

H Eduardo Roman

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Intermittent structures and quasi-stationary equilibrium in a simple magnetized torus in open field line configuration. <i>Journal of Physics Communications</i> , 2022 , 6, 015010	1.2	
183	Auto-correlations and long time memory of environment sound: The case of an Urban Park in the city of Milan (Italy). <i>Ecological Indicators</i> , 2022 , 134, 108492	5.8	2
182	Pentane Depletion by a Surface DBD and Catalysis Processing. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 4253	2.6	1
181	Spreading of Infections on Network Models: Percolation Clusters and Random Trees. <i>Mathematics</i> , 2021 , 9, 3054	2.3	1
180	Hydrophilicity and Hydrophobicity Control of Plasma-Treated Surfaces via Fractal Parameters (Adv. Mater. Interfaces 19/2021). <i>Advanced Materials Interfaces</i> , 2021 , 8, 2170104	4.6	0
179	Eco-Acoustic Assessment of an Urban Park by Statistical Analysis. <i>Sustainability</i> , 2021 , 13, 7857	3.6	4
178	Estimating market index valuation from macroeconomic trends. <i>Quantitative Finance and Economics</i> , 2021 , 5, 287-310	3.7	3
177	Current Filaments in Asymmetric Surface Dielectric Barrier Discharge. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2079	2.6	6
176	Optimized Sensors Network and Dynamical Maps for Monitoring Traffic Noise in a Large Urban Zone. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 8363	2.6	1
175	Hydrophilicity and Hydrophobicity Control of Plasma-Treated Surfaces via Fractal Parameters. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100724	4.6	3
174	Time dilation effects on Earth surface: Optical lattice clocks measurements. <i>Physical Review D</i> , 2020 , 102,	4.9	1
173	Classification of Urban Road Traffic Noise based on Sound Energy and Eventfulness Indicators. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2451	2.6	12
172	Spreading of infections on random graphs: A percolation-type model for COVID-19. <i>Chaos, Solitons and Fractals</i> , 2020 , 139, 110077	9.3	21
171	Accuracy of the Dynamic Acoustic Map in a Large City Generated by Fixed Monitoring Units. <i>Sensors</i> , 2020 , 20,	3.8	20
170	Investigation on clusters stability in DYNAMAPÈ monitoring network during Covid-19 outbreak. <i>Noise Mapping</i> , 2020 , 7, 276-286	4.8	5
169	The FAMU experiment: muonic hydrogen high precision spectroscopy studies. <i>European Physical Journal A</i> , 2020 , 56, 1	2.5	4
168	Temporal correlations in an urban noise monitoring network. <i>Journal of Physics: Conference Series</i> , 2020 , 1603, 012028	0.3	1

167	Reliability of Dynamap traffic noise prediction. <i>Applied Acoustics</i> , 2019 , 156, 142-150	3.1	27
166	Incubation models for under-threshold laser ablation with thermal dissipation. <i>Applied Physics B: Lasers and Optics</i> , 2019 , 125, 1	1.9	5
165	An Experimental Study of Plasma Cracking of Methane Using DBDs Aimed at Hydrogen Production. <i>Plasma Chemistry and Plasma Processing</i> , 2019 , 39, 241-258	3.6	8
164	Monitoring and Prediction of Traffic Noise in Large Urban Areas. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 251	2.6	29
163	The LIFE DYNAMAP project: Towards a procedure for dynamic noise mapping in urban areas. <i>Applied Acoustics</i> , 2017 , 124, 52-60	3.1	55
162	Vehicle Speed Recognition from Noise Spectral Patterns. <i>International Journal of Environmental Research</i> , 2017 , 11, 449-459	2.9	9
161	Scaling model for a speed-dependent vehicle noise spectrum. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , 2017 , 4, 230-239	3.9	7
160	Ion dynamics in a supersonic jet: Experiments and simulations. <i>Physical Review E</i> , 2016 , 93, 033202	2.4	1
159	Manual actions cover symbolic distances at different speed. <i>Acta Psychologica</i> , 2016 , 169, 56-60	1.7	2
158	Predicting Hourly Traffic Noise from Traffic Flow Rate Model: Underlying Concepts for the DYNAMAP Project. <i>Noise Mapping</i> , 2016 , 3,	4.8	8
157	2015 ,		79
156	Mass spectrometry measurements of a low pressure expanding plasma jet. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2015 , 33, 061306	2.9	3
155	Connectivity, coverage and power consumption in large-scale wireless sensor networks. <i>Computer Networks</i> , 2014 , 75, 212-225	5.4	26
154	Some Fundamental Results on Complex Network Problem for Large-Scale Wireless Sensor Networks. <i>Wireless Personal Communications</i> , 2014 , 77, 2927-2943	1.9	2
153	Ion energy distribution functions in a supersonic plasma jet. <i>Journal of Physics: Conference Series</i> , 2014 , 550, 012043	0.3	3
152	A cooperative medium access control protocol for mobile clusters in wireless body area networks 2013 ,		1
151	Attachment of polymer chains on plasma-treated surfaces: experiments and modeling. <i>New Journal of Physics</i> , 2011 , 13, 059502	2.9	
150	Traffic dispersion graph based anomaly detection 2011 ,		7

