

Michael F Shlesinger

List of Publications by Year in descending order

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69
papers

5,212
citations

201674

27
h-index

123424

61
g-index

72
all docs

72
docs citations

72
times ranked

2776
citing authors

#	ARTICLE	IF	CITATIONS
1	Origins and applications of the Montroll-Weiss continuous time random walk. <i>European Physical Journal B</i> , 2017, 90, 1.	1.5	24
2	Switching strategies to optimize search. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016, 2016, 033402.	2.3	1
3	Fractional motions. <i>Physics Reports</i> , 2013, 527, 101-129.	25.6	87
4	Noise cascades and Lévy correlations. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 392001.	2.1	0
5	Langevin unification of fractional motions. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 162002.	2.1	6
6	Random searching. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 434001.	2.1	39
7	Anomalous diffusion producing normal relaxation and transport. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 065121.	1.8	4
8	Search research. <i>Nature</i> , 2006, 443, 281-282.	27.8	187
9	Follow the money. <i>Nature Physics</i> , 2006, 2, 69-70.	16.7	8
10	Duplicate publication and "paper inflation"™ in the fractals literature. <i>Science and Engineering Ethics</i> , 2006, 12, 543-554.	2.9	13
11	CAB: Citation-Assisted Background. <i>Scientometrics</i> , 2005, 62, 199-212.	3.0	32
12	NONLINEAR DYNAMICS TEXT MINING USING BIBLIOMETRICS AND DATABASE TOMOGRAPHY. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2004, 14, 61-92.	1.7	15
13	Sources of exponents. <i>Physica D: Nonlinear Phenomena</i> , 2004, 193, 67-72.	2.8	2
14	FRACTALS TEXT MINING USING BIBLIOMETRICS AND DATABASE TOMOGRAPHY. <i>Fractals</i> , 2004, 12, 1-16.	3.7	27
15	Designing Human m1 Muscarinic Receptor-Targeted Hydrophobic Eigenmode Matched Peptides as Functional Modulators. <i>Biophysical Journal</i> , 2004, 86, 1308-1331.	0.5	8
16	WHY CONDUCTIVITY DECREASES WITH PRESSURE IN ION-DOPED POLYMERS. <i>Fractals</i> , 2003, 11, 93-97.	3.7	3
17	Cellular and Behavioral Effects of D2 Dopamine Receptor Hydrophobic Eigenmode-Targeted Peptide Ligands. <i>Neuropsychopharmacology</i> , 2003, 28, S98-S107.	5.4	8
18	Anomalous defect diffusion near the glass transition. <i>Chemical Physics</i> , 2002, 284, 311-317.	1.9	13

#	ARTICLE	IF	CITATIONS
19	A New Vogel-Like Law: Ionic Conductivity, Dielectric Relaxation, and Viscosity near the Glass Transition. <i>Physical Review Letters</i> , 2001, 87, 195503.	7.8	82
20	Physics in the noise. <i>Nature</i> , 2001, 411, 641-641.	27.8	28
21	Protein binding predictions from amino acid primary sequence hydrophobicity. <i>Journal of Molecular Liquids</i> , 2000, 86, 163-171.	4.9	5
22	Predicting Peptide~Receptor, Peptide~Protein, and Chaperone~Protein Binding Using Patterns in Amino Acid Hydrophobic Free Energy Sequences. <i>Journal of Physical Chemistry B</i> , 2000, 104, 3953-3959.	2.6	7
23	Mode matches in hydrophobic free energy eigenfunctions predict peptide~protein interactions. <i>Biopolymers</i> , 1998, 46, 89-101.	2.4	32
24	Hydrophobic Free Energy Eigenfunctions of Pore, Channel, and Transporter Proteins Contain \hat{I}^2 -Burst Patterns. <i>Biophysical Journal</i> , 1998, 75, 2332-2342.	0.5	18
25	Wavelet transformation of protein hydrophobicity sequences suggests their memberships in structural families. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 244, 254-262.	2.6	46
26	Beyond Brownian Motion. <i>Physics Today</i> , 1996, 49, 33-39.	0.3	643
27	Stretched Times and Divergent Time Scales. , 1995, , 189-196.		1
28	Strange kinetics. <i>Nature</i> , 1993, 363, 31-37.	27.8	1,024
29	Comment on ~Analysis of the dispersive diffusion of atoms in disordered solids~. <i>Physical Review Letters</i> , 1992, 68, 414-414.	7.8	4
30	New paths for random walkers. <i>Nature</i> , 1992, 355, 396-397.	27.8	28
31	Time-Scale Invariance in Transport and Relaxation. <i>Physics Today</i> , 1991, 44, 26-34.	0.3	516
32	The Arrhenius Law versus the Vogel Law. , 1990, , 161-166.		1
33	ON THE UBIQUITY OF $1/f$ NOISE. <i>International Journal of Modern Physics B</i> , 1989, 03, 795-819.	2.0	145
34	Levy flights: Variations on a theme. <i>Physica D: Nonlinear Phenomena</i> , 1989, 38, 304-309.	2.8	36
35	The Stretched Exponential, The Vogel Law, and All That. <i>NATO ASI Series Series B: Physics</i> , 1989, , 347-352.	0.2	1
36	Generalized Vogel law for glass-forming liquids. <i>Journal of Statistical Physics</i> , 1988, 53, 531-541.	1.2	96

