Patricia Schmidt

List of Publications by Year in Descending Order

81 papers	23,237 citations	48 h-index	86 g-index
86 ext. papers	28,386 ext. citations	6.7 avg, IF	5.19 L-index

#	Paper	IF	Citations
81	Constraints on compact binary merger evolution from spin-orbit misalignment in gravitational-wave observations. *Monthly Notices of the Royal Astronomical Society*, **2022**, 511, 1454-1461	4.3	5
80	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. *Astrophysical Journal*, **2021**, 909, 218	4.7	46
79	A generalized precession parameter $\bar{p}$ to interpret gravitational-wave data. *Physical Review D*, **2021**, 103,	4.9	15
78	New effective precession spin for modeling multimodal gravitational waveforms in the strong-field regime. *Physical Review D*, **2021**, 103,	4.9	6
77	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	4.3	18
76	Validity of common modeling approximations for precessing binary black holes with higher-order modes. *Physical Review D*, **2020**, 101,	4.9	12
75	Forecasts for detecting the gravitational-wave memory effect with Advanced LIGO and Virgo. *Physical Review D*, **2020**, 101,	4.9	19
74	Gravitational-wave asteroseismology with fundamental modes from compact binary inspirals. *Nature Communications*, **2020**, 11, 2553	17.4	24
73	Gravitational Waves From Binary Black Hole Mergers: Modeling and Observations. *Frontiers in Astronomy and Space Sciences*, **2020**, 7,	3.8	1
72	GW190425: Observation of a Compact Binary Coalescence with Total Mass ~ 3.4 M ?. *Astrophysical Journal Letters*, **2020**, 892, L3	7.9	591
71	Advanced Virgo Status. *Journal of Physics: Conference Series*, **2020**, 1342, 012010	0.3	8
70	Measuring precession in asymmetric compact binaries. *Physical Review Research*, **2020**, 2,	3.9	12
69	Constraining the Lensing of Binary Black Holes from Their Stochastic Background. *Physical Review Letters*, **2020**, 125, 141102	7.4	11
68	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. *Living Reviews in Relativity*, **2020**, 23, 3	32.5	144
67	A Joint Fermi-GBM and LIGO/Virgo Analysis of Compact Binary Mergers from the First and Second Gravitational-wave Observing Runs. *Astrophysical Journal*, **2020**, 893, 100	4.7	9
66	Constraining the lensing of binary neutron stars from their stochastic background. *Physical Review D*, **2020**, 102,	4.9	4
65	Prospects for fundamental physics with LISA. *General Relativity and Gravitation*, **2020**, 52, 1	2.3	71

64	The advanced Virgo longitudinal control system for the O2 observing run. *Astroparticle Physics*, **2020**, 116, 102386	2.4	7
63	Binary Black Hole Population Properties Inferred from the First and Second Observing Runs of Advanced LIGO and Advanced Virgo. *Astrophysical Journal Letters*, **2019**, 882, L24	7.9	381
62	The SXS collaboration catalog of binary black hole simulations. *Classical and Quantum Gravity*, **2019**, 36, 195006	3.3	94
61	Black holes, gravitational waves and fundamental physics: a roadmap. *Classical and Quantum Gravity*, **2019**, 36, 143001	3.3	248
60	Search for Multimessenger Sources of Gravitational Waves and High-energy Neutrinos with Advanced LIGO during Its First Observing Run, ANTARES, and IceCube. *Astrophysical Journal*, **2019**, 870, 134	4.7	23
59	A Fermi Gamma-Ray Burst Monitor Search for Electromagnetic Signals Coincident with Gravitational-wave Candidates in Advanced LIGO's First Observing Run. *Astrophysical Journal*, **2019**, 871, 90	4.7	22
58	Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO. *Astrophysical Journal*, **2019**, 875, 122	4.7	45
57	Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. *Astrophysical Journal*, **2019**, 875, 160	4.7	60
56	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. *Astrophysical Journal Letters*, **2019**, 876, L7	7.9	91
55	Low-latency Gravitational-wave Alerts for Multimessenger Astronomy during the Second Advanced LIGO and Virgo Observing Run. *Astrophysical Journal*, **2019**, 875, 161	4.7	49
54	Search for Transient Gravitational-wave Signals Associated with Magnetar Bursts during Advanced LIGO–Second Observing Run. *Astrophysical Journal*, **2019**, 874, 163	4.7	17
53	Frequency domain model of f-mode dynamic tides in gravitational waveforms from compact binary inspirals. *Physical Review D*, **2019**, 100,	4.9	20
52	Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015–2017 LIGO Data. *Astrophysical Journal*, **2019**, 879, 10	4.7	63
51	Search for Eccentric Binary Black Hole Mergers with Advanced LIGO and Advanced Virgo during Their First and Second Observing Runs. *Astrophysical Journal*, **2019**, 883, 149	4.7	36
50	Search for Subsolar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. *Physical Review Letters*, **2019**, 123, 161102	7.4	68
49	Distinguishing the nature of comparable-mass neutron star binary systems with multimessenger observations: GW170817 case study. *Physical Review D*, **2019**, 100,	4.9	39
48	On the properties of the massive binary black hole merger GW170729. *Physical Review D*, **2019**, 100,	4.9	61
47	Search for Gravitational-wave Signals Associated with Gamma-Ray Bursts during the Second Observing Run of Advanced LIGO and Advanced Virgo. *Astrophysical Journal*, **2019**, 886, 75	4.7	21