149	Attachment of polymer chains on plasma-treated surfaces: experiments and modeling. <i>New Journal of Physics</i> , 2010 , 12, 073008	2.9	6
148	Wavelet analysis of two-dimensional turbulence in a pure electron plasma. <i>Europhysics Letters</i> , 2009 , 85, 35001	1.6	2
147	Fluctuation analysis of proficient and dysgraphic handwriting in children. <i>Europhysics Letters</i> , 2009 , 85, 58007	1.6	3
146	Long-time correlations in company profit fluctuations: presence of extreme events. <i>Physical Review E</i> , 2009 , 80, 036114	2.4	5
145	Characterization of the streamer regime in dielectric barrier discharges. <i>Journal of Applied Physics</i> , 2008 , 104, 063309	2.5	32
144	FRACTIONAL BROWNIAN MOTION WITH STOCHASTIC VARIANCE: MODELING ABSOLUTE RETURNS IN STOCK MARKETS. <i>International Journal of Modern Physics C</i> , 2008 , 19, 1221-1242	1.1	4
143	Skewness, long-time memory, and non-stationarity: Application to leverage effect in financial time series. <i>Europhysics Letters</i> , 2008 , 84, 28001	1.6	13
142	Fractional derivatives of random walks: time series with long-time memory. <i>Physical Review E</i> , 2008 , 78, 031127	2.4	11
141	Extreme fluctuation events in a simple high-density traffic model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008 , 387, 5575-5582	3.3	2
140	Fluctuation analysis of meteo-marine data. <i>European Physical Journal: Special Topics</i> , 2008 , 161, 195-205	2.3	1
139	The Structurally Constrained Neutral Model of Protein Evolution 2007 , 75-112		3
138	Two-dimensional signal reconstruction: the correlation sampling method. <i>Review of Scientific Instruments</i> , 2007 , 78, 123502	1.7	2
137	Temperature-dependent structural behavior of self-avoiding walks on Sierpinski carpets. <i>Physical Review E</i> , 2007 , 76, 061101	2.4	1
136	A protein evolution model with independent sites that reproduces site-specific amino acid distributions from the Protein Data Bank. <i>BMC Evolutionary Biology</i> , 2006 , 6, 43	3	36
135	Modeling cross correlations within a many-assets market. <i>Physical Review E</i> , 2006 , 73, 036129	2.4	7
134	Violation of the des Cloizeaux relation for self-avoiding walks on Sierpinski square lattices. <i>Physical Review E</i> , 2006 , 74, 051102	2.4	5
133	Enhanced light emission in Si-nanoclusters arrays. <i>European Physical Journal B</i> , 2006 , 54, 315-320	1.2	2
132	Looking at structure, stability, and evolution of proteins through the principal eigenvector of contact matrices and hydrophobicity profiles. <i>Gene</i> , 2005 , 347, 219-30	3.8	18

