

Marco Bazzan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

157
papers

34,946
citations

60
h-index

168
g-index

168
ext. papers

44,445
ext. citations

5.7
avg, IF

4.86
L-index

#	Paper	IF	Citations
157	Calibration of advanced Virgo and reconstruction of the detector strain $h(t)$ during the observing run O3. <i>Classical and Quantum Gravity</i> , 2022 , 39, 045006	3.3	2
156	Constraints on dark photon dark matter using data from LIGO \mathbb{B} and Virgo \mathbb{B} third observing run. <i>Physical Review D</i> , 2022 , 105,	4.9	2
155	Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGO \mathbb{V} irgo Run O3b. <i>Astrophysical Journal</i> , 2022 , 928, 186	4.7	1
154	Search of the early O3 LIGO data for continuous gravitational waves from the Cassiopeia A and Vela Jr. supernova remnants. <i>Physical Review D</i> , 2022 , 105,	4.9	4
153	All-sky search for short gravitational-wave bursts in the third Advanced LIGO and Advanced Virgo run. <i>Physical Review D</i> , 2021 , 104,	4.9	4
152	All-sky search for long-duration gravitational-wave bursts in the third Advanced LIGO and Advanced Virgo run. <i>Physical Review D</i> , 2021 , 104,	4.9	1
151	All-sky search for continuous gravitational waves from isolated neutron stars in the early O3 LIGO data. <i>Physical Review D</i> , 2021 , 104,	4.9	15
150	A Gravitational-wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo. <i>Astrophysical Journal</i> , 2021 , 909, 218	4.7	46
149	Polaron Trapping and Migration in Iron-Doped Lithium Niobate. <i>Crystals</i> , 2021 , 11, 302	2.3	1
148	All-sky search in early O3 LIGO data for continuous gravitational-wave signals from unknown neutron stars in binary systems. <i>Physical Review D</i> , 2021 , 103,	4.9	15
147	Automated source of squeezed vacuum states driven by finite state machine based software. <i>Review of Scientific Instruments</i> , 2021 , 92, 054504	1.7	1
146	Diving below the Spin-down Limit: Constraints on Gravitational Waves from the Energetic Young Pulsar PSR J0537-6910. <i>Astrophysical Journal Letters</i> , 2021 , 913, L27	7.9	13
145	Population Properties of Compact Objects from the Second LIGO \mathbb{V} irgo Gravitational-Wave Transient Catalog. <i>Astrophysical Journal Letters</i> , 2021 , 913, L7	7.9	194
144	Observation of Gravitational Waves from Two Neutron Star \mathbb{B} Black Hole Coalescences. <i>Astrophysical Journal Letters</i> , 2021 , 915, L5	7.9	142
143	Tests of general relativity with binary black holes from the second LIGO-Virgo gravitational-wave transient catalog. <i>Physical Review D</i> , 2021 , 103,	4.9	81
142	Constraints on Cosmic Strings Using Data from the Third Advanced LIGO-Virgo Observing Run. <i>Physical Review Letters</i> , 2021 , 126, 241102	7.4	21
141	GWTC-2: Compact Binary Coalescences Observed by LIGO and Virgo during the First Half of the Third Observing Run. <i>Physical Review X</i> , 2021 , 11,	9.1	311

