

James Hough

List of Publications by Year in descending order

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53
papers

2,184
citations

279798

23
h-index

214800

47
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53
docs citations

53
times ranked

1760
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-scale Monolithic Fused-Silica Mirror Suspension for Third-Generation Gravitational-Wave Detectors. <i>Physical Review Applied</i> , 2022, 17, .	3.8	4
2	Demonstration of the Multimaterial Coating Concept to Reduce Thermal Noise in Gravitational-Wave Detectors. <i>Physical Review Letters</i> , 2020, 125, 011102.	7.8	15
3	A cryogenic silicon interferometer for gravitational-wave detection. <i>Classical and Quantum Gravity</i> , 2020, 37, 165003.	4.0	120
4	Lowest observed surface and weld losses in fused silica fibres for gravitational wave detectors. <i>Classical and Quantum Gravity</i> , 2020, 37, 195019.	4.0	9
5	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.	7.8	29
6	Design, construction and characterisation of a novel nanovibrational bioreactor and cultureware for osteogenesis. <i>Scientific Reports</i> , 2019, 9, 12944.	3.3	17
7	Improved fused silica fibres for the advanced LIGO monolithic suspensions. <i>Classical and Quantum Gravity</i> , 2019, 36, 185018.	4.0	6
8	Mirror Coating Solution for the Cryogenic Einstein Telescope. <i>Physical Review Letters</i> , 2019, 122, 231102.	7.8	24
9	Effect of elevated substrate temperature deposition on the mechanical losses in tantalum thin film coatings. <i>Classical and Quantum Gravity</i> , 2018, 35, 075001.	4.0	26
10	Microelectromechanical system gravimeters as a new tool for gravity imaging. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170291.	3.4	11
11	Amorphous Silicon with Extremely Low Absorption: Beating Thermal Noise in Gravitational Astronomy. <i>Physical Review Letters</i> , 2018, 121, 191101.	7.8	40
12	Silicon-Based Optical Mirror Coatings for Ultrahigh Precision Metrology and Sensing. <i>Physical Review Letters</i> , 2018, 120, 263602.	7.8	47
13	Optical absorption of silicon nitride membranes at 1064 nm and at 1550 nm. <i>Physical Review D</i> , 2017, 96, .	4.7	17
14	Field Tests of a Portable MEMS Gravimeter. <i>Sensors</i> , 2017, 17, 2571.	3.8	28
15	Mechanical loss of a hydroxide catalysis bond between sapphire substrates and its effect on the sensitivity of future gravitational wave detectors. <i>Physical Review D</i> , 2016, 94, .	4.7	8
16	Measurement of the Earth tides with a MEMS gravimeter. <i>Nature</i> , 2016, 531, 614-617.	27.8	237
17	Optical absorption of ion-beam sputtered amorphous silicon coatings. <i>Physical Review D</i> , 2016, 93, .	4.7	20
18	Thermal noise reduction and absorption optimization via multimaterial coatings. <i>Physical Review D</i> , 2015, 91, .	4.7	33

