

Mason A Porter

List of Publications by Year in descending order

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165
papers

13,770
citations

34105

52
h-index

23533

111
g-index

173
all docs

173
docs citations

173
times ranked

11126
citing authors

#	ARTICLE	IF	CITATIONS
1	A Bounded-Confidence Model of Opinion Dynamics on Hypergraphs. <i>SIAM Journal on Applied Dynamical Systems</i> , 2022, 21, 1-32.	1.6	13
2	In-degree centrality in a social network is linked to coordinated neural activity. <i>Nature Communications</i> , 2022, 13, 1118.	12.8	20
3	Topological Data Analysis of Spatial Systems. <i>Understanding Complex Systems</i> , 2022, , 389-399.	0.6	3
4	Role detection in bicycle-sharing networks using multilayer stochastic block models. <i>Network Science</i> , 2022, 10, 46-81.	1.0	1
5	Networks of necessity: Simulating COVID-19 mitigation strategies for disabled people and their caregivers. <i>PLoS Computational Biology</i> , 2022, 18, e1010042.	3.2	3
6	Pull out all the stops: Textual analysis via punctuation sequences. <i>European Journal of Applied Mathematics</i> , 2021, 32, 1069-1105.	2.9	2
7	Social network analysis for social neuroscientists. <i>Social Cognitive and Affective Neuroscience</i> , 2021, 16, 883-901.	3.0	28
8	Random-graph models and characterization of granular networks. <i>Journal of Complex Networks</i> , 2021, 8, .	1.8	5
9	Persistent Homology of Geospatial Data: A Case Study with Voting. <i>SIAM Review</i> , 2021, 63, 67-99.	9.5	17
10	Models of continuous-time networks with tie decay, diffusion, and convection. <i>Physical Review E</i> , 2021, 103, 022304.	2.1	2
11	Tie-Decay Networks in Continuous Time and Eigenvector-Based Centralities. <i>IEEE Transactions on Network Science and Engineering</i> , 2021, 8, 1759-1771.	6.4	8
12	Nonlinear localized modes in two-dimensional hexagonally-packed magnetic lattices. <i>New Journal of Physics</i> , 2021, 23, 043008.	2.9	12
13	Topological data analysis of task-based fMRI data from experiments on schizophrenia. <i>Journal of Physics Complexity</i> , 2021, 2, 035006.	2.2	17
14	Opinion dynamics on tie-decay networks. <i>Physical Review Research</i> , 2021, 3, .	3.6	3
15	Tunable Eigenvector-Based Centralities for Multiplex and Temporal Networks. <i>Multiscale Modeling and Simulation</i> , 2021, 19, 113-147.	1.6	22
16	Epidemic thresholds of infectious diseases on tie-decay networks. <i>Journal of Complex Networks</i> , 2021, 10, .	1.8	0
17	Detection of functional communities in networks of randomly coupled oscillators using the dynamic-mode decomposition. <i>Physical Review E</i> , 2021, 104, 044305.	2.1	1
18	Nanoptera in Weakly Nonlinear Woodpile Chains and Diatomic Granular Chains. <i>SIAM Journal on Applied Dynamical Systems</i> , 2021, 20, 2412-2449.	1.6	5

