

Liang Huang

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.

127
papers

2,117
citations

24
h-index

41
g-index

129
ext. papers

2,394
ext. citations

3.4
avg, IF

5.04
L-index

#	Paper	IF	Citations
127	An Infrared Stripe Noise Removal Method Based on Multi-Scale Wavelet Transform and Multinomial Sparse Representation. <i>Computational Intelligence and Neuroscience</i> , 2022 , 2022, 1-18	3	0
126	Controlled generation of self-sustained oscillations in complex artificial neural networks. <i>Chaos</i> , 2021 , 31, 113127	3.3	
125	Discrete breathers and energy localization in a nonlinear honeycomb lattice.. <i>Physical Review E</i> , 2021 , 104, 064201	2.4	0
124	Transformer-Based Generative Model Accelerating the Development of Novel BRAF Inhibitors.. <i>ACS Omega</i> , 2021 , 6, 33864-33873	3.9	2
123	Klein scattering of spin-1 Dirac-Weyl wave and localized surface plasmon. <i>Physical Review Research</i> , 2021 , 3,	3.9	1
122	Deep Scoring Neural Network Replacing the Scoring Function Components to Improve the Performance of Structure-Based Molecular Docking. <i>ACS Chemical Neuroscience</i> , 2021 , 12, 2133-2142	5.7	2
121	Relativistic quantum chaos in graphene. <i>Physics Today</i> , 2021 , 74, 44-49	0.9	1
120	Flexural modes of graphene resonators derived from the reactive empirical bond-order potential. <i>Physical Review B</i> , 2020 , 101,	3.3	1
119	Dynamical network analysis reveals key microRNAs in progressive stages of lung cancer. <i>PLoS Computational Biology</i> , 2020 , 16, e1007793	5	1
118	Quantization and interference of a quantum billiard with fourfold rotational symmetry. <i>Physical Review E</i> , 2020 , 101, 062201	2.4	0
117	Perspectives on relativistic quantum chaos. <i>Communications in Theoretical Physics</i> , 2020 , 72, 047601	2.4	3
116	Quantum signatures of transitions from stable fixed points to limit cycles in optomechanical systems. <i>Physical Review A</i> , 2020 , 101,	2.6	2
115	Transport signatures of relativistic quantum scars in a graphene cavity. <i>Physical Review B</i> , 2020 , 101,	3.3	2
114	Spin Fano Resonances and Control in Two-Dimensional Mesoscopic Transport. <i>Physical Review Applied</i> , 2020 , 13,	4.3	2
113	KacWisospectrality question revisited in neutrino billiards. <i>Physical Review E</i> , 2020 , 101, 032215	2.4	3
112	Infima statistics of entropy production in an underdamped Brownian motor. <i>Physical Review E</i> , 2020 , 102, 062127	2.4	4
111	Quantization condition of scarring states in complex soft-wall quantum billiards. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020 , 69, 080506	0.6	

110	Influence of the gravitational radius on asymptotic behavior of the relativistic Sitnikov problem. <i>Physical Review E</i> , 2020 , 102, 042204	2.4	3
109	A research of Monte Carlo optimized neural network for electricity load forecast. <i>Journal of Supercomputing</i> , 2020 , 76, 6330-6343	2.5	3
108	Dynamical network analysis reveals key microRNAs in progressive stages of lung cancer 2020 , 16, e1007793		
107	Dynamical network analysis reveals key microRNAs in progressive stages of lung cancer 2020 , 16, e1007793		
106	Dynamical network analysis reveals key microRNAs in progressive stages of lung cancer 2020 , 16, e1007793		
105	Dynamical network analysis reveals key microRNAs in progressive stages of lung cancer 2020 , 16, e1007793		
104	Quantizing neutrino billiards: an expanded boundary integral method. <i>New Journal of Physics</i> , 2019 , 21, 073039	2.9	2
103	Manifestations of chaos in relativistic quantum systems - A study based on out-of-time-order correlator. <i>Physics Open</i> , 2019 , 1, 100001	1.6	3
102	Reinforcement learning meets minority game: Toward optimal resource allocation. <i>Physical Review E</i> , 2019 , 99, 032302	2.4	4
101	Enhancing von Neumann entropy by chaos in spin-orbit entanglement. <i>Chinese Physics B</i> , 2019 , 28, 100501.2		3
100	Experimental investigation of the fluctuations in nonchaotic scattering in microwave billiards. <i>Chinese Physics B</i> , 2019 , 28, 100502	1.2	0
99	Observation of alternately localized Faraday waves in a narrow tank. <i>Physical Review Fluids</i> , 2019 , 4,	2.8	2
98	Quantization of massive Dirac billiards and unification of nonrelativistic and relativistic chiral quantum scars. <i>Physical Review Research</i> , 2019 , 1,	3.9	7
97	A network approach to quantifying radiotherapy effect on cancer: Radiosensitive gene group centrality. <i>Journal of Theoretical Biology</i> , 2019 , 462, 528-536	2.3	1
96	Metastable states and energy flow pathway in square graphene resonators. <i>Physical Review E</i> , 2018 , 97, 012143	2.4	4
95	Relativistic quantum chaos-An emergent interdisciplinary field. <i>Chaos</i> , 2018 , 28, 052101	3.3	20
94	Enhancing optical response of graphene through stochastic resonance. <i>Physical Review B</i> , 2018 , 97,	3.3	3
93	Chaos in Dirac Electron Optics: Emergence of a Relativistic Quantum Chimera. <i>Physical Review Letters</i> , 2018 , 120, 124101	7.4	17