131	Principal eigenvector of contact matrices and hydrophobicity profiles in proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005 , 58, 22-30	4.2	57
130	Equations of motion for polymer chains in a thermostat. <i>New Journal of Physics</i> , 2005 , 7, 2-2	2.9	3
129	Long-time correlations of sea-level and local atmospheric pressure fluctuations at Trieste. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005 , 347, 695-703	3.3	20
128	Effects of Coulomb interaction on charge transport in a silicon-based nanocluster array. <i>European Physical Journal B</i> , 2005 , 46, 207-213	1.2	2
127	The role of quantal fluctuations in the optical response of small metal clusters. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005 , 38, 1581-1589	1.3	1
126	Prediction of site-specific amino acid distributions and limits of divergent evolutionary changes in protein sequences. <i>Molecular Biology and Evolution</i> , 2005 , 22, 630-8	8.3	31
125	Statistical analysis of correlations and intermittency of a turbulent rotating column in a magnetoplasma device. <i>Physical Review E</i> , 2005 , 72, 026403	2.4	79
124	Self-avoiding walks on deterministic and random fractals: Numerical results 2005 , 195-233		
123	Electrically driven light emission from an array of Si nanoclusters. <i>Journal Physics D: Applied Physics</i> , 2004 , 37, 668-673	3	3
122	Reconstruction of protein structures from a vectorial representation. <i>Physical Review Letters</i> , 2004 , 92, 218101	7.4	43
121	Statistical investigation of transport barrier effects produced by biasing in a nonfusion magnetoplasma. <i>Physics of Plasmas</i> , 2004 , 11, 4564-4572	2.1	9
120	HOW DOES THE DIFFUSION EQUATION ON FRACTALS LOOK?. <i>Fractals</i> , 2004 , 12, 149-156	3.2	8
119	Solid State Physics of Finite Systems. <i>Advanced Texts in Physics</i> , 2004 ,		21
118	Response to Comment on Statistical analysis of turbulent flux and intermittency in the nonfusion magnetoplasma Blaamann [Phys. Plasmas 11, 3679 (2004)]. <i>Physics of Plasmas</i> , 2004 , 11, 3682-3683	2.1	
117	Connectivity of neutral networks, overdispersion, and structural conservation in protein evolution. <i>Journal of Molecular Evolution</i> , 2003 , 56, 243-54	3.1	59
116	Statistical properties of neutral evolution. <i>Journal of Molecular Evolution</i> , 2003 , 57 Suppl 1, S103-19	3.1	40
115	Statistical analysis of turbulent flux and intermittency in the nonfusion magnetoplasma Blaamann. <i>Physics of Plasmas</i> , 2003 , 10, 4335-4340	2.1	15
114	Autoregressive processes with anomalous scaling behavior: applications to high-frequency variations of a stock market index. <i>Physical Review E</i> , 2003 , 67, 067103	2.4	8

113	Ab-initio study of the electromagnetic response and polarizability properties of carbon chains. <i>Physics Reports</i> , 2002 , 357, 459-513	27.7	31
112	Self-avoiding walks on Sierpinski lattices in two and three dimensions. <i>Physical Review E</i> , 2002 , 65, 021107	7.4	12
111	Lack of self-averaging in neutral evolution of proteins. <i>Physical Review Letters</i> , 2002 , 89, 208101	7.4	31
110	Autoregressive processes with exponentially decaying probability distribution functions: applications to daily variations of a stock market index. <i>Physical Review E</i> , 2002 , 65, 046149	2.4	4
109	Self-similarity, power-law scaling, and non-Gaussianity of turbulent fluctuation flux in a nonfusion magnetoplasma. <i>Physics of Plasmas</i> , 2002 , 9, 3369-3377	2.1	18
108	Self-avoiding walks on self-similar structures: finite versus infinite ramification. <i>Journal of Physics A</i> , 2002 , 35, 8029-8041		12
107	Asset-asset interactions and clustering in financial markets. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 299, 262-267	3.3	2
106	Li Diffusion in Nano- and Microcrystalline (1-x)Li ₂ O:xB ₂ O ₃ . <i>Defect and Diffusion Forum</i> , 2001 , 194-199, 935-940	0.7	13
105	"Generalized des Cloizeaux" exponent for self-avoiding walks on the incipient percolation cluster. <i>Physical Review E</i> , 2001 , 63, 020104	2.4	14
104	Self-generated power-law tails in probability distributions. <i>Physical Review E</i> , 2001 , 63, 036128	2.4	7
103	Anomalous scaling of stock price dynamics within ARCH-models. <i>European Physical Journal B</i> , 2001 , 21, 155-158	1.2	5
102	AC Conductivity of Porous Silicon from Monte Carlo Simulations. <i>Journal of Porous Materials</i> , 2000 , 7, 107-110	2.4	2
101	Structurally constrained protein evolution: results from a lattice simulation. <i>European Physical Journal B</i> , 2000 , 15, 385-397	1.2	10
100	Electron-phonon interaction in C ₇₀ . <i>Physical Review B</i> , 2000 , 61, 7775-7780	3.3	2
99	Multifractal behavior of linear polymers in disordered media. <i>Physical Review E</i> , 2000 , 61, 6858-65	2.4	33
98	Critical packing fraction of rectangular particles on the square lattice. <i>Physical Review E</i> , 2000 , 62, 100-2	2.4	15
97	Nanocrystalline versus microcrystalline Li ₂ O:B ₂ O ₃ composites: anomalous ionic conductivities and percolation theory. <i>Physical Review Letters</i> , 2000 , 84, 2889-92	7.4	106
96	Stability of Designed Proteins against Mutations. <i>Physical Review Letters</i> , 1999 , 82, 4727-4730	7.4	25

