Leo P Singer

List of Publications by Year
in descending order

63 papers	20,742 citations	87888 38 h-index	123424 61 g-index
64 all docs	64 docs citations	64 times ranked	15730 citing authors

#	Article	IF	Citations
1	Data-driven Expectations for Electromagnetic Counterpart Searches Based on LIGO/Virgo Public Alerts. Astrophysical Journal, 2022, 924, 54.	4.5	56
2	Inferring Kilonova Population Properties with a Hierarchical Bayesian Framework. I. Nondetection Methodology and Single-event Analyses. Astrophysical Journal, 2022, 925, 58.	4.5	3
3	Optimizing Cadences with Realistic Light-curve Filtering for Serendipitous Kilonova Discovery with Vera Rubin Observatory. Astrophysical Journal, Supplement Series, 2022, 258, 5.	7.7	12
4	HEALPix Alchemy: Fast All-Sky Geometry and Image Arithmetic in a Relational Database for Multimessenger Astronomy Brokers. Astronomical Journal, 2022, 163, 209.	4.7	2
5	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, .	6.6	20
6	The NASA Multi-Messenger Astrophysics Science Support Center (MOSSAIC). Astronomy and Computing, 2022, 40, 100582.	1.7	1
7	Target-of-opportunity Observations of Gravitational-wave Events with Vera C. Rubin Observatory. Astrophysical Journal, Supplement Series, 2022, 260, 18.	7.7	21
8	Multiresolution HEALPix Maps for Multiwavelength and Multimessenger Astronomy. Astronomical Journal, 2022, 163, 259.	4.7	1
9	Candidate Tidal Disruption Event AT2019fdr Coincident with a High-Energy Neutrino. Physical Review Letters, 2022, 128, .	7.8	41
10	In Search of Short Gamma-Ray Burst Optical Counterparts with the Zwicky Transient Facility. Astrophysical Journal, 2022, 932, 40.	4.5	3
11	Optical follow-up of the neutron starâ€“black hole mergers S200105ae and S200115j. Nature Astronomy, 2021, 5, 46-53.	10.1	71
12	A tidal disruption event coincident with a high-energy neutrino. Nature Astronomy, 2021, 5, 510-518.	10.1	136
13	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. Astrophysical Journal, 2021, 909, 218.	4.5	144
14	Optimizing serendipitous detections of kilonovae: cadence and filter selection. Monthly Notices of the Royal Astronomical Society, 2021, 504, 2822-2831.	4.4	16
15	First Demonstration of Early Warning Gravitational-wave Alerts. Astrophysical Journal Letters, 2021, 910, L21.	8.3	33
16	The JAGWAR Prowls LIGO/Virgo O3 Paper I: Radio Search of a Possible Multimessenger Counterpart of the Binary Black Hole Merger Candidate S191216ap. Astrophysical Journal, 2021, 911, 77.	4.5	9
17	Discovery and confirmation of the shortest gamma-ray burst from a collapsar. Nature Astronomy, 2021, 5, 917-927.	10.1	69
18	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.	4.5	42

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19	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2020, 23, 3.	26.7	447
20	Dynamic scheduling: target of opportunity observations of gravitational wave events. Monthly Notices of the Royal Astronomical Society, 2020, 495, 4366-4371.	4.4	11
21	Kilonova Luminosity Function Constraints Based on Zwicky Transient Facility Searches for 13 Neutron Star Merger Triggers during O3. Astrophysical Journal, 2020, 905, 145.	4.5	69
22	ZTF20aajnksq (AT 2020blt): A Fast Optical Transient at zÂâ‰ˆÂ2.9 with No Detected Gamma-Ray Burst Counterpart. Astrophysical Journal, 2020, 905, 98.	4.5	24
23	An Early-warning System for Electromagnetic Follow-up of Gravitational-wave Events. Astrophysical Journal Letters, 2020, 905, L25.	8.3	48
24	The Zwicky Transient Facility: Science Objectives. Publications of the Astronomical Society of the Pacific, 2019, 131, 078001.	3.1	453
25	Sub-threshold Binary Neutron Star Search in Advanced LIGOâ€™s First Observing Run. Astrophysical Journal Letters, 2019, 878, L17.	8.3	21
26	Localization of binary black hole mergers with known inclination. Monthly Notices of the Royal Astronomical Society, 2019, 488, 4459-4463.	4.4	14
27	GROWTH on S190510g: DECam Observation Planning and Follow-up of a Distant Binary Neutron Star Merger Candidate. Astrophysical Journal Letters, 2019, 881, L16.	8.3	30
28	GROWTH on S190426c: Real-time Search for a Counterpart to the Probable Neutron Starâ€“Black Hole Merger using an Automated Difference Imaging Pipeline for DECam. Astrophysical Journal Letters, 2019, 881, L7.	8.3	39
29	Enabling real-time multi-messenger astrophysics discoveries with deep learning. Nature Reviews Physics, 2019, 1, 600-608.	26.6	53
30	A Strategy for LSST to Unveil a Population of Kilonovae without Gravitational-wave Triggers. Publications of the Astronomical Society of the Pacific, 2019, 131, 068004.	3.1	19
31	<tt>astroquery</tt>: An Astronomical Web-querying Package in Python. Astronomical Journal, 2019, 157, 98.	4.7	405
32	The GROWTH Marshal: A Dynamic Science Portal for Time-domain Astronomy. Publications of the Astronomical Society of the Pacific, 2019, 131, 038003.	3.1	112
33	Machine Learning for the Zwicky Transient Facility. Publications of the Astronomical Society of the Pacific, 2019, 131, 038002.	3.1	83
34	2900 Square Degree Search for the Optical Counterpart of Short Gamma-Ray Burst GRB 180523B with the Zwicky Transient Facility. Publications of the Astronomical Society of the Pacific, 2019, 131, 048001.	3.1	27
35	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. Astrophysical Journal Letters, 2019, 885, L19.	8.3	86
36	The Zwicky Transient Facility: System Overview, Performance, and First Results. Publications of the Astronomical Society of the Pacific, 2019, 131, 018002.	3.1	1,020

