Juan P Garrahan

List of Publications by Year
in descending order

167 papers	8,604 citations	41344 49 h-index	48315 88 g-index
167 all docs	167 docs citations	167 times ranked	3919 citing authors

#	Article	IF	Citations
1	Finite Time Large Deviations via Matrix Product States. Physical Review Letters, 2022, 128, 090605.	7.8	14
2	Exact solution of the â€œRule 150â€•reversible cellular automaton. Physical Review E, 2022, 105, 034124.	2.1	4
3	Hierarchical classical metastability in an open quantum East model. Physical Review E, 2022, 105, 044121.	2.1	4
4	Random matrix theory for quantum and classical metastability in local Liouvillians. Physical Review B, 2022, 105, .	3.2	7
5	A reinforcement learning approach to rare trajectory sampling. New Journal of Physics, 2021, 23, 013013.	2.9	35
6	Optimal sampling of dynamical large deviations via matrix product states. Physical Review E, 2021, 103, 062144.	2.1	16
7	Theory of classical metastability in open quantum systems. Physical Review Research, 2021, 3, .	3.6	21
8	Large Deviations at Level 2.5 for Markovian Open Quantum Systems: Quantum Jumps and Quantum State Diffusion. Journal of Statistical Physics, 2021, 184, 1.	1.2	27
9	Symmetry-induced fluctuation relations in open quantum systems. Physical Review E, 2021, 104, 014108.	2.1	3
10	Solvable class of non-Markovian quantum multipartite dynamics. Physical Review A, 2021, 104, .	2.5	3
11	Reinforcement learning of rare diffusive dynamics. Journal of Chemical Physics, 2021, 155, 134105.	3.0	17
12	Exact solution of the Floquet-PXP cellular automaton. Physical Review E, 2020, 102, 062107.	2.1	14
13	Symmetry-induced fluctuation relations for dynamical observables irrespective of their behavior under time reversal. Physical Review E, 2020, 101, 062142.	2.1	4
14	Quantum East Model: Localization, Nonthermal Eigenstates, and Slow Dynamics. Physical Review X, 2020, 10, .	8.9	57
15	Nonequilibrium Quantum Many-Body Rydberg Atom Engine. Physical Review Letters, 2020, 124, 170602.	7.8	27
16	Trajectory phase transitions in noninteracting spin systems. Physical Review E, 2020, 101, 042115.	2.1	14
17	Matrix product state of multi-time correlations. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 335001.	2.1	15
18	A deep learning functional estimator of optimal dynamics for sampling large deviations. Machine Learning: Science and Technology, 2020, 1, 035004.	5.0	15

