

Vincenzo Pierro

List of Publications by Year in descending order

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143
papers

18,371
citations

36271

51
h-index

17090

122
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145
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145
docs citations

145
times ranked

12379
citing authors

#	ARTICLE	IF	CITATIONS
1	Gravitational Waves and Gamma-Rays from a Binary Neutron Star Merger: GW170817 and GRB 170817A. <i>Astrophysical Journal Letters</i> , 2017, 848, L13.	3.0	2,314
2	GW170814: A Three-Detector Observation of Gravitational Waves from a Binary Black Hole Coalescence. <i>Physical Review Letters</i> , 2017, 119, 141101.	2.9	1,600
3	GW170817: Measurements of Neutron Star Radii and Equation of State. <i>Physical Review Letters</i> , 2018, 121, 161101.	2.9	1,473
4	Tests of General Relativity with GW150914. <i>Physical Review Letters</i> , 2016, 116, 221101.	2.9	1,224
5	Characterization of the LIGO detectors during their sixth science run. <i>Classical and Quantum Gravity</i> , 2015, 32, 115012.	1.5	1,029
6	GW170608: Observation of a 19 Solar-mass Binary Black Hole Coalescence. <i>Astrophysical Journal Letters</i> , 2017, 851, L35.	3.0	968
7	Enhanced sensitivity of the LIGO gravitational wave detector by using squeezed states of light. <i>Nature Photonics</i> , 2013, 7, 613-619.	15.6	825
8	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. <i>Living Reviews in Relativity</i> , 2018, 21, 3.	8.2	808
9	Properties of the Binary Black Hole Merger GW150914. <i>Physical Review Letters</i> , 2016, 116, 241102.	2.9	673
10	ASTROPHYSICAL IMPLICATIONS OF THE BINARY BLACK HOLE MERGER GW150914. <i>Astrophysical Journal Letters</i> , 2016, 818, L22.	3.0	633
11	GW150914: The Advanced LIGO Detectors in the Era of First Discoveries. <i>Physical Review Letters</i> , 2016, 116, 131103.	2.9	466
12	Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo. <i>Living Reviews in Relativity</i> , 2016, 19, 1.	8.2	427
13	An upper limit on the stochastic gravitational-wave background of cosmological origin. <i>Nature</i> , 2009, 460, 990-994.	13.7	303
14	Sensitivity of the Advanced LIGO detectors at the beginning of gravitational wave astronomy. <i>Physical Review D</i> , 2016, 93, .	1.6	286
15	GW150914: Implications for the Stochastic Gravitational-Wave Background from Binary Black Holes. <i>Physical Review Letters</i> , 2016, 116, 131102.	2.9	269
16	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.	2.9	254
17	THE RATE OF BINARY BLACK HOLE MERGERS INFERRED FROM ADVANCED LIGO OBSERVATIONS SURROUNDING GW150914. <i>Astrophysical Journal Letters</i> , 2016, 833, L1.	3.0	230
18	Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914. <i>Classical and Quantum Gravity</i> , 2016, 33, 134001.	1.5	225

