David E Mcclelland

List of Publications by Year in Descending Order

409 papers	49,952 citations	85 h-index	219 g-index
464 ext. papers	60,542 ext. citations	5.2 avg, IF	5.96 L-index

#	Paper	IF	Citations
409	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
408	Gravitational-wave physics and astronomy in the 2020s and 2030s. *Nature Reviews Physics*, **2021**, 3, 344-366	25.6	22
407	Point absorbers in Advanced LIGO. *Applied Optics*, **2021**, 60, 4047-4063	1.7	8
406	Approaching the motional ground state of a 10-kg object. *Science*, **2021**, 372, 1333-1336	33.3	14
405	Environmental noise in advanced LIGO detectors. *Classical and Quantum Gravity*, **2021**, 38, 145001	3.3	15
404	LIGO's quantum response to squeezed states. *Physical Review D*, **2021**, 104,	4.9	5
403	Point Absorber Limits to Future Gravitational-Wave Detectors.. *Physical Review Letters*, **2021**, 127, 241102	7.4	0
402	Neutron Star Extreme Matter Observatory: A kilohertz-band gravitational-wave detector in the global network. *Publications of the Astronomical Society of Australia*, **2020**, 37,	5.5	47
401	Sensitivity and performance of the Advanced LIGO detectors in the third observing run. *Physical Review D*, **2020**, 102,	4.9	84
400	GW190814: Gravitational Waves from the Coalescence of a 23 Solar Mass Black Hole with a 2.6 Solar Mass Compact Object. *Astrophysical Journal Letters*, **2020**, 896, L44	7.9	571
399	GW190425: Observation of a Compact Binary Coalescence with Total Mass ~ 3.4 M ?. *Astrophysical Journal Letters*, **2020**, 892, L3	7.9	591
398	Quantum correlations between light and the kilogram-mass mirrors of LIGO. *Nature*, **2020**, 583, 43-47	50.4	45
397	Model comparison from LIGO–Virgo data on GW170817's binary components and consequences for the merger remnant. *Classical and Quantum Gravity*, **2020**, 37, 045006	3.3	69
396	A guide to LIGO–Virgo detector noise and extraction of transient gravitational-wave signals. *Classical and Quantum Gravity*, **2020**, 37, 055002	3.3	78
395	Quantum enhanced kHz gravitational wave detector with internal squeezing. *Classical and Quantum Gravity*, **2020**, 37, 07LT02	3.3	6
394	Generation and control of frequency-dependent squeezing via Einstein–Podolsky–Rosen entanglement. *Nature Photonics*, **2020**, 14, 223-226	33.9	13
393	Tunable narrow-linewidth laser at 2 μm wavelength for gravitational wave detector research. *Optics Express*, **2020**, 28, 3280-3288	3.3	11

392	Properties and Astrophysical Implications of the 150 M ? Binary Black Hole Merger GW190521. *Astrophysical Journal Letters*, **2020**, 900, L13	7.9	207
391	Gravitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars. *Astrophysical Journal Letters*, **2020**, 902, L21	7.9	32
390	Practical test mass and suspension configuration for a cryogenic kilohertz gravitational wave detector. *Physical Review D*, **2020**, 102,	4.9	2
389	A cryogenic silicon interferometer for gravitational-wave detection. *Classical and Quantum Gravity*, **2020**, 37, 165003	3.3	50
388	Low phase noise squeezed vacuum for future generation gravitational wave detectors. *Classical and Quantum Gravity*, **2020**, 37, 185014	3.3	2
387	Improving the robustness of the advanced LIGO detectors to earthquakes. *Classical and Quantum Gravity*, **2020**, 37, 235007	3.3	4
386	Automatic mode-matching of a Fabry-P□ot cavity with a single photodiode and spatial light modulation. *Journal of Optics (United Kingdom)*, **2020**, 22, 105605	1.7	1
385	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
384	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
383	GW190521: A Binary Black Hole Merger with a Total Mass of 150 M_{?}. *Physical Review Letters*, **2020**, 125, 101102	7.4	420
382	GW190412: Observation of a binary-black-hole coalescence with asymmetric masses. *Physical Review D*, **2020**, 102,	4.9	212
381	Broadband reduction of quantum radiation pressure noise via squeezed light injection. *Nature Photonics*, **2020**, 14, 19-23	33.9	18
380	Optically targeted search for gravitational waves emitted by core-collapse supernovae during the first and second observing runs of advanced LIGO and advanced Virgo. *Physical Review D*, **2020**, 101,	4.9	36
379	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
378	Directional limits on persistent gravitational waves using data from Advanced LIGO□ first two observing runs. *Physical Review D*, **2019**, 100,	4.9	31
377	GWTC-1: A Gravitational-Wave Transient Catalog of Compact Binary Mergers Observed by LIGO and Virgo during the First and Second Observing Runs. *Physical Review X*, **2019**, 9,	9.1	1169
376	All-sky search for long-duration gravitational-wave transients in the second Advanced LIGO observing run. *Physical Review D*, **2019**, 99,	4.9	17
375	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

