Ying-Cheng Lai

List of Publications by Year in Descending Order

366 papers	12,712 citations	55 h-index	97 g-index
386 ext. papers	14,517 ext. citations	4.2 avg, IF	6.86 L-index

#	Paper	IF	Citations
366	Metamorphoses and explosively remote synchronization in dynamical networks.. *Chaos*, **2022**, 32, 043110	3.3	
365	Stochastically Adaptive Control and Synchronization: From Globally One-Sided Lipschitzian to Only Locally Lipschitzian Systems. *SIAM Journal on Applied Dynamical Systems*, **2022**, 21, 932-959	2.8	1
364	Continuity Scaling: A Rigorous Framework for Detecting and Quantifying Causality Accurately. *Research*, **2022**, 2022, 1-10	7.8	2
363	Controlled generation of self-sustained oscillations in complex artificial neural networks. *Chaos*, **2021**, 31, 113127	3.3	
362	Synchronization within synchronization: transients and intermittency in ecological networks. *National Science Review*, **2021**, 8, nwaa269	10.8	2
361	Klein scattering of spin-1 Dirac-Weyl wave and localized surface plasmon. *Physical Review Research*, **2021**, 3,	3.9	1
360	State dependence: Does a prior injury predict a future injury?. *Physical Therapy in Sport*, **2021**, 49, 8-14	3	4
359	Adaptable Hamiltonian neural networks. *Physical Review Research*, **2021**, 3,	3.9	2
358	Machine learning-based approach to GPS antijamming. *GPS Solutions*, **2021**, 25, 1	4.4	1
357	Anticipating synchronization with machine learning. *Physical Review Research*, **2021**, 3,	3.9	4
356	Emergence of transient chaos and intermittency in machine learning. *Journal of Physics Complexity*, **2021**, 2, 035014	1.8	4
355	Predicting amplitude death with machine learning. *Physical Review E*, **2021**, 104, 014205	2.4	4
354	Optimal networks for dynamical spreading. *Physical Review E*, **2021**, 103, 012302	2.4	6
353	Management implications of long transients in ecological systems. *Nature Ecology and Evolution*, **2021**, 5, 285-294	12.3	7
352	Optimal inference of the start of COVID-19. *Physical Review Research*, **2021**, 3,	3.9	4
351	Anomalous role of information diffusion in epidemic spreading. *Physical Review Research*, **2021**, 3,	3.9	6
350	Relativistic quantum chaos in graphene. *Physics Today*, **2021**, 74, 44-49	0.9	1

349	Effects of stochasticity on the length and behaviour of ecological transients. *Journal of the Royal Society Interface*, **2021**, 18, 20210257	4.1	1
348	Finding nonlinear system equations and complex network structures from data: A sparse optimization approach. *Chaos*, **2021**, 31, 082101	3.3	3
347	Synchronous Transition in Complex Object Control. *Physical Review Applied*, **2021**, 16,	4.3	2
346	Machine learning prediction of critical transition and system collapse. *Physical Review Research*, **2021**, 3,	3.9	17
345	Dynamical network analysis reveals key microRNAs in progressive stages of lung cancer. *PLoS Computational Biology*, **2020**, 16, e1007793	5	1
344	Partial cross mapping eliminates indirect causal influences. *Nature Communications*, **2020**, 11, 2632	17.4	16
343	Non-Markovian recovery makes complex networks more resilient against large-scale failures. *Nature Communications*, **2020**, 11, 2490	17.4	8
342	Impact of inter-layer hopping on epidemic spreading in a multilayer network. *Communications in Nonlinear Science and Numerical Simulation*, **2020**, 90, 105403	3.7	6
341	Data Based Reconstruction of Duplex Networks. *SIAM Journal on Applied Dynamical Systems*, **2020**, 19, 124-150	2.8	17
340	Instantaneous success and influence promotion in cyberspace how do they occur?. *Physica A: Statistical Mechanics and Its Applications*, **2020**, 556, 124725	3.3	
339	Perspectives on relativistic quantum chaos. *Communications in Theoretical Physics*, **2020**, 72, 047601	2.4	3
338	Noise-enabled species recovery in the aftermath of a tipping point. *Physical Review E*, **2020**, 101, 012206	2.4	6
337	Spin Fano Resonances and Control in Two-Dimensional Mesoscopic Transport. *Physical Review Applied*, **2020**, 13,	4.3	2
336	Kac's isospectrality question revisited in neutrino billiards. *Physical Review E*, **2020**, 101, 032215	2.4	3
335	Long-term prediction of chaotic systems with machine learning. *Physical Review Research*, **2020**, 2,	3.9	36
334	Anomalous chiral edge states in spin-1 Dirac quantum dots. *Physical Review Research*, **2020**, 2,	3.9	9
333	Electrical confinement in a spectrum of two-dimensional Dirac materials with classically integrable, mixed, and chaotic dynamics. *Physical Review Research*, **2020**, 2,	3.9	4
332	Scattering of Dirac electrons from a skyrmion: Emergence of robust skew scattering. *Physical Review Research*, **2020**, 2,	3.9	6