92	Symmetry blockade and its breakdown in energy equipartition of square graphene resonators. <i>Applied Physics Letters</i> , 2018 , 112, 111910	3.4	3
91	Cover-time distribution of random processes in granular gases. <i>Physical Review E</i> , 2018 , 98,	2.4	4
90	Effect of chaos on two-dimensional spin transport. <i>Physical Review B</i> , 2018 , 98,	3.3	4
89	Finite-size scaling of clique percolation on two-dimensional Moore lattices. <i>Physical Review E</i> , 2018 , 97, 052133	2.4	2
88	Relativistic quantum chaos. <i>Physics Reports</i> , 2018 , 753, 1-128	27.7	24
87	Relativistic Zitterbewegung in non-Hermitian photonic waveguide systems. <i>New Journal of Physics</i> , 2017 , 19, 013017	2.9	
86	Detecting and characterizing high-frequency oscillations in epilepsy: a case study of big data analysis. <i>Royal Society Open Science</i> , 2017 , 4, 160741	3.3	7
85	Nonequilibrium transport in the pseudospin-1 Dirac-Weyl system. <i>Physical Review B</i> , 2017 , 96,	3.3	10
84	Geometric valley Hall effect and valley filtering through a singular Berry flux. <i>Physical Review B</i> , 2017 , 96,	3.3	11
83	Scars in Dirac fermion systems: the influence of an Aharonov-Bohm flux. <i>New Journal of Physics</i> , 2017 , 19, 013018	2.9	7
82	Complex transport behaviors of rectangular graphene quantum dots subject to mechanical vibrations. <i>Europhysics Letters</i> , 2016 , 114, 47006	1.6	1
81	Directed dynamical influence is more detectable with noise. <i>Scientific Reports</i> , 2016 , 6, 24088	4.9	14
80	Tetradentate Pt(II) Complexes with 6-Membered Chelate Rings: A New Route for Stable and Efficient Blue Organic Light Emitting Diodes. <i>Chemistry of Materials</i> , 2016 , 28, 3276-3282	9.6	102
79	A robust relativistic quantum two-level system with edge-dependent currents and spin polarization. <i>Europhysics Letters</i> , 2016 , 115, 20005	1.6	6
78	Gaussian orthogonal ensemble statistics in graphene billiards with the shape of classically integrable billiards. <i>Physical Review E</i> , 2016 , 94, 062214	2.4	11
77	Opinion percolation in structured population. <i>Computer Physics Communications</i> , 2015 , 192, 124-129	4.2	11
76	Synchronization of networked chaotic oscillators under external periodic driving. <i>Physical Review E</i> , 2015 , 91, 032912	2.4	10
75	Superpersistent currents and whispering gallery modes in relativistic quantum chaotic systems. <i>Scientific Reports</i> , 2015 , 5, 8963	4.9	15