374	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
373	Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO. *Astrophysical Journal*, **2019**, 875, 122	4.7	45
372	Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. *Astrophysical Journal*, **2019**, 875, 160	4.7	60
371	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
370	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
369	Search for Transient Gravitational-wave Signals Associated with Magnetar Bursts during Advanced LIGO's Second Observing Run. *Astrophysical Journal*, **2019**, 874, 163	4.7	17
368	Improving astrophysical parameter estimation via offline noise subtraction for Advanced LIGO. *Physical Review D*, **2019**, 99,	4.9	58
367	Narrow-band search for gravitational waves from known pulsars using the second LIGO observing run. *Physical Review D*, **2019**, 99,	4.9	43
366	Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015–2017 LIGO Data. *Astrophysical Journal*, **2019**, 879, 10	4.7	63
365	All-sky search for continuous gravitational waves from isolated neutron stars using Advanced LIGO O2 data. *Physical Review D*, **2019**, 100,	4.9	81
364	All-sky search for short gravitational-wave bursts in the second Advanced LIGO and Advanced Virgo run. *Physical Review D*, **2019**, 100,	4.9	39
363	Tests of General Relativity with GW170817. *Physical Review Letters*, **2019**, 123, 011102	7.4	204
362	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
361	Search for intermediate mass black hole binaries in the first and second observing runs of the Advanced LIGO and Virgo network. *Physical Review D*, **2019**, 100,	4.9	39
360	Search for Subsolar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. *Physical Review Letters*, **2019**, 123, 161102	7.4	68
359	Squeezed vacuum phase control at 2 μm. *Optics Letters*, **2019**, 44, 5386-5389	3	6
358	Quantum noise. *International Journal of Population Studies*, **2019**, 101-135	0.1	
357	Constraining the p-Mode-g-Mode Tidal Instability with GW170817. *Physical Review Letters*, **2019**, 122, 061104	7.4	22