331	Scaling law of transient lifetime of chimera states under dimension-augmenting perturbations. *Physical Review Research*, **2020**, 2,	3.9	3
330	Phase diagrams of interacting spreading dynamics in complex networks. *Physical Review Research*, **2020**, 2,	3.9	13
329	Hysteresis in anesthesia and recovery: Experimental observation and dynamical mechanism. *Physical Review Research*, **2020**, 2,	3.9	2
328	Anomalous in-gap edge states in two-dimensional pseudospin-1 Dirac insulators. *Physical Review Research*, **2020**, 2,	3.9	1
327	Pseudospin modulation in coupled graphene systems. *Physical Review Research*, **2020**, 2,	3.9	3
326	Injury prediction as a non-linear system. *Physical Therapy in Sport*, **2020**, 41, 43-48	3	14
325	Long living transients: Enfant terrible of ecological theory?: Reply to comments on "Long transients in ecology: Theory and applications". *Physics of Life Reviews*, **2020**, 32, 55-58	2.1	1
324	Predicting phase and sensing phase coherence in chaotic systems with machine learning. *Chaos*, **2020**, 30, 083114	3.3	15
323	Tipping point and noise-induced transients in ecological networks. *Journal of the Royal Society Interface*, **2020**, 17, 20200645	4.1	9
322	Long transients in ecology: Theory and applications. *Physics of Life Reviews*, **2020**, 32, 1-40	2.1	47
321	Dynamical network analysis reveals key microRNAs in progressive stages of lung cancer **2020**, 16, e1007793		
320	Dynamical network analysis reveals key microRNAs in progressive stages of lung cancer **2020**, 16, e1007793		
319	Dynamical network analysis reveals key microRNAs in progressive stages of lung cancer **2020**, 16, e1007793		
318	Dynamical network analysis reveals key microRNAs in progressive stages of lung cancer **2020**, 16, e1007793		
317	Self-adaptation of chimera states. *Physical Review E*, **2019**, 99, 010201	2.4	9
316	Equivalence and its invalidation between non-Markovian and Markovian spreading dynamics on complex networks. *Nature Communications*, **2019**, 10, 3748	17.4	13
315	Random temporal connections promote network synchronization. *Physical Review E*, **2019**, 100, 032302	2.4	6
314	Manifestations of chaos in relativistic quantum systems - A study based on out-of-time-order correlator. *Physics Open*, **2019**, 1, 100001	1.6	3

