

Hsin-Yu Chen

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

39,128
citations

81839

39
h-index

149623

56
g-index

57
all docs

57
docs citations

57
times ranked

16008
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Observation of Gravitational Waves from a Binary Black Hole Merger. <i>Physical Review Letters</i> , 2016, 116, 061102. | 2.9 | 8,753 |
| 2 | GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. <i>Physical Review Letters</i> , 2017, 119, 161101. | 2.9 | 6,413 |
| 3 | Multi-messenger Observations of a Binary Neutron Star Merger [*] . <i>Astrophysical Journal Letters</i> , 2017, 848, L12. | 3.0 | 2,805 |
| 4 | GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. <i>Physical Review Letters</i> , 2016, 116, 241103. | 2.9 | 2,701 |
| 5 | Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. <i>Astrophysical Journal Letters</i> , 2017, 848, L13. | 3.0 | 2,314 |
| 6 | GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. <i>Physical Review Letters</i> , 2017, 118, 221101. | 2.9 | 1,987 |
| 7 | GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. <i>Physical Review Letters</i> , 2017, 119, 141101. | 2.9 | 1,600 |
| 8 | GW170817: Measurements of Neutron Star Radii and Equation of State. <i>Physical Review Letters</i> , 2018, 121, 161101. | 2.9 | 1,473 |
| 9 | GW190814: Gravitational Waves from the Coalescence of a 23 Solar Mass Black Hole with a 2.6 Solar Mass Compact Object. <i>Astrophysical Journal Letters</i> , 2020, 896, L44. | 3.0 | 1,090 |
| 10 | GW190425: Observation of a Compact Binary Coalescence with Total Mass $\hat{A}^{\sim} 3.4 M_{\odot}$. <i>Astrophysical Journal Letters</i> , 2020, 892, L3. | 3.0 | 1,049 |
| 11 | GW190521: A Binary Black Hole Merger with a Total Mass of $\hat{A}^{\sim} 150 M_{\odot}$. <i>Physical Review Letters</i> , 2020, 125, 101102. | 2.9 | 856 |
| 12 | 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 |
| 13 | ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. <i>Astrophysical Journal Letters</i> , 2016, 818, L22. | 3.0 | 633 |
| 14 | Binary Black Hole Population Properties Inferred from the First and Second Observing Runs of Advanced LIGO and Advanced Virgo. <i>Astrophysical Journal Letters</i> , 2019, 882, L24. | 3.0 | 566 |
| 15 | Population Properties of Compact Objects from the Second LIGO–Virgo Gravitational-Wave Transient Catalog. <i>Astrophysical Journal Letters</i> , 2021, 913, L7. | 3.0 | 514 |
| 16 | GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. <i>Physical Review Letters</i> , 2016, 116, 131103. | 2.9 | 466 |
| 17 | Observation of Gravitational Waves from Two Neutron Star–Black Hole Coalescences. <i>Astrophysical Journal Letters</i> , 2021, 915, L5. | 3.0 | 453 |
| 18 | Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2020, 23, 3. | 8.2 | 447 |

