

# Leonardo Ricci

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

1,059  
citations

623188

14  
h-index

433756

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. <i>Optics Communications</i> , 1995, 117, 541-549.	1.0	325
2	Alpha-synuclein pore forming activity upon membrane association. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 2876-2883.	1.4	86
3	Magneto-optical trapping of Fermionic potassium atoms. <i>Physical Review A</i> , 1998, 57, 1136-1138.	1.0	50
4	Combined Trap with the Potential for Antihydrogen Production. <i>Physical Review Letters</i> , 1995, 75, 3257-3260.	2.9	48
5	Resonant photoacoustic simultaneous detection of methane and ethylene by means. of a 1.63- $\mu$ m diode laser. <i>Applied Physics B: Lasers and Optics</i> , 2002, 74, 273-278.	1.1	48
6	Small-sample characterization of stochastic approximation staircases in forced-choice adaptive threshold estimation. <i>Perception &amp; Psychophysics</i> , 2007, 69, 254-262.	2.3	41
7	Design for a compact tunable Ti:sapphire laser. <i>Optics Letters</i> , 1995, 20, 297.	1.7	36
8	Plasma microRNA profiling distinguishes patients with frontotemporal dementia from healthy subjects. <i>Neurobiology of Aging</i> , 2019, 84, 240.e1-240.e12.	1.5	32
9	Trapping and cooling of potassium isotopes in a double-magneto-optical-trap apparatus. <i>Physical Review A</i> , 1999, 59, 886-888.	1.0	30
10	A comparison approach to explain risks related to X-ray imaging for scoliosis, 2012 SOSORT award winner. <i>Scoliosis</i> , 2013, 8, 11.	0.4	29
11	Collective excitations of a $^{87}\text{Rb}$ Bose condensate in the Thomas-Fermi regime. <i>Europhysics Letters</i> , 2000, 49, 8-13.	0.7	28
12	Magnetoresistive magnetometer with improved bandwidth and response characteristics. <i>Review of Scientific Instruments</i> , 2005, 76, 065106.	0.6	21
13	Connectivity Influences on Nonlinear Dynamics in Weakly-Synchronized Networks: Insights From Rössler Systems, Electronic Chaotic Oscillators, Model and Biological Neurons. <i>IEEE Access</i> , 2019, 7, 174793-174821.	2.6	17
14	Statistical properties of the maximum Lyapunov exponent calculated via the divergence rate method. <i>Physical Review E</i> , 2014, 90, 062920.	0.8	14
15	Identification of suitable embedding dimensions and lags for time series generated by chaotic, finite-dimensional systems. <i>Physical Review E</i> , 2018, 98, .	0.8	13
16	Dependence of connectivity on geometric distance in brain networks. <i>Scientific Reports</i> , 2019, 9, 13412.	1.6	13
17	Generation of surrogate event sequences via joint distribution of successive inter-event intervals. <i>Chaos</i> , 2019, 29, 121102.	1.0	13
18	Current-Starved Cross-Coupled CMOS Inverter Rings as Versatile Generators of Chaotic and Neural-Like Dynamics Over Multiple Frequency Decades. <i>IEEE Access</i> , 2019, 7, 54638-54657.	2.6	12

