

Vincenzo Pierro

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133
papers

13,486
citations

46
h-index

116
g-index

145
ext. papers

16,118
ext. citations

5.2
avg. IF

4.35
L-index

#	Paper	IF	Citations
133	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
132	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
131	GW170817: Measurements of Neutron Star Radii and Equation of State. <i>Physical Review Letters</i> , 2018 , 121, 161101	7.4	867
130	Tests of General Relativity with GW150914. <i>Physical Review Letters</i> , 2016 , 116, 221101	7.4	837
129	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. <i>Astrophysical Journal Letters</i> , 2017 , 851, L35	7.9	809
128	Characterization of the LIGO detectors during their sixth science run. <i>Classical and Quantum Gravity</i> , 2015 , 32, 115012	3.3	790
127	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
126	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
125	Properties of the Binary Black Hole Merger GW150914. <i>Physical Review Letters</i> , 2016 , 116, 241102	7.4	515
124	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 818, L22	7.9	512
123	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
122	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. <i>Physical Review Letters</i> , 2016 , 116, 131103	7.4	328
121	An upper limit on the stochastic gravitational-wave background of cosmological origin. <i>Nature</i> , 2009 , 460, 990-4	50.4	267
120	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
119	Sensitivity of the Advanced LIGO detectors at the beginning of gravitational wave astronomy. <i>Physical Review D</i> , 2016 , 93,	4.9	208
118	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. <i>Physical Review Letters</i> , 2016 , 116, 131102	7.4	188
117	LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. <i>Astrophysical Journal Letters</i> , 2016 , 826, L13	7.9	183

116	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , 2016 , 33,	3-3	155
115	SEARCHES FOR GRAVITATIONAL WAVES FROM KNOWN PULSARS WITH SCIENCE RUN 5 LIGO DATA. <i>Astrophysical Journal</i> , 2010 , 713, 671-685	4-7	140
114	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
113	Increasing the Astrophysical Reach of the Advanced Virgo Detector via the Application of Squeezed Vacuum States of Light. <i>Physical Review Letters</i> , 2019 , 123, 231108	7-4	134
112	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
111	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
110	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017 , 850, L39	7-9	127
109	Implications for the Origin of GRB 070201 from LIGO Observations. <i>Astrophysical Journal</i> , 2008 , 681, 1419-1430	4-7	126
108	GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. <i>Astrophysical Journal</i> , 2014 , 785, 119	4-7	109
107	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. <i>Astrophysical Journal</i> , 2017 , 839, 12	4-7	107
106	Band gap formation and multiple scattering in photonic quasicrystals with a Penrose-type lattice. <i>Physical Review Letters</i> , 2005 , 94, 183903	7-4	84
105	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
104	Evaluation of stochastic-resonance-based detectors of weak harmonic signals in additive white Gaussian noise. <i>Physical Review E</i> , 1998 , 57, 6470-6479	2-4	76
103	Effects of waveform model systematics on the interpretation of GW150914. <i>Classical and Quantum Gravity</i> , 2017 , 34, 104002	3-3	74
102	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
101	Search for gravitational-wave bursts in LIGO data from the fourth science run. <i>Classical and Quantum Gravity</i> , 2007 , 24, 5343-5369	3-3	70
100	Search for Substellar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. <i>Physical Review Letters</i> , 2019 , 123, 161102	7-4	68
99	Directional Limits on Persistent Gravitational Waves from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017 , 118, 121102	7-4	65

98	Radiation properties of planar antenna arrays based on certain categories of aperiodic tilings. <i>IEEE Transactions on Antennas and Propagation</i> , 2005 , 53, 635-644	4.9	63
97	Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal</i> , 2019 , 875, 160	4.7	60
96	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. <i>Physical Review Letters</i> , 2018 , 120, 201102	7.4	60
95	Constraints on cosmic strings from the LIGO-Virgo gravitational-wave detectors. <i>Physical Review Letters</i> , 2014 , 112, 131101	7.4	59
94	The characterization of Virgo data and its impact on gravitational-wave searches. <i>Classical and Quantum Gravity</i> , 2012 , 29, 155002	3.3	59
93	Improving astrophysical parameter estimation via offline noise subtraction for Advanced LIGO. <i>Physical Review D</i> , 2019 , 99,	4.9	58
92	SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. <i>Astrophysical Journal</i> , 2015 , 813, 39	4.7	58
91	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
90	Anomalous transport effects on switching currents of graphene-based Josephson junctions. <i>Nanotechnology</i> , 2017 , 28, 134001	3.4	53
89	FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. <i>Astrophysical Journal, Supplement Series</i> , 2014 , 211, 7	8	51
88	Search for Subsolar-Mass Ultracompact Binaries in Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2018 , 121, 231103	7.4	49
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	Localized modes in photonic quasicrystals with Penrose-type lattice. <i>Optics Express</i> , 2006 , 14, 10021-7	3.3	45
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	STACKED SEARCH FOR GRAVITATIONAL WAVES FROM THE 2006 SGR 1900+14 STORM. <i>Astrophysical Journal</i> , 2009 , 701, L68-L74	4.7	40
82	Characterization of escape times of Josephson junctions for signal detection. <i>Physical Review E</i> , 2012 , 85, 016708	2.4	37
81	Fast and accurate computational tools for gravitational waveforms from binary stars with any orbital eccentricity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2001 , 325, 358-372	4.3	36

