, and analyzing detections. <i>General Relativity and Gravitation</i> , 2021, 53, 1.	0.7	67
283	Reconstructing Masses of Merging Neutron Stars from Stellar r-process Abundance Signatures. <i>Astrophysical Journal</i> , 2021, 909, 21.	1.6	13
284	A Possible Kilonova Powered by Magnetic Wind from a Newborn Black Hole. <i>Astrophysical Journal</i> , 2021, 911, 97.	1.6	6
285	The intermediate neutron capture process. <i>Astronomy and Astrophysics</i> , 2021, 648, A119.	2.1	36
286	Optimizing serendipitous detections of kilonovae: cadence and filter selection. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 2822-2831.	1.6	16
287	Axisymmetric Radiative Transfer Models of Kilonovae. <i>Astrophysical Journal</i> , 2021, 910, 116.	1.6	67
288	Gravitational-wave physics and astronomy in the 2020s and 2030s. <i>Nature Reviews Physics</i> , 2021, 3, 344-366.	11.9	96

#	ARTICLE	IF	CITATIONS
289	Gravitational Wave Physics and Astronomy in the nascent era. Progress of Theoretical and Experimental Physics, 0, . .	1.8	3
290	Variability, periodicity, and contact binaries in <i>WISE</i> . Monthly Notices of the Royal Astronomical Society, 2021, 503, 3975-3991.	1.6	15
291	Signatures of r-process Elements in Kilonova Spectra. Astrophysical Journal, 2021, 913, 26.	1.6	40
292	Tight multimessenger constraints on the neutron star equation of state from GW170817 and a forward model for kilonova light-curve synthesis. Monthly Notices of the Royal Astronomical Society, 2021, 505, 3016-3032.	1.6	49
293	Targeting Bright Metal-poor Stars in the Disk and Halo Systems of the Galaxy. Astrophysical Journal, 2021, 913, 11.	1.6	18
294	AT2017gfo: Bayesian inference and model selection of multicomponent kilonovae and constraints on the neutron star equation of state. Monthly Notices of the Royal Astronomical Society, 2021, 505, 1661-1677.	1.6	63
295	GW190814 follow-up with the optical telescope MeerLICHT. Astronomy and Astrophysics, 2021, 649, A72.	2.1	15
296	A Low-mass Binary Neutron Star: Long-term Ejecta Evolution and Kilonovae with Weak Blue Emission. Astrophysical Journal, 2021, 913, 100.	1.6	40
297	Searches after Gravitational Waves Using ARizona Observatories (SAGUARO): Observations and Analysis from Advanced LIGO/Virgo's Third Observing Run. Astrophysical Journal, 2021, 912, 128.	1.6	24
298	Calibration of the Advanced Spectral Leakage scheme for neutron star merger simulations, and extension to smoothed-particle hydrodynamics. Monthly Notices of the Royal Astronomical Society, 2021, 505, 2575-2593.	1.6	8
299	Radio afterglows from compact binary coalescences: prospects for next-generation telescopes. Monthly Notices of the Royal Astronomical Society, 2021, 505, 2647-2661.	1.6	8
300	Light-curve classification with recurrent neural networks for GOTO: dealing with imbalanced data. Monthly Notices of the Royal Astronomical Society, 2021, 505, 4345-4361.	1.6	17
301	Continued Radio Observations of GW170817 3.5 yr Post-merger. Astrophysical Journal Letters, 2021, 914, L20.	3.0	33
302	On the Binary Neutron Star Post-merger Magnetar Origin of XRT 210423. Astrophysical Journal Letters, 2021, 915, L11.	3.0	7
303	Predicting electromagnetic counterparts using low-latency gravitational-wave data products. Monthly Notices of the Royal Astronomical Society, 2021, 505, 4235-4248.	1.6	9
304	Multi-messenger astronomy with INTEGRAL. New Astronomy Reviews, 2021, 92, 101595.	5.2	6
305	Gamma ray burst studies with THESEUS. Experimental Astronomy, 2021, 52, 277-308.	1.6	9
306	The evolution of binary neutron star post-merger remnants: a review. General Relativity and Gravitation, 2021, 53, 1.	0.7	50

#	ARTICLE	IF	CITATIONS
307	Constraints on the presence of platinum and gold in the spectra of the kilonova AT2017gfo. Monthly Notices of the Royal Astronomical Society, 2021, 506, 3560-3577.	1.6	32
308	The B-type binaries characterization programme I. Orbital solutions for the 30 Doradus population. Monthly Notices of the Royal Astronomical Society, 2021, 507, 5348-5375.	1.6	18
309	Nebular Emission from Lanthanide-rich Ejecta of Neutron Star Merger. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	25
310	Dynamical ejecta synchrotron emission as a possible contributor to the changing behaviour of GRB170817A afterglow. Monthly Notices of the Royal Astronomical Society, 2021, 506, 5908-5915.	1.6	22
311	Discovery and confirmation of the shortest gamma-ray burst from a collapsar. Nature Astronomy, 2021, 5, 917-927.	4.2	69