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19	Dynamics and large deviation transitions of the XOR-Fredrickson-Andersen kinetically constrained model. Physical Review E, 2020, 102, 052132.	2.1	15
20	Preface: Special issue â€˜Unifying Concepts in Glass Physics VIIâ€™. Journal of Statistical Mechanics: Theory and Experiment, 2020, 2020, 104001.	2.3	0
21	Strong zero modes in a class of generalized Ising spin ladders with plaquette interactions. Physical Review B, 2019, 100, .	3.2	14
22	Physical swap dynamics, shortcuts to relaxation, and entropy production in dissipative Rydberg gases. Physical Review E, 2019, 100, 012110.	2.1	1
23	Ordering, flexibility and frustration in arrays of porphyrin nanorings. Nature Communications, 2019, 10, 2932.	12.8	16
24	Exact large deviation statistics and trajectory phase transition of a deterministic boundary driven cellular automaton. Physical Review E, 2019, 100, 020103.	2.1	23
25	Using Matrix Product States to Study the Dynamical Large Deviations of Kinetically Constrained Models. Physical Review Letters, 2019, 123, 200601.	7.8	39
26	Accelerated relaxation and suppressed dynamic heterogeneity in a kinetically constrained (East) model with swaps. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 094006.	2.3	7
27	Theory for Glassy Behavior of Supercooled Liquid Mixtures. Physical Review Letters, 2019, 123, 100602.	7.8	6
28	Localization in spin chains with facilitation constraints and disordered interactions. Physical Review A, 2019, 99, .	2.5	23
29	Coherence, entanglement, and quantumness in closed and open systems with conserved charge, with an application to many-body localization. Physical Review A, 2019, 99, .	2.5	16
30	Non-equilibrium absorbing state phase transitions in discrete-time quantum cellular automaton dynamics on spin lattices. Quantum Science and Technology, 2019, 4, 02LT02.	5.8	16
31	Quantum accelerated approach to the thermal state of classical all-to-all connected spin systems with applications to pattern retrieval in the Hopfield neural network. Physical Review A, 2019, 99, .	2.5	7
32	Unraveling the Large Deviation Statistics of Markovian Open Quantum Systems. Physical Review Letters, 2019, 122, 130605.	7.8	97
33	Aspects of non-equilibrium in classical and quantum systems: Slow relaxation and glasses, dynamical large deviations, quantum non-ergodicity, and open quantum dynamics. Physica A: Statistical Mechanics and Its Applications, 2018, 504, 130-154.	2.6	95
34	Rare behavior of growth processes via umbrella sampling of trajectories. Physical Review E, 2018, 97, 032123.	2.1	46
35	Catching and reversing quantum jumps and thermodynamics of quantum trajectories. Physical Review A, 2018, 98, .	2.5	6
36	Dynamical criticality in open systems: Nonperturbative physics, microscopic origin, and direct observation. Physical Review E, 2018, 98, .	2.1	11

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37	Unified Thermodynamic Uncertainty Relations in Linear Response. Physical Review Letters, 2018, 121, 130601.	7.8	90
38	Enhancing correlation times for edge spins through dissipation. Physical Review B, 2018, 98, .	3.2	26
39	Current fluctuations in boundary-driven quantum spin chains. Physical Review B, 2018, 98, .	3.2	19
40	Phases of quantum dimers from ensembles of classical stochastic trajectories. Physical Review B, 2018, 98, .	3.2	19
41	Glassy dynamics due to a trajectory phase transition in dissipative Rydberg gases. Physical Review A, 2018, 98, .	2.5	12
42	Solvation in Space-time: Pretransition Effects in Trajectory Space. Physical Review Letters, 2018, 120, 260602.	7.8	10
43	Quantum Slow Relaxation and Metastability due to Dynamical Constraints. Physical Review Letters, 2018, 121, 040603.	7.8	74
44	Making rare events typical in Markovian open quantum systems. Physical Review A, 2018, 98, .	2.5	67
45	Spectral properties of simple classical and quantum reset processes. Physical Review E, 2018, 98, 022129.	2.1	45
46	Virtual Issue in Memory of David Chandler. Journal of Physical Chemistry B, 2017, 121, 5309-5311.	2.6	0
47	Simple bounds on fluctuations and uncertainty relations for first-passage times of counting observables. Physical Review E, 2017, 95, 032134.	2.1	102
48	Similarity of ensembles of trajectories of reversible and irreversible growth processes. Physical Review E, 2017, 96, 042126.	2.1	14
49	Fluctuating hydrodynamics, current fluctuations, and hyperuniformity in boundary-driven open quantum chains. Physical Review E, 2017, 96, 052118.	2.1	35
50	Metastable decoherence-free subspaces and electromagnetically induced transparency in interacting many-body systems. Physical Review A, 2017, 96, .	2.5	7
51	Role of interactions in a dissipative many-body localized system. Physical Review B, 2017, 95, .	3.2	41
52	Experimental Determination of Dynamical Lee-Yang Zeros. Physical Review Letters, 2017, 118, 180601.	7.8	77
53	Study of the upper-critical dimension of the East model through the breakdown of the Stokes-Einstein relation. Journal of Chemical Physics, 2017, 147, 084504.	3.0	2
54	Metastability in an open quantum Ising model. Physical Review E, 2016, 94, 052132.	2.1	42

