Liang Huang

List of Publications by Year
in descending order

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129 papers	2,615 citations	201575 27 h-index	233338 45 g-index
129 all docs	129 docs citations	129 times ranked	2111 citing authors

#	Article	IF	Citations
1	Generic behavior of master-stability functions in coupled nonlinear dynamical systems. Physical Review E, 2009, 80, 036204.	0.8	226
2	A simple method to synthesize continuous large area nitrogen-doped graphene. Carbon, 2012, 50, 4476-4482.	5.4	139
3	Abnormal Synchronization in Complex Clustered Networks. Physical Review Letters, 2006, 97, 164101.	2.9	129
4	Tetradentate Pt(II) Complexes with 6-Membered Chelate Rings: A New Route for Stable and Efficient Blue Organic Light Emitting Diodes. Chemistry of Materials, 2016, 28, 3276-3282.	3.2	129
5	Tetradentate Platinum Complexes for Efficient and Stable Excimerâ€Based White OLEDs. Advanced Functional Materials, 2014, 24, 6066-6073.	7.8	107
6	Relativistic quantum level-spacing statistics in chaotic graphene billiards. Physical Review E, 2010, 81, 055203.	0.8	95
7	Nonlinear Dynamics and Quantum Entanglement in Optomechanical Systems. Physical Review Letters, 2014, 112, 110406.	2.9	90
8	Relativistic Quantum Scars. Physical Review Letters, 2009, 103, 054101.	2.9	75
9	Information propagation on modular networks. Physical Review E, 2006, 73, 035103.	0.8	57
10	Understanding and preventing cascading breakdown in complex clustered networks. Physical Review E, 2008, 78, 036116.	0.8	45
11	Geographical effects on cascading breakdowns of scale-free networks. Physical Review E, 2006, 73, 036102.	0.8	40
12	Scaling of noisy fluctuations in complex networks and applications to network prediction. Physical Review E, 2009, 80, 016116.	0.8	39
13	Selectivity-based spreading dynamics on complex networks. Physical Review E, 2008, 78, 026111.	0.8	38
14	Extensively Chaotic Motion in Electrostatically Driven Nanowires and Applications. Nano Letters, 2010, 10, 406-413.	4.5	38
15	Quantum chaotic scattering in graphene systems. Europhysics Letters, 2011, 94, 40004.	0.7	38
16	Relativistic quantum chaos. Physics Reports, 2018, 753, 1-128.	10.3	38
17	Effect of noise on chaotic scattering. Physical Review E, 2009, 79, 047202.	0.8	37
18	Characterization of Synchrony with Applications to Epileptic Brain Signals. Physical Review Letters, 2007, 98, 108102.	2.9	36

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19	Chiral Scars in Chaotic Dirac Fermion Systems. Physical Review Letters, 2013, 110, 064102.	2.9	36
20	Ground and excited states of zinc phthalocyanine, zinc tetrabenzoporphyrin, and azaporphyrin analogs using DFT and TDDFT with Franck-Condon analysis. Journal of Chemical Physics, 2015, 142, 094310.	1.2	35
21	Scaling and correlation of human movements in cyberspace and physical space. Physical Review E, 2014, 90, 050802.	0.8	32
22	Characteristics of level-spacing statistics in chaotic graphene billiards. Chaos, 2011, 21, 013102.	1.0	30
23	Topological control of synchronous patterns in systems of networked chaotic oscillators. Physical Review E, 2013, 87, .	0.8	30
24	Optimization of synchronization in complex clustered networks. Chaos, 2008, 18, 013101.	1.0	29
25	Modulating quantum transport by transient chaos. Applied Physics Letters, 2012, 100, .	1.5	29
26	Universal formalism of Fano resonance. AIP Advances, 2015, 5, .	0.6	29
27	Synchronization transition in networked chaotic oscillators: The viewpoint from partial synchronization. Physical Review E, 2014, 89, 052908.	0.8	28
28	Chaos in Dirac Electron Optics: Emergence of a Relativistic Quantum Chimera. Physical Review Letters, 2018, 120, 124101.	2.9	27
29	Transmission and scarring in graphene quantum dots. Journal of Physics Condensed Matter, 2009, 21, 344203.	0.7	25
30	Relativistic quantum chaosâ€"An emergent interdisciplinary field. Chaos, 2018, 28, 052101.	1.0	25
31	Optimization of synchronization in gradient clustered networks. Physical Review E, 2007, 76, 056113.	0.8	24
32	Onset of synchronization in weighted scale-free networks. Chaos, 2009, 19, 013134.	1.0	24
33	Alternating synchronizability of complex clustered networks with regular local structure. Physical Review E, 2008, 77, 016103.	0.8	22
34	Scarring of Dirac fermions in chaotic billiards. Physical Review E, 2012, 86, 016702.	0.8	22
35	Harnessing quantum transport by transient chaos. Chaos, 2013, 23, 013125.	1.0	21
36	Geometric valley Hall effect and valley filtering through a singular Berry flux. Physical Review B, 2017, 96, .	1.1	21

