H Eduardo Roman

List of Publications by Citations

184 papers	4,245 citations	33 h-index	60 g-index
194 ext. papers	4,548 ext. citations	3.4 avg, IF	5.27 L-index

#	Paper	IF	Citations
184	Indication of a Universal Persistence Law Governing Atmospheric Variability. *Physical Review Letters* , **1998**, 81, 729-732	7.4	524
183	Non-Debye relaxation in structurally disordered ionic conductors: Effect of Coulomb interaction. *Physical Review Letters*, **1991**, 66, 52-55	7.4	197
182	Fractional diffusion equation for transport phenomena in random media. *Physica A: Statistical Mechanics and Its Applications*, **1992**, 185, 87-97	3.3	178
181	Dispersed ionic conductors and percolation theory. *Physical Review Letters*, **1985**, 55, 5-8	7.4	155
180	Fractional diffusion equation and relaxation in complex viscoelastic materials. *Physica A: Statistical Mechanics and Its Applications*, **1992**, 191, 449-453	3.3	117
179	Conductivity of dispersed ionic conductors: A percolation model with two critical points. *Physical Review B*, **1986**, 34, 3439-3445	3.3	113
178	Nanocrystalline versus microcrystalline Li(2)O:B(2)O3 composites: anomalous ionic conductivities and percolation theory. *Physical Review Letters*, **2000**, 84, 2889-92	7.4	106
177	Fractional diffusion equation on fractals: one-dimensional case and asymptotic behaviour. *Journal of Physics A*, **1992**, 25, 2093-2105		101
176	**2015**,		79
175	Statistical analysis of correlations and intermittency of a turbulent rotating column in a magnetoplasma device. *Physical Review E*, **2005**, 72, 026403	2.4	79
174	Folding and aggregation of designed proteins. *Proceedings of the National Academy of Sciences of the United States of America*, **1998**, 95, 12930-3	11.5	78
173	Fractional diffusion equation on fractals: three-dimensional case and scattering function. *Journal of Physics A*, **1992**, 25, 2107-2117		77
172	Neutral evolution of model proteins: diffusion in sequence space and overdispersion. *Journal of Theoretical Biology*, **1999**, 200, 49-64	2.3	74
171	Multifractal features of random walks on random fractals. *Physical Review A*, **1990**, 42, 6274-6277	2.6	73
170	Continuous-time random walks and the fractional diffusion equation. *Journal of Physics A*, **1994**, 27, 3407-3410		65
169	Minimum growth probability of diffusion-limited aggregates. *Physical Review Letters*, **1990**, 65, 603-606	7.4	65
168	Structural and dynamical properties of the percolation backbone in two and three dimensions. *Physical Review E*, **1997**, 56, 1667-1675	2.4	64

167	Single-particle and collective degrees of freedom in C60. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **1994**, 27, L643-L649	1.3	63
166	Connectivity of neutral networks, overdispersion, and structural conservation in protein evolution. *Journal of Molecular Evolution*, **2003**, 56, 243-54	3.1	59
165	Folding and misfolding of designed proteinlike chains with mutations. *Journal of Chemical Physics*, **1998**, 108, 757-761	3.9	59
164	Principal eigenvector of contact matrices and hydrophobicity profiles in proteins. *Proteins: Structure, Function and Bioinformatics*, **2005**, 58, 22-30	4.2	57
163	Monte Carlo simulations of the recombination dynamics in porous silicon. *Journal of Physics Condensed Matter*, **1996**, 8, 5161-5187	1.8	56
162	The LIFE DYNAMAP project: Towards a procedure for dynamic noise mapping in urban areas. *Applied Acoustics*, **2017**, 124, 52-60	3.1	55
161	Long-range power-law correlations in local daily temperature fluctuations. *The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties*, **1998**, 77, 1331-1340		50
160	Vibrational excitations in percolation: Localization and multifractality. *Physical Review Letters*, **1992**, 69, 3189-3192	7.4	44
159	Reconstruction of protein structures from a vectorial representation. *Physical Review Letters*, **2004**, 92, 218101	7.4	43
158	Dynamic mechanisms of disorderly growth: Recent approaches to understanding diffusion limited aggregation. *Physica A: Statistical Mechanics and Its Applications*, **1990**, 168, 23-48	3.3	43
157	Statistical properties of neutral evolution. *Journal of Molecular Evolution*, **2003**, 57 Suppl 1, S103-19	3.1	40
156	Diffusion in three-dimensional random systems at their percolation thresholds. *Journal of Statistical Physics*, **1990**, 58, 375-382	1.5	38
155	Particle-size effect on the conductivity of dispersed ionic conductors. *Physical Review B*, **1987**, 36, 7285-7288	3.3	38
154	A protein evolution model with independent sites that reproduces site-specific amino acid distributions from the Protein Data Bank. *BMC Evolutionary Biology*, **2006**, 6, 43	3	36
153	A theory of transport phenomena in disordered systems. *The Chemical Engineering Journal*, **1992**, 49, 1-10		34
152	Multifractal behavior of linear polymers in disordered media. *Physical Review E*, **2000**, 61, 6858-65	2.4	33
151	Discrete wavelet approach to multifractality. *Physica A: Statistical Mechanics and Its Applications*, **1995**, 220, 219-238	3.3	33
150	Characterization of the streamer regime in dielectric barrier discharges. *Journal of Applied Physics*, **2008**, 104, 063309	2.5	32

