Luke Zoltan Kelley

List of Publications by Year
in descending order

35 papers	2,679 citations	257450 24 h-index	377865 34 g-index
35 all docs	35 docs citations	35 times ranked	3016 citing authors

#	Article	IF	Citations
1	The NANOGrav 12.5Âyr Data Set: Search for an Isotropic Stochastic Gravitational-wave Background. Astrophysical Journal Letters, 2020, 905, L34.	8.3	528
2	An Open Catalog for Supernova Data. Astrophysical Journal, 2017, 835, 64.	4.5	334
3	The International Pulsar Timing Array second data release: Search for an isotropic gravitational wave background. Monthly Notices of the Royal Astronomical Society, 2022, 510, 4873-4887.	4.4	174
4	The astrophysics of nanohertz gravitational waves. Astronomy and Astrophysics Review, 2019, 27, 1.	25.5	166
5	Swift J1644+57 gone MAD: the case for dynamically important magnetic flux threading the black hole in a jetted tidal disruption event. Monthly Notices of the Royal Astronomical Society, 2014, 437, 2744-2760.	4.4	141
6	Massive black hole binary mergers in dynamical galactic environments. Monthly Notices of the Royal Astronomical Society, 2017, 464, 3131-3157.	4.4	127
7	The NANOGrav 11 yr Data Set: Limits on Gravitational Waves from Individual Supermassive Black Hole Binaries. Astrophysical Journal, 2019, 880, 116.	4.5	102
8	The NANOGrav 12.5 yr Data Set: Observations and Narrowband Timing of 47 Millisecond Pulsars. Astrophysical Journal, Supplement Series, 2021, 252, 4.	7.7	98
9	The gravitational wave background from massive black hole binaries in Illustris: spectral features and time to detection with pulsar timing arrays. Monthly Notices of the Royal Astronomical Society, 2017, 471, 4508-4526.	4.4	97
10	Recoiling black holes: prospects for detection and implications of spin alignment. Monthly Notices of the Royal Astronomical Society, 2016, 456, 961-989.	4.4	90
11	Astrophysics Milestones for Pulsar Timing Array Gravitational-wave Detection. Astrophysical Journal Letters, 2021, 911, L34.	8.3	66
12	The NANOGrav 12.5 yr Data Set: Wideband Timing of 47 Millisecond Pulsars. Astrophysical Journal, Supplement Series, 2021, 252, 5.	7.7	64
13	Searching for Gravitational Waves from Cosmological Phase Transitions with the NANOGrav 12.5-Year Dataset. Physical Review Letters, 2021, 127, 251302.	7.8	62
14	Single sources in the low-frequency gravitational wave sky: properties and time to detection by pulsar timing arrays. Monthly Notices of the Royal Astronomical Society, 2018, 477, 964-976.	4.4	61
15	Testing the Binary Hypothesis: Pulsar Timing Constraints on Supermassive Black Hole Binary Candidates. Astrophysical Journal, 2018, 856, 42.	4.5	53
16	THE DISTRIBUTION OF COALESCING COMPACT BINARIES IN THE LOCAL UNIVERSE: PROSPECTS FOR GRAVITATIONAL-WAVE OBSERVATIONS. Astrophysical Journal Letters, 2010, 725, L91-L96.	8.3	52
17	Modeling the Uncertainties of Solar System Ephemerides for Robust Gravitational-wave Searches with Pulsar-timing Arrays. Astrophysical Journal, 2020, 893, 112.	4.5	49
18	Massive BH binaries as periodically variable AGN. Monthly Notices of the Royal Astronomical Society, 2019, 485, 1579-1594.	4.4	44

#	Article	IF	Citations
19	Probing Massive Black Hole Binary Populations with LISA. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	44
20	Tidal disruption and magnetic flux capture: powering a jet from a quiescent black hole. Monthly Notices of the Royal Astronomical Society, 2014, 445, 3919-3938.	4.4	43
21	The NANOGrav 11 yr Data Set: Limits on Gravitational Wave Memory. Astrophysical Journal, 2020, 889, 38.	4.5	36
22	Seeds donâ€™t sink: even massive black hole â€˜seedsâ€™ cannot migrate to galaxy centres efficiently. Monthly Notices of the Royal Astronomical Society, 2021, 508, 1973-1985.	4.4	34
23	Multimessenger Gravitational-wave Searches with Pulsar Timing Arrays: Application to 3C 66B Using the NANOGrav 11-year Data Set. Astrophysical Journal, 2020, 900, 102.	4.5	30
24	The NANOGrav 12.5-year Data Set: Search for Non-Einsteinian Polarization Modes in the Gravitational-wave Background. Astrophysical Journal Letters, 2021, 923, L22.	8.3	30
25	The NANOGrav 11 yr Data Set: Evolution of Gravitational-wave Background Statistics. Astrophysical Journal, 2020, 890, 108.	4.5	28
26	kalepy: a Python package for kernel density estimation, sampling and plotting. Journal of Open Source Software, 2021, 6, 2784.	4.6	21
27	The NANOGrav 11 yr Data Set: Limits on Supermassive Black Hole Binaries in Galaxies within 500 Mpc. Astrophysical Journal, 2021, 914, 121.	4.5	21
28	The effect of differential accretion on the gravitational wave background and the present-day MBH binary population. Monthly Notices of the Royal Astronomical Society, 2020, 498, 537-547.	4.4	20
29	Massive black hole binary inspiral and spin evolution in a cosmological framework. Monthly Notices of the Royal Astronomical Society, 2021, 501, 2531-2546.	4.4	14
30	Forward Modeling of Double Neutron Stars: Insights from Highly Offset Short Gamma-Ray Bursts. Astrophysical Journal, 2020, 904, 190.	4.5	13
31	Basic considerations for the observability of kinematically offset binary AGN. Monthly Notices of the Royal Astronomical Society, 2020, 500, 4065-4077.	4.4	11
32	Gravitational self-lensing in populations of massive black hole binaries. Monthly Notices of the Royal Astronomical Society, 2021, 508, 2524-2536.	4.4	10
33	Running late: testing delayed supermassive black hole growth models against the quasar luminosity function. Monthly Notices of the Royal Astronomical Society, 2022, 511, 5756-5767.	4.4	8
34	Impact of gas-based seeding on supermassive black hole populations at z â‰¥ 7. Monthly Notices of the Royal Astronomical Society, 2021, 507, 2012-2036.	4.4	5
35	Impact of gas spin and Lymanâ€“Werner flux on black hole seed formation in cosmological simulations: implications for direct collapse. Monthly Notices of the Royal Astronomical Society, 2021, 510, 177-196.	4.4	3