

Iain Martin

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1101217/iain-martin-publications-by-citations.pdf>

Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

155 papers	30,409 citations	58 h-index	162 g-index
162 ext. papers	36,396 ext. citations	5.4 avg, IF	5.39 L-index

#	Paper	IF	Citations
155	Observation of Gravitational Waves from a Binary Black Hole Merger. <i>Physical Review Letters</i> , 2016 , 116, 061102	7.4	6108
154	GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral. <i>Physical Review Letters</i> , 2017 , 119, 161101	7.4	4272
153	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
152	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
151	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
150	Advanced LIGO. <i>Classical and Quantum Gravity</i> , 2015 , 32, 074001	3.3	1098
149	Predictions for the rates of compact binary coalescences observable by ground-based gravitational-wave detectors. <i>Classical and Quantum Gravity</i> , 2010 , 27, 173001	3.3	869
148	Tests of General Relativity with GW150914. <i>Physical Review Letters</i> , 2016 , 116, 221101	7.4	837
147	Characterization of the LIGO detectors during their sixth science run. <i>Classical and Quantum Gravity</i> , 2015 , 32, 115012	3.3	790
146	Binary Black Hole Mergers in the First Advanced LIGO Observing Run. <i>Physical Review X</i> , 2016 , 6,	9.1	723
145	The Einstein Telescope: a third-generation gravitational wave observatory. <i>Classical and Quantum Gravity</i> , 2010 , 27, 194002	3.3	675
144	Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. <i>Nature Photonics</i> , 2013 , 7, 613-619	33.9	572
143	A gravitational wave observatory operating beyond the quantum shot-noise limit. <i>Nature Physics</i> , 2011 , 7, 962-965	16.2	554
142	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
141	Properties of the Binary Black Hole Merger GW150914. <i>Physical Review Letters</i> , 2016 , 116, 241102	7.4	515
140	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 818, L22	7.9	512
139	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

138	Sensitivity studies for third-generation gravitational wave observatories. <i>Classical and Quantum Gravity</i> , 2011 , 28, 094013	3.3	382
137	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. <i>Physical Review Letters</i> , 2016 , 116, 131103	7.4	328
136	Scientific objectives of Einstein Telescope. <i>Classical and Quantum Gravity</i> , 2012 , 29, 124013	3.3	256
135	GW150914: First results from the search for binary black hole coalescence with Advanced LIGO. <i>Physical Review D</i> , 2016 , 93,	4.9	253
134	The third generation of gravitational wave observatories and their science reach. <i>Classical and Quantum Gravity</i> , 2010 , 27, 084007	3.3	214
133	Sensitivity of the Advanced LIGO detectors at the beginning of gravitational wave astronomy. <i>Physical Review D</i> , 2016 , 93,	4.9	208
132	LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 826, L13	7.9	183
131	Search for gravitational waves from low mass compact binary coalescence in LIGO's sixth science run and Virgo's science runs 2 and 3. <i>Physical Review D</i> , 2012 , 85,	4.9	172
130	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , 2016 , 33,	3.3	155
129	Beating the Spin-Down Limit on Gravitational Wave Emission from the Crab Pulsar. <i>Astrophysical Journal</i> , 2008 , 683, L45-L49	4.7	148
128	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
127	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
126	Parameter estimation for compact binary coalescence signals with the first generation gravitational-wave detector network. <i>Physical Review D</i> , 2013 , 88,	4.9	122
125	GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. <i>Astrophysical Journal</i> , 2014 , 785, 119	4.7	109
124	Calibration of the LIGO gravitational wave detectors in the fifth science run. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010 , 624, 223-240	1.2	108
123	Search for gravitational waves from compact binary coalescence in LIGO and Virgo data from S5 and VSR1. <i>Physical Review D</i> , 2010 , 82,	4.9	100
122	Update on quadruple suspension design for Advanced LIGO. <i>Classical and Quantum Gravity</i> , 2012 , 29, 235004	3.3	97
121	All-sky search for gravitational-wave bursts in the second joint LIGO-Virgo run. <i>Physical Review D</i> , 2012 , 85,	4.9	96