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19	Enhanced characteristics of fused silica fibers using laser polishing. <i>Classical and Quantum Gravity</i> , 2014, 31, 105006.	4.0	15
20	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.	4.0	12
21	Concepts and research for future detectors. <i>General Relativity and Gravitation</i> , 2014, 46, 1.	2.0	2
22	Design and development of the advanced LIGO monolithic fused silica suspension. <i>Classical and Quantum Gravity</i> , 2012, 29, 035003.	4.0	88
23	Probing the atomic structure of amorphous Ta ₂ O ₅ coatings. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	50
24	Gravitational Wave Detection by Interferometry (Ground and Space). <i>Living Reviews in Relativity</i> , 2011, 14, 5.	26.7	154
25	Apparatus for dimensional characterization of fused silica fibers for the suspensions of advanced gravitational wave detectors. <i>Review of Scientific Instruments</i> , 2011, 82, 044502.	1.3	12
26	Perspective: Gravitational waves: Invited article: CO ₂ laser production of fused silica fibers for use in interferometric gravitational wave detector mirror suspensions [Rev. Sci. Instrum. 82, 011301 (2011)]. <i>Review of Scientific Instruments</i> , 2011, 82, 010901.	1.3	0
27	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.	1.3	37
28	Finite element modelling of the mechanical loss of silica suspension fibres for advanced gravitational wave detectors. <i>Classical and Quantum Gravity</i> , 2009, 26, 215012.	4.0	32
29	DEVELOPMENTS TOWARD MONOLITHIC SUSPENSIONS FOR ADVANCED GRAVITATIONAL WAVE DETECTORS. , 2008, , .		0
30	Gravitational wave: gamma-ray burst connections. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007, 365, 1335-1342.	3.4	3
31	Titania-doped tantala/silica coatings for gravitational-wave detection. <i>Classical and Quantum Gravity</i> , 2007, 24, 405-415.	4.0	205
32	Thermal noise from optical coatings in gravitational wave detectors. <i>Applied Optics</i> , 2006, 45, 1569.	2.1	111
33	THERMAL NOISE FROM OPTICAL COATINGS. , 2006, , .		0
34	Thermoelastic dissipation in inhomogeneous media: loss measurements and displacement noise in coated test masses for interferometric gravitational wave detectors. <i>Physical Review D</i> , 2004, 70, .	4.7	73
35	Experimental measurements of coating mechanical loss factors. <i>Classical and Quantum Gravity</i> , 2004, 21, S1059-S1065.	4.0	59
36	Thermal noise in interferometric gravitational wave detectors due to dielectric optical coatings. <i>Classical and Quantum Gravity</i> , 2002, 19, 897-917.	4.0	274

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37	An upper limit to the frequency noise associated with the relaxation oscillation of a monolithic Nd:YAG ring laser. <i>Journal of Modern Optics</i> , 2001, 48, 1129-1134.	1.3	0
38	Gravitational Wave Detection by Interferometry (Ground and Space). <i>Living Reviews in Relativity</i> , 2000, 3, 3.	26.7	52
39	The status of GEO600. <i>AIP Conference Proceedings</i> , 2000, , .	0.4	2
40	Suspension design for GEO 600 – an update. <i>AIP Conference Proceedings</i> , 2000, , .	0.4	1
41	Bi-filar pendulum mode Q factor for silicate bonded pendulum. <i>AIP Conference Proceedings</i> , 2000, , .	0.4	3
42	Modeling of multistage pendulums: Triple pendulum suspension for GEO 600. <i>Review of Scientific Instruments</i> , 2000, 71, 2546-2551.	1.3	15
43	GEO 600 triple pendulum suspension system: Seismic isolation and control. <i>Review of Scientific Instruments</i> , 2000, 71, 2539-2545.	1.3	81
44	Very High Q Measurements on a Fused Silica Monolithic Pendulum for Use in Enhanced Gravity Wave Detectors. <i>Physical Review Letters</i> , 2000, 85, 2442-2445.	7.8	51
45	Aspects of the suspension system for GEO 600. <i>Review of Scientific Instruments</i> , 1998, 69, 3055-3061.	1.3	41
46	Laser phase-locking techniques for LISA: Experimental status. <i>AIP Conference Proceedings</i> , 1998, , .	0.4	7
47	Test of an 18 – long suspended mode cleaner cavity. <i>Review of Scientific Instruments</i> , 1996, 67, 2443-2448.	1.3	19
48	Can piezoelectric accelerometers be used to actively damp the mechanical suspensions in laser interferometric gravitational wave detectors. <i>Review of Scientific Instruments</i> , 1996, 67, 633-640.	1.3	9
49	The Glasgow 10 – prototype laser interferometric gravitational wave detector. <i>Review of Scientific Instruments</i> , 1995, 66, 4447-4452.	1.3	48
50	Measurements of beam geometry fluctuations of typical argon and Nd:YAG lasers with relevance to laser interferometer gravitational wave detectors. <i>Review of Scientific Instruments</i> , 1995, 66, 2760-2762.	1.3	6
51	Broadband Intensity Stabilization of a Diode-pumped Monolithic Miniature Nd: YAG Ring Laser. <i>Journal of Modern Optics</i> , 1994, 41, 1263-1269.	1.3	9
52	Experimental demonstration of the use of a Fabry – Perot cavity as a mirror of variable reflectivity. <i>Review of Scientific Instruments</i> , 1994, 65, 799-802.	1.3	8
53	Active control of a balanced two – stage pendulum vibration isolation system and its application to laser interferometric gravity wave detectors. <i>Review of Scientific Instruments</i> , 1993, 64, 1330-1336.	1.3	14