

# He Gao

## List of Publications by Year in descending order

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93  
papers

3,305  
citations

136950

32  
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161849

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93  
docs citations

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times ranked

2411  
citing authors

#	ARTICLE	IF	CITATIONS
1	Searching for Gravitationally Lensed Gamma-Ray Bursts with Their Afterglows. <i>Astrophysical Journal</i> , 2022, 924, 49.	4.5	6
2	A Robust Estimation of Lorentz Invariance Violation and Intrinsic Spectral Lag of Short Gamma-Ray Bursts. <i>Astrophysical Journal Letters</i> , 2022, 924, L29.	8.3	13
3	Constraints on the abundance of primordial black holes with different mass distributions from lensing of fast radio bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 1141-1152.	4.4	8
4	Search for Lensing Signatures from the Latest Fast Radio Burst Observations and Constraints on the Abundance of Primordial Black Holes. <i>Astrophysical Journal</i> , 2022, 928, 124.	4.5	19
5	Gamma-Ray Burst Prompt Emission Spectrum and $E_p$ Evolution Patterns in the ICMART Model. <i>Astrophysical Journal</i> , 2022, 927, 173.	4.5	5
6	The Number of Possible CETIs within Our Galaxy and the Communication Probability among These CETIs. <i>Astrophysical Journal</i> , 2022, 928, 142.	4.5	3
7	Population Properties of Gravitational-wave Neutron Star–Black Hole Mergers. <i>Astrophysical Journal</i> , 2022, 928, 167.	4.5	15
8	GRB 160821B çs, æ™šæœÿä½™è¾¼%œçžä©r¼šæ—°ä, €ä¾¼çæÿé©±äš•ä¼râæ—°æÿä€™é€%ä½¼“. <i>Scientia Sinica: Physica, Mechanica</i>		
9	A Search for Millilensing Gamma-Ray Bursts in the Observations of Fermi GBM. <i>Astrophysical Journal</i> , 2022, 931, 4.	4.5	15
10	On the True Fractions of Repeating and Nonrepeating Fast Radio Burst Sources. <i>Astrophysical Journal Letters</i> , 2021, 906, L5.	8.3	23
11	The Evolution of a Newborn Millisecond Magnetar with a Propeller-recycling Disk. <i>Astrophysical Journal</i> , 2021, 907, 87.	4.5	10
12	Magnetar-driven Shock Breakout Revisited and Implications for Double-peaked Type I Superluminous Supernovae. <i>Astrophysical Journal</i> , 2021, 911, 142.	4.5	7
13	High-energy Neutrinos from Choked Gamma-Ray Bursts in Active Galactic Nucleus Accretion Disks. <i>Astrophysical Journal Letters</i> , 2021, 911, L19.	8.3	18
14	Thermonuclear Explosions and Accretion-induced Collapses of White Dwarfs in Active Galactic Nucleus Accretion Disks. <i>Astrophysical Journal Letters</i> , 2021, 914, L19.	8.3	20
15	Multimessenger Detection Rates and Distributions of Binary Neutron Star Mergers and Their Cosmological Implications. <i>Astrophysical Journal</i> , 2021, 916, 54.	4.5	28
16	Model-independent Estimation of $H_0$ and $\hat{\Omega}_K$ from Strongly Lensed Fast Radio Bursts. <i>Astrophysical Journal</i> , 2021, 916, 70.	4.5	9
17	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. <i>Astrophysical Journal</i> , 2021, 917, 24.	4.5	30
18	The Evolutionary Effects of the Radius and Moment of Inertia of Rapidly Rotating Neutron Stars. <i>Astrophysical Journal</i> , 2021, 919, 14.	4.5	0