120	FIRST SEARCH FOR GRAVITATIONAL WAVES FROM THE YOUNGEST KNOWN NEUTRON STAR. <i>Astrophysical Journal</i> , 2010 , 722, 1504-1513	4.7	95
119	Observing gravitational-wave transient GW150914 with minimal assumptions. <i>Physical Review D</i> , 2016 , 93,	4.9	94
118	SEARCH FOR GRAVITATIONAL WAVES ASSOCIATED WITH GAMMA-RAY BURSTS DURING LIGO SCIENCE RUN 6 AND VIRGO SCIENCE RUNS 2 AND 3. <i>Astrophysical Journal</i> , 2012 , 760, 12	4.7	94
117	Directional limits on persistent gravitational waves using LIGO S5 science data. <i>Physical Review Letters</i> , 2011 , 107, 271102	7.4	85
116	Upper limit map of a background of gravitational waves. <i>Physical Review D</i> , 2007 , 76,	4.9	85
115	Einstein@Home all-sky search for periodic gravitational waves in LIGO S5 data. <i>Physical Review D</i> , 2013 , 87,	4.9	84
114	All-sky search for gravitational-wave bursts in the first joint LIGO-GEO-Virgo run. <i>Physical Review D</i> , 2010 , 81,	4.9	81
113	SEARCH FOR GRAVITATIONAL-WAVE INSPIRAL SIGNALS ASSOCIATED WITH SHORT GAMMA-RAY BURSTS DURING LIGO'S FIFTH AND VIRGO'S FIRST SCIENCE RUN. <i>Astrophysical Journal</i> , 2010 , 715, 1453-1461	4.7	79
112	Identification and mitigation of narrow spectral artifacts that degrade searches for persistent gravitational waves in the first two observing runs of Advanced LIGO. <i>Physical Review D</i> , 2018 , 97,	4.9	77
111	Search for gravitational waves from binary black hole inspiral, merger, and ringdown. <i>Physical Review D</i> , 2011 , 83,	4.9	77
110	All-sky LIGO search for periodic gravitational waves in the early fifth-science-run data. <i>Physical Review Letters</i> , 2009 , 102, 111102	7.4	77
109	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
108	BEATING THE SPIN-DOWN LIMIT ON GRAVITATIONAL WAVE EMISSION FROM THE VELA PULSAR. <i>Astrophysical Journal</i> , 2011 , 737, 93	4.7	75
107	Improved upper limits on the stochastic gravitational-wave background from 2009-2010 LIGO and Virgo data. <i>Physical Review Letters</i> , 2014 , 113, 231101	7.4	74
106	Search for gravitational-wave bursts in the first year of the fifth LIGO science run. <i>Physical Review D</i> , 2009 , 80,	4.9	71
105	Implementation and testing of the first prompt search for gravitational wave transients with electromagnetic counterparts. <i>Astronomy and Astrophysics</i> , 2012 , 539, A124	5.1	71
104	First low-latency LIGO+Virgo search for binary inspirals and their electromagnetic counterparts. <i>Astronomy and Astrophysics</i> , 2012 , 541, A155	5.1	69
103	Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017 , 118, 121102	7.4	65

