

Leonardo Ricci

List of Publications by Year in descending order

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64
papers

1,059
citations

623734

14
h-index

434195

31
g-index

67
all docs

67
docs citations

67
times ranked

1082
citing authors

#	ARTICLE	IF	CITATIONS
1	A compact grating-stabilized diode laser system for atomic physics. Optics Communications, 1995, 117, 541-549.	2.1	325
2	Alpha-synuclein pore forming activity upon membrane association. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 2876-2883.	2.6	86
3	Magneto-optical trapping of Fermionic potassium atoms. Physical Review A, 1998, 57, 1136-1138.	2.5	50
4	Combined Trap with the Potential for Antihydrogen Production. Physical Review Letters, 1995, 75, 3257-3260.	7.8	48
5	Resonant photoacoustic simultaneous detection of methane and ethylene by means. of a 1.63- μ m diode laser. Applied Physics B: Lasers and Optics, 2002, 74, 273-278.	2.2	48
6	Small-sample characterization of stochastic approximation staircases in forced-choice adaptive threshold estimation. Perception & Psychophysics, 2007, 69, 254-262.	2.3	41
7	Design for a compact tunable Ti:sapphire laser. Optics Letters, 1995, 20, 297.	3.3	36
8	Plasma microRNA profiling distinguishes patients with frontotemporal dementia from healthy subjects. Neurobiology of Aging, 2019, 84, 240.e1-240.e12.	3.1	32
9	Trapping and cooling of potassium isotopes in a double-magneto-optical-trap apparatus. Physical Review A, 1999, 59, 886-888.	2.5	30
10	A comparison approach to explain risks related to X-ray imaging for scoliosis, 2012 SOSORT award winner. Scoliosis, 2013, 8, 11.	0.4	29
11	Collective excitations of a 87 Rb Bose condensate in the Thomas-Fermi regime. Europhysics Letters, 2000, 49, 8-13.	2.0	28
12	Magnetoresistive magnetometer with improved bandwidth and response characteristics. Review of Scientific Instruments, 2005, 76, 065106.	1.3	21
13	Connectivity Influences on Nonlinear Dynamics in Weakly-Synchronized Networks: Insights From Rössler Systems, Electronic Chaotic Oscillators, Model and Biological Neurons. IEEE Access, 2019, 7, 174793-174821.	4.2	17
14	Statistical properties of the maximum Lyapunov exponent calculated via the divergence rate method. Physical Review E, 2014, 90, 062920.	2.1	14
15	Identification of suitable embedding dimensions and lags for time series generated by chaotic, finite-dimensional systems. Physical Review E, 2018, 98, .	2.1	13
16	Dependence of connectivity on geometric distance in brain networks. Scientific Reports, 2019, 9, 13412.	3.3	13
17	Generation of surrogate event sequences via joint distribution of successive inter-event intervals. Chaos, 2019, 29, 121102.	2.5	13
18	Current-Starved Cross-Coupled CMOS Inverter Rings as Versatile Generators of Chaotic and Neural-Like Dynamics Over Multiple Frequency Decades. IEEE Access, 2019, 7, 54638-54657.	4.2	12

#	ARTICLE	IF	CITATIONS
19	A Novel Hybrid Microdosimeter for Radiation Field Characterization Based on the Tissue Equivalent Proportional Counter Detector and Low Gain Avalanche Detectors Tracker: A Feasibility Study. Frontiers in Physics, 2021, 8, .	2.1	12
20	Measuring the Rate of Information Exchange in Point-Process Data With Application to Cardiovascular Variability. Frontiers in Network Physiology, 2022, 1, .	1.8	11
21	Light desorption from an yttrium neutralizer for Rb and Fr magneto-optical trap loading. Journal of Chemical Physics, 2014, 141, 134201.	3.0	10
22	Correlation in brain networks at different time scale resolution. Chaos, 2018, 28, 063127.	2.5	10
23	Noninvasive system for the simultaneous stabilization and control of magnetic field strength and gradient. Review of Scientific Instruments, 2006, 77, 035103.	1.3	8
24	Enhanced Atomic Desorption of 209 and 210 Francium from Organic Coating. Scientific Reports, 2017, 7, 4207.	3.3	8
25	High-dimensional dynamics in a single-transistor oscillator containing Feynman-Sierpiński resonators: Effect of fractal depth and irregularity. Chaos, 2018, 28, 093112.	2.5	8
26	Measurement and modelling of enhanced absorption Hanle effect resonances in ^{85}Rb . Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 055003.	1.5	7
27	Dynamics of a cold atom cloud in an anharmonic trap. Physical Review A, 2010, 81, .	2.5	7
28	Statistical analysis of a Bayesian classifier based on the expression of miRNAs. BMC Bioinformatics, 2015, 16, 287.	2.6	7
29	SpiSeMe: A multi-language package for spike train surrogate generation. Chaos, 2020, 30, 073120.	2.5	7
30	miR375-3p Distinguishes Low-Grade Neuroendocrine From Non-neuroendocrine Lung Tumors in FFPE Samples. Frontiers in Molecular Biosciences, 2020, 7, 86.	3.5	7
31	Generation of cylindrically symmetric magnetic fields with permanent magnets and μ -metal. Applied Physics B: Lasers and Optics, 1994, 59, 195-201.	2.2	6
32	Combined static potentials for confinement of neutral species. Physical Review A, 2007, 76, .	2.5	6
33	Statistically robust evidence of stochastic resonance in human auditory perceptual system. European Physical Journal B, 2009, 69, 155-159.	1.5	6
34	Asymptotic distribution of sample Shannon entropy in the case of an underlying finite, regular Markov chain. Physical Review E, 2021, 103, 022215.	2.1	6
35	Estimating the variance of Shannon entropy. Physical Review E, 2021, 104, 024220.	2.1	6
36	Experimental Evidence of Chaos Generated by a Minimal Universal Oscillator Model. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2021, 31, 2150205.	1.7	6