313	Irrelevance of linear controllability to nonlinear dynamical networks. *Nature Communications*, **2019**, 10, 3961	17.4	15
312	Harnessing tipping points in complex ecological networks. *Journal of the Royal Society Interface*, **2019**, 16, 20190345	4.1	17
311	Optimizing biologically inspired transport networks by control. *Physical Review E*, **2019**, 100, 032309	2.4	3
310	Remote control of cascading dynamics on complex multilayer networks. *New Journal of Physics*, **2019**, 21, 045002	2.9	12
309	Atomic collapse in pseudospin-1 systems. *Physical Review B*, **2019**, 99,	3.3	3
308	Pseudospin-1 wave scattering that defies chaos Q-spoiling and Klein tunneling. *Physical Review B*, **2019**, 99,	3.3	10
307	Pseudospin-1 Systems as a New Frontier for Research on Relativistic Quantum Chaos. *Understanding Complex Systems*, **2019**, 119-131	0.4	
306	Reinforcement learning meets minority game: Toward optimal resource allocation. *Physical Review E*, **2019**, 99, 032302	2.4	4
305	Chaos-based Berry phase detector. *Physical Review B*, **2019**, 99,	3.3	4
304	Optimizing optimization: accurate detection of hidden interactions in active body systems from noisy data. *Nonlinear Dynamics*, **2019**, 96, 13-21	5	1
303	A model for meme popularity growth in social networking systems based on biological principle and human interest dynamics. *Chaos*, **2019**, 29, 023136	3.3	4
302	Interplay of Lorentz-Berry forces in position-momentum spaces for valley-dependent impurity scattering in □3 lattices. *Physical Review B*, **2019**, 99,	3.3	13
301	Enhancing von Neumann entropy by chaos in spin□orbit entanglement. *Chinese Physics B*, **2019**, 28, 100501	1.2	3
300	Emergence of an optimal temperature in action-potential propagation through myelinated axons. *Physical Review E*, **2019**, 100, 032416	2.4	6
299	Quantitative assessment of cerebral connectivity deficiency and cognitive impairment in children with prenatal alcohol exposure. *Chaos*, **2019**, 29, 041101	3.3	4
298	Quantization of massive Dirac billiards and unification of nonrelativistic and relativistic chiral quantum scars. *Physical Review Research*, **2019**, 1,	3.9	7
297	Model-free prediction of spatiotemporal dynamical systems with recurrent neural networks: Role of network spectral radius. *Physical Review Research*, **2019**, 1,	3.9	41
296	Asymmetry in interdependence makes a multilayer system more robust against cascading failures. *Physical Review E*, **2019**, 100, 052306	2.4	10

295	Machine learning dynamical phase transitions in complex networks. *Physical Review E*, **2019**, 100, 052312	2.4	13
294	A network approach to quantifying radiotherapy effect on cancer: Radiosensitive gene group centrality. *Journal of Theoretical Biology*, **2019**, 462, 528-536	2.3	1
293	Multi-Carrier Differential Chaos Shift Keying System With Subcarriers Allocation for Noise Reduction. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2018**, 65, 1733-1737	3.5	12
292	Synergistic interactions promote behavior spreading and alter phase transitions on multiplex networks. *Physical Review E*, **2018**, 97, 022311	2.4	13
291	Effect of network structural perturbations on spiral wave patterns. *Nonlinear Dynamics*, **2018**, 93, 1671-1680	5	8
290	Accurate detection of hierarchical communities in complex networks based on nonlinear dynamical evolution. *Chaos*, **2018**, 28, 043119	3.3	7
289	The "weak" interdependence of infrastructure systems produces mixed percolation transitions in multilayer networks. *Scientific Reports*, **2018**, 8, 2111	4.9	35
288	Locating multiple diffusion sources in time varying networks from sparse observations. *Scientific Reports*, **2018**, 8, 2685	4.9	15
287	Statistical inference approach to structural reconstruction of complex networks from binary time series. *Physical Review E*, **2018**, 97, 022301	2.4	22
286	Autapses promote synchronization in neuronal networks. *Scientific Reports*, **2018**, 8, 580	4.9	14
285	Predicting tipping points in mutualistic networks through dimension reduction. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E639-E647	11.5	62
284	Relativistic quantum chaos-An emergent interdisciplinary field. *Chaos*, **2018**, 28, 052101	3.3	20
283	Enhancing optical response of graphene through stochastic resonance. *Physical Review B*, **2018**, 97,	3.3	3
282	Sparse dynamical Boltzmann machine for reconstructing complex networks with binary dynamics. *Physical Review E*, **2018**, 97, 032317	2.4	12
281	Chaos in Dirac Electron Optics: Emergence of a Relativistic Quantum Chimera. *Physical Review Letters*, **2018**, 120, 124101	7.4	17
280	Emergence, evolution, and control of multistability in a hybrid topological quantum/classical system. *Chaos*, **2018**, 28, 033601	3.3	5
279	Enhancing network synchronization by phase modulation. *Physical Review E*, **2018**, 98, 012212	2.4	6
278	Close and ordinary social contacts: How important are they in promoting large-scale contagion?. *Physical Review E*, **2018**, 98,	2.4	12