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19	LOCALIZATION AND BROADBAND FOLLOW-UP OF THE GRAVITATIONAL-WAVE TRANSIENT GW150914. <i>Astrophysical Journal Letters</i> , 2016, 826, L13.	3.0	210
20	Upper Limits on the Stochastic Gravitational-Wave Background from Advanced LIGO's First Observing Run. <i>Physical Review Letters</i> , 2017, 118, 121101.	2.9	194
21	Search for Post-merger Gravitational Waves from the Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal Letters</i> , 2017, 851, L16.	3.0	189
22	Estimating the Contribution of Dynamical Ejecta in the Kilonova Associated with GW170817. <i>Astrophysical Journal Letters</i> , 2017, 850, L39.	3.0	156
23	SEARCHES FOR GRAVITATIONAL WAVES FROM KNOWN PULSARS WITH SCIENCE RUN 5 LIGO DATA. <i>Astrophysical Journal</i> , 2010, 713, 671-685.	1.6	155
24	UPPER LIMITS ON THE RATES OF BINARY NEUTRON STAR AND NEUTRON STAR-BLACK HOLE MERGERS FROM ADVANCED LIGO'S FIRST OBSERVING RUN. <i>Astrophysical Journal Letters</i> , 2016, 832, L21.	3.0	146
25	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.	1.6	144
26	Implications for the Origin of GRB 070201 from LIGO Observations. <i>Astrophysical Journal</i> , 2008, 681, 1419-1430.	1.6	143
27	First Search for Gravitational Waves from Known Pulsars with Advanced LIGO. <i>Astrophysical Journal</i> , 2017, 839, 12.	1.6	131
28	GRAVITATIONAL WAVES FROM KNOWN PULSARS: RESULTS FROM THE INITIAL DETECTOR ERA. <i>Astrophysical Journal</i> , 2014, 785, 119.	1.6	125
29	Search for Substellar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run. <i>Physical Review Letters</i> , 2019, 123, 161102.	2.9	119
30	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, .	1.6	104
31	Band Gap Formation and Multiple Scattering in Photonic Quasicrystals with a Penrose-Type Lattice. <i>Physical Review Letters</i> , 2005, 94, 183903.	2.9	100
32	Anomalous transport effects on switching currents of graphene-based Josephson junctions. <i>Nanotechnology</i> , 2017, 28, 134001.	1.3	98
33	Effects of waveform model systematics on the interpretation of GW150914. <i>Classical and Quantum Gravity</i> , 2017, 34, 104002.	1.5	98
34	Search for Gravitational Waves from a Long-lived Remnant of the Binary Neutron Star Merger GW170817. <i>Astrophysical Journal</i> , 2019, 875, 160.	1.6	97
35	Evaluation of stochastic-resonance-based detectors of weak harmonic signals in additive white Gaussian noise. <i>Physical Review E</i> , 1998, 57, 6470-6479.	0.8	91
36	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.	3.1	91

#	ARTICLE	IF	CITATIONS
37	Improved Upper Limits on the Stochastic Gravitational-Wave Background from 2009â€“2010 LIGO and Virgo Data. <i>Physical Review Letters</i> , 2014, 113, 231101.	2.9	86
38	Search for Tensor, Vector, and Scalar Polarizations in the Stochastic Gravitational-Wave Background. <i>Physical Review Letters</i> , 2018, 120, 201102.	2.9	85
39	Directional Limits on Persistent Gravitational Waves from Advanced LIGOâ€™s First Observing Run. <i>Physical Review Letters</i> , 2017, 118, 121102.	2.9	84
40	Search for gravitational-wave bursts in LIGO data from the fourth science run. <i>Classical and Quantum Gravity</i> , 2007, 24, 5343-5369.	1.5	78
41	Search for Substellar-Mass Ultracompact Binaries in Advanced LIGOâ€™s First Observing Run. <i>Physical Review Letters</i> , 2018, 121, 231103.	2.9	77
42	Improving astrophysical parameter estimation via offline noise subtraction for Advanced LIGO. <i>Physical Review D</i> , 2019, 99, .	1.6	77
43	The characterization of Virgo data and its impact on gravitational-wave searches. <i>Classical and Quantum Gravity</i> , 2012, 29, 155002.	1.5	73
44	The basic physics of the binary black hole merger GW150914. <i>Annalen Der Physik</i> , 2017, 529, 1600209.	0.9	69
45	Constraints on Cosmic Strings from the LIGO-Virgo Gravitational-Wave Detectors. <i>Physical Review Letters</i> , 2014, 112, 131101.	2.9	68
46	SEARCHES FOR CONTINUOUS GRAVITATIONAL WAVES FROM NINE YOUNG SUPERNOVA REMNANTS. <i>Astrophysical Journal</i> , 2015, 813, 39.	1.6	66
47	Josephson-based Threshold Detector for $L\ddot{A}$ vy-Distributed Current Fluctuations. <i>Physical Review Applied</i> , 2019, 11, .	1.5	66
48	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.	1.6	60
49	FIRST SEARCHES FOR OPTICAL COUNTERPARTS TO GRAVITATIONAL-WAVE CANDIDATE EVENTS. <i>Astrophysical Journal, Supplement Series</i> , 2014, 211, 7.	3.0	57
50	Measurement of thermal noise in multilayer coatings with optimized layer thickness. <i>Physical Review D</i> , 2010, 81, .	1.6	55
51	Localized modes in photonic quasicrystals with Penrose-type lattice. <i>Optics Express</i> , 2006, 14, 10021.	1.7	53
52	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.	1.6	52
53	STACKED SEARCH FOR GRAVITATIONAL WAVES FROM THE 2006 SGR 1900+14 STORM. <i>Astrophysical Journal</i> , 2009, 701, L68-L74.	1.6	45
54	Characterization of escape times of Josephson junctions for signal detection. <i>Physical Review E</i> , 2012, 85, 016708.	0.8	45