312	GECKO Optical Follow-up Observation of Three Binary Black Hole Merger Events: GW190408_181802, GW190412, and GW190503_185404. Astrophysical Journal, 2021, 916, 47.	1.6	5
313	Fallback Accretion Model for the Years-to-decades X-Ray Counterpart to GW170817. Astrophysical Journal Letters, 2021, 916, L13.	3.0	11
314	Advanced Virgo: Status of the Detector, Latest Results and Future Prospects. Universe, 2021, 7, 322.	0.9	15
315	<i>Swift</i>/UVOT follow-up of gravitational wave alerts in the O3 era. Monthly Notices of the Royal Astronomical Society, 2021, 507, 1296-1317.	1.6	15
316	A Broad Grid of 2D Kilonova Emission Models. Astrophysical Journal, 2021, 918, 10.	1.6	38
317	Does a long-lived remnant neutron star exist after short gamma-ray burst GRB 160821B?. Astronomy and Astrophysics, 2021, 654, A124.	2.1	9
318	Kilonova Emission from Black Hole–Neutron Star Mergers. II. Luminosity Function and Implications for Target-of-opportunity Observations of Gravitational-wave Triggers and Blind Searches. Astrophysical Journal, 2021, 917, 24.	1.6	30
319	Bayesian inference of multimessenger astrophysical data: Methods and applications to gravitational waves. Physical Review D, 2021, 104, .	1.6	25
320	Probing Kilonova Ejecta Properties Using a Catalog of Short Gamma-Ray Burst Observations. Astrophysical Journal, 2021, 916, 89.	1.6	20
321	Unveiling the gravitational universe at $\hat{1}/4$ -Hz frequencies. Experimental Astronomy, 2021, 51, 1333-1383.	1.6	88
322	Fast-transient Searches in Real Time with ZTFReST: Identification of Three Optically Discovered Gamma-Ray Burst Afterglows and New Constraints on the Kilonova Rate. Astrophysical Journal, 2021, 918, 63.	1.6	42
323	Constraining bright optical counterparts of fast radio bursts. Astronomy and Astrophysics, 2021, 653, A119.	2.1	10
324	Gamma-Ray Emission Produced by r-process Elements from Neutron Star Mergers. Astrophysical Journal, 2021, 919, 59.	1.6	11

#	ARTICLE	IF	CITATIONS
325	Kilonovae Across the Nuclear Physics Landscape: The Impact of Nuclear Physics Uncertainties on r-process-powered Emission. <i>Astrophysical Journal</i> , 2021, 918, 44.	1.6	66
326	HARM3D+NUC: A New Method for Simulating the Post-merger Phase of Binary Neutron Star Mergers with GRMHD, Tabulated EOS, and Neutrino Leakage. <i>Astrophysical Journal</i> , 2021, 919, 95.	1.6	17
327	Constraints on the Dense Matter Equation of State and Neutron Star Properties from NICER's Mass-Radius Estimate of PSR J0740+6620 and Multimessenger Observations. <i>Astrophysical Journal Letters</i> , 2021, 918, L29.	3.0	190
328	First Multimessenger Observations of a Neutron Star Merger. <i>Annual Review of Astronomy and Astrophysics</i> , 2021, 59, 155-202.	8.1	66
329	The Broadband Counterpart of the Short GRB 200522A at $z=0.5536$ : A Luminous Kilonova or a Collimated Outflow with a Reverse Shock?. <i>Astrophysical Journal</i> , 2021, 906, 127.	1.6	48
330	Neutron Star Mergers in Active Galactic Nucleus Accretion Disks: Cocoon and Ejecta Shock Breakouts. <i>Astrophysical Journal Letters</i> , 2021, 906, L11.	3.0	44
331	Accretion-to-jet energy conversion efficiency in GW170817. <i>Astronomy and Astrophysics</i> , 2021, 645, A93.	2.1	13
332	Exploring laser-driven neutron sources for neutron capture cascades and the production of neutron-rich isotopes. <i>Physical Review C</i> , 2021, 103, .	1.1	11
334	Assessment of Stellar Nucleosynthesis Abundances Using ENDF/B-VIII.0 and ATENDL-2015 Evaluated Nuclear Data Libraries. <i>Springer Proceedings in Physics</i> , 2019, , 141-144.	0.1	2
335	GW170817: The Dawn of Multi-messenger Astronomy Including Gravitational Waves. , 2018, , 489-497.		1
336	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2
337	The rise and fall of an extraordinary Ca-rich transient. <i>Astronomy and Astrophysics</i> , 2020, 635, A186.	2.1	15
338	Observational constraints on the optical and near-infrared emission from the neutron star-black hole binary merger candidate S190814bv. <i>Astronomy and Astrophysics</i> , 2020, 643, A113.	2.1	70
339	Design and Operation of the ATLAS Transient Science Server. <i>Publications of the Astronomical Society of the Pacific</i> , 2020, 132, 085002.	1.0	138
340	Can jets make the radioactively powered emission from neutron star mergers bluer?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 1772-1783.	1.6	41
341	Predicted rates of merging neutron stars in galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 1071-1086.	1.6	14
342	PS15cey and PS17cke: prospective candidates from the Pan-STARRS Search for kilonovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 4213-4228.	1.6	13