95	Giant resonances and photoemission in atomic quantum wires. <i>Nuclear Physics A</i> , 1999 , 649, 440-446	1.3	
94	Cluster growth at the percolation threshold with a finite lifetime of growth sites. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 266, 92-95	3.3	2
93	Neutral evolution of model proteins: diffusion in sequence space and overdispersion. <i>Journal of Theoretical Biology</i> , 1999 , 200, 49-64	2.3	74
92	Fractal carbon clusters modelling new forms of carbon. <i>Carbon</i> , 1998 , 36, 503-506	10.4	1
91	Electron-phonon coupling in charged buckminsterfullerene. <i>Chemical Physics Letters</i> , 1998 , 286, 350-354	2.5	28
90	Field emission properties of linear carbon clusters. <i>European Physical Journal D</i> , 1998 , 48, 817-820		1
89	Reply to the comment on 'Monte Carlo simulations of the recombination dynamics in porous silicon'. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 1449-1451	1.8	
88	Structure of self-avoiding walks on percolation clusters at criticality. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1998 , 77, 1357-1371		6
87	Probability distribution of the shortest path on the percolation cluster, its backbone, and skeleton. <i>Physical Review E</i> , 1998 , 58, R5205-R5208	2.4	22
86	Indication of a Universal Persistence Law Governing Atmospheric Variability. <i>Physical Review Letters</i> , 1998 , 81, 729-732	7.4	524
85	Folding and misfolding of designed proteinlike chains with mutations. <i>Journal of Chemical Physics</i> , 1998 , 108, 757-761	3.9	59
84	Folding and aggregation of designed proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 12930-3	11.5	78
83	Long-range power-law correlations in local daily temperature fluctuations. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1998 , 77, 1331-1340		50
82	Probability distribution of random walks on self-avoiding walks. <i>Journal of Physics A</i> , 1997 , 30, 3463-3470		
81	Diffusion on Self-Similar Structures. <i>Fractals</i> , 1997 , 05, 379-393	3.2	4
80	Structural and dynamical properties of the percolation backbone in two and three dimensions. <i>Physical Review E</i> , 1997 , 56, 1667-1675	2.4	64
79	Role of the surface in the optical properties of finite systems: from exotic nuclei to atomic quantum wires 1997 , 110, 1157-1163		2
78	Electronic properties of low-dimensional carbon clusters 1997 , 110, 1165-1172		1

77	High-current field emission from an atomic quantum wire. <i>Chemical Physics Letters</i> , 1997 , 276, 237-241	2.5	19
76	Softening the long-wavelength electromagnetic response of finite quantal systems 1997 , 240-249		
75	Monte Carlo simulations of the recombination dynamics in porous silicon. <i>Journal of Physics Condensed Matter</i> , 1996 , 8, 5161-5187	1.8	56
74	Wavelets and multifractality: Application to Anderson localized wave functions. <i>Europhysics Letters</i> , 1996 , 35, 641-646	1.6	7
73	Monolayer metal coverage of fullerenes: the optical response. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1996 , 37, 277-280		4
72	Evolution of the plasmon spectrum of C ₂₈ H _n with the passivation of dangling bonds. <i>Chemical Physics Letters</i> , 1996 , 258, 559-561	2.5	1
71	Long wavelength optical response of incipient fullerene nanotubes. <i>Chemical Physics Letters</i> , 1996 , 251, 111-114	2.5	7
70	The valence of small fullerenes. <i>Chemical Physics Letters</i> , 1996 , 258, 554-558	2.5	15
69	Gesetzmäßigkeiten der Unordnung. <i>Physik in Unserer Zeit</i> , 1996 , 27, 246-256	0.1	2
68	Critical dimensions for random walks on random-walk chains. <i>Physical Review E</i> , 1996 , 54, 3606-3608	2.4	4
67	LOCALIZATION OF FRACTONS, RANDOM WALKS AND LINEAR POLYMERS IN PERCOLATION. <i>Fractals</i> , 1996 , 04, 355-367	3.2	2
66	Discrete wavelet approach to multifractality. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1995 , 220, 219-238	3.3	33
65	Electromagnetic response of quasispheroidal fullerene C ₇₀ . <i>Chemical Physics Letters</i> , 1995 , 247, 502-506	2.5	8
64	Recombination dynamics in porous silicon. <i>Thin Solid Films</i> , 1995 , 255, 67-69	2.2	11
63	Distributions of polymers in disordered structures. <i>Physical Review E</i> , 1995 , 52, 6303-6307	2.4	6
62	Self-consistent calculations in spherical metal clusters with uniformly averaged realistic pseudopotentials. <i>Physical Review B</i> , 1995 , 52, 8488-8498	3.3	17
61	Structure of random fractals and the probability distribution of random walks. <i>Physical Review E</i> , 1995 , 51, 5422-5425	2.4	25
60	Beam model for hydraulic fracturing. <i>Physical Review B</i> , 1994 , 49, 7056-7059	3.3	28