277	Phase Locking of a Pair of Ferromagnetic Nano-oscillators on a Topological Insulator. *Physical Review Applied*, **2018**, 10,	4.3	4
276	Evolutionary hypergame dynamics. *Physical Review E*, **2018**, 98,	2.4	7
275	Effect of chaos on two-dimensional spin transport. *Physical Review B*, **2018**, 98,	3.3	4
274	Transient phenomena in ecology. *Science*, **2018**, 361,	33.3	168
273	Decay of semiclassical massless Dirac fermions from integrable and chaotic cavities. *Physical Review B*, **2018**, 98,	3.3	3
272	Relativistic quantum chaos. *Physics Reports*, **2018**, 753, 1-128	27.7	24
271	Physical controllability of complex networks. *Scientific Reports*, **2017**, 7, 40198	4.9	36
270	Dynamics of ferrofluidic flow in the Taylor-Couette system with a small aspect ratio. *Scientific Reports*, **2017**, 7, 40012	4.9	5
269	Universal data-based method for reconstructing complex networks with binary-state dynamics. *Physical Review E*, **2017**, 95, 032303	2.4	24
268	Low-voltage shock-mitigated micro-electromechanical systems structure. *Applied Physics Letters*, **2017**, 110, 201903	3.4	1
267	Quasiperiodicity and suppression of multistability in nonlinear dynamical systems. *European Physical Journal: Special Topics*, **2017**, 226, 1703-1719	2.3	12
266	Superscattering of a pseudospin-1 wave in a photonic lattice. *Physical Review A*, **2017**, 95,	2.6	10
265	Detecting and characterizing high-frequency oscillations in epilepsy: a case study of big data analysis. *Royal Society Open Science*, **2017**, 4, 160741	3.3	7
264	Reconstructing complex networks without time series. *Physical Review E*, **2017**, 96, 022320	2.4	10
263	Nonequilibrium transport in the pseudospin-1 Dirac-Weyl system. *Physical Review B*, **2017**, 96,	3.3	10
262	Detection of time delays and directional interactions based on time series from complex dynamical systems. *Physical Review E*, **2017**, 96, 012221	2.4	23
261	Emergence of unusual coexistence states in cyclic game systems. *Scientific Reports*, **2017**, 7, 7465	4.9	33
260	Universal model of individual and population mobility on diverse spatial scales. *Nature Communications*, **2017**, 8, 1639	17.4	100

259	Closed-Loop Control of Complex Networks: A Trade-Off between Time and Energy. *Physical Review Letters*, **2017**, 119, 198301	7.4	35
258	Partially unstable attractors in networks of forced integrate-and-fire oscillators. *Nonlinear Dynamics*, **2017**, 89, 887-900	5	4
257	Geometric valley Hall effect and valley filtering through a singular Berry flux. *Physical Review B*, **2017**, 96,	3.3	11
256	Mechanical topological semimetals with massless quasiparticles and a finite Berry curvature. *Physical Review B*, **2017**, 95,	3.3	6
255	Explosive spreading on complex networks: The role of synergy. *Physical Review E*, **2017**, 95, 042320	2.4	25
254	Universal framework for edge controllability of complex networks. *Scientific Reports*, **2017**, 7, 4224	4.9	21
253	Optimal localization of diffusion sources in complex networks. *Royal Society Open Science*, **2017**, 4, 170091	3.3	18
252	Robustness of persistent currents in two-dimensional Dirac systems with disorder. *Physical Review B*, **2017**, 96,	3.3	8
251	Engineering of a synthetic quadrastable gene network to approach Waddington landscape and cell fate determination. *ELife*, **2017**, 6,	8.9	44
250	Multistability in Nanosystems. *Lecture Notes in Networks and Systems*, **2017**, 53-64	0.5	
249	Multistability, chaos, and random signal generation in semiconductor superlattices. *Physical Review E*, **2016**, 93, 062204	2.4	13
248	Data-based reconstruction of complex geospatial networks, nodal positioning and detection of hidden nodes. *Royal Society Open Science*, **2016**, 3, 150577	3.3	20
247	Controlling herding in minority game systems. *Scientific Reports*, **2016**, 6, 20925	4.9	10
246	Directed dynamical influence is more detectable with noise. *Scientific Reports*, **2016**, 6, 24088	4.9	14
245	Energy scaling and reduction in controlling complex networks. *Royal Society Open Science*, **2016**, 3, 160064	3.3	37
244	Growth, collapse, and self-organized criticality in complex networks. *Scientific Reports*, **2016**, 6, 24445	4.9	9
243	Reconstructing direct and indirect interactions in networked public goods game. *Scientific Reports*, **2016**, 6, 30241	4.9	13
242	Data based identification and prediction of nonlinear and complex dynamical systems. *Physics Reports*, **2016**, 644, 1-76	27.7	177

