Riccardo DeSalvo

List of Publications by Year
in descending order

32	15,515	331670 21	414414 32
papers	citations	h-index	g-index

32	32	32	12989
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Observation of Gravitational Waves from a Binary Black Hole Merger. Physical Review Letters, 2016, 116, 061102.	7.8	8,753
2	Advanced LIGO. Classical and Quantum Gravity, 2015, 32, 074001.	4.0	1,929
3	Tests of General Relativity with GW150914. Physical Review Letters, 2016, 116, 221101.	7.8	1,224
4	Characterization of the LIGO detectors during their sixth science run. Classical and Quantum Gravity, 2015, 32, 115012.	4.0	1,029
5	LIGO: the Laser Interferometer Gravitational-Wave Observatory. Reports on Progress in Physics, 2009, 72, 076901.	20.1	971
6	An upper limit on the stochastic gravitational-wave background of cosmological origin. Nature, 2009, 460, 990-994.	27.8	303
7	Virgo: a laser interferometer to detect gravitational waves. Journal of Instrumentation, 2012, 7, P03012-P03012.	1.2	257
8	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. Classical and Quantum Gravity, 2016, 33, 134001.	4.0	225
9	A xylophone configuration for a third-generation gravitational wave detector. Classical and Quantum Gravity, 2010, 27, 015003.	4.0	141
10	GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. Astrophysical Journal, 2014, 785, 119.	4.5	125
11	Construction of KAGRA: an underground gravitational-wave observatory. Progress of Theoretical and Experimental Physics, 2018, 2018, .	6.6	73
12	Mechanical design of a single-axis monolithic accelerometer for advanced seismic attenuation systems. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 556, 616-623.	1.6	59
13	Monolithic geometric anti-spring blades. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 540, 502-519.	1.6	55
14	Measurement of thermal noise in multilayer coatings with optimized layer thickness. Physical Review D, 2010, 81, .	4.7	55
15	Lunar Gravitational-wave Antenna. Astrophysical Journal, 2021, 910, 1.	4.5	41
16	Thickness-dependent crystallization on thermal anneal for titania/silica nm-layer composites deposited by ion beam sputter method. Optics Express, 2014, 22, 29847.	3.4	36
17	Anatomy of the TAMA SAS seismic attenuation system. Classical and Quantum Gravity, 2002, 19, 1605-1614.	4.0	35
18	Generation of a flat-top laser beam for gravitational wave detectors by means of a nonspherical Fabry-Perot resonator. Applied Optics, 2007, 46, 6648.	2.1	35

#	Article	IF	Citations
19	Site-selection criteria for the Einstein Telescope. Review of Scientific Instruments, 2020, 91, 094504.	1.3	32
20	Characterization of the seismic environment at the Sanford Underground Laboratory, South Dakota. Classical and Quantum Gravity, 2010, 27, 225011.	4.0	26
21	Material loss angles from direct measurements of broadband thermal noise. Physical Review D, 2015, 91, .	4.7	24
22	Emergence and Evolution of Crystallization in TiO2 Thin Films: A Structural and Morphological Study. Nanomaterials, 2021, 11, 1409.	4.1	20
23	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, .	6.6	20
24	Study of quality factor and hysteresis associated with the state-of-the-art passive seismic isolation system for Gravitational Wave Interferometric Detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 538, 526-537.	1.6	14
25	Extended-time-scale creep measurement on Maraging cantilever blade springs. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 593, 597-607.	1.6	8
26	The role of Self-Organized Criticality in elasticity of metallic springs: Observations of a new dissipation regime. European Physical Journal Plus, 2011, 126, 1.	2.6	8
27	Optical scattering measurements and implications on thermal noise in Gravitational Wave detectors test-mass coatings. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2259-2264.	2.1	6
28	Crystallization in Zirconia Film Nano-Layered with Silica. Nanomaterials, 2021, 11, 3444.	4.1	4
29	Unaccounted source of systematic errors in measurements of the Newtonian gravitational constant G. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 1202-1205.	2.1	3
30	A Multi-Step Approach to Assessing LIGO Test Mass Coatings. Journal of Physics: Conference Series, 2018, 957, 012010.	0.4	2
31	Stepped beam pipes and helical baffles for scattered light absorption in future gravitational wave detectors. Review of Scientific Instruments, 2020, 91, 054505.	1.3	1
32	Angled beam expander telescopes for the Michelson beams in third generation gravitational wave observatories. Classical and Quantum Gravity, 2022, 39, 045008.	4.0	1