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55	Signatures of many-body localisation in a system without disorder and the relation to a glass transition. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 054047.	2.3	56
56	Classical stochastic dynamics and continuous matrix product states: gauge transformations, conditioned and driven processes, and equivalence of trajectory ensembles. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 073208.	2.3	23
57	Front propagation versus bulk relaxation in the annealing dynamics of a kinetically constrained model of ultrastable glasses. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 074005.	2.3	20
58	Dynamical phase transitions as a resource for quantum enhanced metrology. Physical Review A, 2016, 93, .	2.5	60
59	Emergence of cooperative dynamics in fully packed classical dimers. Physical Review E, 2016, 93, 032129.	2.1	8
60	Phase Transition for Quenched Coupled Replicas in a Plaquette Spin Model of Glasses. Physical Review Letters, 2016, 116, 055702.	7.8	32
61	Robustness of Many-Body Localization in the Presence of Dissipation. Physical Review Letters, 2016, 116, 237203.	7.8	115
62	Towards a Theory of Metastability in Open Quantum Dynamics. Physical Review Letters, 2016, 116, 240404.	7.8	132
63	Applicability of Dynamic Facilitation Theory to Binary Hard Disk Systems. Physical Review Letters, 2016, 117, 145701.	7.8	25
64	Non-equilibrium fluctuations and metastability arising from non-additive interactions in dissipative multi-component Rydberg gases. New Journal of Physics, 2016, 18, 093054.	2.9	3
65	Dynamics of many-body localization in a translation-invariant quantum glass model. Physical Review B, 2015, 92, .	3.2	110
66	Equivalence of matrix product ensembles of trajectories in open quantum systems. Physical Review E, 2015, 92, 012132.	2.1	17
67	Overlap and activity glass transitions in plaquette spin models with hierarchical dynamics. Physical Review E, 2015, 92, 022115.	2.1	21
68	Using the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>s</mml:mi></mml:math>ensemble to probe glasses formed by cooling and aging. Physical Review E, 2015, 92, 022304.	2.1	12
69	Self-similar nonequilibrium dynamics of a many-body system with power-law interactions. Physical Review E, 2015, 92, 062144.	2.1	11
70	Crystalline structures and frustration in a two-component Rydberg gas. New Journal of Physics, 2015, 17, 123017.	2.9	10
71	Generic map from non-Lindblad to Lindblad master equations. Physical Review A, 2015, 91, .	2.5	13
72	Open quantum reaction-diffusion dynamics: Absorbing states and relaxation. Physical Review E, 2015, 91, 032132.	2.1	8

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73	Emergent Rhombus Tilings from Molecular Interactions with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>M</mml:mi></mml:math> -fold Rotational Symmetry. Physical Review Letters, 2015, 114, 115702.	7.8	18
74	Spatial Complementarity and the Coexistence of Species. PLoS ONE, 2014, 9, e114979.	2.5	14
75	Meta-work and the analogous Jarzynski relation in ensembles of dynamical trajectories. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P09017.	2.3	4
76	Trajectory phases of a quantum dot model. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 505001.	2.1	5
77	Transition in coupled replicas may not imply a finite-temperature ideal glass transition in glass-forming systems. Physical Review E, 2014, 89, 030301.	2.1	20
78	Out-of-equilibrium structures in strongly interacting Rydberg gases with dissipation. Physical Review A, 2014, 90, .	2.5	91
79	Rare-event trajectory ensemble analysis reveals metastable dynamical phases in lattice proteins. Physical Review E, 2014, 89, 032109.	2.1	24
80	Intermittency and dynamical Lee-Yang zeros of open quantum systems. Physical Review E, 2014, 90, 062128.	2.1	22
81	Common Physical Framework Explains Phase Behavior and Dynamics of Atomic, Molecular, and Polymeric Network Formers. Physical Review X, 2014, 4, .	8.9	16
82	Localization in space and time in disordered-lattice open quantum dynamics. Physical Review E, 2014, 89, 042129.	2.1	9
83	Dynamical phase transitions, time-integrated observables, and geometry of states. Physical Review B, 2014, 89, .	3.2	47
84	Cumulants of time-integrated observables of closed quantum systems andPTsymmetry with an application to the quantum Ising chain. Physical Review B, 2014, 90, .	3.2	4
85	Out-of-equilibrium evolution of kinetically constrained many-body quantum systems under purely dissipative dynamics. Physical Review E, 2014, 90, 042147.	2.1	19
86	Fluctuating observation time ensembles in the thermodynamics of trajectories. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P03012.	2.3	32
87	Universal Nonequilibrium Properties of Dissipative Rydberg Gases. Physical Review Letters, 2014, 113, 210401.	7.8	115
88	Trajectory phase transitions and dynamical Lee-Yang zeros of the Glauber-Ising chain. Physical Review E, 2013, 88, 012119.	2.1	18
89	Trajectory Phase Transitions, Lee-Yang Zeros, and High-Order Cumulants in Full Counting Statistics. Physical Review Letters, 2013, 110, 050601.	7.8	79
90	Perspective: The glass transition. Journal of Chemical Physics, 2013, 138, 12A301.	3.0	287