149	Effects of probability of reaction on annihilation reactions in one dimension. *Journal of Physics A*, **1992**, 25, L255-L260		32
148	Ab-initio study of the electromagnetic response and polarizability properties of carbon chains. *Physics Reports*, **2002**, 357, 459-513	27.7	31
147	Prediction of site-specific amino acid distributions and limits of divergent evolutionary changes in protein sequences. *Molecular Biology and Evolution*, **2005**, 22, 630-8	8.3	31
146	Lack of self-averaging in neutral evolution of proteins. *Physical Review Letters*, **2002**, 89, 208101	7.4	31
145	A continuum percolation model for dispersed ionic conductors. *Journal of Physics Condensed Matter* , **1990**, 2, 3909-3917	1.8	31
144	Renormalization-group decimation technique for spectra, wave functions, and density of states. *Physical Review B*, **1984**, 30, 1603-1605	3.3	31
143	Monitoring and Prediction of Traffic Noise in Large Urban Areas. *Applied Sciences (Switzerland)*, **2018**, 8, 251	2.6	29
142	Electron□phonon coupling in charged buckminsterfullerene. *Chemical Physics Letters*, **1998**, 286, 350-354	2.5	28
141	Beam model for hydraulic fracturing. *Physical Review B*, **1994**, 49, 7056-7059	3.3	28
140	Reliability of Dynamap traffic noise prediction. *Applied Acoustics*, **2019**, 156, 142-150	3.1	27
139	Connectivity, coverage and power consumption in large-scale wireless sensor networks. *Computer Networks*, **2014**, 75, 212-225	5.4	26
138	Stability of Designed Proteins against Mutations. *Physical Review Letters*, **1999**, 82, 4727-4730	7.4	25
137	Structure of random fractals and the probability distribution of random walks. *Physical Review E*, **1995**, 51, 5422-5425	2.4	25
136	Effective-medium approach for the conductivity of dispersed ionic conductors. *Physical Review B*, **1988**, 37, 3696-3698	3.3	25
135	Probability distribution of the shortest path on the percolation cluster, its backbone, and skeleton. *Physical Review E*, **1998**, 58, R5205-R5208	2.4	22
134	Biased diffusion in percolation systems: indication of multifractal behaviour. *Journal of Physics A*, **1987**, 20, L865-L871		22
133	Spreading of infections on random graphs: A percolation-type model for COVID-19. *Chaos, Solitons and Fractals*, **2020**, 139, 110077	9.3	21
132	Solid State Physics of Finite Systems. *Advanced Texts in Physics*, **2004**,		21