102	All-sky search for periodic gravitational waves in the full S5 LIGO data. <i>Physical Review D</i> , 2012 , 85,	4.9	61
101	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. <i>Physical Review Letters</i> , 2018 , 120, 201102	7.4	60
100	Constraints on cosmic strings from the LIGO-Virgo gravitational-wave detectors. <i>Physical Review Letters</i> , 2014 , 112, 131101	7.4	59
99	The characterization of Virgo data and its impact on gravitational-wave searches. <i>Classical and Quantum Gravity</i> , 2012 , 29, 155002	3.3	59
98	SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. <i>Astrophysical Journal</i> , 2015 , 813, 39	4.7	58
97	Directed search for continuous gravitational waves from the Galactic center. <i>Physical Review D</i> , 2013 , 88,	4.9	57
96	Effect of heat treatment on mechanical dissipation in Ta 2 O 5 coatings. <i>Classical and Quantum Gravity</i> , 2010 , 27, 225020	3.3	57
95	SWIFT FOLLOW-UP OBSERVATIONS OF CANDIDATE GRAVITATIONAL-WAVE TRANSIENT EVENTS. <i>Astrophysical Journal, Supplement Series</i> , 2012 , 203, 28	8	57
94	First all-sky search for continuous gravitational waves from unknown sources in binary systems. <i>Physical Review D</i> , 2014 , 90,	4.9	54
93	SEARCH FOR GRAVITATIONAL-WAVE BURSTS ASSOCIATED WITH GAMMA-RAY BURSTS USING DATA FROM LIGO SCIENCE RUN 5 AND VIRGO SCIENCE RUN 1. <i>Astrophysical Journal</i> , 2010 , 715, 1438-1452	4.7	54
92	IMPLICATIONS FOR THE ORIGIN OF GRB 051103 FROM LIGO OBSERVATIONS. <i>Astrophysical Journal</i> , 2012 , 755, 2	4.7	53
91	FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. <i>Astrophysical Journal, Supplement Series</i> , 2014 , 211, 7	8	51
90	First Search for Nontensorial Gravitational Waves from Known Pulsars. <i>Physical Review Letters</i> , 2018 , 120, 031104	7.4	50
89	SEARCH FOR GRAVITATIONAL WAVE BURSTS FROM SIX MAGNETARS. <i>Astrophysical Journal Letters</i> , 2011 , 734, L35	7.9	47
88	Search for gravitational waves from intermediate mass binary black holes. <i>Physical Review D</i> , 2012 , 85,	4.9	46
87	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
86	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , 2017 , 529, 1600209	2.6	45
85	Comparison of the temperature dependence of the mechanical dissipation in thin films of Ta 2 O 5 and Ta 2 O 5 doped with TiO 2. <i>Classical and Quantum Gravity</i> , 2009 , 26, 155012	3.3	44

84	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
83	Upper limits on a stochastic gravitational-wave background using LIGO and Virgo interferometers at 600–1000 Hz. <i>Physical Review D</i> , 2012 , 85,	4.9	40
82	Search for gravitational waves associated with the August 2006 timing glitch of the Vela pulsar. <i>Physical Review D</i> , 2011 , 83,	4.9	40
81	Directed search for gravitational waves from Scorpius X-1 with initial LIGO data. <i>Physical Review D</i> , 2015 , 91,	4.9	38
80	Low temperature mechanical dissipation of an ion-beam sputtered silica film. <i>Classical and Quantum Gravity</i> , 2014 , 31, 035019	3.3	38
79	Correlations between the mechanical loss and atomic structure of amorphous TiO ₂ -doped Ta ₂ O ₅ coatings. <i>Acta Materialia</i> , 2013 , 61, 1070-1077	8.4	35
78	The NINJA-2 project: detecting and characterizing gravitational waveforms modelled using numerical binary black hole simulations. <i>Classical and Quantum Gravity</i> , 2014 , 31, 115004	3.3	34
77	Search for gravitational radiation from intermediate mass black hole binaries in data from the second LIGO-Virgo joint science run. <i>Physical Review D</i> , 2014 , 89,	4.9	32
76	Narrow-band search of continuous gravitational-wave signals from Crab and Vela pulsars in Virgo VSR4 data. <i>Physical Review D</i> , 2015 , 91,	4.9	32
75	Search for gravitational waves associated with γ -ray bursts detected by the interplanetary network. <i>Physical Review Letters</i> , 2014 , 113, 011102	7.4	30
74	Search for long-lived gravitational-wave transients coincident with long gamma-ray bursts. <i>Physical Review D</i> , 2013 , 88,	4.9	30
73	Invited article: CO ₂ laser production of fused silica fibers for use in interferometric gravitational wave detector mirror suspensions. <i>Review of Scientific Instruments</i> , 2011 , 82, 011301	1.7	30
72	First low frequency all-sky search for continuous gravitational wave signals. <i>Physical Review D</i> , 2016 , 93,	4.9	29
71	A first search for coincident gravitational waves and high energy neutrinos using LIGO, Virgo and ANTARES data from 2007. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013 , 2013, 008-008	6.4	29
70	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
69	Silicon-Based Optical Mirror Coatings for Ultrahigh Precision Metrology and Sensing. <i>Physical Review Letters</i> , 2018 , 120, 263602	7.4	29
68	Cryogenic measurements of mechanical loss of high-reflectivity coating and estimation of thermal noise. <i>Optics Letters</i> , 2013 , 38, 5268-71	3	28
67	All-sky search for long-duration gravitational wave transients with initial LIGO. <i>Physical Review D</i> , 2016 , 93,	4.9	27

