Jessica Steinlechner

List of Publications by Year in Descending Order

154 papers	37,438 citations	62 h-index	159 g-index
159 ext. papers	45,524 ext. citations	6.5 avg, IF	5.56 L-index

#	Paper	IF	Citations
154	Challenges and opportunities of gravitational-wave searches at MHz to GHz frequencies. *Living Reviews in Relativity*, **2021**, 24, 1	32.5	12
153	Demonstration of the Multimaterial Coating Concept to Reduce Thermal Noise in Gravitational-Wave Detectors. *Physical Review Letters*, **2020**, 125, 011102	7.4	3
152	Influence of deposition parameters on the optical absorption of amorphous silicon thin films. *Physical Review Research*, **2020**, 2,	3.9	1
151	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
150	Directional limits on persistent gravitational waves using data from Advanced LIGO's first two observing runs. *Physical Review D*, **2019**, 100,	4.9	31
149	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
148	Search for the isotropic stochastic background using data from Advanced LIGO's second observing run. *Physical Review D*, **2019**, 100,	4.9	117
147	Mirror Coating Solution for the Cryogenic Einstein Telescope. *Physical Review Letters*, **2019**, 122, 231102	7.4	11
146	Time-evolution of NIR absorption in hydroxide-catalysis bonds. *Materialia*, **2019**, 6, 100331	3.2	0
145	All-sky search for long-duration gravitational-wave transients in the second Advanced LIGO observing run. *Physical Review D*, **2019**, 99,	4.9	17
144	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
143	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
142	Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO. *Astrophysical Journal*, **2019**, 875, 122	4.7	45
141	Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. *Astrophysical Journal*, **2019**, 875, 160	4.7	60
140	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
139	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
138	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

137	Narrow-band search for gravitational waves from known pulsars using the second LIGO observing run. *Physical Review D*, **2019**, 99,	4.9	43
136	Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015–2017 LIGO Data. *Astrophysical Journal*, **2019**, 879, 10	4.7	63
135	Tests of General Relativity with GW170817. *Physical Review Letters*, **2019**, 123, 011102	7.4	204
134	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
133	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
132	Search for Subsolar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. *Physical Review Letters*, **2019**, 123, 161102	7.4	68
131	Thermal noise from icy mirrors in gravitational wave detectors. *Physical Review Research*, **2019**, 1,	3.9	5
130	Constraining the p-Mode-g-Mode Tidal Instability with GW170817. *Physical Review Letters*, **2019**, 122, 061104	7.4	22
129	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
128	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
127	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
126	Properties of the Binary Neutron Star Merger GW170817. *Physical Review X*, **2019**, 9,	9.1	423
125	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
124	GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. *Physical Review Letters*, **2018**, 120, 091101	7.4	120
123	Development of mirror coatings for gravitational-wave detectors. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2018**, 376,	3	4
122	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
121	First Search for Nontensorial Gravitational Waves from Known Pulsars. *Physical Review Letters*, **2018**, 120, 031104	7.4	50
120	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

119	Effect of Stress and Temperature on the Optical Properties of Silicon Nitride Membranes at 1,550 nm. *Frontiers in Materials*, **2018**, 5,	4	9
118	Full band all-sky search for periodic gravitational waves in the O1 LIGO data. *Physical Review D*, **2018**, 97,	4.9	37
117	Constraints on cosmic strings using data from the first Advanced LIGO observing run. *Physical Review D*, **2018**, 97,	4.9	60
116	Silicon nitride and silica quarter-wave stacks for low-thermal-noise mirror coatings. *Physical Review D*, **2018**, 98,	4.9	8
115	Amorphous Silicon with Extremely Low Absorption: Beating Thermal Noise in Gravitational Astronomy. *Physical Review Letters*, **2018**, 121, 191101	7.4	18
114	Search for Subsolar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. *Physical Review Letters*, **2018**, 121, 231103	7.4	49
113	GW170817: Measurements of Neutron Star Radii and Equation of State. *Physical Review Letters*, **2018**, 121, 161101	7.4	867
112	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. *Physical Review Letters*, **2018**, 120, 201102	7.4	60
111	Silicon-Based Optical Mirror Coatings for Ultrahigh Precision Metrology and Sensing. *Physical Review Letters*, **2018**, 120, 263602	7.4	29
110	Exploring the sensitivity of next generation gravitational wave detectors. *Classical and Quantum Gravity*, **2017**, 34, 044001	3.3	454
109	All-sky search for short gravitational-wave bursts in the first Advanced LIGO run. *Physical Review D*, **2017**, 95,	4.9	54
108	Effects of waveform model systematics on the interpretation of GW150914. *Classical and Quantum Gravity*, **2017**, 34, 104002	3.3	74
107	Calibration of the Advanced LIGO detectors for the discovery of the binary black-hole merger GW150914. *Physical Review D*, **2017**, 95,	4.9	60
106	Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run. *Physical Review Letters*, **2017**, 118, 121101	7.4	137
105	Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. *Physical Review Letters*, **2017**, 118, 121102	7.4	65
104	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. *Astrophysical Journal* , **2017**, 839, 12	4.7	107
103	The basic physics of the binary black hole merger GW150914. *Annalen Der Physik*, **2017**, 529, 1600209	2.6	45
102	GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. *Physical Review Letters*, **2017**, 119, 141101	7.4	1270