140	Upper limits on the isotropic gravitational-wave background from Advanced LIGO and Advanced Virgo's third observing run. <i>Physical Review D</i> , 2021 , 104,	4.9	33
139	Search for anisotropic gravitational-wave backgrounds using data from Advanced LIGO and Advanced Virgo's first three observing runs. <i>Physical Review D</i> , 2021 , 104,	4.9	12
138	Dependence of the damage in optical metal/dielectric coatings on the energy of ions in irradiation experiments for space qualification. <i>Scientific Reports</i> , 2021 , 11, 3429	4.9	2
137	Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGO-Virgo Run O3a. <i>Astrophysical Journal</i> , 2021 , 915, 86	4.7	6
136	3D characterization of low optical absorption structures in large crystalline sapphire substrates for gravitational wave detectors. <i>Scientific Reports</i> , 2021 , 11, 2654	4.9	1
135	Search for Lensing Signatures in the Gravitational-Wave Observations from the First Half of LIGO-Virgo's Third Observing Run. <i>Astrophysical Journal</i> , 2021 , 923, 14	4.7	4
134	GW190814: Gravitational Waves from the Coalescence of a 23 Solar Mass Black Hole with a 2.6 Solar Mass Compact Object. <i>Astrophysical Journal Letters</i> , 2020 , 896, L44	7.9	571
133	A Simple Method for Photoconductivity Measurement in Lithium Niobate. <i>Crystals</i> , 2020 , 10, 461	2.3	
132	GW190425: Observation of a Compact Binary Coalescence with Total Mass $\sim 3.4 M_{\odot}$. <i>Astrophysical Journal Letters</i> , 2020 , 892, L3	7.9	591
131	Model comparison from LIGO-Virgo data on GW170817's binary components and consequences for the merger remnant. <i>Classical and Quantum Gravity</i> , 2020 , 37, 045006	3.3	69
130	A guide to LIGO-Virgo detector noise and extraction of transient gravitational-wave signals. <i>Classical and Quantum Gravity</i> , 2020 , 37, 055002	3.3	78
129	Advanced Virgo Status. <i>Journal of Physics: Conference Series</i> , 2020 , 1342, 012010	0.3	8
128	Properties and Astrophysical Implications of the $150 M_{\odot}$ Binary Black Hole Merger GW190521. <i>Astrophysical Journal Letters</i> , 2020 , 900, L13	7.9	207
127	Gravitational-wave Constraints on the Equatorial Ellipticity of Millisecond Pulsars. <i>Astrophysical Journal Letters</i> , 2020 , 902, L21	7.9	32
126	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2020 , 23, 3	32.5	144
125	A Joint Fermi-GBM and LIGO/Virgo Analysis of Compact Binary Mergers from the First and Second Gravitational-wave Observing Runs. <i>Astrophysical Journal</i> , 2020 , 893, 100	4.7	9
124	Study and experiment on the alternative technique of frequency-dependent squeezing generation with EPR entanglement for Virgo. <i>Journal of Physics: Conference Series</i> , 2020 , 1468, 012215	0.3	
123	GW190521: A Binary Black Hole Merger with a Total Mass of $150 M_{\odot}$. <i>Physical Review Letters</i> , 2020 , 125, 101102	7.4	420

122	Quantum Backaction on kg-Scale Mirrors: Observation of Radiation Pressure Noise in the Advanced Virgo Detector. <i>Physical Review Letters</i> , 2020 , 125, 131101	7.4	17
121	GW190412: Observation of a binary-black-hole coalescence with asymmetric masses. <i>Physical Review D</i> , 2020 , 102,	4.9	212
120	The advanced Virgo longitudinal control system for the O2 observing run. <i>Astroparticle Physics</i> , 2020 , 116, 102386	2.4	7
119	Optically targeted search for gravitational waves emitted by core-collapse supernovae during the first and second observing runs of advanced LIGO and advanced Virgo. <i>Physical Review D</i> , 2020 , 101,	4.9	36
118	Binary Black Hole Population Properties Inferred from the First and Second Observing Runs of Advanced LIGO and Advanced Virgo. <i>Astrophysical Journal Letters</i> , 2019 , 882, L24	7.9	381
117	Directional limits on persistent gravitational waves using data from Advanced LIGO's first two observing runs. <i>Physical Review D</i> , 2019 , 100,	4.9	31
116	GWTC-1: A Gravitational-Wave Transient Catalog of Compact Binary Mergers Observed by LIGO and Virgo during the First and Second Observing Runs. <i>Physical Review X</i> , 2019 , 9,	9.1	1169
115	Search for the isotropic stochastic background using data from Advanced LIGO's second observing run. <i>Physical Review D</i> , 2019 , 100,	4.9	117
114	Time evolution of Symmetry-forbidden Raman lines activated by photorefractivity. <i>Scientific Reports</i> , 2019 , 9, 13408	4.9	1
113	A Standard Siren Measurement of the Hubble Constant from GW170817 without the Electromagnetic Counterpart. <i>Astrophysical Journal Letters</i> , 2019 , 871, L13	7.9	77
112	All-sky search for long-duration gravitational-wave transients in the second Advanced LIGO observing run. <i>Physical Review D</i> , 2019 , 99,	4.9	17
111	A Fermi Gamma-Ray Burst Monitor Search for Electromagnetic Signals Coincident with Gravitational-wave Candidates in Advanced LIGO's First Observing Run. <i>Astrophysical Journal</i> , 2019 , 871, 90	4.7	22
110	Searches for Continuous Gravitational Waves from 15 Supernova Remnants and Fomalhaut b with Advanced LIGO. <i>Astrophysical Journal</i> , 2019 , 875, 122	4.7	45
109	Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal</i> , 2019 , 875, 160	4.7	60
108	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. <i>Astrophysical Journal Letters</i> , 2019 , 876, L7	7.9	91
107	Low-latency Gravitational-wave Alerts for Multimessenger Astronomy during the Second Advanced LIGO and Virgo Observing Run. <i>Astrophysical Journal</i> , 2019 , 875, 161	4.7	49
106	Gold Nanodisks Plasmonic Array for Hydrogen Sensing at Low Temperature. <i>Sensors</i> , 2019 , 19,	3.8	7
105	Search for Transient Gravitational-wave Signals Associated with Magnetar Bursts during Advanced LIGO's Second Observing Run. <i>Astrophysical Journal</i> , 2019 , 874, 163	4.7	17