131	Biased Diffusion in Chainlike Fractal Structures: Universal Behaviour. *Europhysics Letters*, **1988**, 7, 389-393	1.6	21
130	Accuracy of the Dynamic Acoustic Map in a Large City Generated by Fixed Monitoring Units. *Sensors* , **2020**, 20,	3.8	20
129	Long-time correlations of sea-level and local atmospheric pressure fluctuations at Trieste. *Physica A: Statistical Mechanics and Its Applications*, **2005**, 347, 695-703	3.3	20
128	Transport of disordered structures: Effect of long range interactions. *Solid State Ionics*, **1990**, 40-41, 187-191	3.3	20
127	Electronic properties of a one-dimensional hierarchical system. *Physical Review B*, **1987**, 36, 7173-7176	3.3	20
126	High-current field emission from an atomic quantum wire. *Chemical Physics Letters*, **1997**, 276, 237-241	2.5	19
125	Looking at structure, stability, and evolution of proteins through the principal eigenvector of contact matrices and hydrophobicity profiles. *Gene*, **2005**, 347, 219-30	3.8	18
124	Self-similarity, power-law scaling, and non-Gaussianity of turbulent fluctuation flux in a nonfusion magnetoplasma. *Physics of Plasmas*, **2002**, 9, 3369-3377	2.1	18
123	Localization and typical spatial behavior of fractons. *Physical Review Letters*, **1991**, 66, 1643	7.4	18
122	Self-consistent calculations in spherical metal clusters with uniformly averaged realistic pseudopotentials. *Physical Review B*, **1995**, 52, 8488-8498	3.3	17
121	Statistical analysis of turbulent flux and intermittency in the nonfusion magnetoplasma Blaamann. *Physics of Plasmas*, **2003**, 10, 4335-4340	2.1	15
120	Critical packing fraction of rectangular particles on the square lattice. *Physical Review E*, **2000**, 62, 100-2	2.4	15
119	The valence of small fullerenes. *Chemical Physics Letters*, **1996**, 258, 554-558	2.5	15
118	"Generalized des Cloizeaux" exponent for self-avoiding walks on the incipient percolation cluster. *Physical Review E*, **2001**, 63, 020104	2.4	14
117	Corrections to scaling for diffusion exponents on three-dimensional percolation systems at criticality. *Journal of Statistical Physics*, **1991**, 64, 851-858	1.5	14
116	Skewness, long-time memory, and non-stationarity: Application to leverage effect in financial time series. *Europhysics Letters*, **2008**, 84, 28001	1.6	13
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111	Self-avoiding walks on self-similar structures: finite versus infinite ramification. *Journal of Physics A*, **2002**, 35, 8029-8041		12
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109	Non-fractal features of wavefunctions in one-dimensional disordered systems. *Journal of Physics C: Solid State Physics*, **1986**, 19, L285-L288		12
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107	Fractional derivatives of random walks: time series with long-time memory. *Physical Review E*, **2008**, 78, 031127	2.4	11
106	Recombination dynamics in porous silicon. *Thin Solid Films*, **1995**, 255, 67-69	2.2	11
105	Anomalous Transport on Random Fractal Structures: Stretched Gaussians, Power-Laws and Logarithmic Time Dependences. *Zeitschrift Fur Elektrotechnik Und Elektrochemie*, **1989**, 93, 1205-1208		11
104	Diffusion in a charged lattice gas - a monte carlo study. *Solid State Ionics*, **1990**, 40-41, 184-186	3.3	11
103	Structurally constrained protein evolution: results from a lattice simulation. *European Physical Journal B*, **2000**, 15, 385-397	1.2	10
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101	Vehicle Speed Recognition from Noise Spectral Patterns. *International Journal of Environmental Research*, **2017**, 11, 449-459	2.9	9
100	Statistical investigation of transport barrier effects produced by biasing in a nonfusion magnetoplasma. *Physics of Plasmas*, **2004**, 11, 4564-4572	2.1	9
99	Multifractal analysis of eigenstates in systems with off-diagonal disorder. *Physical Review B*, **1988**, 38, 2948-2951	3.3	9
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97	HOW DOES THE DIFFUSION EQUATION ON FRACTALS LOOK?. *Fractals*, **2004**, 12, 149-156	3.2	8
96	Autoregressive processes with anomalous scaling behavior: applications to high-frequency variations of a stock market index. *Physical Review E*, **2003**, 67, 067103	2.4	8