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37	Gaussian orthogonal ensemble statistics in graphene billiards with the shape of classically integrable billiards. Physical Review E, 2016, 94, 062214.	0.8	19
38	Emergence of grouping in multi-resource minority game dynamics. Scientific Reports, 2012, 2, 703.	1.6	18
39	Transformer-Based Generative Model Accelerating the Development of Novel BRAF Inhibitors. ACS Omega, 2021, 6, 33864-33873.	1.6	18
40	Desynchronization waves in small-world networks. Physical Review E, 2007, 75, 026211.	0.8	17
41	Conductance fluctuations in graphene systems: The relevance of classical dynamics. Physical Review B, 2012, 85, .	1.1	17
42	Universality of flux-fluctuation law in complex dynamical systems. Physical Review E, 2013, 87, 012808.	0.8	17
43	Universal flux-fluctuation law in small systems. Scientific Reports, 2014, 4, 6787.	1.6	17
44	Directed dynamical influence is more detectable with noise. Scientific Reports, 2016, 6, 24088.	1.6	17
45	Nonequilibrium transport in the pseudospin-1 Dirac-Weyl system. Physical Review B, 2017, 96, .	1.1	17
46	Dynamical mechanism of intrinsic localized modes in microelectromechanical oscillator arrays. Chaos, 2009, 19, 013127.	1.0	16
47	Lattice scale-free networks with weighted linking. Physical Review E, 2004, 70, 015102.	0.8	15
48	Hollowing strategies for enhancing robustness of geographical networks. Europhysics Letters, 2005, 72, 144-150.	0.7	15
49	Open quantum dots in graphene: Scaling relativistic pointer states. Journal of Physics: Conference Series, 2010, 220, 012015.	0.3	15
50	Promoting collective motion of self-propelled agents by distance-based influence. Physical Review E, 2014, 89, 032813.	0.8	15
51	Superpersistent currents and whispering gallery modes in relativistic quantum chaotic systems. Scientific Reports, 2015, 5, 8963.	1.6	15
52	Enhancing robustness and immunization in geographical networks. Physical Review E, 2007, 75, 036101.	0.8	14
53	Emergence of loop structure in scale-free networks and dynamical consequences. Physical Review E, 2009, 79, 056106.	0.8	14
54	Abnormal electron paths induced by Klein tunneling in graphene quantum point contacts. Physical Review B, 2011, 84, .	1.1	14

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55	Opinion percolation in structured population. Computer Physics Communications, 2015, 192, 124-129.	3.0	14
56	Effect of chaos on relativistic quantum tunneling. Europhysics Letters, 2012, 98, 50007.	0.7	13
57	Quantum chaotic tunneling in graphene systems with electron-electron interactions. Physical Review B, 2014, 90, .	1.1	13
58	Quantization of massive Dirac billiards and unification of nonrelativistic and relativistic chiral quantum scars. Physical Review Research, 2019, 1, .	1.3	13
59	Chaos-induced intrinsic localized modes in coupled microcantilever arrays. Applied Physics Letters, 2008, 92, .	1.5	12
60	Controlling collective dynamics in complex minority-game resource-allocation systems. Physical Review E, 2013, 87, 052808.	0.8	12
61	Level spacing statistics for two-dimensional massless Dirac billiards. Chinese Physics B, 2014, 23, 070507.	0.7	12
62	Synchronization of networked chaotic oscillators under external periodic driving. Physical Review E, 2015, 91, 032912.	0.8	12
63	Synchronization in complex clustered networks. Frontiers of Physics in China, 2007, 2, 446-459.	1.0	11
64	Onset of synchronization in complex gradient networks. Chaos, 2008, 18, 037117.	1.0	11
65	Deep Scoring Neural Network Replacing the Scoring Function Components to Improve the Performance of Structure-Based Molecular Docking. ACS Chemical Neuroscience, 2021, 12, 2133-2142.	1.7	11
66	Onset of chaotic phase synchronization in complex networks of coupled heterogeneous oscillators. Physical Review E, 2012, 86, 027201.	0.8	10
67	Relativistic quantum tunneling of a Dirac fermion in nonhyperbolic chaotic systems. Physical Review B, 2013, 87, .	1.1	10
68	Complex behavior of chaotic synchronization under dual coupling channels. New Journal of Physics, 2015, 17, 023055.	1.2	10
69	Spin Fano Resonances and Control in Two-Dimensional Mesoscopic Transport. Physical Review Applied, 2020, 13, .	1.5	10
70	Synchronization-based scalability of complex clustered networks. Chaos, 2008, 18, 043109.	1.0	9
71	Control of transmission in disordered graphene nanojunctions through stochastic resonance. Applied Physics Letters, 2010, 96, .	1.5	9
72	Cascading dynamics in complex quantum networks. Chaos, 2011, 21, 025107.	1.0	9