356	Tests of general relativity with the binary black hole signals from the LIGO-Virgo catalog GWTC-1. *Physical Review D*, **2019**, 100,	4.9	258
355	Quantum-Enhanced Advanced LIGO Detectors in the Era of Gravitational-Wave Astronomy. *Physical Review Letters*, **2019**, 123, 231107	7.4	182
354	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
353	Search for gravitational waves from Scorpius X-1 in the second Advanced LIGO observing run with an improved hidden Markov model. *Physical Review D*, **2019**, 100,	4.9	31
352	Properties of the Binary Neutron Star Merger GW170817. *Physical Review X*, **2019**, 9,	9.1	423
351	Effects of data quality vetoes on a search for compact binary coalescences in Advanced LIGO's first observing run. *Classical and Quantum Gravity*, **2018**, 35, 065010	3.3	62
350	GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. *Physical Review Letters*, **2018**, 120, 091101	7.4	120
349	All-sky search for long-duration gravitational wave transients in the first Advanced LIGO observing run. *Classical and Quantum Gravity*, **2018**, 35, 065009	3.3	12
348	In search of conclusive evidence on the trade-off and pecking order theories of capital structure: Evidence from the Johannesburg Stock Exchange. *Investment Analysts Journal*, **2018**, 47, 15-30	0.8	1
347	Radiation-pressure-mediated control of an optomechanical cavity. *Physical Review A*, **2018**, 97,	2.6	19
346	First Search for Nontensorial Gravitational Waves from Known Pulsars. *Physical Review Letters*, **2018**, 120, 031104	7.4	50
345	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
344	Identification and mitigation of narrow spectral artifacts that degrade searches for persistent gravitational waves in the first two observing runs of Advanced LIGO. *Physical Review D*, **2018**, 97,	4.9	77
343	Multi-link laser interferometry architecture for interspacecraft displacement metrology. *Journal of Geodesy*, **2018**, 92, 241-251	4.5	3
342	Full band all-sky search for periodic gravitational waves in the O1 LIGO data. *Physical Review D*, **2018**, 97,	4.9	37
341	Constraints on cosmic strings using data from the first Advanced LIGO observing run. *Physical Review D*, **2018**, 97,	4.9	60
340	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA **2018**, 21, 1		2
339	An analysis of short put strategies and their role in asset allocation. *Investment Analysts Journal*, **2018**, 47, 272-283	0.8	

338	Search for Subsolar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. *Physical Review Letters*, **2018**, 121, 231103	7.4	49
337	GW170817: Measurements of Neutron Star Radii and Equation of State. *Physical Review Letters*, **2018**, 121, 161101	7.4	867
336	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. *Physical Review Letters*, **2018**, 120, 201102	7.4	60
335	Observation of Squeezed Light in the 2 μm Region. *Physical Review Letters*, **2018**, 120, 203603	7.4	17
334	Publisher's Note: Sensitivity of the Advanced LIGO detectors at the beginning of gravitational wave astronomy [Phys. Rev. D 93, 112004 (2016)]. *Physical Review D*, **2018**, 97,	4.9	13
333	Exploring the sensitivity of next generation gravitational wave detectors. *Classical and Quantum Gravity*, **2017**, 34, 044001	3.3	454
332	All-sky search for short gravitational-wave bursts in the first Advanced LIGO run. *Physical Review D*, **2017**, 95,	4.9	54
331	Effects of waveform model systematics on the interpretation of GW150914. *Classical and Quantum Gravity*, **2017**, 34, 104002	3.3	74
330	Calibration of the Advanced LIGO detectors for the discovery of the binary black-hole merger GW150914. *Physical Review D*, **2017**, 95,	4.9	60
329	Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run. *Physical Review Letters*, **2017**, 118, 121101	7.4	137
328	Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. *Physical Review Letters*, **2017**, 118, 121102	7.4	65
327	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. *Astrophysical Journal* , **2017**, 839, 12	4.7	107
326	The basic physics of the binary black hole merger GW150914. *Annalen Der Physik*, **2017**, 529, 1600209	2.6	45
325	GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. *Physical Review Letters*, **2017**, 119, 141101	7.4	1270
324	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
323	A gravitational-wave standard siren measurement of the Hubble constant. *Nature*, **2017**, 551, 85-88	50.4	413
322	GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. *Physical Review Letters*, **2017**, 119, 161101	7.4	4272
321	Multi-messenger Observations of a Binary Neutron Star Merger. *Astrophysical Journal Letters*, **2017**, 848, L12	7.9	1935