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55	Fast and accurate computational tools for gravitational waveforms from binary stars with any orbital eccentricity. Monthly Notices of the Royal Astronomical Society, 2001, 325, 358-372.	1.6	36
56	Evidence of local effects in anomalous refraction and focusing properties of dodecagonal photonic quasicrystals. Physical Review B, 2008, 77, .	1.1	34
57	Electromagnetic chaos in mode-stirred reverberation enclosures. IEEE Transactions on Electromagnetic Compatibility, 1998, 40, 185-192.	1.4	33
58	Detection of noise-corrupted sinusoidal signals with Josephson junctions. Physical Review E, 2010, 82, 046712.	0.8	31
59	NEURAL NETWORK AIDED GLITCH-BURST DISCRIMINATION AND GLITCH CLASSIFICATION. International Journal of Modern Physics C, 2013, 24, 1350084.	0.8	29
60	IR temperature measurements in microwave heating. Infrared Physics and Technology, 2002, 43, 145-150.	1.3	24
61	Material loss angles from direct measurements of broadband thermal noise. Physical Review D, 2015, 91, .	1.6	24
62	First Demonstration of Electrostatic Damping of Parametric Instability at Advanced LIGO. Physical Review Letters, 2017, 118, 151102.	2.9	24
63	Voltage drop across Josephson junctions for LÃ©vy noise detection. Physical Review Research, 2020, 2, .	1.3	24
64	A Comparative Study of Representative Categories of EBG Dielectric Quasi-Crystals. IEEE Antennas and Wireless Propagation Letters, 2006, 5, 331-334.	2.4	23
65	A Thermal Model for Pulsed EM Field Exposure Effects in Cells at Nonthermal Levels. IEEE Transactions on Plasma Science, 2010, 38, 149-155.	0.6	23
66	Optimized multilayer dielectric mirror coatings for gravitational wave interferometers. , 2006, , .		22
67	Emergence and Evolution of Crystallization in TiO2 Thin Films: A Structural and Morphological Study. Nanomaterials, 2021, 11, 1409.	1.9	20
68	First joint observation by the underground gravitational-wave detector KAGRA with GEO 600. Progress of Theoretical and Experimental Physics, 2022, 2022, .	1.8	20
69	Directive emission from defect-free dodecagonal photonic quasicrystals: A leaky wave characterization. Physical Review B, 2009, 79, .	1.1	19
70	Interplay between detection strategies and stochastic resonance properties. Communications in Nonlinear Science and Numerical Simulation, 2016, 30, 15-31.	1.7	19
71	Mode confinement in photonic quasicrystal point-defect cavities for particle accelerators. Applied Physics Letters, 2008, 93, 164102.	1.5	18
72	Quantum correlation measurements in interferometric gravitational-wave detectors. Physical Review A, 2017, 95, .	1.0	16