74	Complex behavior of chaotic synchronization under dual coupling channels. <i>New Journal of Physics</i> , 2015 , 17, 023055	2.9	8
73	Conductance fluctuations in chaotic bilayer graphene quantum dots. <i>Physical Review E</i> , 2015 , 92, 012918	2.4	8
72	Universal formalism of Fano resonance. <i>AIP Advances</i> , 2015 , 5, 017137	1.5	23
71	Ground and excited states of zinc phthalocyanine, zinc tetrabenzoporphyrin, and azaporphyrin analogs using DFT and TDDFT with Franck-Condon analysis. <i>Journal of Chemical Physics</i> , 2015 , 142, 094310	3.9	27
70	Tetradentate Platinum Complexes for Efficient and Stable Excimer-Based White OLEDs. <i>Advanced Functional Materials</i> , 2014 , 24, 6066-6073	15.6	93
69	Synchronization transition in networked chaotic oscillators: the viewpoint from partial synchronization. <i>Physical Review E</i> , 2014 , 89, 052908	2.4	22
68	Level spacing statistics for two-dimensional massless Dirac billiards. <i>Chinese Physics B</i> , 2014 , 23, 070507	1.2	7
67	Promoting collective motion of self-propelled agents by distance-based influence. <i>Physical Review E</i> , 2014 , 89, 032813	2.4	11
66	Universal flux-fluctuation law in small systems. <i>Scientific Reports</i> , 2014 , 4, 6787	4.9	15
65	Triple grouping and period-three oscillations in minority-game dynamics. <i>Physical Review E</i> , 2014 , 90, 062917	2.4	6
64	Quantum chaotic tunneling in graphene systems with electron-electron interactions. <i>Physical Review B</i> , 2014 , 90,	3.3	11
63	Scaling and correlation of human movements in cyberspace and physical space. <i>Physical Review E</i> , 2014 , 90, 050802	2.4	23
62	Nonlinear dynamics and quantum entanglement in optomechanical systems. <i>Physical Review Letters</i> , 2014 , 112, 110406	7.4	71
61	Relativistic quantum tunneling of a Dirac fermion in nonhyperbolic chaotic systems. <i>Physical Review B</i> , 2013 , 87,	3.3	9
60	Effect of geometrical rotation on conductance fluctuations in graphene quantum dots. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 105802	1.8	5
59	Topological control of synchronous patterns in systems of networked chaotic oscillators. <i>Physical Review E</i> , 2013 , 87,	2.4	26
58	Universality of flux-fluctuation law in complex dynamical systems. <i>Physical Review E</i> , 2013 , 87, 012808	2.4	14
57	Harnessing quantum transport by transient chaos. <i>Chaos</i> , 2013 , 23, 013125	3.3	20

56	Lead-position dependent regular oscillations and random fluctuations of conductance in graphene quantum dots. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 085502	1.8	2
55	Controlling collective dynamics in complex minority-game resource-allocation systems. <i>Physical Review E</i> , 2013 , 87, 052808	2.4	9
54	Chiral scars in chaotic Dirac fermion systems. <i>Physical Review Letters</i> , 2013 , 110, 064102	7.4	32
53	Scarring of Dirac fermions in chaotic billiards. <i>Physical Review E</i> , 2012 , 86, 016702	2.4	20
52	A simple method to synthesize continuous large area nitrogen-doped graphene. <i>Carbon</i> , 2012 , 50, 4476-4482	11.2	126
51	Emergence of grouping in multi-resource minority game dynamics. <i>Scientific Reports</i> , 2012 , 2, 703	4.9	15
50	Enhancing transport efficiency by hybrid routing strategy. <i>Europhysics Letters</i> , 2012 , 99, 20007	1.6	3
49	Conductance fluctuations in graphene systems: The relevance of classical dynamics. <i>Physical Review B</i> , 2012 , 85,	3.3	16
48	Modulating quantum transport by transient chaos. <i>Applied Physics Letters</i> , 2012 , 100, 093105	3.4	29
47	Onset of chaotic phase synchronization in complex networks of coupled heterogeneous oscillators. <i>Physical Review E</i> , 2012 , 86, 027201	2.4	9
46	PROBING COMPLEX NETWORKS FROM MEASURED TIME SERIES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2012 , 22, 1250236	2	9
45	Effect of chaos on relativistic quantum tunneling. <i>Europhysics Letters</i> , 2012 , 98, 50007	1.6	12
44	Geometry-dependent conductance oscillations in graphene quantum dots. <i>Europhysics Letters</i> , 2011 , 94, 58003	1.6	5
43	Quantum chaotic scattering in graphene systems. <i>Europhysics Letters</i> , 2011 , 94, 40004	1.6	37
42	Cascading dynamics in complex quantum networks. <i>Chaos</i> , 2011 , 21, 025107	3.3	8
41	Characteristics of level-spacing statistics in chaotic graphene billiards. <i>Chaos</i> , 2011 , 21, 013102	3.3	28
40	Abnormal electron paths induced by Klein tunneling in graphene quantum point contacts. <i>Physical Review B</i> , 2011 , 84,	3.3	14
39	Control of transmission in disordered graphene nanojunctions through stochastic resonance. <i>Applied Physics Letters</i> , 2010 , 96, 262114	3.4	9