101	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
100	A gravitational-wave standard siren measurement of the Hubble constant. *Nature*, **2017**, 551, 85-88	50.4	413
99	GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. *Physical Review Letters*, **2017**, 119, 161101	7.4	4272
98	Multi-messenger Observations of a Binary Neutron Star Merger. *Astrophysical Journal Letters*, **2017**, 848, L12	7.9	1935
97	Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. *Astrophysical Journal Letters*, **2017**, 848, L13	7.9	1614
96	Search for intermediate mass black hole binaries in the first observing run of Advanced LIGO. *Physical Review D*, **2017**, 96,	4.9	64
95	All-sky search for periodic gravitational waves in the O1 LIGO data. *Physical Review D*, **2017**, 96,	4.9	54
94	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
93	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
92	Optical absorption of silicon nitride membranes at 1064 nm and at 1550 nm. *Physical Review D*, **2017**, 96,	4.9	10
91	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
90	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. *Astrophysical Journal Letters*, **2017**, 850, L39	7.9	127
89	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
88	GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. *Physical Review Letters*, **2017**, 118, 221101	7.4	1609
87	Search for continuous gravitational waves from neutron stars in globular cluster NGC 6544. *Physical Review D*, **2017**, 95,	4.9	14
86	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
85	First narrow-band search for continuous gravitational waves from known pulsars in advanced detector data. *Physical Review D*, **2017**, 96,	4.9	39
84	First low-frequency Einstein@Home all-sky search for continuous gravitational waves in Advanced LIGO data. *Physical Review D*, **2017**, 96,	4.9	54

83	On the Progenitor of Binary Neutron Star Merger GW170817. *Astrophysical Journal Letters*, **2017**, 850, L40	7.9	50
82	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. *Astrophysical Journal Letters*, **2017**, 851, L35	7.9	809
81	Anomalous optical surface absorption in nominally pure silicon samples at 1550 nm. *Classical and Quantum Gravity*, **2017**, 34, 205013	3.3	3
80	LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. *Astrophysical Journal Letters*, **2016**, 826, L13	7.9	183
79	Comprehensive all-sky search for periodic gravitational waves in the sixth science run LIGO data. *Physical Review D*, **2016**, 94,	4.9	28
78	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
77	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
76	Directly comparing GW150914 with numerical solutions of Einstein's equations for binary black hole coalescence. *Physical Review D*, **2016**, 94,	4.9	76
75	All-sky search for long-duration gravitational wave transients with initial LIGO. *Physical Review D*, **2016**, 93,	4.9	27
74	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
73	First low frequency all-sky search for continuous gravitational wave signals. *Physical Review D*, **2016**, 93,	4.9	29
72	High index top layer for multimaterial coatings. *Physical Review D*, **2016**, 93,	4.9	4
71	GW150914: First results from the search for binary black hole coalescence with Advanced LIGO. *Physical Review D*, **2016**, 93,	4.9	253
70	Search for transient gravitational waves in coincidence with short-duration radio transients during 2007–2013. *Physical Review D*, **2016**, 93,	4.9	10
69	High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube. *Physical Review D*, **2016**, 93,	4.9	80
68	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. *Physical Review Letters*, **2016**, 116, 131102	7.4	188
67	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. *Physical Review Letters*, **2016**, 116, 131103	7.4	328
66	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