343	Polarized kilonovae from black hole-neutron star mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 501, 1891-1899.	1.6	18

#	ARTICLE	IF	CITATIONS
344	Standardizing kilonovae and their use as standard candles to measure the Hubble constant. <i>Physical Review Research</i> , 2020, 2, .	1.3	35
345	Numerical Simulations of Black Hole Accretion Flows. <i>Supercomputing Frontiers and Innovations</i> , 2018, 5, .	0.5	5
346	Abundance Ratios in GALAH DR2 and Their Implications for Nucleosynthesis. <i>Astrophysical Journal</i> , 2019, 886, 84.	1.6	29
347	Deep ATCA and VLA Radio Observations of Short-GRB Host Galaxies. Constraints on Star Formation Rates, Afterglow Flux, and Kilonova Radio Flares. <i>Astrophysical Journal</i> , 2019, 887, 206.	1.6	23
348	Composition Effects on Kilonova Spectra and Light Curves. I. <i>Astrophysical Journal</i> , 2020, 899, 24.	1.6	37
349	GRB 111209A/SN 2011kl: Collapse of a Supramassive Magnetar with r-mode Oscillation and Fallback Accretion onto a Newborn Black Hole. <i>Astrophysical Journal</i> , 2020, 895, 46.	1.6	4
350	Kilonova Emission from Black Hole–Neutron Star Mergers. I. Viewing-angle-dependent Lightcurves. <i>Astrophysical Journal</i> , 2020, 897, 20.	1.6	37
351	Inclination Dependence of Kilonova Light Curves from Globally Aspherical Geometries. <i>Astrophysical Journal</i> , 2020, 897, 150.	1.6	45
352	The Origin of Elements from Carbon to Uranium. <i>Astrophysical Journal</i> , 2020, 900, 179.	1.6	348
353	Postmerger Mass Ejection of Low-mass Binary Neutron Stars. <i>Astrophysical Journal</i> , 2020, 901, 122.	1.6	66
354	Localization of Compact Binary Sources with Second-generation Gravitational-wave Interferometer Networks. <i>Astrophysical Journal</i> , 2020, 902, 71.	1.6	13
355	Constraining the Kilonova Rate with Zwicky Transient Facility Searches Independent of Gravitational Wave and Short Gamma-Ray Burst Triggers. <i>Astrophysical Journal</i> , 2020, 904, 155.	1.6	26
356	Kilonova Luminosity Function Constraints Based on Zwicky Transient Facility Searches for 13 Neutron Star Merger Triggers during O3. <i>Astrophysical Journal</i> , 2020, 905, 145.	1.6	69
357	Thunder and Lightning: Using Neutron-star Mergers as Simultaneous Standard Candles and Sirens to Measure Cosmological Parameters. <i>Astrophysical Journal Letters</i> , 2020, 892, L16.	3.0	11
358	Monte-Carlo Neutrino Transport in Neutron Star Merger Simulations. <i>Astrophysical Journal Letters</i> , 2020, 902, L27.	3.0	50
359	Are interactions with neutron star merger winds shaping the jets?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 903-913.	1.6	12
360	Formation and evolution of binary neutron stars: mergers and their host galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 1557-1586.	1.6	17
361	Two Sites of r-process Production Assessed on the Basis of the Age-tagged Abundances of Solar Twins. <i>Astrophysical Journal Letters</i> , 2021, 920, L32.	3.0	9

#	ARTICLE	IF	CITATIONS
362	Multimodal Analysis of Gravitational Wave Signals and Gamma-Ray Bursts from Binary Neutron Star Mergers. <i>Universe</i> , 2021, 7, 394.	0.9	3
363	Implementation of Monte Carlo Transport in the General Relativistic SpEC Code. <i>Astrophysical Journal</i> , 2021, 920, 82.	1.6	16
364	Multi-messenger astrophysics with THESEUS in the 2030s. <i>Experimental Astronomy</i> , 2021, 52, 245-275.	1.6	12
365	Modeling the fast optical transient SN 2019bkc/ATLAS19dqr with a central engine and implication for its origin. <i>Research in Astronomy and Astrophysics</i> , 2021, 21, 200.	0.7	1
366	The Role of Radioactive Isotopes in Astrophysics. <i>Astrophysics and Space Science Library</i> , 2018, , 29-87.	1.0	2
367	Revisiting the science case for near-UV spectroscopy with the VLT. , 2018, , .		5
368	Magnetic Fields in Gamma-Ray Bursts and Their Polarised Emission. <i>Astrophysics and Space Science Library</i> , 2019, , 337-361.	1.0	2
369	Neutron Star Mergers as r-Process Sources. <i>Springer Proceedings in Physics</i> , 2019, , 105-110.	0.1	0
371	Artificial Intelligence-Assisted Inversion (AIAI) of Synthetic Type Ia Supernova Spectra. <i>Astrophysical Journal, Supplement Series</i> , 2020, 250, 12.	3.0	3
372	Half-a-century of gamma-ray astrophysics at the Max-Planck Institute for Extraterrestrial Physics. <i>European Physical Journal H</i> , 2021, 46, 1.	0.5	0
373	An analysis of the spectroscopic signatures of layering in the ejecta of Type Ia supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 3580-3598.	1.6	7