59	Oscillations of finite quantal fermi systems. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1994 , 31, 181-185		
58	Single-particle and collective degrees of freedom in C60. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1994 , 27, L643-L649	1.3	63
57	Continuous-time random walks and the fractional diffusion equation. <i>Journal of Physics A</i> , 1994 , 27, 3407-3410	65	
56	Experiments and Monte Carlo Simulations on the Recombination Dynamics in Porous Silicon. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 358, 549		3
55	Range of multifractality for random walks on random fractals. <i>Physical Review E</i> , 1993 , 47, 2333-2335	2.4	8
54	Multifractal fluctuations in the dynamics of disordered systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1993 , 194, 288-297	3.3	2
53	Effects of probability of reaction on annihilation reactions in one dimension. <i>Journal of Physics A</i> , 1992 , 25, L255-L260		32
52	Vibrational excitations in percolation: Localization and multifractality. <i>Physical Review Letters</i> , 1992 , 69, 3189-3192	7.4	44
51	Localized wave functions and multifractal measures. <i>Physical Review Letters</i> , 1992 , 68, 2856	7.4	6
50	Fractional diffusion equation on fractals: three-dimensional case and scattering function. <i>Journal of Physics A</i> , 1992 , 25, 2107-2117		77
49	Fractional diffusion equation on fractals: one-dimensional case and asymptotic behaviour. <i>Journal of Physics A</i> , 1992 , 25, 2093-2105		101
48	Fractional diffusion equation for transport phenomena in random media. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992 , 185, 87-97	3.3	178
47	Multifractality of random walks and localized excitations on linear random fractals. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992 , 191, 379-385	3.3	4
46	Fractional diffusion equation and relaxation in complex viscoelastic materials. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992 , 191, 449-453	3.3	117
45	A theory of transport phenomena in disordered systems. <i>The Chemical Engineering Journal</i> , 1992 , 49, 1-10		34
44	Vibrations and random walks on random fractals: Anomalous behaviour and multifractality. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1992 , 65, 191-211		8
43	Corrections to scaling for diffusion exponents on three-dimensional percolation systems at criticality. <i>Journal of Statistical Physics</i> , 1991 , 64, 851-858	1.5	14
42	Vibrational density of states of general two-component random mixtures near percolation thresholds. <i>Journal of Physics Condensed Matter</i> , 1991 , 3, 4797-4807	1.8	7