104	Narrow-band search for gravitational waves from known pulsars using the second LIGO observing run. <i>Physical Review D</i> , 2019 , 99,	4.9	43
103	Searches for Gravitational Waves from Known Pulsars at Two Harmonics in 2015–2017 LIGO Data. <i>Astrophysical Journal</i> , 2019 , 879, 10	4.7	63
102	All-sky search for continuous gravitational waves from isolated neutron stars using Advanced LIGO O2 data. <i>Physical Review D</i> , 2019 , 100,	4.9	81
101	All-sky search for short gravitational-wave bursts in the second Advanced LIGO and Advanced Virgo run. <i>Physical Review D</i> , 2019 , 100,	4.9	39
100	Tests of General Relativity with GW170817. <i>Physical Review Letters</i> , 2019 , 123, 011102	7.4	204
99	Search for Eccentric Binary Black Hole Mergers with Advanced LIGO and Advanced Virgo during Their First and Second Observing Runs. <i>Astrophysical Journal</i> , 2019 , 883, 149	4.7	36
98	Search for intermediate mass black hole binaries in the first and second observing runs of the Advanced LIGO and Virgo network. <i>Physical Review D</i> , 2019 , 100,	4.9	39
97	Search for Substellar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. <i>Physical Review Letters</i> , 2019 , 123, 161102	7.4	68
96	Constraining the p-Mode-g-Mode Tidal Instability with GW170817. <i>Physical Review Letters</i> , 2019 , 122, 061104	7.4	22
95	Tests of general relativity with the binary black hole signals from the LIGO-Virgo catalog GWTC-1. <i>Physical Review D</i> , 2019 , 100,	4.9	258
94	Increasing the Astrophysical Reach of the Advanced Virgo Detector via the Application of Squeezed Vacuum States of Light. <i>Physical Review Letters</i> , 2019 , 123, 231108	7.4	134
93	Search for Gravitational-wave Signals Associated with Gamma-Ray Bursts during the Second Observing Run of Advanced LIGO and Advanced Virgo. <i>Astrophysical Journal</i> , 2019 , 886, 75	4.7	21
92	Search for gravitational waves from Scorpius X-1 in the second Advanced LIGO observing run with an improved hidden Markov model. <i>Physical Review D</i> , 2019 , 100,	4.9	31
91	Properties of the Binary Neutron Star Merger GW170817. <i>Physical Review X</i> , 2019 , 9,	9.1	423
90	The role of self-trapped excitons in polaronic recombination processes in lithium niobate. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 065701	1.8	9
89	Effects of data quality vetoes on a search for compact binary coalescences in Advanced LIGO's first observing run. <i>Classical and Quantum Gravity</i> , 2018 , 35, 065010	3.3	62
88	GW170817: Implications for the Stochastic Gravitational-Wave Background from Compact Binary Coalescences. <i>Physical Review Letters</i> , 2018 , 120, 091101	7.4	120
87	Tribological properties of TiC/a-C:H nanocomposite coatings prepared via HiPIMS. <i>Applied Surface Science</i> , 2018 , 440, 458-466	6.7	26