66	Implementation of an \mathcal{F} -statistic all-sky search for continuous gravitational waves in Virgo VSR1 data. <i>Classical and Quantum Gravity</i> , 2014 , 31, 165014	3.3	27
65	Searching for stochastic gravitational waves using data from the two colocated LIGO Hanford detectors. <i>Physical Review D</i> , 2015 , 91,	4.9	26
64	Search for gravitational wave ringdowns from perturbed intermediate mass black holes in LIGO-Virgo data from 2005–2010. <i>Physical Review D</i> , 2014 , 89,	4.9	26
63	Methods and results of a search for gravitational waves associated with gamma-ray bursts using the GEO 600, LIGO, and Virgo detectors. <i>Physical Review D</i> , 2014 , 89,	4.9	25
62	Multimessenger search for sources of gravitational waves and high-energy neutrinos: Initial results for LIGO-Virgo and IceCube. <i>Physical Review D</i> , 2014 , 90,	4.9	25
61	Re-evaluation of the mechanical loss factor of hydroxide-catalysis bonds and its significance for the next generation of gravitational wave detectors. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010 , 374, 3993-3998	2.3	25
60	Thermal noise reduction and absorption optimization via multimaterial coatings. <i>Physical Review D</i> , 2015 , 91,	4.9	23
59	Medium range structural order in amorphous tantalum spatially resolved with changes to atomic structure by thermal annealing. <i>Journal of Non-Crystalline Solids</i> , 2016 , 438, 10-17	3.9	23
58	Ion-beam sputtered amorphous silicon films for cryogenic precision measurement systems. <i>Physical Review D</i> , 2015 , 92,	4.9	22
57	Measurement of the mechanical loss of prototype GaP/AlGaP crystalline coatings for future gravitational wave detectors. <i>Classical and Quantum Gravity</i> , 2015 , 32, 035002	3.3	22
56	Silicon mirror suspensions for gravitational wave detectors. <i>Classical and Quantum Gravity</i> , 2014 , 31, 025017	3.3	22
55	Investigation of mechanical losses of thin silicon flexures at low temperatures. <i>Classical and Quantum Gravity</i> , 2013 , 30, 115008	3.3	22
54	Strength testing and SEM imaging of hydroxide-catalysis bonds between silicon. <i>Classical and Quantum Gravity</i> , 2009 , 26, 175007	3.3	21
53	Development of Mirror Coatings for Gravitational Wave Detectors. <i>Coatings</i> , 2016 , 6, 61	2.9	21
52	Application of a Hough search for continuous gravitational waves on data from the fifth LIGO science run. <i>Classical and Quantum Gravity</i> , 2014 , 31, 085014	3.3	18
51	First Demonstration of Electrostatic Damping of Parametric Instability at Advanced LIGO. <i>Physical Review Letters</i> , 2017 , 118, 151102	7.4	18
50	Investigation of mechanical dissipation in CO ₂ laser-drawn fused silica fibres and welds. <i>Classical and Quantum Gravity</i> , 2010 , 27, 035013	3.3	18
49	Amorphous Silicon with Extremely Low Absorption: Beating Thermal Noise in Gravitational Astronomy. <i>Physical Review Letters</i> , 2018 , 121, 191101	7.4	18