374	First direct measurements of $^{60}\text{Ni}$ and $^{64}\text{Ni}$ abundances in a Type Ia supernova. <i>Physical Review Letters</i> , 2021, 126, 111101.	1.1	6
375	ASAS-SN search for optical counterparts of gravitational-wave events from the third observing run of Advanced LIGO/Virgo. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 3427-3440.	1.6	14
377	Capitalizing on nuclear data libraries' comprehensiveness to obtain solar r-process abundances. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 0, , .	1.4	1
378	The use of the ENDF library for nucleosynthesis studies. <i>EPJ Web of Conferences</i> , 2020, 239, 07002.	0.1	1
379	Present Status of Neutron-, Photo-induced and Spontaneous Fission Yields Experimental Data. <i>EPJ Web of Conferences</i> , 2020, 242, 02001.	0.1	2
380	Gravitationswellen. , 2020, , 431-460.		0
381	Impacts of Isomers on a Light Curve of a Kilonova Associated with Neutron Star Mergers. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
382	Cosmic Radionuclides and (gamma)-ray Line Observations. , 2020, , .		0
383	Novel Model of an Ultra-stripped Supernova Progenitor of a Double Neutron Star. <i>Astrophysical Journal Letters</i> , 2021, 920, L36.	3.0	12
384	Mapping dynamical ejecta and disk masses from numerical relativity simulations of neutron star mergers. <i>Classical and Quantum Gravity</i> , 2022, 39, 015008.	1.5	29
385	The creation of the first r-process peak elements; effects of beta decay rates and nuclear masses. <i>Journal of Physics: Conference Series</i> , 2020, 1668, 012029.	0.3	1
386	Dynamical ejecta of neutron star mergers with nucleonic weak processes $\hat{\epsilon}$ II: kilonova emission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 2820-2840.	1.6	26
387	Electromagnetic Counterparts of Gravitational Waves in the Hz-kHz Range. , 2021, , 1-45.		0
388	The Panchromatic Afterglow of GW170817: The Full Uniform Data Set, Modeling, Comparison with Previous Results, and Implications. <i>Astrophysical Journal</i> , 2021, 922, 154.	1.6	27
389	A Decade and a Half of Fast Radio Burst Observations. <i>Universe</i> , 2021, 7, 453.	0.9	21
390	No Detectable Kilonova Counterpart is Expected for O3 Neutron Star $\hat{\epsilon}$ Black Hole Candidates. <i>Astrophysical Journal</i> , 2021, 921, 156.	1.6	33
391	Fallback Accretion Halted by R-process Heating in Neutron Star Mergers and Gamma-Ray Bursts. <i>Astrophysical Journal</i> , 2021, 922, 185.	1.6	8
392	Merging strangeon stars II: the ejecta and light curves. <i>Research in Astronomy and Astrophysics</i> , 2021, 21, 250.	0.7	8
393	Theoretical investigation of energy levels and transition for Ce IV. <i>Astronomy and Astrophysics</i> , 2022, 658, A82.	2.1	13
394	Estimating outflow masses and velocities in merger simulations: Impact of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} r \rangle \langle \text{mml:math} \rangle$ -process heating and neutrino cooling. <i>Physical Review D</i> , 2021, 104, .	1.6	19
395	The radioactive nuclei and in the Cosmos and in the solar system. <i>Publications of the Astronomical Society of Australia</i> , 2021, 38, .	1.3	25
396	The Gravitational-wave Optical Transient Observer (GOTO): prototype performance and prospects for transient science. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 2405-2422.	1.6	18
397	Data-driven Expectations for Electromagnetic Counterpart Searches Based on LIGO/Virgo Public Alerts. <i>Astrophysical Journal</i> , 2022, 924, 54.	1.6	56
398	Constraints on compact binary merger evolution from spin-orbit misalignment in gravitational-wave observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 1454-1461.	1.6	18
399	Interpolating detailed simulations of kilonovae: Adaptive learning and parameter inference applications. <i>Physical Review Research</i> , 2022, 4, .	1.3	13

#	ARTICLE	IF	CITATIONS
400	Production of Very Light Elements and Strontium in the Early Ejecta of Neutron Star Mergers. <i>Astrophysical Journal</i> , 2022, 925, 22.	1.6	33
401	Inferring Kilonova Population Properties with a Hierarchical Bayesian Framework. I. Nondetection Methodology and Single-event Analyses. <i>Astrophysical Journal</i> , 2022, 925, 58.	1.6	3
402	Radiation hydrodynamics modelling of kilonovae with SNEC. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 328-347.	1.6	17
403	Hubble Space Telescope Observations of GW170817: Complete Light Curves and the Properties of the Galaxy Merger of NGC 4993. <i>Astrophysical Journal</i> , 2022, 926, 49.	1.6	16