86	All-sky search for long-duration gravitational wave transients in the first Advanced LIGO observing run. <i>Classical and Quantum Gravity</i> , 2018 , 35, 065009	3.3	12
85	The elusive role of Nb bound polaron energy in hopping charge transport in Fe: LiNbO. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 125701	1.8	8
84	First Search for Nontensorial Gravitational Waves from Known Pulsars. <i>Physical Review Letters</i> , 2018 , 120, 031104	7.4	50
83	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2018 , 21, 3	32.5	543
82	Full band all-sky search for periodic gravitational waves in the O1 LIGO data. <i>Physical Review D</i> , 2018 , 97,	4.9	37
81	Constraints on cosmic strings using data from the first Advanced LIGO observing run. <i>Physical Review D</i> , 2018 , 97,	4.9	60
80	Efficient second harmonic generation with compact design: double-pass and cavity configurations. <i>Laser Physics</i> , 2018 , 28, 115401	1.2	1
79	Small Polaron Hopping in Fe:LiNbO3 as a Function of Temperature and Composition. <i>Crystals</i> , 2018 , 8, 294	2.3	11
78	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA 2018 , 21, 1		2
77	Search for Substellar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2018 , 121, 231103	7.4	49
76	A polaron approach to photorefractivity in Fe : LiNbO3. <i>Journal of Physics Communications</i> , 2018 , 2, 125003		5
75	GW170817: Measurements of Neutron Star Radii and Equation of State. <i>Physical Review Letters</i> , 2018 , 121, 161101	7.4	867
74	Calibration of advanced Virgo and reconstruction of the gravitational wave signal $h(t)$ during the observing run O2. <i>Classical and Quantum Gravity</i> , 2018 , 35, 205004	3.3	35
73	Morphological and Functional Modifications of Optical Thin Films for Space Applications Irradiated with Low-Energy Helium Ions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 34781-34791	9.5	7
72	Status of Advanced Virgo. <i>EPJ Web of Conferences</i> , 2018 , 182, 02003	0.3	4
71	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. <i>Physical Review Letters</i> , 2018 , 120, 201102	7.4	60
70	All-sky search for short gravitational-wave bursts in the first Advanced LIGO run. <i>Physical Review D</i> , 2017 , 95,	4.9	54
69	Effects of waveform model systematics on the interpretation of GW150914. <i>Classical and Quantum Gravity</i> , 2017 , 34, 104002	3.3	74

68	A study of the brightest peaks in the diffraction pattern of Fibonacci gratings. <i>Journal of Optics (United Kingdom)</i> , 2017 , 19, 055613	1.7	1
67	In situ real-time investigation of hydrogen-induced structural and optical changes in palladium thin films. <i>Journal of Alloys and Compounds</i> , 2017 , 704, 303-310	5.7	5
66	Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017 , 118, 121101	7.4	137
65	Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017 , 118, 121102	7.4	65
64	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. <i>Astrophysical Journal</i> , 2017 , 839, 12	4.7	107
63	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , 2017 , 529, 1600209	2.6	45
62	GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. <i>Physical Review Letters</i> , 2017 , 119, 141101	7.4	1270
61	Upper Limits on Gravitational Waves from Scorpius X-1 from a Model-based Cross-correlation Search in Advanced LIGO Data. <i>Astrophysical Journal</i> , 2017 , 847, 47	4.7	35
60	GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. <i>Physical Review Letters</i> , 2017 , 119, 161101	7.4	4272
59	Multi-messenger Observations of a Binary Neutron Star Merger. <i>Astrophysical Journal Letters</i> , 2017 , 848, L12	7.9	1935
58	Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. <i>Astrophysical Journal Letters</i> , 2017 , 848, L13	7.9	1614
57	Search for intermediate mass black hole binaries in the first observing run of Advanced LIGO. <i>Physical Review D</i> , 2017 , 96,	4.9	64
56	All-sky search for periodic gravitational waves in the O1 LIGO data. <i>Physical Review D</i> , 2017 , 96,	4.9	54
55	Search for Gravitational Waves Associated with Gamma-Ray Bursts during the First Advanced LIGO Observing Run and Implications for the Origin of GRB 150906B. <i>Astrophysical Journal</i> , 2017 , 841, 89	4.7	42
54	Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 851, L16	7.9	133
53	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 850, L39	7.9	127
52	GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2. <i>Physical Review Letters</i> , 2017 , 118, 221101	7.4	1609
51	Photorefractive Lithium Niobate crystals: light polarisation rotation highlighted by transmission Raman spectroscopy. <i>Journal of Physics: Conference Series</i> , 2017 , 867, 012035	0.3	