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37	A current-carrying coil design with improved liquid cooling arrangement. Review of Scientific Instruments, 2013, 84, 065115.	1.3	5
38	Dependence of Connectivity on the Logarithm of Geometric Distance in Brain Networks. Frontiers in Physiology, 2020, 11, 611125.	2.8	5
39	NetOnZeroDXC: A package for the identification of networks out of multivariate time series via zero-delay cross-correlation. SoftwareX, 2019, 10, 100316.	2.6	4
40	Asymptotic behavior of the time-dependent divergence exponent. Physical Review E, 2020, 101, 042211.	2.1	4
41	Noise and response characterization of an anisotropic magnetoresistive sensor working in a high-frequency flipping regime. EPJ Applied Physics, 2006, 33, 51-57.	0.7	4
42	Chasing chaos by improved identification of suitable embedding dimensions and lags. Chaos, 2020, 30, 123104.	2.5	4
43	Confinement of electrons and ions in a combined trap with the potential for antihydrogen production. Hyperfine Interactions, 1996, 100, 133-144.	0.5	3
44	A theory of energy cost and speed of climbing. AIP Advances, 2011, 1, 032169.	1.3	3
45	A quantum-mechanical derivation of the multivariate central limit theorem for Markov chains. Chaos, Solitons and Fractals, 2021, 142, 110450.	5.1	3
46	Relationship between mutual information and cross-correlation time scale of observability as measures of connectivity strength. Chaos, 2021, 31, 073106.	2.5	3
47	Permutation Entropy of Weakly Noise-Affected Signals. Entropy, 2022, 24, 54.	2.2	3
48	Lamb dip and infraredâ€“radio frequency double resonance spectroscopy of $^{188}\text{OsO}_4$. Journal of Chemical Physics, 1991, 94, 2509-2512.	3.0	2
49	Winding shape optimization for asymmetric confinement magnets. Review of Scientific Instruments, 2002, 73, 3181-3186.	1.3	2
50	Dante's insight into galilean invariance. Nature, 2005, 434, 717-717.	27.8	2
51	Observation of $7pP_{2,3}/2dD_2$ optical transitions in 209 and 210 francium isotopes. Optics Letters, 2017, 42, 3682.	3.3	2
52	A neural system for frequency control of tunable laser sources. , 0, , .		1
53	Gravito-magnetic trapping of ^{87}Rb . Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 155301.	1.5	1
54	A comparison approach to explain risks related to x-ray imaging for scoliosis. Scoliosis, 2013, 8, .	0.4	1

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55	Tailoring a psychophysical discrimination experiment upon assessment of the psychometric function: Predictions and results. AIP Advances, 2015, 5, 027121.	1.3	1
56	Characterization of time-varying magnetic fields and temperature of helium gas exit during a quench of a human magnetic resonance system. Biomedical Physics and Engineering Express, 2019, 5, 045021.	1.2	1
57	A Toroidal Magnetic Guide for Neutral Atoms. , 2002, , 477-485.		1
58	Estimating Permutation Entropy Variability via Surrogate Time Series. Entropy, 2022, 24, 853.	2.2	1
59	High resolution spectroscopy of the 1Sâ€“2S transition in atomic hydrogen. AIP Conference Proceedings, 1993, , .	0.4	0
60	A neural controller for the determination of the frequency difference between laser sources. IEEE Transactions on Instrumentation and Measurement, 1998, 47, 858-863.	4.7	0
61	Cooling and Trapping of Potassium. , 0, , .		0
62	Appropriateness of dynamical systems for the comparison of different embedding methods via calculation of the maximum Lyapunov exponent. Journal of Physics: Conference Series, 2014, 490, 012094.	0.4	0
63	MiRNA-QC-and-Diagnosis: An R package for diagnosis based on MiRNA expression. SoftwareX, 2020, 12, 100569.	2.6	0
64	Development of a Muon detector for educational purposes.. , 0, , .		0