

Daniel A Shaddock

List of Publications by Year in descending order

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102
papers

2,801
citations

201674

27
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182427

51
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102
all docs

102
docs citations

102
times ranked

2140
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser interferometry for the Big Bang Observer. <i>Classical and Quantum Gravity</i> , 2006, 23, 4887-4894.	4.0	253
2	Intersatellite laser ranging instrument for the GRACE follow-on mission. <i>Journal of Geodesy</i> , 2012, 86, 1083-1095.	3.6	232
3	Experimental Demonstration of a Squeezing-Enhanced Power-Recycled Michelson Interferometer for Gravitational Wave Detection. <i>Physical Review Letters</i> , 2002, 88, 231102.	7.8	181
4	In-Orbit Performance of the GRACE Follow-on Laser Ranging Interferometer. <i>Physical Review Letters</i> , 2019, 123, 031101.	7.8	161
5	Search for gravitational waves from compact binary coalescence in LIGO and Virgo data from S5 and VSR1. <i>Physical Review D</i> , 2010, 82, .	4.7	111
6	FIRST SEARCH FOR GRAVITATIONAL WAVES FROM THE YOUNGEST KNOWN NEUTRON STAR. <i>Astrophysical Journal</i> , 2010, 722, 1504-1513.	4.5	104
7	Data combinations accounting for LISA spacecraft motion. <i>Physical Review D</i> , 2003, 68, .	4.7	96
8	Directional Limits on Persistent Gravitational Waves Using LIGO S5 Science Data. <i>Physical Review Letters</i> , 2011, 107, 271102.	7.8	94
9	Digitally enhanced heterodyne interferometry. <i>Optics Letters</i> , 2007, 32, 3355.	3.3	76
10	Implementation of time-delay interferometry for LISA. <i>Physical Review D</i> , 2003, 67, .	4.7	70
11	All-sky search for periodic gravitational waves in the full S5 LIGO data. <i>Physical Review D</i> , 2012, 85, .	4.7	66
12	Experimental Demonstration of Time-Delay Interferometry for the Laser Interferometer Space Antenna. <i>Physical Review Letters</i> , 2010, 104, 211103.	7.8	65
13	Laser frequency stabilization by locking to a LISA arm. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 320, 9-21.	2.1	59
14	Photodetector designs for low-noise, broadband, and high-power applications. <i>Review of Scientific Instruments</i> , 1998, 69, 3755-3762.	1.3	54
15	High-resolution absolute frequency referenced fiber optic sensor for quasi-static strain sensing. <i>Applied Optics</i> , 2010, 49, 4029.	2.1	52
16	Sensing and control in dual-recycling laser interferometer gravitational-wave detectors. <i>Applied Optics</i> , 2003, 42, 1244.	2.1	47
17	Picometer level displacement metrology with digitally enhanced heterodyne interferometry. <i>Optics Express</i> , 2009, 17, 828.	3.4	46
18	Backscatter tolerant squeezed light source for advanced gravitational-wave detectors. <i>Optics Letters</i> , 2011, 36, 4680.	3.3	46

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19	Operating LISA as a Sagnac interferometer. <i>Physical Review D</i> , 2004, 69, .	4.7	43
20	Space-based gravitational wave detection with LISA. <i>Classical and Quantum Gravity</i> , 2008, 25, 114012.	4.0	40
21	Laser ranging and communications for LISA. <i>Optics Express</i> , 2010, 18, 20759.	3.4	38
22	Subpicometer length measurement using heterodyne laser interferometry and all-digital rf phase meters. <i>Optics Letters</i> , 2010, 35, 4202.	3.3	36
23	Laser link acquisition demonstration for the GRACE Follow-On mission. <i>Optics Express</i> , 2014, 22, 11351.	3.4	35
24	Pico-strain multiplexed fiber optic sensor array operating down to infra-sonic frequencies. <i>Optics Express</i> , 2009, 17, 11077.	3.4	34
25	Suppression of classic and quantum radiation pressure noise by electro-optic feedback. <i>Optics Letters</i> , 1999, 24, 259.	3.3	32
26	Arm-length stabilisation for interferometric gravitational-wave detectors using frequency-doubled auxiliary lasers. <i>Optics Express</i> , 2012, 20, 81.	3.4	29
27	Observation of Squeezed Light in the $2\hat{m}^2$ Region. <i>Physical Review Letters</i> , 2018, 120, 203603.	7.8	29
28	High power compatible internally sensed optical phased array. <i>Optics Express</i> , 2016, 24, 13467.	3.4	28
29	Digitally enhanced homodyne interferometry. <i>Optics Express</i> , 2012, 20, 22195.	3.4	27
30	Weak-light phase tracking with a low cycle slip rate. <i>Optics Letters</i> , 2014, 39, 5251.	3.3	27
31	Fast beam steering with an optical phased array. <i>Optics Letters</i> , 2020, 45, 3793.	3.3	27
32	Performance of arm locking in LISA. <i>Physical Review D</i> , 2009, 80, .	4.7	26
33	Critical coupling control of a microresonator by laser amplitude modulation. <i>Optics Express</i> , 2012, 20, 12622.	3.4	23
34	All-Digital Radio-Frequency Signal Distribution Via Optical Fibers. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 1015-1017.	2.5	22
35	Mitigation of phase noise and Doppler-induced frequency offsets in coherent random amplitude modulated continuous-wave LiDAR. <i>Optics Express</i> , 2021, 29, 9060.	3.4	22
36	Laser frequency stabilization by dual arm locking for LISA. <i>Physical Review D</i> , 2008, 78, .	4.7	21