404	Optimizing Cadences with Realistic Light-curve Filtering for Serendipitous Kilonova Discovery with Vera Rubin Observatory. <i>Astrophysical Journal, Supplement Series</i> , 2022, 258, 5.	3.0	12
405	Jet launching from merging magnetized binary neutron stars with realistic equations of state. <i>Physical Review D</i> , 2021, 104, .	1.6	7
406	The Gravity Collective: A Search for the Electromagnetic Counterpart to the Neutron Star “Black Hole Merger GW190814. <i>Astrophysical Journal</i> , 2021, 923, 258.	1.6	19
407	A Late-time Galaxy-targeted Search for the Radio Counterpart of GW190814. <i>Astrophysical Journal</i> , 2021, 923, 66.	1.6	16
408	Rates of compact object coalescences. <i>Living Reviews in Relativity</i> , 2022, 25, 1.	8.2	102
409	Quantum gravity phenomenology at the dawn of the multi-messenger era—A review. <i>Progress in Particle and Nuclear Physics</i> , 2022, 125, 103948.	5.6	175
410	Post maximum light and late time optical imaging polarimetry of type I superluminous supernova 2020znr. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 5948-5963.	1.6	6
411	An Infrared Search for Kilonovae with the WINTER Telescope. I. Binary Neutron Star Mergers. <i>Astrophysical Journal</i> , 2022, 926, 152.	1.6	10
412	The GRB Prompt Emission: An Unsolved Puzzle. <i>Galaxies</i> , 2022, 10, 38.	1.1	6
413	On the Use of CHIME to Detect Long-duration Radio Transients from Neutron Star Mergers. <i>Astrophysical Journal</i> , 2022, 928, 72.	1.6	0
414	Host galaxies and electromagnetic counterparts to binary neutron star mergers across the cosmic time: detectability of GW170817-like events. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 2654-2668.	1.6	13
415	Discovery of Three Candidate Magnetar-powered Fast X-Ray Transients from Chandra Archival Data. <i>Astrophysical Journal</i> , 2022, 927, 211.	1.6	8
416	A Systematic Exploration of Kilonova Candidates from Neutron Star Mergers during the Third Gravitational-wave Observing Run. <i>Astrophysical Journal</i> , 2022, 927, 50.	1.6	6
417	First trap-assisted decay spectroscopy of the $^{81}\text{Ge}$ ground state. <i>European Physical Journal A</i> , 2022, 58, 1.	1.0	1



#	ARTICLE	IF	CITATIONS
418	Multimessenger Constraints for Ultradense Matter. <i>Physical Review X</i> , 2022, 12, .	2.8	61
419	Kilonova Detectability with Wide-field Instruments. <i>Astrophysical Journal</i> , 2022, 927, 163.	1.6	34
420	Population Properties of Gravitational-wave Neutron Star–Black Hole Mergers. <i>Astrophysical Journal</i> , 2022, 928, 167.	1.6	15
421	r-Process nucleosynthesis in gravitational-wave and other explosive astrophysical events. <i>Nature Reviews Physics</i> , 2022, 4, 306-318.	11.9	18
422	Single-lens mass measurement in the high-magnification microlensing event Gaia19bld located in the Galactic disc. <i>Astronomy and Astrophysics</i> , 2022, 657, A18.	2.1	6
423	VLT/MUSE and ATCA Observations of the Host Galaxy of the Short GRB 080905A at $z = 0.122$ . <i>Astrophysical Journal</i> , 2021, 923, 38.	1.6	0
424	On the validity of steady-state for nebular phase kilonovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 510, 3806-3837.	1.6	23
425	SOAR/Goodman Spectroscopic Assessment of Candidate Counterparts of the LIGO/Virgo Event GW190814*. <i>Astrophysical Journal</i> , 2022, 929, 115.	1.6	9
426	Linking the rates of neutron star binaries and short gamma-ray bursts. <i>Physical Review D</i> , 2022, 105, .	1.6	21
427	Simulating neutron star mergers with the Lagrangian Numerical Relativity code SPHINCS_BSSN. <i>European Physical Journal A</i> , 2022, 58, 1.	1.0	8
428	Prospects for multimessenger detection of binary neutron star mergers in the fourth LIGO–Virgo–KAGRA observing run. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 4159-4168.	1.6	20
429	Target-of-opportunity Observations of Gravitational-wave Events with Vera C. Rubin Observatory. <i>Astrophysical Journal, Supplement Series</i> , 2022, 260, 18.	3.0	21
430	Searches for Modulated $\gamma$ -Ray Precursors to Compact Binary Mergers in Fermi-GBM Data. <i>Astrophysical Journal</i> , 2022, 930, 45.	1.6	4
431	NLTE effects on kilonova expansion opacities. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 5174-5197.	1.6	21
432	Modelling the spectra of the kilonova AT2017gfo I. The photospheric epochs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 515, 631-651.	1.6	36
433	Jet launching from binary neutron star mergers: Incorporating neutrino transport and magnetic fields. <i>Physical Review D</i> , 2022, 105, .	1.6	16