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91	Characterization of Dynamical Phase Transitions in Quantum Jump Trajectories Beyond the Properties of the Stationary State. Physical Review Letters, 2013, 110, 150401.	7.8	62
92	Kinetic Constraints, Hierarchical Relaxation, and Onset of Glassiness in Strongly Interacting and Dissipative Rydberg Gases. Physical Review Letters, 2013, 111, 215305.	7.8	98
93	Time-integrated observables as order parameters for full counting statistics transitions in closed quantum systems. Physical Review B, 2013, 87, .	3.2	31
94	Calorimetric glass transition explained by hierarchical dynamic facilitation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4482-4487.	7.1	81
95	Inactive dynamical phase of a symmetric exclusion process on a ring. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 175001.	2.1	52
96	Dynamical phases and intermittency of the dissipative quantum Ising model. Physical Review A, 2012, 85, .	2.5	133
97	Phase transitions in trajectories of a superconducting single-electron transistor coupled to a resonator. Physical Review E, 2012, 85, 051122.	2.1	24
98	Random and Ordered Phases of Off-Lattice Rhombus Tiles. Physical Review Letters, 2012, 108, 035702.	7.8	28
99	Thermodynamics of quadrature trajectories in open quantum systems. Physical Review A, 2012, 86, .	2.5	32
100	Thermalization of a Strongly Interacting Closed Spin System: From Coherent Many-Body Dynamics to a Fokker-Planck Equation. Physical Review Letters, 2012, 108, 110603.	7.8	47
101	Broken symmetry and the variation of critical properties in the phase behaviour of supramolecular rhombus tilings. Nature Chemistry, 2012, 4, 112-117.	13.6	60
102	Facilitated Spin Models of Dissipative Quantum Glasses. Physical Review Letters, 2012, 109, 020403.	7.8	50
103	Comparison of implicit solvent models and force fields in molecular dynamics simulations of the PB1 domain. Chemical Physics Letters, 2011, 515, 283-289.	2.6	5
104	Excitations Are Localized and Relaxation Is Hierarchical in Glass-Forming Liquids. Physical Review X, 2011, 1, .	8.9	151
105	Publisherâ€™s Note: Excitations are localized and relaxation is hierarchical in glass-forming liquids [Phys. Rev. X1, 021013 (2011)]. Physical Review X, 2011, 1, .	8.9	14
106	Quantum trajectory phase transitions in the micromaser. Physical Review E, 2011, 84, 021115.	2.1	43
107	Preparation and Relaxation of Very Stable Glassy States of a Simulated Liquid. Physical Review Letters, 2011, 107, 275702.	7.8	48
108	Dynamic heterogeneity comes to life. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4701-4702.	7.1	51

