

Leonardo Ricci

List of Publications by Year in descending order

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64
papers

1,059
citations

623734

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434195

31
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67
all docs

67
docs citations

67
times ranked

1082
citing authors

#	ARTICLE	IF	CITATIONS
1	Measuring the Rate of Information Exchange in Point-Process Data With Application to Cardiovascular Variability. <i>Frontiers in Network Physiology</i> , 2022, 1, .	1.8	11
2	Permutation Entropy of Weakly Noise-Affected Signals. <i>Entropy</i> , 2022, 24, 54.	2.2	3
3	Estimating Permutation Entropy Variability via Surrogate Time Series. <i>Entropy</i> , 2022, 24, 853.	2.2	1
4	A quantum-mechanical derivation of the multivariate central limit theorem for Markov chains. <i>Chaos, Solitons and Fractals</i> , 2021, 142, 110450.	5.1	3
5	Asymptotic distribution of sample Shannon entropy in the case of an underlying finite, regular Markov chain. <i>Physical Review E</i> , 2021, 103, 022215.	2.1	6
6	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, .	2.1	12
7	Relationship between mutual information and cross-correlation time scale of observability as measures of connectivity strength. <i>Chaos</i> , 2021, 31, 073106.	2.5	3
8	Estimating the variance of Shannon entropy. <i>Physical Review E</i> , 2021, 104, 024220.	2.1	6
9	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.	1.7	6
10	MiRNA-QC-and-Diagnosis: An R package for diagnosis based on MiRNA expression. <i>SoftwareX</i> , 2020, 12, 100569.	2.6	0
11	SpiSeMe: A multi-language package for spike train surrogate generation. <i>Chaos</i> , 2020, 30, 073120.	2.5	7
12	miR375-3p Distinguishes Low-Grade Neuroendocrine From Non-neuroendocrine Lung Tumors in FFPE Samples. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 86.	3.5	7
13	Asymptotic behavior of the time-dependent divergence exponent. <i>Physical Review E</i> , 2020, 101, 042211.	2.1	4
14	Dependence of Connectivity on the Logarithm of Geometric Distance in Brain Networks. <i>Frontiers in Physiology</i> , 2020, 11, 611125.	2.8	5
15	Chasing chaos by improved identification of suitable embedding dimensions and lags. <i>Chaos</i> , 2020, 30, 123104.	2.5	4
16	Characterization of time-varying magnetic fields and temperature of helium gas exit during a quench of a human magnetic resonance system. <i>Biomedical Physics and Engineering Express</i> , 2019, 5, 045021.	1.2	1
17	Dependence of connectivity on geometric distance in brain networks. <i>Scientific Reports</i> , 2019, 9, 13412.	3.3	13
18	NetOnZeroDXC: A package for the identification of networks out of multivariate time series via zero-delay cross-correlation. <i>SoftwareX</i> , 2019, 10, 100316.	2.6	4

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19	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
20	Plasma microRNA profiling distinguishes patients with frontotemporal dementia from healthy subjects. Neurobiology of Aging, 2019, 84, 240.e1-240.e12.	3.1	32
21	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
22	Generation of surrogate event sequences via joint distribution of successive inter-event intervals. Chaos, 2019, 29, 121102.	2.5	13
23	Identification of suitable embedding dimensions and lags for time series generated by chaotic, finite-dimensional systems. Physical Review E, 2018, 98, .	2.1	13
24	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
25	Correlation in brain networks at different time scale resolution. Chaos, 2018, 28, 063127.	2.5	10
26	Enhanced Atomic Desorption of 209 and 210 Francium from Organic Coating. Scientific Reports, 2017, 7, 4207.	3.3	8
27	Observation of $7pP_{2,3/2} \rightarrow 7dD_2$ optical transitions in 209 and 210 francium isotopes. Optics Letters, 2017, 42, 3682.	3.3	2
28	Tailoring a psychophysical discrimination experiment upon assessment of the psychometric function: Predictions and results. AIP Advances, 2015, 5, 027121.	1.3	1
29	Statistical analysis of a Bayesian classifier based on the expression of miRNAs. BMC Bioinformatics, 2015, 16, 287.	2.6	7
30	Light desorption from an yttrium neutralizer for Rb and Fr magneto-optical trap loading. Journal of Chemical Physics, 2014, 141, 134201.	3.0	10
31	Statistical properties of the maximum Lyapunov exponent calculated via the divergence rate method. Physical Review E, 2014, 90, 062920.	2.1	14
32	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
33	A comparison approach to explain risks related to X-ray imaging for scoliosis, 2012 SOSORT award winner. Scoliosis, 2013, 8, 11.	0.4	29
34	A comparison approach to explain risks related to x-ray imaging for scoliosis. Scoliosis, 2013, 8, .	0.4	1
35	A current-carrying coil design with improved liquid cooling arrangement. Review of Scientific Instruments, 2013, 84, 065115.	1.3	5
36	Alpha-synuclein pore forming activity upon membrane association. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 2876-2883.	2.6	86