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19	Motifs for Processes on Networks. SIAM Journal on Applied Dynamical Systems, 2021, 20, 2516-2557.	1.6	9
20	Classical and Quantum Random-Walk Centrality Measures in Multilayer Networks. SIAM Journal on Applied Mathematics, 2021, 81, 2704-2724.	1.8	7
21	A multilayer network model of the coevolution of the spread of a disease and competing opinions. Mathematical Models and Methods in Applied Sciences, 2021, 31, 2455-2494.	3.3	27
22	Stochastic Block Models are a Discrete Surface Tension. Journal of Nonlinear Science, 2020, 30, 2429-2462.	2.1	3
23	Dominance, sharing, and assessment in an iterated Hawk-Dove game. Journal of Theoretical Biology, 2020, 493, 110101.	1.7	10
24	Forecasting Elections Using Compartmental Models of Infection. SIAM Review, 2020, 62, 837-865.	9.5	14
25	Fitting in and breaking up: A nonlinear version of coevolving voter models. Physical Review E, 2020, 101, 062303.	2.1	7
26	Spatial strength centrality and the effect of spatial embeddings on network architecture. Physical Review E, 2020, 101, 062305.	2.1	2
27	Nonlinearity + Networks: A 2020 Vision. Advances in Dynamics, Patterns, Cognition, 2020, , 131-159.	0.3	21
28	Inference of edge correlations in multilayer networks. Physical Review E, 2020, 102, 062307.	2.1	5
29	A model for the influence of media on the ideology of content in online social networks. Physical Review Research, 2020, 2, .	3.6	34
30	A framework for the construction of generative models for mesoscale structure in multilayer networks. Physical Review Research, 2020, 2, .	3.6	23
31	Spatial applications of topological data analysis: Cities, snowflakes, random structures, and spiders spinning under the influence. Physical Review Research, 2020, 2, .	3.6	24
32	Counterparty Credit Limits: The Impact of a Risk-Mitigation Measure on Everyday Trading. Applied Mathematical Finance, 2020, 27, 520-548.	1.2	0
33	Forecasting failure locations in 2-dimensional disordered lattices. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16742-16749.	7.1	21
34	Nonlinear excitations in magnetic lattices with long-range interactions. New Journal of Physics, 2019, 21, 063032.	2.9	17
35	Multivariate Spatiotemporal Hawkes Processes and Network Reconstruction. SIAM Journal on Mathematics of Data Science, 2019, 1, 356-382.	1.8	26
36	The use of multilayer network analysis in animal behaviour. Animal Behaviour, 2019, 149, 7-22.	1.9	116

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37	Effect of antipsychotics on community structure in functional brain networks. <i>Journal of Complex Networks</i> , 2019, 7, 932-960.	1.8	12
38	Hipsters on networks: How a minority group of individuals can lead to an antiestablishment majority. <i>Physical Review E</i> , 2019, 99, 022313.	2.1	23
39	Relating Modularity Maximization and Stochastic Block Models in Multilayer Networks. <i>SIAM Journal on Mathematics of Data Science</i> , 2019, 1, 667-698.	1.8	16
40	Customer mobility and congestion in supermarkets. <i>Physical Review E</i> , 2019, 100, 062304.	2.1	9
41	Opinion formation and distribution in a bounded-confidence model on various networks. <i>Physical Review E</i> , 2018, 97, 022312.	2.1	36
42	Complex contagions with timers. <i>Chaos</i> , 2018, 28, 033101.	2.5	13
43	Can Multilayer Networks Advance Animal Behavior Research?. <i>Trends in Ecology and Evolution</i> , 2018, 33, 376-378.	8.7	62
44	Network analysis of particles and grains. <i>Journal of Complex Networks</i> , 2018, 6, 485-565.	1.8	113
45	Synergistic effects in threshold models on networks. <i>Chaos</i> , 2018, 28, 013115.	2.5	14
46	Direct measurement of superdiffusive energy transport in disordered granular chains. <i>Nature Communications</i> , 2018, 9, 640.	12.8	20
47	Isomorphisms in Multilayer Networks. <i>IEEE Transactions on Network Science and Engineering</i> , 2018, 5, 198-211.	6.4	14
48	Frequency-based brain networks: From a multiplex framework to a full multilayer description. <i>Network Neuroscience</i> , 2018, 2, 418-441.	2.6	56
49	Layer Communities in Multiplex Networks. <i>Journal of Statistical Physics</i> , 2018, 173, 1286-1302.	1.2	14
50	Neither global nor local: Heterogeneous connectivity in spatial network structures of world migration. <i>Social Networks</i> , 2018, 53, 4-19.	2.1	35
51	Motor primitives in space and time via targeted gain modulation in cortical networks. <i>Nature Neuroscience</i> , 2018, 21, 1774-1783.	14.8	87
52	Female <i>Drosophila melanogaster</i> respond to song-amplitude modulations. <i>Biology Open</i> , 2018, 7, .	1.2	3
53	Inferring parameters of prey switching in a 1 predator–2 prey plankton system with a linear preference tradeoff. <i>Journal of Theoretical Biology</i> , 2018, 456, 108-122.	1.7	4
54	Nanoptera in a Period-2 Toda Chain. <i>SIAM Journal on Applied Dynamical Systems</i> , 2018, 17, 1182-1212.	1.6	22