434	Nuclear weak rates and nuclear weak processes in stars. <i>Progress in Particle and Nuclear Physics</i> , 2022, 126, 103974.	5.6	7
435	Multi-Messenger Constraints on the Hubble Constant through Combination of Gravitational Waves, Gamma-Ray Bursts and Kilonovae from Neutron Star Mergers. <i>Universe</i> , 2022, 8, 289.	0.9	13

#	ARTICLE	IF	CITATIONS
436	Neutrino emission from binary neutron star mergers: characterising light curves and mean energies. <i>European Physical Journal A</i> , 2022, 58, .	1.0	22
437	Exploring compact binary merger host galaxies and environments with <code>zELDA</code> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 2716-2735.	1.6	12
438	Searching for the origin of the rare-earth peak with precision mass measurements across Ce–Eu isotopic chains. <i>Physical Review C</i> , 2022, 105, .	1.1	11
439	Localization of gravitational waves using machine learning. <i>Physical Review D</i> , 2022, 105, .	1.6	3
441	New Developments in the Production and Research of Actinide Elements. <i>Atoms</i> , 2022, 10, 61.	0.7	3
442	The R-process Alliance: A Nearly Complete R-process Abundance Template Derived from Ultraviolet Spectroscopy of the R-process-enhanced Metal-poor Star HD 222925*. <i>Astrophysical Journal, Supplement Series</i> , 2022, 260, 27.	3.0	32
443	Radioactively Powered Gamma-Ray Transient Associated with a Kilonova from Neutron Star Merger. <i>Astrophysical Journal Letters</i> , 2022, 932, L7.	3.0	5
444	In Search of Short Gamma-Ray Burst Optical Counterparts with the Zwicky Transient Facility. <i>Astrophysical Journal</i> , 2022, 932, 40.	1.6	3
445	Laboratory and On-sky Testing of an InGaAs Detector for Infrared Imaging. <i>Publications of the Astronomical Society of the Pacific</i> , 2022, 134, 065001.	1.0	2
446	Electromagnetic Counterparts of Gravitational Waves in the Hz-kHz Range. , 2022, , 947-991.		0
447	r-Process Nucleosynthesis from Compact Binary Mergers. , 2022, , 555-610.		0
448	The Peculiar Short-duration GRB 200826A and Its Supernova*. <i>Astrophysical Journal</i> , 2022, 932, 1.	1.6	37
449	Cosmic nucleosynthesis: A multi-messenger challenge. <i>Progress in Particle and Nuclear Physics</i> , 2022, 127, 103983.	5.6	18
450	Electromagnetic Counterparts of Binary-neutron-star Mergers Leading to a Strongly Magnetized Long-lived Remnant Neutron Star. <i>Astrophysical Journal</i> , 2022, 933, 22.	1.6	12
451	The use of hypermodels to understand binary neutron star collisions. <i>Nature Astronomy</i> , 2022, 6, 961-967.	4.2	5
452	Turbulent magnetic field amplification in binary neutron star mergers. <i>Physical Review D</i> , 2022, 106, .	1.6	26
453	High-accuracy high-mass-ratio simulations for binary neutron stars and their comparison to existing waveform models. <i>Physical Review D</i> , 2022, 106, .	1.6	2
454	Perspectives for multimessenger astronomy with the next generation of gravitational-wave detectors and high-energy satellites. <i>Astronomy and Astrophysics</i> , 2022, 665, A97.	2.1	23

#	ARTICLE	IF	CITATIONS
455	GRB Afterglow of the Sub-relativistic Materials with Energy Injection. <i>Astrophysical Journal</i> , 2022, 933, 243.	1.6	1
456	Study of the detection capability and observation strategy of WFST-like telescope for kilonovae. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2023, 53, 259511.	0.2	1
457	Opacity of the Highly Ionized Lanthanides and the Effect on the Early Kilonova. <i>Astrophysical Journal</i> , 2022, 934, 117.	1.6	18
458	<tt>KilonovaNet</tt>: Surrogate models of kilonova spectra with conditional variational autoencoders. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 516, 1137-1148.	1.6	5
459	Nuclear mass predictions with machine learning reaching the accuracy required by <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>r</mml:mi></mml:math> -process studies. <i>Physical Review C</i> , 2022, 106, .	1.1	20
460	Foraging with MUSHROOMS: A Mixed-integer Linear Programming Scheduler for Multimessenger Target of Opportunity Searches with the Zwicky Transient Facility. <i>Astrophysical Journal</i> , 2022, 935, 87.	1.6	4
461	Hubble constant and nuclear equation of state from kilonova spectro-photometric light curves. <i>Astronomy and Astrophysics</i> , 2022, 666, A67.	2.1	5
462	Computational challenges for multimodal astrophysics. <i>Nature Computational Science</i> , 2022, 2, 479-485.	3.8	1
463	Neutron Star Binary Mergers: The Legacy of GW170817 and Future Prospects. <i>Universe</i> , 2022, 8, 459.	0.9	1