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109	Thermodynamics of trajectories of the one-dimensional Ising model. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P12011.	2.3	10
110	Kinetically constrained models. , 2011, , 341-369.		36
111	Thermodynamics of Quantum Jump Trajectories. Physical Review Letters, 2010, 104, 160601.	7.8	209
112	Metastable states and space-time phase transitions in a spin-glass model. Physical Review E, 2010, 81, 011111.	2.1	36
113	Finite-temperature critical point of a glass transition. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12793-12798.	7.1	70
114	Thermalization in a Coherently Driven Ensemble of Two-Level Systems. Physical Review Letters, 2010, 105, 100603.	7.8	36
115	Corresponding States of Structural Glass Formers. II. Journal of Physical Chemistry B, 2010, 114, 17113-17119.	2.6	98
116	Entropically stabilized growth of a two-dimensional random tiling. Physical Review E, 2010, 82, 041109.	2.1	7
117	Dynamics on the Way to Forming Glass: Bubbles in Space-Time. Annual Review of Physical Chemistry, 2010, 61, 191-217.	10.8	405
118	Molecular random tilings as glasses. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15209-15213.	7.1	33
119	First-order dynamical phase transition in models of glasses: an approach based on ensembles of histories. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 075007.	2.1	272
120	Corresponding States of Structural Glass Formers. Journal of Physical Chemistry B, 2009, 113, 5563-5567.	2.6	207
121	The Limited Role of Nonnative Contacts in the Folding Pathways of a Lattice Protein. Journal of Molecular Biology, 2009, 392, 1303-1314.	4.2	40
122	Dynamic Order-Disorder in Atomistic Models of Structural Glass Formers. Science, 2009, 323, 1309-1313.	12.6	333
123	Dynamic facilitation explains â€˜democraticâ€™ particle motion of metabasin transitions. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 324006.	2.1	2
124	Random Tiling and Topological Defects in a Two-Dimensional Molecular Network. Science, 2008, 322, 1077-1081.	12.6	224
125	Negative differential mobility of weakly driven particles in models of glass formers. Physical Review E, 2008, 78, 011506.	2.1	58
126	Decoupling of exchange and persistence times in atomistic models of glass formers. Journal of Chemical Physics, 2007, 127, 211101.	3.0	84

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127	Non-equilibrium dynamics of spin facilitated glass models. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P07017-P07017.	2.3	28
128	Dynamic propensity in a kinetically constrained lattice gas. Journal of Physics Condensed Matter, 2007, 19, 205124.	1.8	8
129	Fluctuation-dissipation relations in plaquette spin systems with multi-stage relaxation. Journal of Statistical Mechanics: Theory and Experiment, 2006, 2006, P12005-P12005.	2.3	15
130	Space-time thermodynamics and subsystem observables in a kinetically constrained model of glassy materials. Journal of Chemical Physics, 2006, 125, 184509.	3.0	60
131	Lengthscale dependence of dynamic four-point susceptibilities in glass formers. Physical Review E, 2006, 74, 051501.	2.1	85
132	Decoupling of Self-Diffusion and Structural Relaxation during a Fragile-to-Strong Crossover in a Kinetically Constrained Lattice Gas. ChemPhysChem, 2005, 6, 1783-1785.	2.1	16
133	Fast simulation of facilitated spin models. Journal of Statistical Mechanics: Theory and Experiment, 2005, 2005, P12010-P12010.	2.3	14
134	Thermodynamics of coarse-grained models of supercooled liquids. Journal of Chemical Physics, 2005, 123, 044511.	3.0	18
135	Dynamical exchanges in facilitated models of supercooled liquids. Journal of Chemical Physics, 2005, 123, 084509.	3.0	93
136	Glassy behavior in an exactly solved spin system with a ferromagnetic transition. Physical Review E, 2005, 71, 036112.	2.1	8
137	Static and dynamic length scales in a simple glassy plaquette model. Physical Review E, 2005, 72, 016103.	2.1	31
138	Caging and mosaic length scales in plaquette spin models of glasses. Journal of Chemical Physics, 2005, 123, 164508.	3.0	46
139	Renormalization group study of a kinetically constrained model for strong glasses. Physical Review E, 2005, 71, 026128.	2.1	49
140	Heterogeneity and growing length scales in the dynamics of kinetically constrained lattice gases in two dimensions. Physical Review E, 2005, 72, 041106.	2.1	83
141	Space-time thermodynamics of the glass transition. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10837-10840.	7.1	180
142	Dynamic heterogeneity in the Glauberâ€“Ising chain. Journal of Statistical Mechanics: Theory and Experiment, 2005, 2005, P05002.	2.3	9
143	Numerical Study of a Fragile Three-Dimensional Kinetically Constrained Model. Journal of Physical Chemistry B, 2005, 109, 3578-3585.	2.6	54
144	Dynamic Criticality in Glass-Forming Liquids. Physical Review Letters, 2004, 92, 185705.	7.8	163