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19	Neutron Star Mergers in Active Galactic Nucleus Accretion Disks: Cocoon and Ejecta Shock Breakouts. <i>Astrophysical Journal Letters</i> , 2021, 906, L11.	8.3	44
20	Giant X-Ray and Optical Bump in GRBs: Evidence for Fallback Accretion Model. <i>Astrophysical Journal</i> , 2021, 906, 60.	4.5	9
21	Lorentz Invariance Violation Limits from the Spectral-lag Transition of GRB 190114C. <i>Astrophysical Journal</i> , 2021, 906, 8.	4.5	27
22	The Gravitational-wave physics II: Progress. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	5.1	54
23	No Detectable Kilonova Counterpart is Expected for O3 Neutron Star “Black Hole Candidates. <i>Astrophysical Journal</i> , 2021, 921, 156.	4.5	33
24	A Powerful $e^{\pm}$ Outflow Driven by a Proto-strange Quark Star. <i>Astrophysical Journal</i> , 2021, 922, 214.	4.5	1
25	Relation between gravitational mass and baryonic mass for non-rotating and rapidly rotating neutron stars. <i>Frontiers of Physics</i> , 2020, 15, 1.	5.0	23
26	What binary systems are the most likely sources for periodically repeating FRBs?. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 498, L1-L5.	3.3	17
27	Constraints on Compact Dark Matter with Fast Radio Burst Observations. <i>Astrophysical Journal Letters</i> , 2020, 896, L11.	8.3	27
28	Testing the Hypothesis of a Compact-binary-coalescence Origin of Fast Radio Bursts Using a Multimessenger Approach. <i>Astrophysical Journal Letters</i> , 2020, 891, L39.	8.3	7
29	Constraining the Long-lived Magnetar Remnants in Short Gamma-Ray Bursts from Late-time Radio Observations. <i>Astrophysical Journal</i> , 2020, 890, 102.	4.5	21
30	What Constraints on the Neutron Star Maximum Mass Can One Pose from GW170817 Observations?. <i>Astrophysical Journal</i> , 2020, 893, 146.	4.5	41
31	The Second Plateau in X-Ray Afterglow Providing Additional Evidence for Rapidly Spinning Magnetars as the GRB Central Engine. <i>Astrophysical Journal</i> , 2020, 896, 42.	4.5	10
32	Kilonova Emission from Black Hole “Neutron Star Mergers. I. Viewing-angle-dependent Lightcurves. <i>Astrophysical Journal</i> , 2020, 897, 20.	4.5	37
33	Physical Implications of the Subthreshold GRB GBM-190816 and Its Associated Subthreshold Gravitational-wave Event. <i>Astrophysical Journal</i> , 2020, 899, 60.	4.5	11
34	Cosmological Parameter Estimation for Dynamical Dark Energy Models with Future Fast Radio Burst Observations. <i>Astrophysical Journal</i> , 2020, 903, 83.	4.5	30
35	Special Supernova Signature from BH “NS/BH Progenitor Systems. <i>Astrophysical Journal Letters</i> , 2020, 902, L37.	8.3	2
36	A Reader Friendly Formalism for the Circumstellar Material-supernova Ejecta Interaction Model. <i>Research Notes of the AAS</i> , 2020, 4, 162.	0.7	1

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37	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.	3.7	38
38	Prospects of strongly lensed repeating fast radio bursts: Complementary constraints on dark energy evolution. <i>Physical Review D</i> , 2019, 99, .	4.7	21
39	Cosmology-independent Estimate of the Fraction of Baryon Mass in the IGM from Fast Radio Burst Observations. <i>Astrophysical Journal</i> , 2019, 876, 146.	4.5	40
40	On neutralization of charged black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 2722-2731.	4.4	11
41	Constraining the evolution of the baryon fraction in the IGM with FRB and $\langle i \rangle H \langle i \rangle (\langle i \rangle z \langle i \rangle)$ data. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 039-039.	5.4	21
42	Viewing Angle Constraints on S190425z and S190426c and the Joint Gravitational-wave/Gamma-Ray Detection Fractions for Binary Neutron Star Mergers. <i>Astrophysical Journal Letters</i> , 2019, 881, L40.	8.3	15
43	G4.8+6.2, a possible kilonova remnant?. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2019, 490, L21-L25.	3.3	3
44	Limits on the Weak Equivalence Principle and Photon Mass with FRB 121102 Subpulses. <i>Astrophysical Journal Letters</i> , 2019, 882, L13.	8.3	26
45	The Shallow Decay Segment of GRB X-Ray Afterglow Revisited. <i>Astrophysical Journal</i> , 2019, 883, 97.	4.5	23
46	Multimessenger tests of Einstein's weak equivalence principle and Lorentz invariance with a high-energy neutrino from a flaring blazar. <i>Journal of High Energy Astrophysics</i> , 2019, 22, 1-4.	6.7	18
47	Long-term postmerger simulations of relativistic star coalescence: Formation of toroidal remnants and gravitational wave afterglow. <i>International Journal of Modern Physics D</i> , 2019, 28, 1950026.	2.1	3
48	Bright Merger-nova Emission Powered by Magnetic Wind from a Newborn Black Hole. <i>Astrophysical Journal Letters</i> , 2018, 852, L5.	8.3	25
49	Inverse Compton Scattered Merger-nova: Late X-Ray Counterpart of Gravitational-wave Signals from NS-NS/BH Mergers. <i>Astrophysical Journal Letters</i> , 2018, 853, L6.	8.3	0
50	GW170817: The key to the door of multi-messenger astronomy including gravitational waves. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018, 61, 1.	5.1	8
51	Strongly lensed repeating fast radio bursts as precision probes of the universe. <i>Nature Communications</i> , 2018, 9, 3833.	12.8	86
52	The Origin of the Prompt Emission for Short GRB 170817A: Photosphere Emission or Synchrotron Emission?. <i>Astrophysical Journal</i> , 2018, 860, 72.	4.5	41
53	Cosmology with Gravitational Wave/Fast Radio Burst Associations. <i>Astrophysical Journal Letters</i> , 2018, 860, L7.	8.3	31
54	The Allowed Parameter Space of a Long-lived Neutron Star as the Merger Remnant of GW170817. <i>Astrophysical Journal</i> , 2018, 860, 57.	4.5	84