464	Long-duration Gamma-Ray Burst and Associated Kilonova Emission from Fast-spinning Black Holeâ€“Neutron Star Mergers. <i>Astrophysical Journal Letters</i> , 2022, 936, L10.	3.0	20
465	Engine-fed kilonovae (mergernovae) â€“ I. Dynamical evolution and energy injection/heating efficiencies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 516, 2614-2628.	1.6	12
466	On the diversity of magnetar-driven kilonovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 516, 4949-4962.	1.6	13
467	Gap Transients Interacting with Circumstellar Medium. <i>Universe</i> , 2022, 8, 493.	0.9	5
468	The CUBES science case. <i>Experimental Astronomy</i> , 2023, 55, 1-57.	1.6	1
469	Neutron-capture measurement candidates for the r-process in neutron star mergers. <i>Frontiers in Astronomy and Space Sciences</i> , 0, 9, .	1.1	3
470	Central engine of GRB170817A: Neutron star versus Kerr black hole based on multimessenger calorimetry and event timing. <i>Astronomy and Astrophysics</i> , 2023, 669, A36.	2.1	4
471	Lanthanide Features in Near-infrared Spectra of Kilonovae. <i>Astrophysical Journal</i> , 2022, 939, 8.	1.6	29
472	Kilonova and Optical Afterglow from Binary Neutron Star Mergers. I. Luminosity Function and Color Evolution. <i>Astrophysical Journal</i> , 2022, 938, 147.	1.6	5

#	ARTICLE	IF	CITATIONS
473	Tossing Black Hole Spin Axes. <i>Astrophysical Journal</i> , 2022, 938, 66.	1.6	11
474	Delayed One and Two Neutron Emission Probabilities Southeast of $12^\circ$ Sn		8
475	GW170817 4.5 Yr After Merger: Dynamical Ejecta Afterglow Constraints. <i>Astrophysical Journal</i> , 2022, 938, 12.	1.6	11
476	MUPHOTEN: A MULTI-band PHOtometry Tool for TElescope Network. <i>Publications of the Astronomical Society of the Pacific</i> , 2022, 134, 114504.	1.0	2
477	Signatures of r-process Enrichment in Supernovae from Collapsars. <i>Astrophysical Journal Letters</i> , 2022, 939, L29.	3.0	12
478	The Gaia-ESO survey: Placing constraints on the origin of r-process elements. <i>Astronomy and Astrophysics</i> , 2023, 670, A129.	2.1	5
479	X- and Gamma-Ray Astrophysics in the Era of Multi-messenger Astronomy. , 2022, , 1-31.		2
480	Adding gamma-ray polarimetry to the multi-messenger era. Prospects of joint gravitational-wave and gamma-ray polarimetry studies. <i>Astronomy and Astrophysics</i> , 0, , .	2.1	0
481	Magnetar Wind-Driven Shock Breakout Emission after Double Neutron Star Mergers: The Effect of the Anisotropy of the Merger Ejecta. <i>Universe</i> , 2022, 8, 633.	0.9	1
482	A kilonova following a long-duration gamma-ray burst at 350 Mpc. <i>Nature</i> , 2022, 612, 223-227.	13.7	101
483	A nearby long gamma-ray burst from a merger of compact objects. <i>Nature</i> , 2022, 612, 228-231.	13.7	78
484	Gigaelectronvolt emission from a compact binary merger. <i>Nature</i> , 2022, 612, 236-239.	13.7	32
485	Outliers in the $E_{p,z}$ vs $E_{13}$ relation of Fermi-GBM long-duration gamma-ray bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 518, 6243-6252.	1.6	0
486	Cocoon breakout and escape from the ejecta of neutron star mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2023, 520, 1111-1127.	1.6	7
487	Kilonovae and Optical Afterglows from Binary Neutron Star Mergers. II. Optimal Search Strategy for Serendipitous Observations and Target-of-opportunity Observations of Gravitational Wave Triggers. <i>Astrophysical Journal</i> , 2023, 942, 88.	1.6	8
488	Binary neutron star merger simulations with neutrino transport and turbulent viscosity: impact of different schemes and grid resolution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2023, 520, 1481-1503.	1.6	15
489	Nucleosynthesis in Jet-Driven and Jet-Associated Supernovae. , 2023, , 1-38.		0
490	Implementation of advanced Riemann solvers in a neutrino-radiation magnetohydrodynamics code in numerical relativity and its application to a binary neutron star merger. <i>Physical Review D</i> , 2022, 106, .	1.6	7

#	ARTICLE	IF	CITATIONS
491	The simulated catalogue of optical transients and correlated hosts (SCOTCH). Monthly Notices of the Royal Astronomical Society, 2023, 520, 2887-2912.	1.6	4
492	Modelling populations of kilonovae. Monthly Notices of the Royal Astronomical Society, 2023, 520, 2829-2842.	1.6	6
493	MeV neutrino flash from neutron star mergers via $r$ -process nucleosynthesis. Monthly Notices of the Royal Astronomical Society, 2023, 520, 2806-2812.	1.6	3
494	Modelling kilonova afterglows: Effects of the thermal electron population and interaction with GRB outflows. Monthly Notices of the Royal Astronomical Society, 2023, 520, 2727-2746.	1.6	5