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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. <i>Frontiers in Physics</i> , 2021, 8, .	1.0	12
20	Measuring the Rate of Information Exchange in Point-Process Data With Application to Cardiovascular Variability. <i>Frontiers in Network Physiology</i> , 2022, 1, .	0.8	11
21	Light desorption from an yttrium neutralizer for Rb and Fr magneto-optical trap loading. <i>Journal of Chemical Physics</i> , 2014, 141, 134201.	1.2	10
22	Correlation in brain networks at different time scale resolution. <i>Chaos</i> , 2018, 28, 063127.	1.0	10
23	Noninvasive system for the simultaneous stabilization and control of magnetic field strength and gradient. <i>Review of Scientific Instruments</i> , 2006, 77, 035103.	0.6	8
24	Enhanced Atomic Desorption of 209 and 210 Francium from Organic Coating. <i>Scientific Reports</i> , 2017, 7, 4207.	1.6	8
25	High-dimensional dynamics in a single-transistor oscillator containing Feynman-Sierpiński resonators: Effect of fractal depth and irregularity. <i>Chaos</i> , 2018, 28, 093112.	1.0	8
26	Measurement and modelling of enhanced absorption Hanle effect resonances in $^{85}\text{Rb}$ . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 055003.	0.6	7
27	Dynamics of a cold atom cloud in an anharmonic trap. <i>Physical Review A</i> , 2010, 81, .	1.0	7
28	Statistical analysis of a Bayesian classifier based on the expression of miRNAs. <i>BMC Bioinformatics</i> , 2015, 16, 287.	1.2	7
29	SpiSeMe: A multi-language package for spike train surrogate generation. <i>Chaos</i> , 2020, 30, 073120.	1.0	7
30	miR375-3p Distinguishes Low-Grade Neuroendocrine From Non-neuroendocrine Lung Tumors in FFPE Samples. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 86.	1.6	7
31	Generation of cylindrically symmetric magnetic fields with permanent magnets and $\mu$ -metal. <i>Applied Physics B: Lasers and Optics</i> , 1994, 59, 195-201.	1.1	6
32	Combined static potentials for confinement of neutral species. <i>Physical Review A</i> , 2007, 76, .	1.0	6
33	Statistically robust evidence of stochastic resonance in human auditory perceptual system. <i>European Physical Journal B</i> , 2009, 69, 155-159.	0.6	6
34	Asymptotic distribution of sample Shannon entropy in the case of an underlying finite, regular Markov chain. <i>Physical Review E</i> , 2021, 103, 022215.	0.8	6
35	Estimating the variance of Shannon entropy. <i>Physical Review E</i> , 2021, 104, 024220.	0.8	6
36	Experimental Evidence of Chaos Generated by a Minimal Universal Oscillator Model. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2021, 31, 2150205.	0.7	6

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37	A current-carrying coil design with improved liquid cooling arrangement. Review of Scientific Instruments, 2013, 84, 065115.	0.6	5
38	Dependence of Connectivity on the Logarithm of Geometric Distance in Brain Networks. Frontiers in Physiology, 2020, 11, 611125.	1.3	5
39	NetOnZeroDXC: A package for the identification of networks out of multivariate time series via zero-delay cross-correlation. SoftwareX, 2019, 10, 100316.	1.2	4
40	Asymptotic behavior of the time-dependent divergence exponent. Physical Review E, 2020, 101, 042211.	0.8	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.	0.3	4
42	Chasing chaos by improved identification of suitable embedding dimensions and lags. Chaos, 2020, 30, 123104.	1.0	4
43	Confinement of electrons and ions in a combined trap with the potential for antihydrogen production. Hyperfine Interactions, 1996, 100, 133-144.	0.2	3
44	A theory of energy cost and speed of climbing. AIP Advances, 2011, 1, 032169.	0.6	3
45	A quantum-mechanical derivation of the multivariate central limit theorem for Markov chains. Chaos, Solitons and Fractals, 2021, 142, 110450.	2.5	3
46	Relationship between mutual information and cross-correlation time scale of observability as measures of connectivity strength. Chaos, 2021, 31, 073106.	1.0	3
47	Permutation Entropy of Weakly Noise-Affected Signals. Entropy, 2022, 24, 54.	1.1	3
48	Lamb dip and infrared radio frequency double resonance spectroscopy of $^{188}\text{OsO}_4$ . Journal of Chemical Physics, 1991, 94, 2509-2512.	1.2	2
49	Winding shape optimization for asymmetric confinement magnets. Review of Scientific Instruments, 2002, 73, 3181-3186.	0.6	2
50	Dante's insight into galilean invariance. Nature, 2005, 434, 717-717.	13.7	2
51	Observation of $7pP_{2,3} \rightarrow 7dD_2$ optical transitions in 209 and 210 francium isotopes. Optics Letters, 2017, 42, 3682.	1.7	2
52	A neural system for frequency control of tunable laser sources. , 0, , .		1
53	Gravito-magnetic trapping of $^{87}\text{Rb}$ . Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 155301.	0.6	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.	0.6	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.	0.6	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.	1.1	1
59	High resolution spectroscopy of the 1Sâ€“2S transition in atomic hydrogen. AIP Conference Proceedings, 1993, , .	0.3	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.	2.4	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.	0.3	0
63	MiRNA-QC-and-Diagnosis: An R package for diagnosis based on MiRNA expression. SoftwareX, 2020, 12, 100569.	1.2	0
64	Development of a Muon detector for educational purposes.. , 0, , .		0