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145	Reply to â€œComment on â€˜Fluctuation-dissipation relations in the nonequilibrium critical dynamics of Ising modelsâ€™ â€• Physical Review E, 2004, 70, .	2.1	14
146	Facilitated spin models in one dimension: A real-space renormalization group study. Physical Review E, 2004, 70, 046129.	2.1	7
147	Geometrical Picture of Dynamical Facilitation. Journal of Physical Chemistry B, 2004, 108, 6611-6615.	2.6	26
148	Excitation lines and the breakdown of Stokes-Einstein relations in supercooled liquids. Physical Review E, 2004, 69, 061205.	2.1	200
149	Nontopographic description of inherent structure dynamics in glassformers. Journal of Chemical Physics, 2003, 119, 4367-4371.	3.0	74
150	Real space origin of temperature crossovers in supercooled liquids. Physical Review E, 2003, 68, 041201.	2.1	106
151	Coarse-grained microscopic model of glass formers. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 9710-9714.	7.1	291
152	Geometrical Explanation and Scaling of Dynamical Heterogeneities in Glass Forming Systems. Physical Review Letters, 2002, 89, 035704.	7.8	383
153	Fluctuation-Dissipation Relations in the Activated Regime of Simple Strong-Glass Models. Physical Review Letters, 2002, 88, 225702.	7.8	32
154	Crossover from fragile to strong glassy behaviour in the spin facilitated chain model. Journal of Physics Condensed Matter, 2002, 14, 1499-1507.	1.8	7
155	Glassy behaviour in simple kinetically constrained models: topological networks, lattice analogues and annihilation-diffusion. Journal of Physics Condensed Matter, 2002, 14, 1673-1682.	1.8	10
156	Glassiness through the emergence of effective dynamical constraints in interacting systems. Journal of Physics Condensed Matter, 2002, 14, 1571-1579.	1.8	48
157	Statistical physics of adaptive correlation of agents in a market. AIP Conference Proceedings, 2001, , .	0.4	2
158	Crossover from fragile to strong glassy behavior in kinetically constrained systems. Physical Review E, 2001, 64, 021505.	2.1	25
159	THE THERMAL MINORITY GAME. International Journal of Theoretical and Applied Finance, 2000, 03, 455-460.	0.5	2
160	Continuous time dynamics of the thermal minority game. Physical Review E, 2000, 62, R9-R12.	2.1	48
161	Cavagnaet al.Reply:. Physical Review Letters, 2000, 85, 5009-5009.	7.8	13
162	Glassiness and constrained dynamics of a short-range nondisordered spin model. Physical Review E, 2000, 62, 7670-7678.	2.1	65

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163	Index distribution of random matrices with an application to disordered systems. Physical Review B, 2000, 61, 3960-3970.	3.2	38
164	Thermal Model for Adaptive Competition in a Market. Physical Review Letters, 1999, 83, 4429-4432.	7.8	139
165	Energy distribution of maxima and minima in a one-dimensional random system. Physical Review E, 1999, 59, 2808-2811.	2.1	21
166	Lagrangian Becchi-Rouet-Stora-Tyutin treatment of collective coordinates. Physical Review D, 1996, 53, 7176-7186.	4.7	3
167	Becchi-Rouet-Stora-Tyutin quantization of a soliton model in 2+1 dimensions. Physical Review D, 1995, 51, 2950-2958.	4.7	3