65	Optical absorption of ion-beam sputtered amorphous silicon coatings. *Physical Review D*, **2016**, 93,	4.9	15
64	Observing gravitational-wave transient GW150914 with minimal assumptions. *Physical Review D*, **2016**, 93,	4.9	94
63	Tests of General Relativity with GW150914. *Physical Review Letters*, **2016**, 116, 221101	7.4	837
62	Properties of the Binary Black Hole Merger GW150914. *Physical Review Letters*, **2016**, 116, 241102	7.4	515
61	GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. *Physical Review Letters*, **2016**, 116, 241103	7.4	2136
60	Binary Black Hole Mergers in the First Advanced LIGO Observing Run. *Physical Review X*, **2016**, 6,	9.1	723
59	Birefringence measurements on crystalline silicon. *Classical and Quantum Gravity*, **2016**, 33, 015012	3.3	6
58	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. *Astrophysical Journal Letters*, **2016**, 818, L22	7.9	512
57	Observation of Gravitational Waves from a Binary Black Hole Merger. *Physical Review Letters*, **2016**, 116, 061102	7.4	6108
56	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. *Classical and Quantum Gravity*, **2016**, 33,	3.3	155
55	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
54	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. *Living Reviews in Relativity*, **2016**, 19, 1	32.5	393
53	Improved Analysis of GW150914 Using a Fully Spin-Precessing Waveform Model. *Physical Review X*, **2016**, 6,	9.1	89
52	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
51	THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. *Astrophysical Journal Letters*, **2016**, 833, L1	7.9	209
50	Searching for stochastic gravitational waves using data from the two colocated LIGO Hanford detectors. *Physical Review D*, **2015**, 91,	4.9	26
49	Directed search for gravitational waves from Scorpius X-1 with initial LIGO data. *Physical Review D*, **2015**, 91,	4.9	38
48	Mapping the optical absorption of a substrate-transferred crystalline AlGaAs coating at 1.5 μm. *Classical and Quantum Gravity*, **2015**, 32, 105008	3.3	9

47	Thermal noise reduction and absorption optimization via multimaterial coatings. *Physical Review D*, **2015**, 91,	4.9	23
46	Characterization of the LIGO detectors during their sixth science run. *Classical and Quantum Gravity* , **2015**, 32, 115012	3.3	790
45	Advanced LIGO. *Classical and Quantum Gravity*, **2015**, 32, 074001	3.3	1098
44	SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. *Astrophysical Journal*, **2015**, 813, 39	4.7	58
43	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
42	Optical absorption measurement at 1550 nm on a highly-reflective Si/SiO 2 coating stack. *Classical and Quantum Gravity*, **2014**, 31, 105005	3.3	11
41	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
40	GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. *Astrophysical Journal*, **2014**, 785, 119	4.7	109
39	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
38	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
37	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
36	Search for gravitational waves associated with γ-ray bursts detected by the interplanetary network. *Physical Review Letters*, **2014**, 113, 011102	7.4	30
35	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
34	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
33	Concepts and research for future detectors. *General Relativity and Gravitation*, **2014**, 46, 1	2.3	2
32	FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. *Astrophysical Journal, Supplement Series*, **2014**, 211, 7	8	51
31	First all-sky search for continuous gravitational waves from unknown sources in binary systems. *Physical Review D*, **2014**, 90,	4.9	54
30	Constraints on cosmic strings from the LIGO-Virgo gravitational-wave detectors. *Physical Review Letters*, **2014**, 112, 131101	7.4	59