320	Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. *Astrophysical Journal Letters*, **2017**, 848, L13	7.9	1614
319	Search for intermediate mass black hole binaries in the first observing run of Advanced LIGO. *Physical Review D*, **2017**, 96,	4.9	64
318	Quantum correlation measurements in interferometric gravitational-wave detectors. *Physical Review A*, **2017**, 95,	2.6	9
317	All-sky search for periodic gravitational waves in the O1 LIGO data. *Physical Review D*, **2017**, 96,	4.9	54
316	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
315	Search for high-energy neutrinos from gravitational wave event GW151226 and candidate LVT151012 with ANTARES and IceCube. *Physical Review D*, **2017**, 96,	4.9	32
314	Measurable signatures of quantum mechanics in a classical spacetime. *Physical Review D*, **2017**, 96,	4.9	4
313	First Demonstration of Electrostatic Damping of Parametric Instability at Advanced LIGO. *Physical Review Letters*, **2017**, 118, 151102	7.4	18
312	LISA pathfinder appreciably constrains collapse models. *Physical Review D*, **2017**, 95,	4.9	35
311	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
310	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. *Astrophysical Journal Letters*, **2017**, 850, L39	7.9	127
309	Effects of transients in LIGO suspensions on searches for gravitational waves. *Review of Scientific Instruments*, **2017**, 88, 124501	1.7	4
308	Search for High-energy Neutrinos from Binary Neutron Star Merger GW170817 with ANTARES, IceCube, and the Pierre Auger Observatory. *Astrophysical Journal Letters*, **2017**, 850, L35	7.9	104
307	GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. *Physical Review Letters*, **2017**, 118, 221101	7.4	1609
306	Search for continuous gravitational waves from neutron stars in globular cluster NGC 6544. *Physical Review D*, **2017**, 95,	4.9	14
305	Search for gravitational waves from Scorpius X-1 in the first Advanced LIGO observing run with a hidden Markov model. *Physical Review D*, **2017**, 95,	4.9	47
304	First narrow-band search for continuous gravitational waves from known pulsars in advanced detector data. *Physical Review D*, **2017**, 96,	4.9	39
303	First low-frequency Einstein@Home all-sky search for continuous gravitational waves in Advanced LIGO data. *Physical Review D*, **2017**, 96,	4.9	54

302	Follow Up of GW170817 and Its Electromagnetic Counterpart by Australian-Led Observing Programmes. *Publications of the Astronomical Society of Australia*, **2017**, 34,	5.5	99
301	On the Progenitor of Binary Neutron Star Merger GW170817. *Astrophysical Journal Letters*, **2017**, 850, L40	7.9	50
300	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. *Astrophysical Journal Letters*, **2017**, 851, L35	7.9	809
299	Mechanical characterisation of the TorPeDO: a low frequency gravitational force sensor. *Classical and Quantum Gravity*, **2017**, 34, 135002	3.3	16
298	A robust single-beam optical trap for a gram-scale mechanical oscillator. *Scientific Reports*, **2017**, 7, 14546	4.9	9
297	Interferometric wavefront sensing with a single diode using spatial light modulation. *Applied Optics* , **2017**, 56, 2353-2358	0.2	4
296	High power compatible internally sensed optical phased array. *Optics Express*, **2016**, 24, 13467-79	3.3	19
295	LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. *Astrophysical Journal Letters*, **2016**, 826, L13	7.9	183
294	Algebraic cancellation of polarisation noise in fibre interferometers. *Optics Express*, **2016**, 24, 10486-94	3.3	1
293	Comprehensive all-sky search for periodic gravitational waves in the sixth science run LIGO data. *Physical Review D*, **2016**, 94,	4.9	28
292	First targeted search for gravitational-wave bursts from core-collapse supernovae in data of first-generation laser interferometer detectors. *Physical Review D*, **2016**, 94,	4.9	43
291	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
290	Directly comparing GW150914 with numerical solutions of Einstein's equations for binary black hole coalescence. *Physical Review D*, **2016**, 94,	4.9	76
289	All-sky search for long-duration gravitational wave transients with initial LIGO. *Physical Review D*, **2016**, 93,	4.9	27
288	Search of the Orion spur for continuous gravitational waves using a loosely coherent algorithm on data from LIGO interferometers. *Physical Review D*, **2016**, 93,	4.9	14
287	First low frequency all-sky search for continuous gravitational wave signals. *Physical Review D*, **2016** , 93,	4.9	29
286	Sensitivity of the Advanced LIGO detectors at the beginning of gravitational wave astronomy. *Physical Review D*, **2016**, 93,	4.9	208
285	GW150914: First results from the search for binary black hole coalescence with Advanced LIGO. *Physical Review D*, **2016**, 93,	4.9	253

