

Vincent Dolique

List of Publications by Year in Descending Order

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Version: 2024-04-09

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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.

48 papers	12,795 citations	32 h-index	50 g-index
50 ext. papers	15,016 ext. citations	6.3 avg, IF	3.98 L-index

#	Paper	IF	Citations
48	High-speed imaging of magnetized plasmas: When electron temperature matters. <i>Physics of Plasmas</i> , 2022 , 29, 032104	2.1	2
47	Suppression of Surface-Related Loss in a Gated Semiconductor Microcavity. <i>Physical Review Applied</i> , 2021 , 15,	4.3	4
46	Thermal noise of a cryocooled silicon cantilever locally heated up to its melting point. <i>Physical Review E</i> , 2021 , 103, 062125	2.4	1
45	Optical properties of high-quality oxide coating materials used in gravitational-wave advanced detectors. <i>JPhys Materials</i> , 2019 , 2, 035004	4.2	9
44	Hydrodynamics control shear-induced pattern formation in attractive suspensions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 12193-12198	11.5	31
43	Large and extremely low loss: the unique challenges of gravitational wave mirrors. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2019 , 36, C85-C94	1.8	16
42	A gated quantum dot strongly coupled to an optical microcavity. <i>Nature</i> , 2019 , 575, 622-627	50.4	81
41	Correlated evolution of structure and mechanical loss of a sputtered silica film. <i>Physical Review Materials</i> , 2018 , 2,	3.2	14
40	High-Reflection Coatings for Gravitational-Wave Detectors: State of The Art and Future Developments. <i>Journal of Physics: Conference Series</i> , 2018 , 957, 012006	0.3	19
39	Search for Subsolar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2018 , 121, 231103	7.4	49
38	GW170817: Measurements of Neutron Star Radii and Equation of State. <i>Physical Review Letters</i> , 2018 , 121, 161101	7.4	867
37	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
36	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. <i>Physical Review Letters</i> , 2018 , 120, 201102	7.4	60
35	Effects of waveform model systematics on the interpretation of GW150914. <i>Classical and Quantum Gravity</i> , 2017 , 34, 104002	3.3	74
34	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
33	Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017 , 118, 121102	7.4	65
32	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. <i>Astrophysical Journal</i> , 2017 , 839, 12	4.7	107

31	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , 2017 , 529, 1600209	2.6	45
30	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
29	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
28	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
27	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
26	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
25	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 850, L39	7.9	127
24	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
23	On the Progenitor of Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 850, L40	7.9	50
22	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. <i>Astrophysical Journal Letters</i> , 2017 , 851, L35	7.9	809
21	LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 826, L13	7.9	183
20	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
19	Mechanical loss in state-of-the-art amorphous optical coatings. <i>Physical Review D</i> , 2016 , 93,	4.9	54
18	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. <i>Physical Review Letters</i> , 2016 , 116, 131102	7.4	188
17	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. <i>Physical Review Letters</i> , 2016 , 116, 131103	7.4	328
16	Tests of General Relativity with GW150914. <i>Physical Review Letters</i> , 2016 , 116, 221101	7.4	837
15	Properties of the Binary Black Hole Merger GW150914. <i>Physical Review Letters</i> , 2016 , 116, 241102	7.4	515
14	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

13	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 818, L22	7.9	512
12	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
11	A new method of probing mechanical losses of coatings at cryogenic temperatures. <i>Review of Scientific Instruments</i> , 2016 , 87, 123906	1.7	2
10	2D photonic-crystal optomechanical nanoresonator. <i>Optics Letters</i> , 2015 , 40, 174-7	3	15
9	SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. <i>Astrophysical Journal</i> , 2015 , 813, 39	4.7	58
8	About the key factors driving the resistivity of AuOx thin films grown by reactive magnetron sputtering. <i>Applied Surface Science</i> , 2014 , 295, 194-197	6.7	13
7	Measurements of mechanical thermal noise and energy dissipation in optical dielectric coatings. <i>Physical Review D</i> , 2014 , 89,	4.9	19
6	IR emission from the target during plasma magnetron sputter deposition. <i>Thin Solid Films</i> , 2013 , 545, 44-49	2.2	30
5	Energy transferred to the substrate surface during reactive magnetron sputtering of aluminum in Ar/O2 atmosphere. <i>Thin Solid Films</i> , 2013 , 539, 88-95	2.2	15
4	High-Entropy Alloys Deposited by Magnetron Sputtering. <i>IEEE Transactions on Plasma Science</i> , 2011 , 39, 2478-2479	1.3	19
3	Ni-YSZ films deposited by reactive magnetron sputtering for SOFC applications. <i>Surface and Coatings Technology</i> , 2010 , 204, 2376-2380	4.4	26
2	Thermal stability of AlCoCrCuFeNi high entropy alloy thin films studied by in-situ XRD analysis. <i>Surface and Coatings Technology</i> , 2010 , 204, 1989-1992	4.4	104
1	Complex structure/composition relationship in thin films of AlCoCrCuFeNi high entropy alloy. <i>Materials Chemistry and Physics</i> , 2009 , 117, 142-147	4.4	97