29	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
28	Multimessenger search for sources of gravitational waves and high-energy neutrinos: Initial results for LIGO-Virgo and IceCube. *Physical Review D*, **2014**, 90,	4.9	25
27	Search for gravitational waves from binary black hole inspiral, merger, and ringdown in LIGO-Virgo data from 2009–2010. *Physical Review D*, **2013**, 87,	4.9	91
26	Search for long-lived gravitational-wave transients coincident with long gamma-ray bursts. *Physical Review D*, **2013**, 88,	4.9	30
25	Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. *Nature Photonics*, **2013**, 7, 613-619	33.9	572
24	A first search for coincident gravitational waves and high energy neutrinos using LIGO, Virgo and ANTARES data from 2007. *Journal of Cosmology and Astroparticle Physics*, **2013**, 2013, 008-008	6.4	29
23	Absorption measurements of periodically poled potassium titanyl phosphate (PPKTP) at 775 nm and 1550 nm. *Sensors*, **2013**, 13, 565-73	3.8	8
22	Indication for dominating surface absorption in crystalline silicon test masses at 1550 nm. *Classical and Quantum Gravity*, **2013**, 30, 165001	3.3	13
21	Einstein@Home all-sky search for periodic gravitational waves in LIGO S5 data. *Physical Review D*, **2013**, 87,	4.9	84
20	Parameter estimation for compact binary coalescence signals with the first generation gravitational-wave detector network. *Physical Review D*, **2013**, 88,	4.9	122
19	Directed search for continuous gravitational waves from the Galactic center. *Physical Review D*, **2013**, 88,	4.9	57
18	Optical absorption measurements on crystalline silicon test masses at 1550 nm. *Classical and Quantum Gravity*, **2013**, 30, 095007	3.3	5
17	IMPLICATIONS FOR THE ORIGIN OF GRB 051103 FROM LIGO OBSERVATIONS. *Astrophysical Journal* , **2012**, 755, 2	4.7	53
16	All-sky search for gravitational-wave bursts in the second joint LIGO-Virgo run. *Physical Review D*, **2012**, 85,	4.9	96
15	Search for gravitational waves from intermediate mass binary black holes. *Physical Review D*, **2012**, 85,	4.9	46
14	Upper limits on a stochastic gravitational-wave background using LIGO and Virgo interferometers at 600–1000 Hz. *Physical Review D*, **2012**, 85,	4.9	40
13	Search for gravitational waves from low mass compact binary coalescence in LIGO's sixth science run and Virgo's science runs 2 and 3. *Physical Review D*, **2012**, 85,	4.9	172
12	All-sky search for periodic gravitational waves in the full S5 LIGO data. *Physical Review D*, **2012**, 85,	4.9	61

11	SWIFT FOLLOW-UP OBSERVATIONS OF CANDIDATE GRAVITATIONAL-WAVE TRANSIENT EVENTS. *Astrophysical Journal, Supplement Series*, **2012**, 203, 28	8	57
10	The characterization of Virgo data and its impact on gravitational-wave searches. *Classical and Quantum Gravity*, **2012**, 29, 155002	3.3	59
9	Photothermal self-phase-modulation technique for absorption measurements on high-reflective coatings. *Applied Optics*, **2012**, 51, 1156-61	1.7	9
8	First low-latency LIGO+Virgo search for binary inspirals and their electromagnetic counterparts. *Astronomy and Astrophysics*, **2012**, 541, A155	5.1	69
7	SEARCH FOR GRAVITATIONAL WAVES ASSOCIATED WITH GAMMA-RAY BURSTS DURING LIGO SCIENCE RUN 6 AND VIRGO SCIENCE RUNS 2 AND 3. *Astrophysical Journal*, **2012**, 760, 12	4.7	94
6	Implementation and testing of the first prompt search for gravitational wave transients with electromagnetic counterparts. *Astronomy and Astrophysics*, **2012**, 539, A124	5.1	71
5	High-efficiency frequency doubling of continuous-wave laser light. *Optics Letters*, **2011**, 36, 3467-9	3	35
4	SEARCH FOR GRAVITATIONAL WAVE BURSTS FROM SIX MAGNETARS. *Astrophysical Journal Letters*, **2011**, 734, L35	7.9	47
3	BEATING THE SPIN-DOWN LIMIT ON GRAVITATIONAL WAVE EMISSION FROM THE VELA PULSAR. *Astrophysical Journal*, **2011**, 737, 93	4.7	75
2	A gravitational wave observatory operating beyond the quantum shot-noise limit. *Nature Physics*, **2011**, 7, 962-965	16.2	554
1	Measuring small absorptions by exploiting photothermal self-phase modulation. *Applied Optics*, **2010**, 49, 5391-8	0.2	12