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73	Analysis of Josephson junctions switching time distributions for the detection of single microwave photons. <i>Chaos, Solitons and Fractals</i> , 2021, 142, 110496.	2.5	16
74	A parametric study of the lensing properties of dodecagonal photonic quasicrystals. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2008, 6, 60-68.	1.0	15
75	Detection of signals in presence of noise through Josephson junction switching currents. <i>Physical Review E</i> , 2020, 101, 052205.	0.8	14
76	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.	3.1	11
77	Escape time characterization of pendular Fabry-Perot. <i>Europhysics Letters</i> , 2013, 101, 20005.	0.7	11
78	Membrane Heating in Living Tissues Exposed to Nonthermal Pulsed EM Fields. <i>IEEE Transactions on Plasma Science</i> , 2014, 42, 2236-2244.	0.6	11
79	Stochastic first passage time accelerated with CUDA. <i>Journal of Computational Physics</i> , 2018, 361, 136-149.	1.9	11
80	Efficient Faulty Element Diagnostics of Large Antenna Arrays by Discrete Mean Field Neural Nets. <i>Progress in Electromagnetics Research</i> , 2000, 25, 53-76.	1.6	10
81	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.	3.1	10
82	Analytic structure of a family of hyperboloidal beams of potential interest for advanced LIGO. <i>Physical Review D</i> , 2006, 73, .	1.6	10
83	On the performance limits of coatings for gravitational wave detectors made of alternating layers of two materials. <i>Optical Materials</i> , 2019, 96, 109269.	1.7	10
84	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.	0.2	9
85	Analytical approximations for fundamental-mode field and dispersion equation of planar waveguides through the Stevenson-Pad $\tilde{\imath}$ $\frac{1}{2}$ approach. <i>Microwave and Optical Technology Letters</i> , 2000, 27, 158-162.	0.9	8
86	Gravitational wave chirp search: Economization of post-Newtonian matched filter bank via cardinal interpolation. <i>Physical Review D</i> , 2000, 62, .	1.6	8
87	Nearly minimum redundant correlator interpolation formula for gravitational wave chirp detection. <i>Physical Review D</i> , 2000, 62, .	1.6	8
88	Fabry-Perot filters with tunable Josephson junction defects. <i>Physica C: Superconductivity and Its Applications</i> , 2015, 517, 37-40.	0.6	8
89	Bimodal Approach for Noise Figures of Merit Evaluation in Quantum-Limited Josephson Traveling Wave Parametric Amplifiers. <i>IEEE Transactions on Applied Superconductivity</i> , 2022, 32, 1-6.	1.1	8
90	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.	0.9	7

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91	Computation of hypergeometric functions for gravitationally radiating binary stars. Monthly Notices of the Royal Astronomical Society, 2002, 334, 855-858.	1.6	7
92	A procedure to measure electromagnetic skin depth in microwave heating. Infrared Physics and Technology, 2004, 46, 49-55.	1.3	7
93	Ray-chaotic footprints in deterministic wave dynamics: a test model with coupled Floquet-type and ducted-type mode characteristics. IEEE Transactions on Antennas and Propagation, 2005, 53, 753-765.	3.1	7
94	Genetically Optimized Metasurface Pairs for Wideband Out-of-Phase Mutual Response. IEEE Antennas and Wireless Propagation Letters, 2008, 7, 788-791.	2.4	7
95	Ternary quarter wavelength coatings for gravitational wave detector mirrors: Design optimization via exhaustive search. Physical Review Research, 2021, 3, .	1.3	7
96	Optimum placement of post-1PN gravitational wave chirp templates made simple at any match level via Tanaka-Tagoshi coordinates. Physical Review D, 2002, 65, .	1.6	6
97	Rejection properties of stochastic-resonance-based detectors of weak harmonic signals. Physical Review E, 2004, 69, 062104.	0.8	6
98	Negative Differential Resistance due to Nonlinearities in Single and Stacked Josephson Junctions. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-7.	1.1	6
99	Effects of transients in LIGO suspensions on searches for gravitational waves. Review of Scientific Instruments, 2017, 88, 124501.	0.6	6
100	Gravitational-wave chirps: accumulating phase errors due to residual orbital eccentricity. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1996, 111, 1517-1525.	0.2	5
101	Cut-off Frequency and Dominant Eigenfunction Computation in Complex Dielectric Geometries via Donsker-KaÅ•Formula and Monte Carlo Method. Electromagnetics, 1997, 17, 1-14.	0.3	5
102	Single-mode optical fibers using Pade approximants. , 1998, 8, 305-307.		5
103	Tanaka-Tagoshi parametrization of post-first-post-Newtonian spin-free gravitational wave chirps: Equispaced and cardinal interpolated lattices for first generation interferometric antennas. Physical Review D, 2001, 64, .	1.6	5
104	Metamaterial inclusions based on grid-graph Hamiltonian paths. Microwave and Optical Technology Letters, 2006, 48, 2520-2524.	0.9	5
105	Negative differential resistance in Josephson junctions coupled to a cavity. Physica C: Superconductivity and Its Applications, 2014, 503, 178-182.	0.6	5
106	Correlator bank detection of gravitational wave chirpsâ€”False-alarm probability, template density, and thresholds: Behind and beyond the minimal-match issue. Physical Review D, 2004, 70, .	1.6	4
107	Perspectives on beam-shaping optimization for thermal-noise reduction in advanced gravitational-wave interferometric detectors: Bounds, profiles, and critical parameters. Physical Review D, 2007, 76, .	1.6	4
108	Sequential nonideal measurements of quantum oscillators: Statistical characterization with and without environmental coupling. Physical Review A, 2015, 92, .	1.0	4