80	Josephson-based Threshold Detector for Low-Distributed Current Fluctuations. <i>Physical Review Applied</i> , 2019 , 11,	4.3	35
79	Measurement of thermal noise in multilayer coatings with optimized layer thickness. <i>Physical Review D</i> , 2010 , 81,	4.9	35
78	Evidence of local effects in anomalous refraction and focusing properties of dodecagonal photonic quasicrystals. <i>Physical Review B</i> , 2008 , 77,	3.3	30
77	Detection of noise-corrupted sinusoidal signals with Josephson junctions. <i>Physical Review E</i> , 2010 , 82, 046712	2.4	25
76	Electromagnetic chaos in mode-stirred reverberation enclosures. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 1998 , 40, 185-192	2	22
75	Material loss angles from direct measurements of broadband thermal noise. <i>Physical Review D</i> , 2015 , 91,	4.9	21
74	IR temperature measurements in microwave heating. <i>Infrared Physics and Technology</i> , 2002 , 43, 145-150	2.7	19
73	First Demonstration of Electrostatic Damping of Parametric Instability at Advanced LIGO. <i>Physical Review Letters</i> , 2017 , 118, 151102	7.4	18
72	Mode confinement in photonic quasicrystal point-defect cavities for particle accelerators. <i>Applied Physics Letters</i> , 2008 , 93, 164102	3.4	18
71	Optimized multilayer dielectric mirror coatings for gravitational wave interferometers 2006 ,		17
70	NEURAL NETWORK AIDED GLITCH-BURST DISCRIMINATION AND GLITCH CLASSIFICATION. <i>International Journal of Modern Physics C</i> , 2013 , 24, 1350084	1.1	16
69	Directive emission from defect-free dodecagonal photonic quasicrystals: A leaky wave characterization. <i>Physical Review B</i> , 2009 , 79,	3.3	16
68	A Thermal Model for Pulsed EM Field Exposure Effects in Cells at Nonthermal Levels. <i>IEEE Transactions on Plasma Science</i> , 2010 , 38, 149-155	1.3	16
67	A Comparative Study of Representative Categories of EBG Dielectric Quasi-Crystals. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2006 , 5, 331-334	3.8	16
66	Interplay between detection strategies and stochastic resonance properties. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016 , 30, 15-31	3.7	14
65	A parametric study of the lensing properties of dodecagonal photonic quasicrystals. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2008 , 6, 60-68	2.6	14
64	Stochastic first passage time accelerated with CUDA. <i>Journal of Computational Physics</i> , 2018 , 361, 136-149	4.1	9
63	Quantum correlation measurements in interferometric gravitational-wave detectors. <i>Physical Review A</i> , 2017 , 95,	2.6	9