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37	Fractal time symmetry in the glass transition. Nuclear Physics, Section B, Proceedings Supplements, 1988, 5, 82-85.	0.4	11
38	Polymer melt dynamics model with a relaxation time exponent of 10/3. Macromolecules, 1988, 21, 521-523.	4.8	22
39	Fractal Time and 1/f Noise in Complex Systems. Annals of the New York Academy of Sciences, 1987, 504, 214-228.	3.8	112
40	Defect-diffusion models of relaxation. Journal of Molecular Liquids, 1987, 36, 37-46.	4.9	66
41	Diffusion in a turbulent phase space. Lecture Notes in Physics, 1987, , 69-71.	0.7	0
42	Barrier Distributions and Defect Migration in Glasses. Annals of the New York Academy of Sciences, 1986, 484, 300-301.	3.8	0
43	On the Riemann hypothesis: A fractal random walk approach. Physica A: Statistical Mechanics and Its Applications, 1986, 138, 310-319.	2.6	13
44	On reptation in polymer melts. Journal of Chemical Physics, 1986, 84, 5922-5924.	3.0	21
45	L ^α Walks Versus L ^α Flights. , 1986, , 279-283.		112
46	Derivation of the Kohlrausch-Williams/Watts decay law from activation-energy dispersion. Macromolecules, 1985, 18, 591-592.	4.8	101
47	Williams-watts dielectric relaxation: A fractal time stochastic process. Journal of Statistical Physics, 1984, 36, 639-648.	1.2	131
48	Random walk of dislocations following a high-velocity impact. Journal of Statistical Physics, 1983, 30, 527-535.	1.2	4
49	Maximum entropy formalism, fractals, scaling phenomena, and 1/f noise: A tale of tails. Journal of Statistical Physics, 1983, 32, 209-230.	1.2	302
50	Weierstrassian Levy flights and self-avoiding random walks. Journal of Chemical Physics, 1983, 78, 416-419.	3.0	20
51	On the wedding of certain dynamical processes in disordered complex materials to the theory of stable (L ^α) distribution functions. Lecture Notes in Mathematics, 1983, , 109-137.	0.2	5
52	Fractal stochastic processes: Clusters and intermittancies. Lecture Notes in Mathematics, 1983, , 138-152.	0.2	8
53	Lattice dynamics, random walks, and nonintegral effective dimensionality. Journal of Mathematical Physics, 1982, 23, 1688-1692.	1.1	22
54	On the expected number of distinct points in a subset visited by an N-step random walk. Journal of Statistical Physics, 1982, 27, 355-363.	1.2	7

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55	Random walks with infinite spatial and temporal moments. Journal of Statistical Physics, 1982, 27, 499-512.	1.2	308
56	Analogues of renormalization group transformations in random processes. Physica A: Statistical Mechanics and Its Applications, 1981, 109, 597-608.	2.6	108
57	Hopping controlled time dependent reaction rates for the scavenging of electrons in glasses. Journal of Non-Crystalline Solids, 1980, 40, 19-29.	3.1	1
58	SOLUTIONS OF PHYSICAL STOCHASTIC PROCESSES VIA MAPPINGS ONTO IDEAL AND DEFECTIVE RANDOM WALK LATTICES**Work supported by U. S. DOE Contract No. EG-77-S-05-5489.. , 1980, , 151-246.		3
59	Electron scavenging in glasses. Journal of Chemical Physics, 1979, 70, 4813-4818.	3.0	53
60	Correlation effects on frequency dependent conductivity: Application to superionic conductors. Solid State Communications, 1979, 32, 1207-1210.	1.9	21
61	Stochastic theory of multistate diffusion in perfect and defective systems. II. Case studies. Physical Review B, 1979, 19, 6220-6237.	3.2	35
62	Stochastic theory of multistate diffusion in perfect and defective systems. I. Mathematical formalism. Physical Review B, 1979, 19, 6207-6219.	3.2	48
63	Diffusion processes in defective crystals and multistate diffusion. Solid State Communications, 1978, 27, 939-942.	1.9	12
64	Stochastic Theory of Bimolecular, Heterogeneous, Surface Catalytic Reactions. Physical Review Letters, 1978, 41, 1174-1178.	7.8	6
65	Motion of Clusters on Surfaces. Physical Review Letters, 1977, 38, 285-289.	7.8	25
66	Cluster motion on surfaces: A stochastic model. Physical Review B, 1977, 16, 3389-3405.	3.2	32
67	Random Walks and Gamma Functions. , 1977, , 507-519.		2
68	Asymptotic solutions of continuous-time random walks. Journal of Statistical Physics, 1974, 10, 421-434.	1.2	400
69	Random Processes with Infinite Moments. , 0, , 75-91.		1