495	The critical role of nuclear heating rates, thermalization efficiencies, and opacities for kilonova modelling and parameter inference. Monthly Notices of the Royal Astronomical Society, 2023, 520, 2558-2570.	1.6	23
496	Dynamics and Equation of State Dependencies of Relevance for Nucleosynthesis in Supernovae and Neutron Star Mergers. , 2023, , 1-98.		2
497	The luminosity functions of kilonovae from binary neutron star mergers under different equation of states. Monthly Notices of the Royal Astronomical Society, 2023, 522, 912-936.	1.6	3
498	Assessing stellar yields in Galaxy chemical evolution: Observational stellar abundance patterns. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	1
499	Can Neutron Star Mergers Alone Explain the $r$ -process Enrichment of the Milky Way?. Astrophysical Journal Letters, 2023, 943, L12.	3.0	16
500	A Bayesian Inference of a Relativistic Mean-field Model of Neutron Star Matter from Observations of NICER and GW170817/AT2017gfo. Astrophysical Journal, 2023, 943, 163.	1.6	10
501	Breaking bad degeneracies with Love relations: Improving gravitational-wave measurements through universal relations. Physical Review D, 2023, 107, .	1.6	2
502	Spherical symmetry in the kilonova AT2017gfo/GW170817. Nature, 2023, 614, 436-439.	13.7	16
503	Spectroscopic $r$ -Process Abundance Retrieval for Kilonovae. I. The Inferred Abundance Pattern of Early Emission from GW170817. Astrophysical Journal, 2023, 944, 123.	1.6	11
504	The afterglow of GRB 070707 and a possible kilonova component. Monthly Notices of the Royal Astronomical Society, 2023, 521, 269-277.	1.6	0
505	Kilonova Emission and Heavy Element Nucleosynthesis. Universe, 2023, 9, 105.	0.9	2
506	Moving gravitational wave sources at cosmological distances: Impact on the measurement of the Hubble constant. Physical Review D, 2023, 107, .	1.6	2
507	3D radiative transfer kilonova modelling for binary neutron star merger simulations. Monthly Notices of the Royal Astronomical Society, 2023, 521, 1858-1870.	1.6	9
508	Observations of Gravitational-wave Afterglows. Proceedings of the International Astronomical Union, 2020, 16, 92-104.	0.0	0

#	ARTICLE	IF	CITATIONS
509	Modeling kilonova emission from neutron star mergers. Proceedings of the International Astronomical Union, 2020, 16, 127-134.	0.0	0
510	Light Curves and Polarizations of Gravitationally Lensed Kilonovae. Astrophysical Journal, 2023, 944, 224.	1.6	0
511	The effects of Galactic model uncertainties on LISA observations of double neutron stars. Monthly Notices of the Royal Astronomical Society, 2023, 521, 2368-2377.	1.6	2
512	Observations of R-Process Stars in the Milky Way and Dwarf Galaxies. , 2023, , 1-64.		0
513	Surrogate light curve models for kilonovae with comprehensive wind ejecta outflows and parameter estimation for AT2017gfo. Physical Review Research, 2023, 5, .	1.3	5
514	Optical polarization and spectral properties of the hydrogen-poor superluminous supernovae SN 2021bnw and SN 2021fpl. Monthly Notices of the Royal Astronomical Society, 2023, 521, 5418-5439.	1.6	3
515	Follow-up Survey for the Binary Black Hole Merger GW200224_222234 Using Subaru/HSC and GTC/OSIRIS. Astrophysical Journal, 2023, 947, 9.	1.6	2
516	Multi-messenger Astronomy. Springer Proceedings in Physics, 2023, , 255-266.	0.1	0
517	Optimising the observation of optical kilonovae with medium size telescopes. Monthly Notices of the Royal Astronomical Society, 0, , .	1.6	0
518	A Collapsar Origin for GRB 211211A Is (Just Barely) Possible. Astrophysical Journal, 2023, 947, 55.	1.6	9
519	GRB 211211A: A Neutron Starâ€“White Dwarf Merger?. Astrophysical Journal Letters, 2023, 947, L21.	3.0	13
520	Target-of-Opportunity Observation Detectability of Kilonovae with WFST. Astrophysical Journal, 2023, 947, 59.	1.6	3
521	Galactic Chemical Evolution, Astronomical Observation from Metal-Poor Stars to the Solar System. , 2023, , 1-32.		0
548	Observations of R-Process Stars in the Milky Way and Dwarf Galaxies. , 2023, , 3941-4004.		0
549	Nucleosynthesis in Jet-Driven and Jet-Associated Supernovae. , 2023, , 3877-3914.		0
550	Dynamics and Equation of State Dependencies of Relevance for Nucleosynthesis in Supernovae and Neutron Star Mergers. , 2023, , 4005-4102.		0
551	Galactic Chemical Evolution, Astronomical Observation from Metal-Poor Stars to the Solar System. , 2023, , 3179-3210.		0
594	X- and Gamma-Ray Astrophysics in the Era of Multi-messenger Astronomy. , 2024, , 5335-5365.		0

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