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55	X-RAY COUNTERPART OF GRAVITATIONAL WAVES DUE TO BINARY NEUTRON STAR MERGERS: LIGHT CURVES, LUMINOSITY FUNCTION, AND EVENT RATE DENSITY. <i>Astrophysical Journal</i> , 2017, 835, 7.	4.5	48
56	Searching for Magnetar-powered Merger-novae from Short GRBS. <i>Astrophysical Journal</i> , 2017, 837, 50.	4.5	49
57	New test of weak equivalence principle using polarized light from astrophysical events. <i>Physical Review D</i> , 2017, 95, .	4.7	16
58	A Peculiar GRB 110731A: Lorentz Factor, Jet Composition, Central Engine, and Progenitor. <i>Astrophysical Journal</i> , 2017, 843, 114.	4.5	9
59	Magnetic-distortion-induced Ellipticity and Gravitational Wave Radiation of Neutron Stars: Millisecond Magnetars in Short GRBs, Galactic Pulsars, and Magnetars. <i>Astrophysical Journal</i> , 2017, 844, 112.	4.5	19
60	A Further Study of the of GRBs: Rest-frame Properties, External Plateau Contributions, and Multiple Parameter Analysis. <i>Astrophysical Journal</i> , 2017, 845, 51.	4.5	7
61	Implications from the Upper Limit of Radio Afterglow Emission of FRB 131104/Swift J0644.5-5111. <i>Astrophysical Journal Letters</i> , 2017, 835, L21.	8.3	10
62	Multimessenger tests of the weak equivalence principle from GW170817 and its electromagnetic counterparts. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 035-035.	5.4	33
63	Signature of a Newborn Black Hole from the Collapse of a Supra-massive Millisecond Magnetar. <i>Astrophysical Journal</i> , 2017, 849, 119.	4.5	33
64	A More Stringent Constraint on the Mass Ratio of Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017, 851, L45.	8.3	23
65	TESTS OF THE EINSTEIN EQUIVALENCE PRINCIPLE USING TeV BLAZARS. <i>Astrophysical Journal Letters</i> , 2016, 818, L2.	8.3	40
66	Catching jetted tidal disruption events early in millimetre. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 461, 3375-3384.	4.4	18
67	THE BLACK HOLE CENTRAL ENGINE FOR ULTRA-LONG GAMMA-RAY BURST 111209A AND ITS ASSOCIATED SUPERNOVA 2011KL. <i>Astrophysical Journal</i> , 2016, 826, 141.	4.5	23
68	Testing Einstein's weak equivalence principle with gravitational waves. <i>Physical Review D</i> , 2016, 94, .	4.7	41
69	Limits on the neutrino velocity, Lorentz invariance, and the weak equivalence principle with TeV neutrinos from gamma-ray bursts. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 031-031.	5.4	30
70	CONSTRAINTS ON THE PHOTON MASS WITH FAST RADIO BURSTS. <i>Astrophysical Journal Letters</i> , 2016, 822, L15.	8.3	61
71	Constraints on binary neutron star merger product from short GRB observations. <i>Physical Review D</i> , 2016, 93, .	4.7	118
72	Internal x-ray plateau in short GRBs: Signature of supramassive fast-rotating quark stars?. <i>Physical Review D</i> , 2016, 94, .	4.7	69