284	Search for transient gravitational waves in coincidence with short-duration radio transients during 2007–2013. *Physical Review D*, **2016**, 93,	4.9	10
283	High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube. *Physical Review D*, **2016**, 93,	4.9	80
282	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. *Physical Review Letters*, **2016**, 116, 131102	7.4	188
281	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. *Physical Review Letters*, **2016**, 116, 131103	7.4	328
280	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
279	Observing gravitational-wave transient GW150914 with minimal assumptions. *Physical Review D*, **2016**, 93,	4.9	94
278	Tests of General Relativity with GW150914. *Physical Review Letters*, **2016**, 116, 221101	7.4	837
277	Properties of the Binary Black Hole Merger GW150914. *Physical Review Letters*, **2016**, 116, 241102	7.4	515
276	GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. *Physical Review Letters*, **2016**, 116, 241103	7.4	2136
275	Binary Black Hole Mergers in the First Advanced LIGO Observing Run. *Physical Review X*, **2016**, 6,	9.1	723
274	Optomechanical design and construction of a vacuum-compatible optical parametric oscillator for generation of squeezed light. *Review of Scientific Instruments*, **2016**, 87, 063104	1.7	3
273	Ultra-low phase noise squeezed vacuum source for gravitational wave detectors. *Optica*, **2016**, 3, 682	8.6	43
272	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. *Astrophysical Journal Letters*, **2016**, 818, L22	7.9	512
271	Observation of Gravitational Waves from a Binary Black Hole Merger. *Physical Review Letters*, **2016**, 116, 061102	7.4	6108
270	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. *Classical and Quantum Gravity*, **2016**, 33,	3.3	155
269	TorPeDO: A Low Frequency Gravitational Force Sensor. *Journal of Physics: Conference Series*, **2016**, 716, 012027	0.3	3
268	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
267	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. *Living Reviews in Relativity*, **2016**, 19, 1	32.5	393

266	Improved Analysis of GW150914 Using a Fully Spin-Precessing Waveform Model. *Physical Review X*, **2016**, 6,	9.1	89
265	Results of the deepest all-sky survey for continuous gravitational waves on LIGO S6 data running on the Einstein@Home volunteer distributed computing project. *Physical Review D*, **2016**, 94,	4.9	29
264	THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. *Astrophysical Journal Letters*, **2016**, 833, L1	7.9	209
263	Searching for stochastic gravitational waves using data from the two colocated LIGO Hanford detectors. *Physical Review D*, **2015**, 91,	4.9	26
262	Directed search for gravitational waves from Scorpius X-1 with initial LIGO data. *Physical Review D*, **2015**, 91,	4.9	38
261	Characterization of the LIGO detectors during their sixth science run. *Classical and Quantum Gravity* , **2015**, 32, 115012	3.3	790
260	Advanced LIGO. *Classical and Quantum Gravity*, **2015**, 32, 074001	3.3	1098
259	SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. *Astrophysical Journal*, **2015**, 813, 39	4.7	58
258	A squeezed light source operated under high vacuum. *Scientific Reports*, **2015**, 5, 18052	4.9	14
257	Frequency dependence of thermal noise in gram-scale cantilever flexures. *Physical Review D*, **2015**, 92,	4.9	5
256	Narrow-band search of continuous gravitational-wave signals from Crab and Vela pulsars in Virgo VSR4 data. *Physical Review D*, **2015**, 91,	4.9	32
255	Squeezing-Enhancement of a 4 km LIGO Gravitational-Wave Detector. *Springer Theses*, **2015**, 147-171	0.1	
254	Squeezed State Generation for Gravitational-Wave Detection. *Springer Theses*, **2015**, 65-83	0.1	1
253	Quantum Optics and Light. *Springer Theses*, **2015**, 27-45	0.1	
252	Gravitational Waves and the Quest for Their Direct Detection. *Springer Theses*, **2015**, 13-26	0.1	
251	Results Summary, Recommendations and Future Work. *Springer Theses*, **2015**, 187-191	0.1	
250	The Doubly Resonant, Travelling-Wave Squeezed Light Source. *Springer Theses*, **2015**, 87-116	0.1	
249	Backscatter Tolerance of a Travelling-Wave Optical Parametric Oscillator. *Springer Theses*, **2015**, 117-129	0.1	