62	Exact solution of Peters-Mathews equations for any orbital eccentricity. <i>Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods</i> , 1996 , 111, 631-644		9
61	Voltage drop across Josephson junctions for L ₀ noise detection. <i>Physical Review Research</i> , 2020 , 2,	3.9	9
60	Fabry-Perot filters with tunable Josephson junction defects. <i>Physica C: Superconductivity and Its Applications</i> , 2015 , 517, 37-40	1.3	8
59	Escape time characterization of pendular Fabry-Perot. <i>Europhysics Letters</i> , 2013 , 101, 20005	1.6	8
58	Parameterizing quasi-periodicity: generalized Poisson summation and its application to modified-Fibonacci antenna arrays. <i>IEEE Transactions on Antennas and Propagation</i> , 2005 , 53, 2044-2053	4.9	8
57	Analytic structure of a family of hyperboloidal beams of potential interest for advanced LIGO. <i>Physical Review D</i> , 2006 , 73,	4.9	8
56	Gravitational wave chirp search: Economization of post-Newtonian matched filter bank via cardinal interpolation. <i>Physical Review D</i> , 2000 , 62,	4.9	8
55	Nearly minimum redundant correlator interpolation formula for gravitational wave chirp detection. <i>Physical Review D</i> , 2000 , 62,	4.9	8
54	Detection of signals in presence of noise through Josephson junction switching currents. <i>Physical Review E</i> , 2020 , 101, 052205	2.4	7
53	Computation of hypergeometric functions for gravitationally radiating binary stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002 , 334, 855-858	4.3	7
52	Efficient Faulty Element Diagnostics of Large Antenna Arrays by Discrete Mean Field Neural Nets. <i>Progress in Electromagnetics Research</i> , 2000 , 25, 53-76	3.8	7
51	. <i>IEEE Transactions on Plasma Science</i> , 2014 , 42, 2236-2244	1.3	6
50	A procedure to measure electromagnetic skin depth in microwave heating. <i>Infrared Physics and Technology</i> , 2004 , 46, 49-55	2.7	6
49	. <i>IEEE Transactions on Antennas and Propagation</i> , 2005 , 53, 753-765	4.9	6
48	Optimum placement of post-1PN gravitational wave chirp templates made simple at any match level via Tanaka-Tagoshi coordinates. <i>Physical Review D</i> , 2002 , 65,	4.9	6
47	Analysis of Josephson junctions switching time distributions for the detection of single microwave photons. <i>Chaos, Solitons and Fractals</i> , 2021 , 142, 110496	9.3	6
46	On the performance limits of coatings for gravitational wave detectors made of alternating layers of two materials. <i>Optical Materials</i> , 2019 , 96, 109269	3.3	5
45	Cut-off Frequency and Dominant Eigenfunction Computation in Complex Dielectric Geometries via Donsker-Kal[Formula and Monte Carlo Method. <i>Electromagnetics</i> , 1997 , 17, 1-14	0.8	5

44	Genetically Optimized Metasurface Pairs for Wideband Out-of-Phase Mutual Response. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2008 , 7, 788-791	3.8	5
43	Radiation properties of one-dimensional random-like antenna arrays based on Rudin-Shapiro sequences. <i>IEEE Transactions on Antennas and Propagation</i> , 2005 , 53, 3568-3575	4.9	5
42	Tanaka-Tagoshi parametrization of post-first-post-Newtonian spin-free gravitational wave chirps: Equispaced and cardinal interpolated lattices for first generation interferometric antennas. <i>Physical Review D</i> , 2001 , 64,	4.9	5
41	Gravitational-wave chirps: accumulating phase errors due to residual orbital eccentricity. <i>Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods</i> , 1996 , 111, 1517-1525		5
40	Radiation-pressure induced chaos in multipendular Fabry-Perot resonators. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1994 , 185, 14-20	2.3	5
39	Negative Differential Resistance due to Nonlinearities in Single and Stacked Josephson Junctions. <i>IEEE Transactions on Applied Superconductivity</i> , 2014 , 24, 1-7	1.8	4
38	Effects of transients in LIGO suspensions on searches for gravitational waves. <i>Review of Scientific Instruments</i> , 2017 , 88, 124501	1.7	4
37	Correlator bank detection of gravitational wave chirps—False-alarm probability, template density, and thresholds: Behind and beyond the minimal-match issue. <i>Physical Review D</i> , 2004 , 70,	4.9	4
36	Rejection properties of stochastic-resonance-based detectors of weak harmonic signals. <i>Physical Review E</i> , 2004 , 69, 062104	2.4	4
35	Single-mode optical fibers using Pade approximants 1998 , 8, 305-307		4
34	Steady State Population Statistics of Compact Binary Stars. <i>Astrophysical Journal</i> , 1996 , 469, 272	4.7	4
33	Emergence and Evolution of Crystallization in TiO Thin Films: A Structural and Morphological Study. <i>Nanomaterials</i> , 2021 , 11,	5.4	4
32	Nonideal quantum measurement effects on the switching-current distribution of Josephson junctions. <i>Physical Review A</i> , 2016 , 94,	2.6	3
31	Sequential nonideal measurements of quantum oscillators: Statistical characterization with and without environmental coupling. <i>Physical Review A</i> , 2015 , 92,	2.6	3
30	Blind source separation and Wigner-Ville transform as tools for the extraction of the gravitational wave signal. <i>Physical Review D</i> , 2011 , 83,	4.9	3
29	Metamaterial inclusions based on grid-graph Hamiltonian paths. <i>Microwave and Optical Technology Letters</i> , 2006 , 48, 2520-2524	1.2	3
28	Radiation from Fibonacci-type Quasiperiodic Arrays on Dielectric Substrates. <i>Journal of Electromagnetic Waves and Applications</i> , 2007 , 21, 1231-1245	1.3	3
27	Perspectives on beam-shaping optimization for thermal-noise reduction in advanced gravitational-wave interferometric detectors: Bounds, profiles, and critical parameters. <i>Physical Review D</i> , 2007 , 76,	4.9	3