241	Unified underpinning of human mobility in the real world and cyberspace. *New Journal of Physics*, **2016**, 18, 053025	2.9	17
240	Enhancement of spin polarization by chaos in graphene quantum dot systems. *Physical Review B*, **2016**, 93,	3.3	8
239	Nonlinear Dynamics and Chaos in Micro/Nano-Scale Systems and Applications. *Additional Conferences (Device Packaging HiTEC HiTEN & CICMT)*, **2016**, 2016, 001588-001612	0.1	
238	A geometrical approach to control and controllability of nonlinear dynamical networks. *Nature Communications*, **2016**, 7, 11323	17.4	73
237	A robust relativistic quantum two-level system with edge-dependent currents and spin polarization. *Europhysics Letters*, **2016**, 115, 20005	1.6	6
236	Control efficacy of complex networks. *Scientific Reports*, **2016**, 6, 28037	4.9	7
235	Gaussian orthogonal ensemble statistics in graphene billiards with the shape of classically integrable billiards. *Physical Review E*, **2016**, 94, 062214	2.4	11
234	Transient chaos - a resolution of breakdown of quantum-classical correspondence in optomechanics. *Scientific Reports*, **2016**, 6, 35381	4.9	15
233	Nonlinear dynamics induced anomalous Hall effect in topological insulators. *Scientific Reports*, **2016**, 6, 19803	4.9	6
232	Revival resonant scattering, perfect caustics, and isotropic transport of pseudospin-1 particles. *Physical Review B*, **2016**, 94,	3.3	18
231	Superpersistent currents and whispering gallery modes in relativistic quantum chaotic systems. *Scientific Reports*, **2015**, 5, 8963	4.9	15
230	Optimization and resilience of complex supply-demand networks. *New Journal of Physics*, **2015**, 17, 063029	2.9	6
229	Reverse Stark effect, anomalous optical transitions, and control of spin in topological insulator quantum dots. *Physical Review B*, **2015**, 92,	3.3	8
228	Traffic-driven epidemic spreading in correlated networks. *Physical Review E*, **2015**, 91, 062817	2.4	16
227	Dynamics of social contagions with memory of nonredundant information. *Physical Review E*, **2015**, 92, 012820	2.4	93
226	Consistency between functional and structural networks of coupled nonlinear oscillators. *Physical Review E*, **2015**, 92, 012912	2.4	9
225	Conductance fluctuations in chaotic bilayer graphene quantum dots. *Physical Review E*, **2015**, 92, 012918	2.4	8
224	Conductance stability in chaotic and integrable quantum dots with random impurities. *Physical Review E*, **2015**, 92, 022901	2.4	2