46	Parametrized tests of the strong-field dynamics of general relativity using gravitational wave signals from coalescing binary black holes: Fast likelihood calculations and sensitivity of the method. *Physical Review D*, **2018**, 97,	4.9	20
45	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. *Living Reviews in Relativity*, **2018**, 21, 3	32.5	543
44	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA **2018**, 21, 1		2
43	Time-domain effective-one-body gravitational waveforms for coalescing compact binaries with nonprecessing spins, tides, and self-spin effects. *Physical Review D*, **2018**, 98,	4.9	94
42	Search for Subsolar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. *Physical Review Letters*, **2018**, 121, 231103	7.4	49
41	GW170817: Measurements of Neutron Star Radii and Equation of State. *Physical Review Letters*, **2018**, 121, 161101	7.4	867
40	Calibration of advanced Virgo and reconstruction of the gravitational wave signal h (t) during the observing run O2. *Classical and Quantum Gravity*, **2018**, 35, 205004	3.3	35
39	Status of Advanced Virgo. *EPJ Web of Conferences*, **2018**, 182, 02003	0.3	4
38	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. *Physical Review Letters*, **2018**, 120, 201102	7.4	60
37	Effects of waveform model systematics on the interpretation of GW150914. *Classical and Quantum Gravity*, **2017**, 34, 104002	3.3	74
36	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. *Astrophysical Journal* , **2017**, 839, 12	4.7	107
35	The basic physics of the binary black hole merger GW150914. *Annalen Der Physik*, **2017**, 529, 1600209	2.6	45
34	GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. *Physical Review Letters*, **2017**, 119, 141101	7.4	1270
33	Upper Limits on Gravitational Waves from Scorpius X-1 from a Model-based Cross-correlation Search in Advanced LIGO Data. *Astrophysical Journal*, **2017**, 847, 47	4.7	35
32	GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. *Physical Review Letters*, **2017**, 119, 161101	7.4	4272
31	Illuminating gravitational waves: A concordant picture of photons from a neutron star merger. *Science*, **2017**, 358, 1559-1565	33.3	414
30	Multi-messenger Observations of a Binary Neutron Star Merger. *Astrophysical Journal Letters*, **2017**, 848, L12	7.9	1935
29	Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. *Astrophysical Journal Letters*, **2017**, 848, L13	7.9	1614

28	Search for Gravitational Waves Associated with Gamma-Ray Bursts during the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B. *Astrophysical Journal*, **2017**, 841, 89	4.7	42
27	Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. *Astrophysical Journal Letters*, **2017**, 851, L16	7.9	133
26	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. *Astrophysical Journal Letters*, **2017**, 850, L39	7.9	127
25	A Surrogate model of gravitational waveforms from numerical relativity simulations of precessing binary black hole mergers. *Physical Review D*, **2017**, 95,	4.9	64
24	GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. *Physical Review Letters*, **2017**, 118, 221101	7.4	1609
23	Status of the Advanced Virgo gravitational wave detector. *International Journal of Modern Physics A* , **2017**, 32, 1744003	1.2	5
22	On the Progenitor of Binary Neutron Star Merger GW170817. *Astrophysical Journal Letters*, **2017**, 850, L40	7.9	50
21	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. *Astrophysical Journal Letters*, **2017**, 851, L35	7.9	809
20	LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. *Astrophysical Journal Letters*, **2016**, 826, L13	7.9	183
19	Fast and accurate inference on gravitational waves from precessing compact binaries. *Physical Review D*, **2016**, 94,	4.9	84
18	UPPER LIMITS ON THE RATES OF BINARY NEUTRON STAR AND NEUTRON STAR–BLACK HOLE MERGERS FROM ADVANCED LIGO'S FIRST OBSERVING RUN. *Astrophysical Journal Letters*, **2016**, 832, L21	7.9	130
17	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. *Physical Review Letters*, **2016**, 116, 131102	7.4	188
16	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. *Physical Review Letters*, **2016**, 116, 131103	7.4	328
15	SUPPLEMENT: "LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914" (2016, ApJL, 826, L13). *Astrophysical Journal, Supplement Series*, **2016**, 225, 8	8	38
14	Tests of General Relativity with GW150914. *Physical Review Letters*, **2016**, 116, 221101	7.4	837
13	Properties of the Binary Black Hole Merger GW150914. *Physical Review Letters*, **2016**, 116, 241102	7.4	515
12	GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. *Physical Review Letters*, **2016**, 116, 241103	7.4	2136
11	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. *Astrophysical Journal Letters*, **2016**, 818, L22	7.9	512

10	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. *Classical and Quantum Gravity*, **2016**, 33,	3.3	155
9	SUPPLEMENT: THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914 (2016, ApJL, 833, L1). *Astrophysical Journal, Supplement Series*, **2016**, 227, 14	8	52
8	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. *Living Reviews in Relativity*, **2016**, 19, 1	32.5	393
7	Gravitational waves: search results, data analysis and parameter estimation: Amaldi 10 Parallel session C2. *General Relativity and Gravitation*, **2015**, 47, 11	2.3	3
6	SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. *Astrophysical Journal*, **2015**, 813, 39	4.7	58
5	Towards models of gravitational waveforms from generic binaries: II. Modelling precession effects with a single effective precession parameter. *Physical Review D*, **2015**, 91,	4.9	174
4	Simple model of complete precessing black-hole-binary gravitational waveforms. *Physical Review Letters*, **2014**, 113, 151101	7.4	357
3	Scientific objectives of Einstein Telescope. *Classical and Quantum Gravity*, **2012**, 29, 124013	3.3	256
2	Towards models of gravitational waveforms from generic binaries: A simple approximate mapping between precessing and nonprecessing inspiral signals. *Physical Review D*, **2012**, 86,	4.9	109
1	Tracking the precession of compact binaries from their gravitational-wave signal. *Physical Review D*, **2011**, 84,	4.9	84