48	High Precision Detection of Change in Intermediate Range Order of Amorphous Zirconia-Doped Tantalum Thin Films Due to Annealing. <i>Physical Review Letters</i> , 2019 , 123, 045501	7.4	17
47	Influence of temperature and hydroxide concentration on the settling time of hydroxy-catalysis bonds. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007 , 363, 341-345	2.3	17
46	Effect of elevated substrate temperature deposition on the mechanical losses in tantalum thin film coatings. <i>Classical and Quantum Gravity</i> , 2018 , 35, 075001	3.3	16
45	Mechanical loss of a multilayer tantalum/silica coating on a sapphire disk at cryogenic temperatures: Toward the KAGRA gravitational wave detector. <i>Physical Review D</i> , 2014 , 90,	4.9	16
44	Optical absorption of ion-beam sputtered amorphous silicon coatings. <i>Physical Review D</i> , 2016 , 93,	4.9	15
43	Investigation of the Young's modulus and thermal expansion of amorphous titania-doped tantalum films. <i>Applied Optics</i> , 2014 , 53, 3196-202	1.7	15
42	Calculation of thermal noise in grating reflectors. <i>Physical Review D</i> , 2013 , 88,	4.9	15
41	Search of the Orion spur for continuous gravitational waves using a loosely coherent algorithm on data from LIGO interferometers. <i>Physical Review D</i> , 2016 , 93,	4.9	14
40	Enhanced characteristics of fused silica fibers using laser polishing. <i>Classical and Quantum Gravity</i> , 2014 , 31, 105006	3.3	14
39	Cryogenic mechanical loss measurements of heat-treated hafnium dioxide. <i>Classical and Quantum Gravity</i> , 2011 , 28, 195017	3.3	12
38	Mirror Coating Solution for the Cryogenic Einstein Telescope. <i>Physical Review Letters</i> , 2019 , 122, 231102	7.4	11
37	Order within disorder: The atomic structure of ion-beam sputtered amorphous tantalum (a-Ta ₂ O ₅). <i>APL Materials</i> , 2015 , 3, 036103	5.7	11
36	Cell interactions at the nanoscale: piezoelectric stimulation. <i>IEEE Transactions on Nanobioscience</i> , 2013 , 12, 247-54	3.4	11
35	Optical absorption of silicon nitride membranes at 1064 nm and at 1550 nm. <i>Physical Review D</i> , 2017 , 96,	4.9	10
34	Mapping the optical absorption of a substrate-transferred crystalline AlGaAs coating at 1.5 μ m. <i>Classical and Quantum Gravity</i> , 2015 , 32, 105008	3.3	9
33	Effect of Stress and Temperature on the Optical Properties of Silicon Nitride Membranes at 1,550 nm. <i>Frontiers in Materials</i> , 2018 , 5,	4	9
32	Quantum correlation measurements in interferometric gravitational-wave detectors. <i>Physical Review A</i> , 2017 , 95,	2.6	9
31	Experimental results for nulling the effective thermal expansion coefficient of fused silica fibres under a static stress. <i>Classical and Quantum Gravity</i> , 2014 , 31, 065010	3.3	9