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73	PROBING COMPLEX NETWORKS FROM MEASURED TIME SERIES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250236.	0.7	9
74	Conductance fluctuations in chaotic bilayer graphene quantum dots. Physical Review E, 2015, 92, 012918.	0.8	9
75	Detecting and characterizing high-frequency oscillations in epilepsy: a case study of big data analysis. Royal Society Open Science, 2017, 4, 160741.	1.1	9
76	Kac's isospectrality question revisited in neutrino billiards. Physical Review E, 2020, 101, 032215.	0.8	9
77	Scars in Dirac fermion systems: the influence of an Aharonovâ€“Bohm flux. New Journal of Physics, 2017, 19, 013018.	1.2	9
78	Quantizing neutrino billiards: an expanded boundary integral method. New Journal of Physics, 2019, 21, 073039.	1.2	8
79	Reinforcement learning meets minority game: Toward optimal resource allocation. Physical Review E, 2019, 99, 032302.	0.8	8
80	Geographical networks: geographical effects on network properties. Frontiers of Physics in China, 2008, 3, 105-111.	1.0	7
81	Controlling bistability in microelectromechanical resonators. Chaos, 2008, 18, 013103.	1.0	7
82	Triple grouping and period-three oscillations in minority-game dynamics. Physical Review E, 2014, 90, 062917.	0.8	7
83	Enhancing transport efficiency by hybrid routing strategy. Europhysics Letters, 2012, 99, 20007.	0.7	6
84	Effect of geometrical rotation on conductance fluctuations in graphene quantum dots. Journal of Physics Condensed Matter, 2013, 25, 105802.	0.7	6
85	A robust relativistic quantum two-level system with edge-dependent currents and spin polarization. Europhysics Letters, 2016, 115, 20005.	0.7	6
86	Metastable states and energy flow pathway in square graphene resonators. Physical Review E, 2018, 97, 012143.	0.8	6
87	Enhancing optical response of graphene through stochastic resonance. Physical Review B, 2018, 97, .	1.1	6
88	Cover-time distribution of random processes in granular gases. Physical Review E, 2018, 98, .	0.8	6
89	Effect of chaos on two-dimensional spin transport. Physical Review B, 2018, 98, .	1.1	6
90	Perspectives on relativistic quantum chaos. Communications in Theoretical Physics, 2020, 72, 047601.	1.1	6