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37	Laser frequency noise immunity in multiplexed displacement sensing. <i>Optics Letters</i> , 2011, 36, 672.	3.3	20
38	Crosstalk reduction for multi-channel optical phase metrology. <i>Optics Express</i> , 2020, 28, 10400.	3.4	19
39	Digital Laser Frequency Stabilization Using an Optical Cavity. <i>IEEE Journal of Quantum Electronics</i> , 2010, 46, 1178-1183.	1.9	18
40	A squeezed light source operated under high vacuum. <i>Scientific Reports</i> , 2016, 5, 18052.	3.3	18
41	Frequency stabilization for space-based missions using optical fiber interferometry. <i>Optics Letters</i> , 2013, 38, 278.	3.3	17
42	Experimental demonstration of resonant sideband extraction in a Sagnac interferometer. <i>Applied Optics</i> , 1998, 37, 7995.	2.1	16
43	Linearization and minimization of cyclic error with heterodyne laser interferometry. <i>Optics Letters</i> , 2012, 37, 2448.	3.3	15
44	Electro-optic modulator capable of generating simultaneous amplitude and phase modulations. <i>Applied Optics</i> , 2004, 43, 5079.	2.1	13
45	Progress in interferometry for LISA at JPL. <i>Classical and Quantum Gravity</i> , 2011, 28, 094007.	4.0	13
46	Polarization speed meter for gravitational-wave detection. <i>Physical Review D</i> , 2012, 86, .	4.7	13
47	Internally sensed optical phased array. <i>Optics Letters</i> , 2013, 38, 1137.	3.3	13
48	Highspeed multiplexed heterodyne interferometry. <i>Optics Express</i> , 2014, 22, 24689.	3.4	13
49	Power-recycled Michelson interferometer with resonant sideband extraction. <i>Applied Optics</i> , 2003, 42, 1283.	2.1	12
50	Coherent range-gated laser displacement metrology with compact optical head. <i>Optics Letters</i> , 2007, 32, 2933.	3.3	12
51	Subfrequency noise signal extraction in fiber-optic strain sensors using postprocessing. <i>Optics Letters</i> , 2012, 37, 2169.	3.3	12
52	Digitally enhanced optical fiber frequency reference. <i>Optics Letters</i> , 2014, 39, 1752.	3.3	12
53	Suppressing Rayleigh backscatter and code noise from all-fiber digital interferometers. <i>Optics Letters</i> , 2016, 41, 84.	3.3	12
54	Variable reflectivity signal mirrors and signal response measurements. <i>Classical and Quantum Gravity</i> , 2002, 19, 1561-1568.	4.0	11

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55	Optical vortex beams with controllable orbital angular momentum using an optical phased array. <i>OSA Continuum</i> , 2020, 3, 3399.	1.8	11
56	Clock Noise Removal in LISA. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	10
57	Stable transfer of an optical frequency standard via a 46 km optical fiber. <i>Optics Express</i> , 2010, 18, 5213.	3.4	10
58	Coherent beam combining using a 2D internally sensed optical phased array. <i>Applied Optics</i> , 2014, 53, 4881.	1.8	10
59	Tone-assisted time delay interferometry on GRACE Follow-On. <i>Physical Review D</i> , 2015, 92, .	4.7	10
60	Absolute frequency readout derived from ULE cavity for next generation geodesy missions. <i>Optics Express</i> , 2021, 29, 26014.	3.4	10
61	Enhanced frequency noise suppression for LISA by combining cavity and arm locking control systems. <i>Physical Review D</i> , 2022, 105, .	4.7	10
62	Optical-Fiber Accelerometer Array: Nano-g Infrasonic Operation in a Passive 100 km Loop. <i>IEEE Sensors Journal</i> , 2010, 10, 1117-1124.	4.7	9
63	Retroreflector for GRACE follow-on: Vertex vs point of minimal coupling. <i>Optics Express</i> , 2014, 22, 9324.	3.4	9
64	Homodyne digital interferometry for a sensitive fiber frequency reference. <i>Optics Express</i> , 2014, 22, 18168.	3.4	9
65	Improved optical ranging for space based gravitational wave detection. <i>Classical and Quantum Gravity</i> , 2013, 30, 075008.	4.0	8
66	Measuring coalignment of retroreflectors with large lateral incoming-outgoing beam offset. <i>Review of Scientific Instruments</i> , 2014, 85, 035103.	1.3	8
67	Double pass locking and spatial mode locking for gravitational wave detectors. <i>Classical and Quantum Gravity</i> , 2002, 19, 1819-1824.	4.0	7
68	An Overview of the Laser Interferometer Space Antenna. <i>Publications of the Astronomical Society of Australia</i> , 2009, 26, 128-132.	3.4	7
69	Control and tuning of a suspended Fabry-Pérot cavity using digitally enhanced heterodyne interferometry. <i>Optics Letters</i> , 2012, 37, 4952.	3.3	7
70	Interferometric wavefront sensing with a single diode using spatial light modulation. <i>Applied Optics</i> , 2017, 56, 2353.	2.1	7
71	Experimental demonstration of variable-reflectivity signal recycling for interferometric gravitational-wave detectors. <i>Optics Letters</i> , 2002, 27, 1507.	3.3	6
72	Coherent Beam Combining Using an Internally Sensed Optical Phased Array of Frequency-Offset Phase Locked Lasers. <i>Photonics</i> , 2020, 7, 118.	2.0	6