248	Backscattered-Light Impact in a Squeezing-Enhanced Gravitational-Wave Detector. *Springer Theses*, **2015**, 173-186	0.1	
247	Overview of the LIGO Squeezed Light Injection Experiment. *Springer Theses*, **2015**, 133-145	0.1	
246	Quantum Noise in Gravitational-Wave Detectors and Applied Squeezed States. *Springer Theses*, **2015**, 47-63	0.1	
245	Quantum squeezed light in gravitational-wave detectors. *Classical and Quantum Gravity*, **2014**, 31, 183001	3.3	34
244	Progress and challenges in advanced ground-based gravitational-wave detectors. *General Relativity and Gravitation*, **2014**, 46, 1	2.3	2
243	Implementation of an $mathcal{F}$-statistic all-sky search for continuous gravitational waves in Virgo VSR1 data. *Classical and Quantum Gravity*, **2014**, 31, 165014	3.3	27
242	GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. *Astrophysical Journal*, **2014**, 785, 119	4.7	109
241	Application of a Hough search for continuous gravitational waves on data from the fifth LIGO science run. *Classical and Quantum Gravity*, **2014**, 31, 085014	3.3	18
240	The NINJA-2 project: detecting and characterizing gravitational waveforms modelled using numerical binary black hole simulations. *Classical and Quantum Gravity*, **2014**, 31, 115004	3.3	34
239	Search for gravitational wave ringdowns from perturbed intermediate mass black holes in LIGO-Virgo data from 2005–2010. *Physical Review D*, **2014**, 89,	4.9	26
238	Search for gravitational waves associated with γ-ray bursts detected by the interplanetary network. *Physical Review Letters*, **2014**, 113, 011102	7.4	30
237	Search for gravitational radiation from intermediate mass black hole binaries in data from the second LIGO-Virgo joint science run. *Physical Review D*, **2014**, 89,	4.9	32
236	Methods and results of a search for gravitational waves associated with gamma-ray bursts using the GEO 600, LIGO, and Virgo detectors. *Physical Review D*, **2014**, 89,	4.9	25
235	Concepts and research for future detectors. *General Relativity and Gravitation*, **2014**, 46, 1	2.3	2
234	Coherent beam combining using a 2D internally sensed optical phased array. *Applied Optics*, **2014**, 53, 4881-5	1.7	8
233	Impact of backscattered light in a squeezing-enhanced interferometric gravitational-wave detector. *Classical and Quantum Gravity*, **2014**, 31, 035017	3.3	14
232	Testing the GRACE follow-on triple mirror assembly. *Classical and Quantum Gravity*, **2014**, 31, 195004	3.3	4
231	FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. *Astrophysical Journal, Supplement Series*, **2014**, 211, 7	8	51

230	Weak-light phase tracking with a low cycle slip rate. *Optics Letters*, **2014**, 39, 5251-4	3	17
229	Laser link acquisition demonstration for the GRACE Follow-On mission. *Optics Express*, **2014**, 22, 11351-66	3.3	23
228	First all-sky search for continuous gravitational waves from unknown sources in binary systems. *Physical Review D*, **2014**, 90,	4.9	54
227	Constraints on cosmic strings from the LIGO-Virgo gravitational-wave detectors. *Physical Review Letters*, **2014**, 112, 131101	7.4	59
226	Improved upper limits on the stochastic gravitational-wave background from 2009-2010 LIGO and Virgo data. *Physical Review Letters*, **2014**, 113, 231101	7.4	74
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