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91	Quantum signatures of transitions from stable fixed points to limit cycles in optomechanical systems. Physical Review A, 2020, 101, .	1.0	6
92	Percolation and blind spots in complex networks. Physical Review E, 2006, 73, 066131.	0.8	5
93	Critical behavior of blind spots in sensor networks. Chaos, 2007, 17, 023132.	1.0	5
94	Geometry-dependent conductance oscillations in graphene quantum dots. Europhysics Letters, 2011, 94, 58003.	0.7	5
95	Experimental investigation of the fluctuations in nonchaotic scattering in microwave billiards*. Chinese Physics B, 2019, 28, 100502.	0.7	5
96	A research of Monte Carlo optimized neural network for electricity load forecast. Journal of Supercomputing, 2020, 76, 6330-6343.	2.4	5
97	Influence of the gravitational radius on asymptotic behavior of the relativistic Sitnikov problem. Physical Review E, 2020, 102, 042204.	0.8	5
98	Klein scattering of spin-1 Dirac-Weyl wave and localized surface plasmon. Physical Review Research, 2021, 3, .	1.3	5
99	Infima statistics of entropy production in an underdamped Brownian motor. Physical Review E, 2020, 102, 062127.	0.8	5
100	Discrete breathers and energy localization in a nonlinear honeycomb lattice. Physical Review E, 2021, 104, 064201.	0.8	5
101	Quantum signatures of chaos in relativistic quantum billiards with shapes of circle- and ellipse-sectors*. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 224015.	0.7	5
102	Geographical constraints to range-based attacks on links in complex networks. New Journal of Physics, 2008, 10, 013030.	1.2	4
103	Dynamics-based scalability of complex networks. Physical Review E, 2008, 78, 045102.	0.8	4
104	Universal dynamics on complex networks. Europhysics Letters, 2009, 87, 18006.	0.7	4
105	Enhancing von Neumann entropy by chaos in spinâ€“orbit entanglement. Chinese Physics B, 2019, 28, 100501.	0.7	4
106	Dynamical network analysis reveals key microRNAs in progressive stages of lung cancer. PLoS Computational Biology, 2020, 16, e1007793.	1.5	4
107	Transient disorder in dynamically growing networks. Physical Review E, 2009, 79, 046101.	0.8	3
108	Lead-position dependent regular oscillations and random fluctuations of conductance in graphene quantum dots. Journal of Physics Condensed Matter, 2013, 25, 085502.	0.7	3

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109	Symmetry blockade and its breakdown in energy equipartition of square graphene resonators. Applied Physics Letters, 2018, 112, 111910.	1.5	3
110	Manifestations of chaos in relativistic quantum systems - A study based on out-of-time-order correlator. Physics Open, 2019, 1, 100001.	0.7	3
111	Flexural modes of graphene resonators derived from the reactive empirical bond-order potential. Physical Review B, 2020, 101, .	1.1	3
112	Quantization and interference of a quantum billiard with fourfold rotational symmetry. Physical Review E, 2020, 101, 062201.	0.8	3
113	Transport signatures of relativistic quantum scars in a graphene cavity. Physical Review B, 2020, 101, .	1.1	3
114	Relativistic quantum chaos in graphene. Physics Today, 2021, 74, 44-49.	0.3	3
115	Range-based attacks on links in random scale-free networks. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, P02008.	0.9	2
116	Finite-size scaling of clique percolation on two-dimensional Moore lattices. Physical Review E, 2018, 97, 052133.	0.8	2
117	Observation of alternately localized Faraday waves in a narrow tank. Physical Review Fluids, 2019, 4, .	1.0	2
118	Complex transport behaviors of rectangular graphene quantum dots subject to mechanical vibrations. Europhysics Letters, 2016, 114, 47006.	0.7	1
119	A network approach to quantifying radiotherapy effect on cancer: Radiosensitive gene group centrality. Journal of Theoretical Biology, 2019, 462, 528-536.	0.8	1
120	An Infrared Stripe Noise Removal Method Based on Multi-Scale Wavelet Transform and Multinomial Sparse Representation. Computational Intelligence and Neuroscience, 2022, 2022, 1-18.	1.1	1
121	Sequential Monte Carlo scheme for Bayesian estimation in the presence of data outliers. Physical Review E, 2007, 75, 056705.	0.8	0
122	RelativisticZitterbewegungin non-Hermitian photonic waveguide systems. New Journal of Physics, 2017, 19, 013017.	1.2	0
123	Three-Dimensional Pyramid Microlasers. , 2019, , .		0
124	Quantization condition of scarring states in complex soft-wall quantum billiards. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 080506.	0.2	0
125	Controlled generation of self-sustained oscillations in complex artificial neural networks. Chaos, 2021, 31, 113127.	1.0	0
126	Dynamical network analysis reveals key microRNAs in progressive stages of lung cancer. , 2020, 16, e1007793.		0

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127	Dynamical network analysis reveals key microRNAs in progressive stages of lung cancer. , 2020, 16, e1007793.		0
128	Dynamical network analysis reveals key microRNAs in progressive stages of lung cancer. , 2020, 16, e1007793.		0
129	Dynamical network analysis reveals key microRNAs in progressive stages of lung cancer. , 2020, 16, e1007793.		0