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73	Optical cavity enhanced real-time absorption spectroscopy of CO ₂ using laser amplitude modulation. Applied Physics Letters, 2014, 105, 053505.	3.3	5
74	Frequency dependence of thermal noise in gram-scale cantilever flexures. Physical Review D, 2015, 92, .	4.7	5
75	Multi-link laser interferometry architecture for interspacecraft displacement metrology. Journal of Geodesy, 2018, 92, 241-251.	3.6	5
76	Path length modulation technique for scatter noise immunity in squeezing measurements. Optics Letters, 2013, 38, 2265.	3.3	4
77	QUANTUM SQUEEZING IN ADVANCED GRAVITATIONAL WAVE DETECTORS. International Journal of Modern Physics D, 2011, 20, 2043-2049.	2.1	3
78	Multiplexed fiber optic acoustic sensors in a 120 km loop using RF modulation. Proceedings of SPIE, 2007, , .	0.8	2
79	Passive nano-g fiber-accelerometer array over 100 km. Proceedings of SPIE, 2009, , .	0.8	2
80	Traceable nanoscale length metrology using a metrological Scanning Probe Microscope. Proceedings of SPIE, 2010, , .	0.8	2
81	Automatic mode-matching of a Fabry-Pérot cavity with a single photodiode and spatial light modulation. Journal of Optics (United Kingdom), 2020, 22, 105605.	2.2	2
82	Matched template analysis of continuous wave laser for space debris ranging application. Advances in Space Research, 2022, 70, 1979-1987.	2.6	2
83	Bench-top interferometric test bed for LISA. , 2003, 4856, 78.		1
84	Multiplexed fiber optic sensor array for geophysical survey. Proceedings of SPIE, 2008, , .	0.8	1
85	Algebraic cancellation of polarisation noise in fibre interferometers. Optics Express, 2016, 24, 10486.	3.4	1
86	A Comparison Between Digital and Analog Pound-Drever-Hall Laser Stabilization. , 2009, , .		1
87	LISA laser noise cancellation test using time-delayed interferometry. , 2003, , .		0
88	The Big Bang Observer: High Laser Power for Gravitational Wave Astrophysics. , 2007, , .		0
89	Range-gated metrology: an ultra-compact sensor for dimensional stabilization. , 2008, , .		0
90	Fiber optic strain sensing using an absolute frequency reference. , 2010, , .		0

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91	Digital enhanced homodyne interferometry for high precision metrology. , 2011, , .		0
92	An optical fibre-based frequency dissemination network for Australia. , 2011, , .		0
93	Precision length measurement using an all-digital phasemeter for heterodyne laser interferometry. , 2011, , .		0
94	An optical fiber-based system for high-stability distribution of reference radio-frequencies. , 2011, , .		0
95	Multiplexed interferometric displacement sensing below the laser frequency noise limit. , 2011, , .		0
96	Quasi-static strain sensing using molecular spectroscopy. Proceedings of SPIE, 2011, , .	0.8	0
97	A passive frequency noise insensitive fiber strain sensor using post processing. Proceedings of SPIE, 2012, , .	0.8	0
98	A digital phasemeter for precision length measurements. , 2012, , .		0
99	An Optical Fiber Interferometer as a Frequency Reference for Space-based Laser Ranging. , 2013, , .		0
100	An all optical fiber frequency reference using digital interferometry. , 2014, , .		0
101	Towards solid-state beam steering using a 7-emitter 1550 nm optical phased array. , 2019, , .		0
102	Improved cross-talk suppression for digitally enhanced interferometry using Golay complementary pairs. Optics Letters, 2022, 47, 1570.	3.3	0