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73	Testing Einstein's Equivalence Principle With Fast Radio Bursts. <i>Physical Review Letters</i> , 2015, 115, 261101.	7.8	100
74	A MORPHOLOGICAL ANALYSIS OF GAMMA-RAY BURST EARLY-OPTICAL AFTERGLOWS. <i>Astrophysical Journal</i> , 2015, 810, 160.	4.5	38
75	COSMIC TRANSIENTS TEST EINSTEIN'S EQUIVALENCE PRINCIPLE OUT TO GeV ENERGIES. <i>Astrophysical Journal</i> , 2015, 810, 121.	4.5	57
76	GRB 080503 LATE AFTERGLOW RE-BRIGHTENING: SIGNATURE OF A MAGNETAR-POWERED MERGER-NOVA. <i>Astrophysical Journal</i> , 2015, 807, 163.	4.5	84
77	CONSTRAINTS ON THE LORENTZ INVARIANCE VIOLATION WITH GAMMA-RAY BURSTS VIA A MARKOV CHAIN MONTE CARLO APPROACH. <i>Astrophysical Journal</i> , 2015, 808, 78.	4.5	27
78	PHOTOSPHERE EMISSION FROM A HYBRID RELATIVISTIC OUTFLOW WITH ARBITRARY DIMENSIONLESS ENTROPY AND MAGNETIZATION IN GRBs. <i>Astrophysical Journal</i> , 2015, 801, 103.	4.5	78
79	RELATION BETWEEN THE INTRINSIC AND OBSERVED CENTRAL ENGINE ACTIVITY TIME: IMPLICATIONS FOR ULTRA-LONG GRBs. <i>Astrophysical Journal</i> , 2015, 802, 90.	4.5	20
80	HOW BAD OR GOOD ARE THE EXTERNAL FORWARD SHOCK AFTERGLOW MODELS OF GAMMA-RAY BURSTS?. <i>Astrophysical Journal</i> , Supplement Series, 2015, 219, 9.	7.7	115
81	A DOUBLE NEUTRON STAR MERGER ORIGIN FOR THE COSMOLOGICAL RELATIVISTIC FADING SOURCE PTF11agg?. <i>Astrophysical Journal Letters</i> , 2014, 781, L10.	8.3	18
82	QUASI-PERIODIC VARIATIONS IN X-RAY EMISSION AND LONG-TERM RADIO OBSERVATIONS: EVIDENCE FOR A TWO-COMPONENT JET IN Sw J1644+57. <i>Astrophysical Journal</i> , 2014, 788, 32.	4.5	28
83	FAST RADIO BURST/GAMMA-RAY BURST COSMOGRAPHY. <i>Astrophysical Journal</i> , 2014, 788, 189.	4.5	95
84	MULTI-WAVELENGTH AFTERGLOWS OF FAST RADIO BURSTS. <i>Astrophysical Journal Letters</i> , 2014, 792, L21.	8.3	33
85	A complete reference of the analytical synchrotron external shock models of gamma-ray bursts. <i>New Astronomy Reviews</i> , 2013, 57, 141-190.	12.8	175
86	Compton scattering of self-absorbed synchrotron emission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 435, 2520-2531.	4.4	29
87	BRIGHT "MERGER-NOVA" FROM THE REMNANT OF A NEUTRON STAR BINARY MERGER: A SIGNATURE OF A NEWLY BORN, MASSIVE, MILLISECOND MAGNETAR. <i>Astrophysical Journal Letters</i> , 2013, 776, L40.	8.3	192
88	A COMPREHENSIVE STUDY OF GAMMA-RAY BURST OPTICAL EMISSION. II. AFTERGLOW ONSET AND LATE RE-BRIGHTENING COMPONENTS. <i>Astrophysical Journal</i> , 2013, 774, 13.	4.5	90
89	BRIGHT BROADBAND AFTERGLOWS OF GRAVITATIONAL WAVE BURSTS FROM MERGERS OF BINARY NEUTRON STARS. <i>Astrophysical Journal</i> , 2013, 771, 86.	4.5	99
90	Possible high-energy neutrino and photon signals from gravitational wave bursts due to double neutron star mergers. <i>Physical Review D</i> , 2013, 88, .	4.7	19

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91	Optical Afterglows as Probes for the Central Engine and Fireball of Gamma-Ray Bursts. Proceedings of the International Astronomical Union, 2012, 8, 263-264.	0.0	0
92	STEPWISE FILTER CORRELATION METHOD AND EVIDENCE OF SUPERPOSED VARIABILITY COMPONENTS IN GAMMA-RAY BURST PROMPT EMISSION LIGHT CURVES. Astrophysical Journal, 2012, 748, 134.	4.5	41
93	A COMPREHENSIVE ANALYSIS OF <i>FERMI</i> GAMMA-RAY BURST DATA. I. SPECTRAL COMPONENTS AND THE POSSIBLE PHYSICAL ORIGINS OF LAT/GBM GRBs. Astrophysical Journal, 2011, 730, 141.	4.5	202