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55	Topological data analysis of continuum percolation with disks. <i>Physical Review E</i> , 2018, 98, 012318.	2.1	28
56	Quasiperiodic granular chains and Hofstadter butterflies. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170139.	3.4	15
57	What Is... a Multilayer Network?. <i>Notices of the American Mathematical Society</i> , 2018, 65, 1.	0.2	16
58	A local perspective on community structure in multilayer networks. <i>Network Science</i> , 2017, 5, 144-163.	1.0	42
59	Quasi-centralized limit order books. <i>Quantitative Finance</i> , 2017, 17, 831-853.	1.7	5
60	A Predator–2 Prey Fast–Slow Dynamical System for Rapid Predator Evolution. <i>SIAM Journal on Applied Dynamical Systems</i> , 2017, 16, 54-90.	1.6	17
61	Persistent homology of time-dependent functional networks constructed from coupled time series. <i>Chaos</i> , 2017, 27, 047410.	2.5	73
62	Modeling the lowest-cost splitting of a herd of cows by optimizing a cost function. <i>Chaos</i> , 2017, 27, 063114.	2.5	4
63	Eigenvector-Based Centrality Measures for Temporal Networks. <i>Multiscale Modeling and Simulation</i> , 2017, 15, 537-574.	1.6	120
64	The multilayer nature of ecological networks. <i>Nature Ecology and Evolution</i> , 2017, 1, 101.	7.8	383
65	Random walks and diffusion on networks. <i>Physics Reports</i> , 2017, 716-717, 1-58.	25.6	420
66	Nonlinear coherent structures in granular crystals. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 413003.	1.8	64
67	Core-Periphery Structure in Networks (Revisited). <i>SIAM Review</i> , 2017, 59, 619-646.	9.5	96
68	Mean-field approach to evolving spatial networks, with an application to osteocyte network formation. <i>Physical Review E</i> , 2017, 96, 012301.	2.1	13
69	Numerical methods for the computation of the confluent and Gauss hypergeometric functions. <i>Numerical Algorithms</i> , 2017, 74, 821-866.	1.9	40
70	A roadmap for the computation of persistent homology. <i>EPJ Data Science</i> , 2017, 6, 17.	2.8	371
71	Mesoscale analyses of fungal networks as an approach for quantifying phenotypic traits. <i>Journal of Complex Networks</i> , 2016, , cnv034.	1.8	11
72	Detection of core–periphery structure in networks using spectral methods and geodesic paths. <i>European Journal of Applied Mathematics</i> , 2016, 27, 846-887.	2.9	54