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|----|---|------|-----------|
| 19 | Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. <i>Living Reviews in Relativity</i> , 2016, 19, 1. | 8.2 | 427 |
| 20 | Properties and Astrophysical Implications of the 150 M_{\odot} Binary Black Hole Merger GW190521. <i>Astrophysical Journal Letters</i> , 2020, 900, L13. | 3.0 | 406 |
| 21 | Cosmology intertwined: A review of the particle physics, astrophysics, and cosmology associated with the cosmological tensions and anomalies. <i>Journal of High Energy Astrophysics</i> , 2022, 34, 49-211. | 2.4 | 350 |
| 22 | The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. III. Optical and UV Spectra of a Blue Kilonova from Fast Polar Ejecta. <i>Astrophysical Journal Letters</i> , 2017, 848, L18. | 3.0 | 327 |
| 23 | A two per cent Hubble constant measurement from standard sirens within five years. <i>Nature</i> , 2018, 562, 545-547. | 13.7 | 282 |
| 24 | THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. <i>Astrophysical Journal Letters</i> , 2016, 833, L1. | 3.0 | 230 |
| 25 | LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. <i>Astrophysical Journal Letters</i> , 2016, 826, L13. | 3.0 | 210 |
| 26 | 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 |
| 27 | First Measurement of the Hubble Constant from a Dark Standard Siren using the Dark Energy Survey Galaxies and the LIGO/Virgo Binary Black-hole Merger GW170814. <i>Astrophysical Journal Letters</i> , 2019, 876, L7. | 3.0 | 179 |
| 28 | Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017, 850, L39. | 3.0 | 156 |
| 29 | UPPER LIMITS ON THE RATES OF BINARY NEUTRON STAR AND NEUTRON STAR-BLACK HOLE MERGERS FROM ADVANCED LIGO'S FIRST OBSERVING RUN. <i>Astrophysical Journal Letters</i> , 2016, 832, L21. | 3.0 | 146 |
| 30 | A Standard Siren Measurement of the Hubble Constant from GW170817 without the Electromagnetic Counterpart. <i>Astrophysical Journal Letters</i> , 2019, 871, L13. | 3.0 | 145 |
| 31 | A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. <i>Astrophysical Journal</i> , 2021, 909, 218. | 1.6 | 144 |
| 32 | First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. <i>Astrophysical Journal</i> , 2017, 839, 12. | 1.6 | 131 |
| 33 | GOING THE DISTANCE: MAPPING HOST GALAXIES OF LIGO AND VIRGO SOURCES IN THREE DIMENSIONS USING LOCAL COSMOGRAPHY AND TARGETED FOLLOW-UP. <i>Astrophysical Journal Letters</i> , 2016, 829, L15. | 3.0 | 126 |
| 34 | Cosmological inference using gravitational wave standard sirens: A mock data analysis. <i>Physical Review D</i> , 2020, 101, . | 1.6 | 95 |
| 35 | Measuring the Hubble Constant with Neutron Star Black Hole Mergers. <i>Physical Review Letters</i> , 2018, 121, 021303. | 2.9 | 78 |
| 36 | Low-latency Gravitational-wave Alerts for Multimessenger Astronomy during the Second Advanced LIGO and Virgo Observing Run. <i>Astrophysical Journal</i> , 2019, 875, 161. | 1.6 | 71 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Distance measures in gravitational-wave astrophysics and cosmology. <i>Classical and Quantum Gravity</i> , 2021, 38, 055010. | 1.5 | 62 |
| 38 | Search for Lensing Signatures in the Gravitational-Wave Observations from the First Half of LIGOâ€“Virgoâ€™s Third Observing Run. <i>Astrophysical Journal</i> , 2021, 923, 14. | 1.6 | 59 |
| 39 | SUPPLEMENT: â€œGOING THE DISTANCE: MAPPING HOST GALAXIES OF LIGO AND VIRGO SOURCES IN THREE DIMENSIONS USING LOCAL COSMOGRAPHY AND TARGETED FOLLOW-UPâ€•(2016, <i>ApJL</i> , 829, L15). <i>Astrophysical Journal</i> , Supplement Series, 2016, 226, 10. | 3.0 | 41 |
| 40 | A DECAM SEARCH FOR AN OPTICAL COUNTERPART TO THE LIGO GRAVITATIONAL-WAVE EVENT GW151226. <i>Astrophysical Journal Letters</i> , 2016, 826, L29. | 3.0 | 38 |
| 41 | Gamma-Ray-Burst Beaming and Gravitational-Wave Observations. <i>Physical Review Letters</i> , 2013, 111, 181101. | 2.9 | 36 |
| 42 | A Program for Multimessenger Standard Siren Cosmology in the Era of LIGO A+, Rubin Observatory, and Beyond. <i>Astrophysical Journal Letters</i> , 2021, 908, L4. | 3.0 | 35 |
| 43 | A Search for Kilonovae in the Dark Energy Survey. <i>Astrophysical Journal</i> , 2017, 837, 57. | 1.6 | 34 |
| 44 | Measuring the Delay Time Distribution of Binary Neutron Stars. II. Using the Redshift Distribution from Third-generation Gravitational-wave Detectors Network. <i>Astrophysical Journal Letters</i> , 2019, 878, L13. | 3.0 | 29 |
| 45 | Systematic Uncertainty of Standard Sirens from the Viewing Angle of Binary Neutron Star Inspirals. <i>Physical Review Letters</i> , 2020, 125, 201301. | 2.9 | 28 |
| 46 | Viewing Angle of Binary Neutron Star Mergers. <i>Physical Review X</i> , 2019, 9, . | 2.8 | 24 |
| 47 | Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGOâ€“Virgo Run O3a. <i>Astrophysical Journal</i> , 2021, 915, 86. | 1.6 | 20 |
| 48 | First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. <i>Progress of Theoretical and Experimental Physics</i> , 2022, 2022, . | 1.8 | 20 |
| 49 | OBSERVATIONAL SELECTION EFFECTS WITH GROUND-BASED GRAVITATIONAL WAVE DETECTORS. <i>Astrophysical Journal</i> , 2017, 835, 31. | 1.6 | 17 |
| 50 | Searching for Exotic Cores with Binary Neutron Star Inspirals. <i>Astrophysical Journal Letters</i> , 2020, 893, L4. | 3.0 | 17 |
| 51 | Distinguishing Binary Neutron Star from Neutron Starâ€™Black Hole Mergers with Gravitational Waves. <i>Astrophysical Journal Letters</i> , 2020, 893, L41. | 3.0 | 15 |
| 52 | A standard siren cosmological measurement from the potential GW190521 electromagnetic counterpart ZTF19abanhr. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 2152-2157. | 1.6 | 14 |
| 53 | Facilitating Follow-up of LIGOâ€“Virgo Events Using Rapid Sky Localization. <i>Astrophysical Journal</i> , 2017, 840, 88. | 1.6 | 13 |
| 54 | The Relative Contribution to Heavy Metals Production from Binary Neutron Star Mergers and Neutron Starâ€™Black Hole Mergers. <i>Astrophysical Journal Letters</i> , 2021, 920, L3. | 3.0 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | An Infrared Search for Kilonovae with the WINTER Telescope. I. Binary Neutron Star Mergers. <i>Astrophysical Journal</i> , 2022, 926, 152. | 1.6 | 10 |
| 56 | Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1. | | 2 |