30	Production of Nanoscale Vibration for Stimulation of Human Mesenchymal Stem Cells. <i>Journal of Biomedical Nanotechnology</i> , 2016 , 12, 1478-88	4	9
29	Order, disorder and mixing: The atomic structure of amorphous mixtures of titania and tantala. <i>Journal of Non-Crystalline Solids</i> , 2016 , 438, 59-66	3.9	8
28	Silicon nitride and silica quarter-wave stacks for low-thermal-noise mirror coatings. <i>Physical Review D</i> , 2018 , 98,	4.9	8
27	Dependence of cryogenic strength of hydroxide catalysis bonded silicon on type of surface oxide. <i>Classical and Quantum Gravity</i> , 2013 , 30, 025003	3.3	7
26	Acoustic losses in a thick quartz plate at low temperatures. <i>Journal of Applied Physics</i> , 2010 , 107, 013504.	2.5	6
25	Cryogenic mechanical loss of a single-crystalline GaP coating layer for precision measurement applications. <i>Physical Review D</i> , 2017 , 95,	4.9	5
24	Bulk and shear mechanical loss of titania-doped tantala. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018 , 382, 2282-2288	2.3	5
23	Investigating the medium range order in amorphous Ta ₂ O ₅ coatings. <i>Journal of Physics: Conference Series</i> , 2014 , 522, 012043	0.3	5
22	Thermal noise from icy mirrors in gravitational wave detectors. <i>Physical Review Research</i> , 2019 , 1,	3.9	5
21	Comparison of Single-Layer and Double-Layer Anti-Reflection Coatings Using Laser-Induced Damage Threshold and Photothermal Common-Path Interferometry. <i>Coatings</i> , 2016 , 6, 20	2.9	5
20	High index top layer for multimaterial coatings. <i>Physical Review D</i> , 2016 , 93,	4.9	4
19	Effects of transients in LIGO suspensions on searches for gravitational waves. <i>Review of Scientific Instruments</i> , 2017 , 88, 124501	1.7	4
18	Low-temperature mechanical dissipation of thermally evaporated indium film for use in interferometric gravitational wave detectors. <i>Classical and Quantum Gravity</i> , 2015 , 32, 115014	3.3	3
17	Demonstration of the Multimaterial Coating Concept to Reduce Thermal Noise in Gravitational-Wave Detectors. <i>Physical Review Letters</i> , 2020 , 125, 011102	7.4	3
16	Anomalous optical surface absorption in nominally pure silicon samples at 1550 nm. <i>Classical and Quantum Gravity</i> , 2017 , 34, 205013	3.3	3
15	Investigating the relationship between material properties and laser-induced damage threshold of dielectric optical coatings at 1064 nm 2015 ,		3
14	The effects of heating on mechanical loss in tantala/silica optical coatings. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 87-90	2.3	3
13	Silica suspension and coating developments for Advanced LIGO. <i>Journal of Physics: Conference Series</i> , 2006 , 32, 386-392	0.3	3

12	Epitaxial integration of monocrystalline III-V coatings on silicon for thermal noise reduction 2013 ,		3
11	Lowest observed surface and weld losses in fused silica fibres for gravitational wave detectors. <i>Classical and Quantum Gravity</i> , 2020 , 37, 195019	3.3	3
10	Concepts and research for future detectors. <i>General Relativity and Gravitation</i> , 2014 , 46, 1	2.3	2
9	Coatings and surface treatments for enhanced performance suspensions for future gravitational wave detectors. <i>Classical and Quantum Gravity</i> , 2017 , 34, 235012	3.3	2
8	Silicate bonding properties: Investigation through thermal conductivity measurements. <i>Journal of Physics: Conference Series</i> , 2010 , 228, 012019	0.3	2
7	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA 2018 , 21, 1		2
6	Argon bubble formation in tantalum oxide-based films for gravitational wave interferometer mirrors. <i>Optical Materials Express</i> , 2021 , 11, 707	2.6	2
5	The mechanical loss of tin (II) oxide thin-film coatings for charge mitigation in future gravitational wave detectors. <i>Classical and Quantum Gravity</i> , 2012 , 29, 035002	3.3	1
4	Mechanical Spectroscopy of Silicon as a Low Loss Material for High Precision Mechanical and Optical Experiments. <i>Solid State Phenomena</i> , 2012 , 184, 443-448	0.4	1
3	Influence of deposition parameters on the optical absorption of amorphous silicon thin films. <i>Physical Review Research</i> , 2020 , 2,	3.9	1
2	Exploration of co-sputtered Ta ₂ O ₅ /ZrO ₂ thin films for gravitational-wave detectors. <i>Classical and Quantum Gravity</i> , 2021 , 38, 195021	3.3	1
1	Time-evolution of NIR absorption in hydroxide-catalysis bonds. <i>Materialia</i> , 2019 , 6, 100331	3.2	0