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73	Network analysis and modelling: Special issue of <i>European Journal of Applied Mathematics</i> . <i>European Journal of Applied Mathematics</i> , 2016, 27, 807-811.	2.9	5
74	Dynamical Systems on Networks. <i>Frontiers in Applied Dynamical Systems: Reviews and Tutorials</i> , 2016, , .	0.5	151
75	Heterogeneous, weakly coupled map lattices. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016, 36, 549-563.	3.3	1
76	The physics of spreading processes in multilayer networks. <i>Nature Physics</i> , 2016, 12, 901-906.	16.7	430
77	Superdiffusive transport and energy localization in disordered granular crystals. <i>Physical Review E</i> , 2016, 93, 022902.	2.1	28
78	Scattering of waves by impurities in precompressed granular chains. <i>Physical Review E</i> , 2016, 93, 052224.	2.1	19
79	What are essential concepts about networks?. <i>Journal of Complex Networks</i> , 2016, 4, 457-474.	1.8	16
80	Community Detection in Temporal Multilayer Networks, with an Application to Correlation Networks. <i>Multiscale Modeling and Simulation</i> , 2016, 14, 1-41.	1.6	151
81	Null models for community detection in spatially embedded, temporal networks. <i>Journal of Complex Networks</i> , 2016, 4, 363-406.	1.8	56
82	Lost in transportation: Information measures and cognitive limits in multilayer navigation. <i>Science Advances</i> , 2016, 2, e1500445.	10.3	48
83	Estimating interevent time distributions from finite observation periods in communication networks. <i>Physical Review E</i> , 2015, 92, 052813.	2.1	37
84	Granular crystals: Nonlinear dynamics meets materials engineering. <i>Physics Today</i> , 2015, 68, 44-50.	0.3	101
85	Extraction of force-chain network architecture in granular materials using community detection. <i>Soft Matter</i> , 2015, 11, 2731-2744.	2.7	98
86	Think locally, act locally: Detection of small, medium-sized, and large communities in large networks. <i>Physical Review E</i> , 2015, 91, 012821.	2.1	88
87	Topological data analysis of contagion maps for examining spreading processes on networks. <i>Nature Communications</i> , 2015, 6, 7723.	12.8	90
88	MuxViz: a tool for multilayer analysis and visualization of networks. <i>Journal of Complex Networks</i> , 2015, 3, 159-176.	1.8	271
89	Convergence Time towards Periodic Orbits in Discrete Dynamical Systems. <i>PLoS ONE</i> , 2014, 9, e92652.	2.5	2
90	Dynamics on modular networks with heterogeneous correlations. <i>Chaos</i> , 2014, 24, 023106.	2.5	30

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91	Matchmaker, Matchmaker, Make Me a Match: Migration of Populations via Marriages in the Past. <i>Physical Review X</i> , 2014, 4, .	8.9	9
92	Density-based and transport-based core-periphery structures in networks. <i>Physical Review E</i> , 2014, 89, 032810.	2.1	43
93	Prey Switching with a Linear Preference Trade-Off. <i>SIAM Journal on Applied Dynamical Systems</i> , 2014, 13, 658-682.	1.6	35
94	Cross-linked structure of network evolution. <i>Chaos</i> , 2014, 24, 013112.	2.5	68
95	A simple generative model of collective online behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10411-10415.	7.1	78
96	Core-Periphery Structure in Networks. <i>SIAM Journal on Applied Mathematics</i> , 2014, 74, 167-190.	1.8	265
97	Commentary: Teach network science to teenagers. <i>Network Science</i> , 2013, 1, 226-247.	1.0	13
98	Multi-stage complex contagions. <i>Chaos</i> , 2013, 23, 013124.	2.5	94
99	Robust detection of dynamic community structure in networks. <i>Chaos</i> , 2013, 23, 013142.	2.5	400
100	Dark solitary waves in a class of collisionally inhomogeneous Bose-Einstein condensates. <i>Physical Review A</i> , 2013, 87, .	2.5	8
101	Mathematical Formulation of Multilayer Networks. <i>Physical Review X</i> , 2013, 3, .	8.9	513
102	Task-Based Core-Periphery Organization of Human Brain Dynamics. <i>PLoS Computational Biology</i> , 2013, 9, e1003171.	3.2	302
103	A Method Based on Total Variation for Network Modularity Optimization Using the MBO Scheme. <i>SIAM Journal on Applied Mathematics</i> , 2013, 73, 2224-2246.	1.8	29
104	Limit order books. <i>Quantitative Finance</i> , 2013, 13, 1709-1742.	1.7	191
105	Dynamic network centrality summarizes learning in the human brain. <i>Journal of Complex Networks</i> , 2013, 1, 83-92.	1.8	60
106	Taxonomies of networks from community structure. <i>Physical Review E</i> , 2012, 86, 036104-36104.	2.1	79
107	Generalized master equations for non-Poisson dynamics on networks. <i>Physical Review E</i> , 2012, 86, 046102.	2.1	68
108	Influence of network topology on sound propagation in granular materials. <i>Physical Review E</i> , 2012, 86, 041306.	2.1	100