26	Gravitational wave chirp search: no-signal cumulative distribution of the maximum likelihood detection statistic. <i>Classical and Quantum Gravity</i> , 2003 , 20, S803-S813	3.3	3
25	How many templates for GW chirp detection? The minimal-match issue revisited. <i>Classical and Quantum Gravity</i> , 2004 , 21, 4955-4961	3.3	3
24	Bouncing-ray chaos for smart media		3
23	Negative differential resistance in Josephson junctions coupled to a cavity. <i>Physica C: Superconductivity and Its Applications</i> , 2014 , 503, 178-182	1.3	2
22	Path integral computation of lowest order modes in arbitrary-shaped inhomogeneous waveguides 1997 , 7, 402-404		2
21	Aperiodic-Tiling-Based Mushroom-Type High-Impedance Surfaces. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2008 , 7, 54-57	3.8	2
20	Scattering Properties of One-Dimensional Aperiodically-Ordered Strip Arrays Based on Two-Symbol Substitutional Sequences. <i>IEEE Transactions on Antennas and Propagation</i> , 2007 , 55, 1554-1563	4.9	2
19	Dielectric constant measurements by IR thermography in microwave heating 2002 , 4710, 558		2
18	Analytical approximations for fundamental-mode field and dispersion equation of planar waveguides through the Stevenson-Badla approach. <i>Microwave and Optical Technology Letters</i> , 2000 , 27, 158-162	1.2	2
17	A model-based parameter estimation approach for numerical analysis of single-mode optical fibers. <i>Journal of Lightwave Technology</i> , 1999 , 17, 684-689	4	2
16	SNR degradation in matched-filter detection of GW chirps from coalescing binaries due to neglect of the relativistic periastron advance. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993 , 173, 121-125	2.3	2
15	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA 2018 , 21, 1		2
14	Robust gravitational wave burst detection and source localization in a network of interferometers using cross-Wigner spectra. <i>Classical and Quantum Gravity</i> , 2012 , 29, 045001	3.3	1
13	More on the Tanaka-Tagoshi parametrization of post-1PN spin-free gravitational wave chirps: Equispaced and cardinal interpolated lattices. <i>Physical Review D</i> , 2001 , 64,	4.9	1
12	Neural net aided fault diagnostics of large antenna arrays		1
11	Bimodal Approach for Noise Figures of Merit Evaluation in Quantum-Limited Josephson Traveling Wave Parametric Amplifiers. <i>IEEE Transactions on Applied Superconductivity</i> , 2022 , 1-1	1.8	1
10	Ternary quarter wavelength coatings for gravitational wave detector mirrors: Design optimization via exhaustive search. <i>Physical Review Research</i> , 2021 , 3,	3.9	1
9	Analysis of Thermal and Quantum Escape Times of Josephson Junctions for Signal Detection. <i>Springer Proceedings in Complexity</i> , 2021 , 181-194	0.3	0

8	Optimal Design of Coatings for Mirrors of Gravitational Wave Detectors: Analytic Turbo Solution via Herpin Equivalent Layers. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11669	2.6	0
7	Parallel Simulation of Josephson Junctions With Multiplicative Noise. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-4	1.8	
6	Escape Time of Josephson Junctions for Signal Detection. <i>Progress in Optical Science and Photonics</i> , 2012 , 657-678	0.3	
5	Wiener Integral Monte Carlo Approach to Analyze the Fundamental Mode in Complex Transmission Lines. <i>Electromagnetics</i> , 1997 , 17, 437-448	0.8	
4	A Generalized Donsker-Kalman Formula to Compute the Fundamental Modes in Complex Loaded Waveguides. <i>Electromagnetics</i> , 1998 , 18, 367-382	0.8	
3	Efficient Faulty Element Diagnostics of Large Antenna Arrays By Discrete Mean Field Neural Nets - Abstract *. <i>Journal of Electromagnetic Waves and Applications</i> , 1999 , 13, 1685-1686	1.3	
2	A flexible simulation code for microwave curing of polymers. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1993 , 68, 193-201		
1	Effects of Thermal and L _q y Noise Sources on the Switching Current Distributions of a Josephson Junction. <i>Springer Proceedings in Complexity</i> , 2021 , 261-271	0.3	