50	Search for continuous gravitational waves from neutron stars in globular cluster NGC 6544. <i>Physical Review D</i> , 2017 , 95,	4.9	14
49	Search for gravitational waves from Scorpius X-1 in the first Advanced LIGO observing run with a hidden Markov model. <i>Physical Review D</i> , 2017 , 95,	4.9	47
48	Status of the Advanced Virgo gravitational wave detector. <i>International Journal of Modern Physics A</i> , 2017 , 32, 1744003	1.2	5
47	First narrow-band search for continuous gravitational waves from known pulsars in advanced detector data. <i>Physical Review D</i> , 2017 , 96,	4.9	39
46	First low-frequency Einstein@Home all-sky search for continuous gravitational waves in Advanced LIGO data. <i>Physical Review D</i> , 2017 , 96,	4.9	54
45	On the Progenitor of Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 850, L40	7.9	50
44	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. <i>Astrophysical Journal Letters</i> , 2017 , 851, L35	7.9	809
43	LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 826, L13	7.9	183
42	Comprehensive all-sky search for periodic gravitational waves in the sixth science run LIGO data. <i>Physical Review D</i> , 2016 , 94,	4.9	28
41	First targeted search for gravitational-wave bursts from core-collapse supernovae in data of first-generation laser interferometer detectors. <i>Physical Review D</i> , 2016 , 94,	4.9	43
40	UPPER LIMITS ON THE RATES OF BINARY NEUTRON STAR AND NEUTRON STARBLACK HOLE MERGERS FROM ADVANCED LIGO'S FIRST OBSERVING RUN. <i>Astrophysical Journal Letters</i> , 2016 , 832, L21	7.9	130
39	Directly comparing GW150914 with numerical solutions of Einstein's equations for binary black hole coalescence. <i>Physical Review D</i> , 2016 , 94,	4.9	76
38	All-sky search for long-duration gravitational wave transients with initial LIGO. <i>Physical Review D</i> , 2016 , 93,	4.9	27
37	GW150914: First results from the search for binary black hole coalescence with Advanced LIGO. <i>Physical Review D</i> , 2016 , 93,	4.9	253
36	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. <i>Physical Review Letters</i> , 2016 , 116, 131102	7.4	188
35	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. <i>Physical Review Letters</i> , 2016 , 116, 131103	7.4	328
34	SUPPLEMENT: LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914[(2016, ApJL, 826, L13). <i>Astrophysical Journal, Supplement Series</i> , 2016 , 225, 8	8	38
33	Observing gravitational-wave transient GW150914 with minimal assumptions. <i>Physical Review D</i> , 2016 , 93,	4.9	94