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109	Multislice Modularity Optimization in Community Detection and Image Segmentation. , 2012, , .		5
110	Geosocial Graph-Based Community Detection. , 2012, , .		2
111	Differential Recruitment of the Sensorimotor Putamen and Frontoparietal Cortex during Motor Chunking in Humans. <i>Neuron</i> , 2012, 74, 936-946.	8.1	233
112	Critical Truths About Power Laws. <i>Science</i> , 2012, 335, 665-666.	12.6	501
113	The Extraordinary SVD. <i>American Mathematical Monthly</i> , 2012, 119, 838.	0.3	42
114	Accuracy of mean-field theory for dynamics on real-world networks. <i>Physical Review E</i> , 2012, 85, 026106.	2.1	113
115	Dynamical clustering of exchange rates. <i>Quantitative Finance</i> , 2012, 12, 1493-1520.	1.7	50
116	Community structure in the United Nations General Assembly. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 343-361.	2.6	47
117	Social structure of Facebook networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 4165-4180.	2.6	420
118	Small-world network. <i>Scholarpedia Journal</i> , 2012, 7, 1739.	0.3	34
119	Comparing Community Structure to Characteristics in Online Collegiate Social Networks. <i>SIAM Review</i> , 2011, 53, 526-543.	9.5	315
120	A mathematical model for the dynamics and synchronization of cows. <i>Physica D: Nonlinear Phenomena</i> , 2011, 240, 1497-1509.	2.8	20
121	Mathematical genealogy and department prestige. <i>Chaos</i> , 2011, 21, 041104.	2.5	18
122	The unreasonable effectiveness of tree-based theory for networks with clustering. <i>Physical Review E</i> , 2011, 83, 036112.	2.1	111
123	Dynamic reconfiguration of human brain networks during learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7641-7646.	7.1	1,399
124	Mutually-antagonistic interactions in baseball networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 1131-1141.	2.6	27
125	Revisiting Date and Party Hubs: Novel Approaches to Role Assignment in Protein Interaction Networks. <i>PLoS Computational Biology</i> , 2010, 6, e1000817.	3.2	128
126	Communities in multislice voting networks. <i>Chaos</i> , 2010, 20, 041108.	2.5	48

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127	Discrete Breathers in One-Dimensional Diatomic Granular Crystals. <i>Physical Review Letters</i> , 2010, 104, 244302.	7.8	224
128	Intrinsic energy localization through discrete gap breathers in one-dimensional diatomic granular crystals. <i>Physical Review E</i> , 2010, 82, 056604.	2.1	77
129	Nonlinear waves in disordered diatomic granular chains. <i>Physical Review E</i> , 2010, 82, 021301.	2.1	51
130	Community Structure in Time-Dependent, Multiscale, and Multiplex Networks. <i>Science</i> , 2010, 328, 876-878.	12.6	1,655
131	Competition for popularity in bipartite networks. <i>Chaos</i> , 2010, 20, 043101.	2.5	20
132	Localized breathing modes in granular crystals with defects. <i>Physical Review E</i> , 2009, 80, 066601.	2.1	85
133	Optimal Design of Composite Granular Protectors. <i>Mechanics of Advanced Materials and Structures</i> , 2009, 17, 1-19.	2.6	112
134	Highly nonlinear solitary waves in heterogeneous periodic granular media. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 666-676.	2.8	105
135	Comment on "Bifurcation analysis of parametrically excited bipolar disorder model". <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 2844.	3.3	1
136	Mathematical models of bipolar disorder. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 2897-2908.	3.3	36
137	Dissipative Solitary Waves in Granular Crystals. <i>Physical Review Letters</i> , 2009, 102, 024102.	7.8	116
138	Fermi, Pasta, Ulam and the Birth of Experimental Mathematics. <i>American Scientist</i> , 2009, 97, 214.	0.1	57
139	Community structure in Congressional cosponsorship networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 1705-1712.	2.6	125
140	Matter-wave solitons with a periodic, piecewise-constant scattering length. <i>Physical Review A</i> , 2008, 78, .	2.5	45
141	Averaging of nonlinearity management with dissipation. <i>Physical Review A</i> , 2008, 78, .	2.5	6
142	Highly nonlinear solitary waves in periodic dimer granular chains. <i>Physical Review E</i> , 2008, 77, 015601.	2.1	103
143	Random Walker Ranking for NCAA Division I-A Football. <i>American Mathematical Monthly</i> , 2007, 114, 761-777.	0.3	63
144	Community structure in the United States House of Representatives. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 386, 414-438.	2.6	78