38	Extensively chaotic motion in electrostatically driven nanowires and applications. <i>Nano Letters</i> , 2010 , 10, 406-13	11.5	33
37	Relativistic quantum level-spacing statistics in chaotic graphene billiards. <i>Physical Review E</i> , 2010 , 81, 055203	2.4	66
36	Open quantum dots in graphene: Scaling relativistic pointer states. <i>Journal of Physics: Conference Series</i> , 2010 , 220, 012015	0.3	12
35	Effect of noise on chaotic scattering. <i>Physical Review E</i> , 2009 , 79, 047202	2.4	36
34	Emergence of loop structure in scale-free networks and dynamical consequences. <i>Physical Review E</i> , 2009 , 79, 056106	2.4	13
33	Transient disorder in dynamically growing networks. <i>Physical Review E</i> , 2009 , 79, 046101	2.4	3
32	Scaling of noisy fluctuations in complex networks and applications to network prediction. <i>Physical Review E</i> , 2009 , 80, 016116	2.4	37
31	Onset of synchronization in weighted scale-free networks. <i>Chaos</i> , 2009 , 19, 013134	3.3	20
30	Generic behavior of master-stability functions in coupled nonlinear dynamical systems. <i>Physical Review E</i> , 2009 , 80, 036204	2.4	168
29	Dynamical mechanism of intrinsic localized modes in microelectromechanical oscillator arrays. <i>Chaos</i> , 2009 , 19, 013127	3.3	14
28	Relativistic quantum scars. <i>Physical Review Letters</i> , 2009 , 103, 054101	7.4	65
27	Universal dynamics on complex networks. <i>Europhysics Letters</i> , 2009 , 87, 18006	1.6	3
26	Transmission and scarring in graphene quantum dots. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 344203	1.8	19
25	Understanding and preventing cascading breakdown in complex clustered networks. <i>Physical Review E</i> , 2008 , 78, 036116	2.4	36
24	Controlling bistability in microelectromechanical resonators. <i>Chaos</i> , 2008 , 18, 013103	3.3	7
23	Selectivity-based spreading dynamics on complex networks. <i>Physical Review E</i> , 2008 , 78, 026111	2.4	34
22	Geographical constraints to range-based attacks on links in complex networks. <i>New Journal of Physics</i> , 2008 , 10, 013030	2.9	4
21	Range-based attacks on links in random scale-free networks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2008 , 2008, P02008	1.9	2

20	Onset of synchronization in complex gradient networks. <i>Chaos</i> , 2008 , 18, 037117	3.3	11
19	Alternating synchronizability of complex clustered networks with regular local structure. <i>Physical Review E</i> , 2008 , 77, 016103	2.4	22
18	Optimization of synchronization in complex clustered networks. <i>Chaos</i> , 2008 , 18, 013101	3.3	28
17	Chaos-induced intrinsic localized modes in coupled microcantilever arrays. <i>Applied Physics Letters</i> , 2008 , 92, 241914	3.4	10
16	Synchronization-based scalability of complex clustered networks. <i>Chaos</i> , 2008 , 18, 043109	3.3	9
15	Dynamics-based scalability of complex networks. <i>Physical Review E</i> , 2008 , 78, 045102	2.4	4
14	Geographical networks: geographical effects on network properties. <i>Frontiers of Physics in China</i> , 2008 , 3, 105-111		7
13	Synchronization in complex clustered networks. <i>Frontiers of Physics in China</i> , 2007 , 2, 446-459		8
12	Sequential Monte Carlo scheme for Bayesian estimation in the presence of data outliers. <i>Physical Review E</i> , 2007 , 75, 056705	2.4	
11	Enhancing robustness and immunization in geographical networks. <i>Physical Review E</i> , 2007 , 75, 036101	2.4	11
10	Optimization of synchronization in gradient clustered networks. <i>Physical Review E</i> , 2007 , 76, 056113	2.4	23
9	Characterization of synchrony with applications to epileptic brain signals. <i>Physical Review Letters</i> , 2007 , 98, 108102	7.4	32
8	Desynchronization waves in small-world networks. <i>Physical Review E</i> , 2007 , 75, 026211	2.4	17
7	Critical behavior of blind spots in sensor networks. <i>Chaos</i> , 2007 , 17, 023132	3.3	5
6	Geographical effects on cascading breakdowns of scale-free networks. <i>Physical Review E</i> , 2006 , 73, 036102	2.4	38
5	Information propagation on modular networks. <i>Physical Review E</i> , 2006 , 73, 035103	2.4	52
4	Abnormal synchronization in complex clustered networks. <i>Physical Review Letters</i> , 2006 , 97, 164101	7.4	118
3	Percolation and blind spots in complex networks. <i>Physical Review E</i> , 2006 , 73, 066131	2.4	4

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| 2 | Hollowing strategies for enhancing robustness of geographical networks. <i>Europhysics Letters</i> , 2005 , 72, 144-150 | 1.6 | 13 |
| 1 | Lattice scale-free networks with weighted linking. <i>Physical Review E</i> , 2004 , 70, 015102 | 2.4 | 13 |