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37	A theory of energy cost and speed of climbing. AIP Advances, 2011, 1, 032169.	1.3	3
38	Dynamics of a cold atom cloud in an anharmonic trap. Physical Review A, 2010, 81, .	2.5	7
39	Statistically robust evidence of stochastic resonance in human auditory perceptual system. European Physical Journal B, 2009, 69, 155-159.	1.5	6
40	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
41	Gravito-magnetic trapping of ^{87}Rb . Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 155301.	1.5	1
42	Combined static potentials for confinement of neutral species. Physical Review A, 2007, 76, .	2.5	6
43	Small-sample characterization of stochastic approximation staircases in forced-choice adaptive threshold estimation. Perception & Psychophysics, 2007, 69, 254-262.	2.3	41
44	Noninvasive system for the simultaneous stabilization and control of magnetic field strength and gradient. Review of Scientific Instruments, 2006, 77, 035103.	1.3	8
45	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
46	Dante's insight into galilean invariance. Nature, 2005, 434, 717-717.	27.8	2
47	Magnetoresistive magnetometer with improved bandwidth and response characteristics. Review of Scientific Instruments, 2005, 76, 065106.	1.3	21
48	Winding shape optimization for asymmetric confinement magnets. Review of Scientific Instruments, 2002, 73, 3181-3186.	1.3	2
49	Resonant photoacoustic simultaneous detection of methane and ethylene by means. of a $1.63\text{-}\mu\text{m}$ diode laser. Applied Physics B: Lasers and Optics, 2002, 74, 273-278.	2.2	48
50	A Toroidal Magnetic Guide for Neutral Atoms. , 2002, , 477-485.		1
51	Collective excitations of a ^{87}Rb Bose condensate in the Thomas-Fermi regime. Europhysics Letters, 2000, 49, 8-13.	2.0	28
52	Trapping and cooling of potassium isotopes in a double-magneto-optical-trap apparatus. Physical Review A, 1999, 59, 886-888.	2.5	30
53	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
54	Magneto-optical trapping of Fermionic potassium atoms. Physical Review A, 1998, 57, 1136-1138.	2.5	50

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55	Confinement of electrons and ions in a combined trap with the potential for antihydrogen production. <i>Hyperfine Interactions</i> , 1996, 100, 133-144.	0.5	3
56	A compact grating-stabilized diode laser system for atomic physics. <i>Optics Communications</i> , 1995, 117, 541-549.	2.1	325
57	Combined Trap with the Potential for Antihydrogen Production. <i>Physical Review Letters</i> , 1995, 75, 3257-3260.	7.8	48
58	Design for a compact tunable Ti:sapphire laser. <i>Optics Letters</i> , 1995, 20, 297.	3.3	36
59	Generation of cylindrically symmetric magnetic fields with permanent magnets and μ -metal. <i>Applied Physics B: Lasers and Optics</i> , 1994, 59, 195-201.	2.2	6
60	High resolution spectroscopy of the $1S \rightarrow 2S$ transition in atomic hydrogen. <i>AIP Conference Proceedings</i> , 1993, , .	0.4	0
61	Lamb dip and infrared radio frequency double resonance spectroscopy of $^{18}O_4$. <i>Journal of Chemical Physics</i> , 1991, 94, 2509-2512.	3.0	2
62	A neural system for frequency control of tunable laser sources. , 0, , .		1
63	Cooling and Trapping of Potassium. , 0, , .		0
64	Development of a Muon detector for educational purposes.. , 0, , .		0