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145	Quasiperiodic Dynamics in Bose-Einstein Condensates in Periodic Lattices and Superlattices. <i>Journal of Nonlinear Science</i> , 2007, 17, 59-83.	2.1	16
146	Modulated amplitude waves in collisionally inhomogeneous Bose-Einstein condensates. <i>Physica D: Nonlinear Phenomena</i> , 2007, 229, 104-115.	2.8	45
147	Modulational Instability in a Layered Kerr Medium: Theory and Experiment. <i>Physical Review Letters</i> , 2006, 97, 234101.	7.8	38
148	Dynamics and manipulation of matter-wave solitons in optical superlattices. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 352, 210-215.	2.1	30
149	SPATIAL RESONANCE OVERLAP IN BOSE-EINSTEIN CONDENSATES IN SUPERLATTICE POTENTIALS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2006, 16, 945-959.	1.7	6
150	A network analysis of committees in the U.S. House of Representatives. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 7057-7062.	7.1	168
151	Bose-Einstein Condensates in Superlattices. <i>SIAM Journal on Applied Dynamical Systems</i> , 2005, 4, 783-807.	1.6	19
152	Nonlinear lattice dynamics of Bose-Einstein condensates. <i>Chaos</i> , 2005, 15, 015115.	2.5	38
153	Modulated amplitude waves in Bose-Einstein condensates. <i>Physical Review E</i> , 2004, 69, 047201.	2.1	22
154	A perturbative analysis of modulated amplitude waves in Bose-Einstein condensates. <i>Chaos</i> , 2004, 14, 739-755.	2.5	15
155	Energy absorption and dissipation in quantum systems. <i>Physica D: Nonlinear Phenomena</i> , 2004, 195, 398-402.	2.8	2
156	Resonant and non-resonant modulated amplitude waves for binary Bose-Einstein condensates in optical lattices. <i>Physica D: Nonlinear Phenomena</i> , 2004, 196, 106-123.	2.8	26
157	A GalÃ«rkin approach to electronic near-degeneracies in molecular systems. <i>Physica D: Nonlinear Phenomena</i> , 2002, 167, 218-247.	2.8	0
158	Prime Quasientropy and Quasichaos. <i>International Journal of Theoretical Physics</i> , 2002, 41, 1389-1395.	1.2	1
159	Remarks on whale cultures from a complex systems perspective. <i>Behavioral and Brain Sciences</i> , 2001, 24, 344-344.	0.7	0
160	VIBRATING QUANTUM BILLIARDS ON RIEMANNIAN MANIFOLDS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2001, 11, 2305-2315.	1.7	6
161	BIFURCATIONS IN ONE DEGREE-OF-VIBRATION QUANTUM BILLIARDS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2001, 11, 903-911.	1.7	5
162	QUANTUM CHAOS FOR THE VIBRATING RECTANGULAR BILLIARD. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2001, 11, 2317-2337.	1.7	2

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163	Nonadiabatic dynamics in semiquantal physics. Reports on Progress in Physics, 2001, 64, 1165-1189.	20.1	9
164	Chaos on the Quantum Scale. American Scientist, 2001, 89, 532.	0.1	3
165	Connecting the Dots: Discovering the "Shape" of Data. Frontiers for Young Minds, 0, 9, .	0.8	1