223	Ring-bursting behavior en route to turbulence in narrow-gap Taylor-Couette flows. *Physical Review E*, **2015**, 92, 053018	2.4	3
222	Detection meeting control: Unstable steady states in high-dimensional nonlinear dynamical systems. *Physical Review E*, **2015**, 92, 042902	2.4	2
221	Magnetic field induced flow pattern reversal in a ferrofluidic Taylor-Couette system. *Scientific Reports*, **2015**, 5, 18589	4.9	11
220	Transition to turbulence in Taylor-Couette ferrofluidic flow. *Scientific Reports*, **2015**, 5, 10781	4.9	12
219	Controlled generation of switching dynamics among metastable states in pulse-coupled oscillator networks. *Chaos*, **2015**, 25, 103109	3.3	5
218	Emergence of multicluster chimera states. *Scientific Reports*, **2015**, 5, 12988	4.9	22
217	Universal formalism of Fano resonance. *AIP Advances*, **2015**, 5, 017137	1.5	23
216	Extreme events in multilayer, interdependent complex networks and control. *Scientific Reports*, **2015**, 5, 17277	4.9	22
215	Spatiotemporal patterns and predictability of cyberattacks. *PLoS ONE*, **2015**, 10, e0124472	3.7	24
214	Peer pressure: enhancement of cooperation through mutual punishment. *Physical Review E*, **2015**, 91, 022121	2.4	30
213	Early effect in time-dependent, high-dimensional nonlinear dynamical systems with multiple resonances. *Physical Review E*, **2015**, 91, 022906	2.4	1
212	Asymmetrically interacting spreading dynamics on complex layered networks. *Scientific Reports*, **2014**, 4, 5097	4.9	157
211	Controlling extreme events on complex networks. *Scientific Reports*, **2014**, 4, 6121	4.9	24
210	Level spacing statistics for two-dimensional massless Dirac billiards. *Chinese Physics B*, **2014**, 23, 070507	1.2	7
209	Uncovering hidden nodes in complex networks in the presence of noise. *Scientific Reports*, **2014**, 4, 3944	4.9	30
208	Mesoscopic interactions and species coexistence in evolutionary game dynamics of cyclic competitions. *Scientific Reports*, **2014**, 4, 7486	4.9	58
207	Effects of behavioral response and vaccination policy on epidemic spreading--an approach based on evolutionary-game dynamics. *Scientific Reports*, **2014**, 4, 5666	4.9	47
206	Universal flux-fluctuation law in small systems. *Scientific Reports*, **2014**, 4, 6787	4.9	15

205	Emergence, evolution and scaling of online social networks. *PLoS ONE*, **2014**, 9, e111013	3.7	1
204	Identifying Chaotic FitzHugh□Nagumo Neurons Using Compressive Sensing. *Entropy*, **2014**, 16, 3889-3902	2.8	11
203	Triple grouping and period-three oscillations in minority-game dynamics. *Physical Review E*, **2014**, 90, 062917	2.4	6
202	Reconstructing propagation networks with natural diversity and identifying hidden sources. *Nature Communications*, **2014**, 5, 4323	17.4	125
201	Suppression of epidemic spreading in complex networks by local information based behavioral responses. *Chaos*, **2014**, 24, 043106	3.3	85
200	Controlling complex, non-linear dynamical networks. *National Science Review*, **2014**, 1, 339-341	10.8	26
199	Quantum manifestation of a synchronization transition in optomechanical systems. *Physical Review A*, **2014**, 90,	2.6	38
198	Quantum chaotic tunneling in graphene systems with electron-electron interactions. *Physical Review B*, **2014**, 90,	3.3	11
197	Overarching framework for data-based modelling. *Europhysics Letters*, **2014**, 105, 30004	1.6	11
196	Regularization of chaos by noise in electrically driven nanowire systems. *Physical Review B*, **2014**, 89,	3.3	6
195	Scaling and correlation of human movements in cyberspace and physical space. *Physical Review E*, **2014**, 90, 050802	2.4	23
194	Exact controllability of multiplex networks. *New Journal of Physics*, **2014**, 16, 103036	2.9	46
193	Nonlinear dynamics and quantum entanglement in optomechanical systems. *Physical Review Letters* , **2014**, 112, 110406	7.4	71
192	Relativistic quantum tunneling of a Dirac fermion in nonhyperbolic chaotic systems. *Physical Review B*, **2013**, 87,	3.3	9
191	Robustness of chimera states in complex dynamical systems. *Scientific Reports*, **2013**, 3, 3522	4.9	44
190	Effect of geometrical rotation on conductance fluctuations in graphene quantum dots. *Journal of Physics Condensed Matter*, **2013**, 25, 105802	1.8	5
189	Universality of flux-fluctuation law in complex dynamical systems. *Physical Review E*, **2013**, 87, 012808	2.4	14
188	Quantum chaotic scattering in graphene systems in the absence of invariant classical dynamics. *Physical Review E*, **2013**, 87, 052908	2.4	9