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109	Steady State Population Statistics of Compact Binary Stars. <i>Astrophysical Journal</i> , 1996, 469, 272.	1.6	4
110	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.	1.0	3
111	Bouncing-ray chaos for smart media. , 0, , .		3
112	Gravitational wave chirp search: no-signal cumulative distribution of the maximum likelihood detection statistic. <i>Classical and Quantum Gravity</i> , 2003, 20, S803-S813.	1.5	3
113	How many templates for GW chirp detection? The minimal-match issue revisited. <i>Classical and Quantum Gravity</i> , 2004, 21, 4955-4961.	1.5	3
114	Radiation from Fibonacci-type Quasiperiodic Arrays on Dielectric Substrates. <i>Journal of Electromagnetic Waves and Applications</i> , 2007, 21, 1231-1245.	1.0	3
115	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.	3.1	3
116	Blind source separation and Wigner-Ville transform as tools for the extraction of the gravitational wave signal. <i>Physical Review D</i> , 2011, 83, .	1.6	3
117	Nonideal quantum measurement effects on the switching-current distribution of Josephson junctions. <i>Physical Review A</i> , 2016, 94, .	1.0	3
118	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.	0.9	2
119	Path integral computation of lowest order modes in arbitrary-shaped inhomogeneous waveguides. , 1997, 7, 402-404.		2
120	A model-based parameter estimation approach for numerical analysis of single-mode optical fibers. <i>Journal of Lightwave Technology</i> , 1999, 17, 684-689.	2.7	2
121	<title>Dielectric constant measurements by IR thermography in microwave heating</title>. , 2002, 4710, 558.		2
122	Aperiodic-Tiling-Based Mushroom-Type High-Impedance Surfaces. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2008, 7, 54-57.	2.4	2
123	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.	1.5	2
124	Prospects for observing and localizing gravitational-wave transients with Advanced LIGO, Advanced Virgo and KAGRA. , 2018, 21, 1.		2
125	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.	1.3	2
126	Neural net aided fault diagnostics of large antenna arrays. , 0, , .		1

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127	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, .	1.6	1
128	Radiation and Scattering from One-Dimensional Aperiodically-Ordered Structures Based on Two-Letter Substitutional Sequences. , 0, , .		1
129	Wave-oriented data-processing of fields scattered by one-dimensional aperiodically-ordered structures. , 0, , .		1
130	Escape Time of Josephson Junctions for Signal Detection. <i>Progress in Optical Science and Photonics</i> , 2012, , 657-678.	0.3	1
131	Noise estimate of pendular Fabry-Perot through reflectivity change. , 2014, , .		1
132	Localization of Gravitational Sources from Time-Frequency Maps. , 2018, , .		1
133	A flexible simulation code for microwave curing of polymers. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1993, 68, 193-201.	0.6	0
134	Wiener Integral Monte Carlo Approach to Analyze the Fundamental Mode in Complex Transmission Lines. <i>Electromagnetics</i> , 1997, 17, 437-448.	0.3	0
135	A Generalized Donsker-kaÄ-Formula to Compute the Fundamental Modes in Complex Loaded Waveguides. <i>Electromagnetics</i> , 1998, 18, 367-382.	0.3	0
136	Parameterizing wave interactions with aperiodic order: threads in a tapestry. , 2006, , .		0
137	High-Impedance Surfaces with Aperiodically-Ordered Textures. , 2007, , .		0
138	Analytic Properties of a Class of Hyperboloidal Beams in Nearly-Spheroidal Fabry-Perot Optical Cavities. , 2007, , .		0
139	Photonic Quasicrystals, Some Properties and Applications. , 2008, , .		0
140	A comparative study of directive emission from photonic quasicrystals. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
141	Switching times in Fabry-Perot measurements. , 2015, , .		0
142	Accurate switching currents measurements in quantum washboard potential. , 2016, , .		0
143	Parallel Simulation of Josephson Junctions With Multiplicative Noise. <i>IEEE Transactions on Applied Superconductivity</i> , 2018, 28, 1-4.	1.1	0