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94	Range of multifractality for random walks on random fractals. *Physical Review E*, **1993**, 47, 2333-2335	2.4	8
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92	Hierarchical structure of a one-dimensional quasiperiodic model. *Physical Review B*, **1988**, 37, 1399-1401	3.3	8
91	Predicting Hourly Traflc Noise from Traflc Flow Rate Model: Underlying Concepts for the DYNAMAP Project. *Noise Mapping*, **2016**, 3,	4.8	8
90	An Experimental Study of Plasma Cracking of Methane Using DBDs Aimed at Hydrogen Production. *Plasma Chemistry and Plasma Processing*, **2019**, 39, 241-258	3.6	8
89	Scaling model for a speed-dependent vehicle noise spectrum. *Journal of Traffic and Transportation Engineering (English Edition)*, **2017**, 4, 230-239	3.9	7
88	Traffic dispersion graph based anomaly detection **2011**,		7
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82	Nonuniversality of transport exponents in continuum percolation systems: Effects of finite jump distance. *Physical Review B*, **1989**, 39, 893-896	3.3	7
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80	Structure of self-avoiding walks on percolation clusters at criticality. *The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties*, **1998**, 77, 1357-1371		6
79	Distributions of polymers in disordered structures. *Physical Review E*, **1995**, 52, 6303-6307	2.4	6
78	Localized wave functions and multifractal measures. *Physical Review Letters*, **1992**, 68, 2856	7.4	6

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70	Renormalization group decimation technique for disordered binary harmonic chains. *Solid State Communications*, **1984**, 50, 995-998	1.6	5
69	Investigation on clusters stability in DYNAMAP□ monitoring network during Covid-19 outbreak. *Noise Mapping*, **2020**, 7, 276-286	4.8	5
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67	Diffusion on Self-Similar Structures. *Fractals*, **1997**, 05, 379-393	3.2	4
66	FRACTIONAL BROWNIAN MOTION WITH STOCHASTIC VARIANCE: MODELING ABSOLUTE RETURNS IN STOCK MARKETS. *International Journal of Modern Physics C*, **2008**, 19, 1221-1242	1.1	4
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63	Critical dimensions for random walks on random-walk chains. *Physical Review E*, **1996**, 54, 3606-3608	2.4	4
62	Multifractality of random walks and localized excitations on linear random fractals. *Physica A: Statistical Mechanics and Its Applications*, **1992**, 191, 379-385	3.3	4
61	Density functional theory of superionic conductors. *Journal of Physics C: Solid State Physics*, **1986**, 19, L801-L804		4
60	The FAMU experiment: muonic hydrogen high precision spectroscopy studies. *European Physical Journal A*, **2020**, 56, 1	2.5	4

59	Eco-Acoustic Assessment of an Urban Park by Statistical Analysis. *Sustainability*, **2021**, 13, 7857	3.6	4
58	Ion energy distribution functions in a supersonic plasma jet. *Journal of Physics: Conference Series*, **2014**, 550, 012043	0.3	3
57	Mass spectrometry measurements of a low pressure expanding plasma jet. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2015**, 33, 061306	2.9	3
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54	Electrically driven light emission from an array of Si nanoclusters. *Journal Physics D: Applied Physics*, **2004**, 37, 668-673	3	3
53	Equations of motion for polymer chains in a thermostat. *New Journal of Physics*, **2005**, 7, 2-2	2.9	3
52	Experiments and Monte Carlo Simulations on the Recombination Dynamics in Porous Silicon. *Materials Research Society Symposia Proceedings*, **1994**, 358, 549		3
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48	Hydrophilicity and Hydrophobicity Control of Plasma-Treated Surfaces via Fractal Parameters. *Advanced Materials Interfaces*, **2021**, 8, 2100724	4.6	3
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7	Response to Comment on Statistical analysis of turbulent flux and intermittency in the nonfusion magnetoplasma Blaamann [Phys. Plasmas 11, 3679 (2004)]. *Physics of Plasmas*, **2004**, 11, 3682-3683	2.1	
6	Giant resonances and photoemission in atomic quantum wires. *Nuclear Physics A*, **1999**, 649, 440-446	1.3	

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2 Probability Density of Random Walks on Random Fractals: Stretched Gaussians and Multifractal Features. *NATO ASI Series Series B: Physics*, **1990**, 305-307

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