32	Tests of General Relativity with GW150914. <i>Physical Review Letters</i> , 2016 , 116, 221101	7.4	837
31	Properties of the Binary Black Hole Merger GW150914. <i>Physical Review Letters</i> , 2016 , 116, 241102	7.4	515
30	GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence. <i>Physical Review Letters</i> , 2016 , 116, 241103	7.4	2136
29	Binary Black Hole Mergers in the First Advanced LIGO Observing Run. <i>Physical Review X</i> , 2016 , 6,	9.1	723
28	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 818, L22	7.9	512
27	Observation of Gravitational Waves from a Binary Black Hole Merger. <i>Physical Review Letters</i> , 2016 , 116, 061102	7.4	6108
26	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , 2016 , 33,	3.3	155
25	SUPPLEMENT: THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914(2016, ApJL, 833, L1). <i>Astrophysical Journal, Supplement Series</i> , 2016 , 227, 14	8	52
24	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. <i>Living Reviews in Relativity</i> , 2016 , 19, 1	32.5	393
23	Improved Analysis of GW150914 Using a Fully Spin-Precessing Waveform Model. <i>Physical Review X</i> , 2016 , 6,	9.1	89
22	Results of the deepest all-sky survey for continuous gravitational waves on LIGO S6 data running on the Einstein@Home volunteer distributed computing project. <i>Physical Review D</i> , 2016 , 94,	4.9	29
21	THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 833, L1	7.9	209
20	Equivalence classes of Fibonacci lattices and their similarity properties. <i>Physical Review A</i> , 2016 , 94,	2.6	3
19	Polaronic deformation at the Fe ^{2+/3+} impurity site in Fe:LiNbO ₃ crystals. <i>Physical Review B</i> , 2015 , 91,	3.3	31
18	Preface to Special Topic: Lithium Niobate Properties and Applications: Reviews of Emerging Trends. <i>Applied Physics Reviews</i> , 2015 , 2, 040501	17.3	15
17	Optical waveguides in lithium niobate: Recent developments and applications. <i>Applied Physics Reviews</i> , 2015 , 2, 040603	17.3	129
16	Photorefractive effect at 775 nm in doped lithium niobate crystals. <i>Applied Physics Letters</i> , 2013 , 103, 031904	3.4	6
15	Raman frequency shift induced by photorefractive effect on Fe-doped lithium niobate. <i>Journal of Applied Physics</i> , 2013 , 114, 163506	2.5	7

14	Quantification of Iron (Fe) in Lithium Niobate by Optical Absorption. <i>Applied Spectroscopy</i> , 2011 , 65, 216-220	3.2	15
13	Diffusion of iron in lithium niobate: a secondary ion mass spectrometry study. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 105, 111-118	2.6	2
12	Structural and optical properties of zirconium doped lithium niobate crystals. <i>Journal of Applied Physics</i> , 2010 , 108, 093508	2.5	23
11	Lithium niobate crystals doped with iron by thermal diffusion: Relation between lattice deformation and reduction degree. <i>Journal of Applied Physics</i> , 2010 , 107, 084108	2.5	9
10	Micro-Raman analysis of Fe-diffused lithium niobate waveguides. <i>Applied Physics B: Lasers and Optics</i> , 2010 , 101, 541-546	1.9	13
9	Depth Resolved Study of the Composition and Polaron Luminescence of Fe:LiNbO ₃ Diffused Crystals. <i>Ferroelectrics</i> , 2009 , 389, 142-152	0.6	
8	Raman Investigation of Fe in Diffused Photorefractive Waveguides on Lithium Niobate Substrates. <i>Ferroelectrics</i> , 2009 , 390, 3-9	0.6	2
7	Optical characterization of erbium doped LiNbO ₃ poling properties. <i>Journal of Applied Physics</i> , 2008 , 104, 014103	2.5	1
6	Refractive Index Modulation in Periodically Poled Lithium Niobate Crystals. <i>Ferroelectrics</i> , 2007 , 352, 125-133	0.6	2
5	A Novel Configuration for Phase-Matched Second-Harmonic Generation in LiNbO ₃ Waveguides. <i>IEEE Photonics Technology Letters</i> , 2007 , 19, 553-555	2.2	3
4	Phase-matched SHG in periodically poled LiNbO ₃ waveguides: A novel configuration. <i>Optical and Quantum Electronics</i> , 2007 , 38, 889-901	2.4	2
3	High Resolution X-Ray Characterization of Sub-Micron Periodic Domain Structures in Lithium Niobate Crystals. <i>Ferroelectrics</i> , 2007 , 352, 25-34	0.6	6
2	Modeling and Characterization of Border Domain Effects in Periodically Poled Lithium Niobate Crystals Grown by the Off-center Czochralski Technique. <i>Optical and Quantum Electronics</i> , 2006 , 38, 177-185	2.4	7
1	Search for intermediate-mass black hole binaries in the third observing run of Advanced LIGO and Advanced Virgo. <i>Astronomy and Astrophysics</i> ,	5.1	4