41	Localization and typical spatial behavior of fractons. <i>Physical Review Letters</i> , 1991 , 66, 1643	7.4	18
40	Non-Debye relaxation in structurally disordered ionic conductors: Effect of Coulomb interaction. <i>Physical Review Letters</i> , 1991 , 66, 52-55	7.4	197
39	Hierarchically constrained dynamics on self-similar structures. <i>Journal of Non-Crystalline Solids</i> , 1991 , 131-133, 207-209	3.9	1
38	Transport in dispersed ionic conductors: Effect of insulating particle size. <i>Phase Transitions</i> , 1990 , 24-26, 435-461	1.3	3
37	Diffusion in three-dimensional random systems at their percolation thresholds. <i>Journal of Statistical Physics</i> , 1990 , 58, 375-382	1.5	38
36	Dynamic mechanisms of disorderly growth: Recent approaches to understanding diffusion limited aggregation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1990 , 168, 23-48	3.3	43
35	Density functional theory of superionic conductor surfaces. <i>Solid State Communications</i> , 1990 , 76, 281-283	1	1
34	Diffusion in a charged lattice gas - a monte carlo study. <i>Solid State Ionics</i> , 1990 , 40-41, 184-186	3.3	11
33	Transport of disordered structures: Effect of long range interactions. <i>Solid State Ionics</i> , 1990 , 40-41, 187-191	3.9	20
32	Density-functional approach for superionic conductors: effects of host-lattice deformations. <i>Journal of Physics Condensed Matter</i> , 1990 , 2, 8813-8825	1.8	1
31	Multifractal features of random walks on random fractals. <i>Physical Review A</i> , 1990 , 42, 6274-6277	2.6	73
30	Minimum growth probability of diffusion-limited aggregates. <i>Physical Review Letters</i> , 1990 , 65, 603-606	7.4	65
29	A continuum percolation model for dispersed ionic conductors. <i>Journal of Physics Condensed Matter</i> , 1990 , 2, 3909-3917	1.8	31
28	Probability Density of Random Walks on Random Fractals: Stretched Gaussians and Multifractal Features. <i>NATO ASI Series Series B: Physics</i> , 1990 , 305-307		
27	Phase transition in diffusion-limited aggregations. <i>Physical Review Letters</i> , 1989 , 63, 1189	7.4	12
26	Nonuniversality of transport exponents in continuum percolation systems: Effects of finite jump distance. <i>Physical Review B</i> , 1989 , 39, 893-896	3.3	7
25	Anomalous Transport on Random Fractal Structures: Stretched Gaussians, Power-Laws and Logarithmic Time Dependences. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1989 , 93, 1205-1208		11
24	On the field dependence of random walks in the presence of random fields. <i>Journal of Statistical Physics</i> , 1988 , 50, 1271-1276	1.5	12

23	Theory of density profiles in AgI-type superionic compounds. <i>Solid State Ionics</i> , 1988 , 28-30, 58-62	3.3	5
22	Effective-medium approach for the conductivity of dispersed ionic conductors. <i>Physical Review B</i> , 1988 , 37, 3696-3698	3.3	25
21	Comment on "Self-similarity of fluctuations in random multiplicative processes". <i>Physical Review Letters</i> , 1988 , 61, 1037	7.4	3
20	Multifractal analysis of eigenstates in systems with off-diagonal disorder. <i>Physical Review B</i> , 1988 , 38, 2948-2951	3.3	9
19	Hierarchical structure of a one-dimensional quasiperiodic model. <i>Physical Review B</i> , 1988 , 37, 1399-1401	3.3	8
18	Fractal measures of diffusion in the presence of random fields. <i>Physical Review A</i> , 1988 , 38, 2185-2188	2.6	10
17	Biased Diffusion in Chainlike Fractal Structures: Universal Behaviour. <i>Europhysics Letters</i> , 1988 , 7, 389-393	3.6	21
16	Localization properties in linear models through decimation. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1988 , 57, 149-165		6
15	Biased diffusion in percolation systems: indication of multifractal behaviour. <i>Journal of Physics A</i> , 1987 , 20, L865-L871		22
14	Particle-size effect on the conductivity of dispersed ionic conductors. <i>Physical Review B</i> , 1987 , 36, 7285-7288	3.3	38
13	Electronic properties of a one-dimensional hierarchical system. <i>Physical Review B</i> , 1987 , 36, 7173-7176	3.3	20
12	Near band centre states for one-dimensional off-diagonal disordered systems. <i>European Physical Journal B</i> , 1987 , 69, 81-85	1.2	5
11	Non-fractal features of wavefunctions in one-dimensional disordered systems. <i>Journal of Physics C: Solid State Physics</i> , 1986 , 19, L285-L288		12
10	Density functional theory of superionic conductors. <i>Journal of Physics C: Solid State Physics</i> , 1986 , 19, L801-L804		4
9	Conductivity of dispersed ionic conductors: A percolation model with two critical points. <i>Physical Review B</i> , 1986 , 34, 3439-3445	3.3	113
8	Classical fluid in a periodic potential and the density-functional approach. <i>Physical Review A</i> , 1985 , 32, 3726-3729	2.6	9
7	Dispersed ionic conductors and percolation theory. <i>Physical Review Letters</i> , 1985 , 55, 5-8	7.4	155
6	Renormalization-group decimation technique for spectra, wave functions, and density of states. <i>Physical Review B</i> , 1984 , 30, 1603-1605	3.3	31

5	Renormalization group decimation technique for disordered binary harmonic chains. <i>Solid State Communications</i> , 1984 , 50, 995-998	1.6	5
4	Ground-state properties and optical excitations of a solvated electron in molten alkali halides. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1984 , 3, 509-521		1
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