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37	healpy: equal area pixelization and spherical harmonics transforms for data on the sphere in Python. Journal of Open Source Software, 2019, 4, 1298.	4.6	450
38	A mildly relativistic wide-angle outflow in the neutron-star merger event GW170817. Nature, 2018, 554, 207-210.	27.8	283
39	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. Living Reviews in Relativity, 2018, 21, 3.	26.7	808
40	A Case Study of On-the-fly Wide-field Radio Imaging Applied to the Gravitational Wave Event GW151226. Astrophysical Journal, 2018, 857, 143.	4.5	7
41	The Astropy Project: Building an Open-science Project and Status of the v2.0 Core Package[*]. Astronomical Journal, 2018, 156, 123.	4.7	4,142
42	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2
43	Analysis framework for the prompt discovery of compact binary mergers in gravitational-wave data. Physical Review D, 2017, 95, .	4.7	246
44	Illuminating gravitational waves: A concordant picture of photons from a neutron star merger. Science, 2017, 358, 1559-1565.	12.6	559
45	A radio counterpart to a neutron star merger. Science, 2017, 358, 1579-1583.	12.6	390
46	Optical Follow-up of Gravitational-wave Events with Las Cumbres Observatory. Astrophysical Journal Letters, 2017, 848, L33.	8.3	80
47	A Tale of Two Transients: GW 170104 and GRBÂ170105A. Astrophysical Journal, 2017, 845, 152.	4.5	29
48	iPTF17cw: An Engine-driven Supernova Candidate Discovered Independent of a Gamma-Ray Trigger. Astrophysical Journal, 2017, 847, 54.	4.5	23
49	iPTF SEARCH FOR AN OPTICAL COUNTERPART TO GRAVITATIONAL-WAVE TRANSIENT GW150914. Astrophysical Journal Letters, 2016, 824, L24.	8.3	46
50	PARAMETER ESTIMATION ON GRAVITATIONAL WAVES FROM NEUTRON-STAR BINARIES WITH SPINNING COMPONENTS. Astrophysical Journal, 2016, 825, 116.	4.5	68
51	SUPPLEMENT: â€œGOING THE DISTANCE: MAPPING HOST GALAXIES OF LIGO AND VIRGO SOURCES IN THREE DIMENSIONS USING LOCAL COSMOGRAPHY AND TARGETED FOLLOW-UPâ€•(2016, ApJL, 829, L15). Astrophysical Journal, Supplement Series, 2016, 226, 10.	7.7	41
52	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. Living Reviews in Relativity, 2016, 19, 1.	26.7	427
53	GALAXY STRATEGY FOR LIGO-VIRGO GRAVITATIONAL WAVE COUNTERPART SEARCHES. Astrophysical Journal, 2016, 820, 136.	4.5	111
54	Rapid Bayesian position reconstruction for gravitational-wave transients. Physical Review D, 2016, 93, .	4.7	249

#	Article	IF	Citations
55	RADIO FOLLOW-UP OF GRAVITATIONAL-WAVE TRIGGERS DURING ADVANCED LIGO O1. Astrophysical Journal Letters, 2016, 829, L28.	8.3	21
56	GOING THE DISTANCE: MAPPING HOST GALAXIES OF LIGO AND VIRGO SOURCES IN THREE DIMENSIONS USING LOCAL COSMOGRAPHY AND TARGETED FOLLOW-UP. Astrophysical Journal Letters, 2016, 829, L15.	8.3	126
57	PARAMETER ESTIMATION FOR BINARY NEUTRON-STAR COALESCENCES WITH REALISTIC NOISE DURING THE ADVANCED LIGO ERA. Astrophysical Journal, 2015, 804, 114.	4.5	117
58	THE NEEDLE IN THE 100 deg²HAYSTACK: UNCOVERING AFTERGLOWS OFFERMIGRBs WITH THE PALOMAR TRANSIENT FACTORY. Astrophysical Journal, 2015, 806, 52.	4.5	43
59	THE FIRST TWO YEARS OF ELECTROMAGNETIC FOLLOW-UP WITH ADVANCED LIGO AND VIRGO. Astrophysical Journal, 2014, 795, 105.	4.5	159
60	Astropy: A community Python package for astronomy. Astronomy and Astrophysics, 2013, 558, A33.	5.1	8,416
61	DISCOVERY AND REDSHIFT OF AN OPTICAL AFTERGLOW IN 71 deg ² : iPTF13bxl AND GRB 130702A. Astrophysical Journal Letters, 2013, 776, L34.	8.3	52
62	TOWARD EARLY-WARNING DETECTION OF GRAVITATIONAL WAVES FROM COMPACT BINARY COALESCENCE. Astrophysical Journal, 2012, 748, 136.	4.5	200
63	DECAM-GROWTH SEARCH FOR THE FAINT AND DISTANT BINARY NEUTRON STAR AND NEUTRON STAR-BLACK HOLE MERGERS IN O3A. Revista Mexicana De AstronomÃa Y AstrofÃsica Serie De Conferencias, 0, 53, 91-99.	0.2	4