187	Complex dynamics in nanosystems. *Physical Review E*, **2013**, 87, 052911	2.4	14
186	Harnessing quantum transport by transient chaos. *Chaos*, **2013**, 23, 013125	3.3	20
185	Lead-position dependent regular oscillations and random fluctuations of conductance in graphene quantum dots. *Journal of Physics Condensed Matter*, **2013**, 25, 085502	1.8	2
184	Emergence of scaling in human-interest dynamics. *Scientific Reports*, **2013**, 3, 3472	4.9	63
183	Engineering of regulated stochastic cell fate determination. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 10610-5	11.5	71
182	Persistent coexistence of cyclically competing species in spatially extended ecosystems. *Chaos*, **2013**, 23, 023128	3.3	22
181	Anti-phase synchronization in microelectromechanical systems and effect of impulsive perturbations. *Physical Review B*, **2013**, 87,	3.3	8
180	Chiral scars in chaotic Dirac fermion systems. *Physical Review Letters*, **2013**, 110, 064102	7.4	32
179	Exact controllability of complex networks. *Nature Communications*, **2013**, 4, 2447	17.4	323
178	An efficient immunization strategy for community networks. *PLoS ONE*, **2013**, 8, e83489	3.7	43
177	Multi-armed spirals and multi-pairs antispirals in spatial rock□paper□scissors games. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2012**, 376, 2292-2297	2.3	23
176	Controlling complex networks: how much energy is needed?. *Physical Review Letters*, **2012**, 108, 218703	7.4	249
175	Scarring of Dirac fermions in chaotic billiards. *Physical Review E*, **2012**, 86, 016702	2.4	20
174	Forecasting the future: is it possible for adiabatically time-varying nonlinear dynamical systems?. *Chaos*, **2012**, 22, 033119	3.3	8
173	Emergence of grouping in multi-resource minority game dynamics. *Scientific Reports*, **2012**, 2, 703	4.9	15
172	Optimizing controllability of complex networks by minimum structural perturbations. *Physical Review E*, **2012**, 85, 026115	2.4	172
171	Reverse engineering of complex dynamical networks in the presence of time-delayed interactions based on noisy time series. *Chaos*, **2012**, 22, 033131	3.3	13
170	Forecasting synchronizability of complex networks from data. *Physical Review E*, **2012**, 85, 056220	2.4	18

169	Optimizing cooperation on complex networks in the presence of failure. *Physical Review E*, **2012**, 86, 045101	2.4	3
168	Cascading dynamics on random networks: crossover in phase transition. *Physical Review E*, **2012**, 85, 026110	2.4	47
167	Conductance fluctuations in graphene systems: The relevance of classical dynamics. *Physical Review B*, **2012**, 85,	3.3	16
166	Modulating quantum transport by transient chaos. *Applied Physics Letters*, **2012**, 100, 093105	3.4	29
165	Origin of chaotic transients in excitatory pulse-coupled networks. *Physical Review E*, **2012**, 86, 066214	2.4	7
164	Onset of chaotic phase synchronization in complex networks of coupled heterogeneous oscillators. *Physical Review E*, **2012**, 86, 027201	2.4	9
163	Detecting hidden nodes in complex networks from time series. *Physical Review E*, **2012**, 85, 065201	2.4	55
162	PROBING COMPLEX NETWORKS FROM MEASURED TIME SERIES. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2012**, 22, 1250236	2	9
161	Effect of chaos on relativistic quantum tunneling. *Europhysics Letters*, **2012**, 98, 50007	1.6	12
160	Transient Chaos. *Applied Mathematical Sciences (Switzerland)*, **2011**,	0.9	253
159	Geometry-dependent conductance oscillations in graphene quantum dots. *Europhysics Letters*, **2011**, 94, 58003	1.6	5
158	Time-series-based prediction of complex oscillator networks via compressive sensing. *Europhysics Letters*, **2011**, 94, 48006	1.6	76
157	Quantum chaotic scattering in graphene systems. *Europhysics Letters*, **2011**, 94, 40004	1.6	37
156	Cascading dynamics in complex quantum networks. *Chaos*, **2011**, 21, 025107	3.3	8
155	Predicting catastrophes in nonlinear dynamical systems by compressive sensing. *Physical Review Letters*, **2011**, 106, 154101	7.4	202
154	Characteristics of level-spacing statistics in chaotic graphene billiards. *Chaos*, **2011**, 21, 013102	3.3	28
153	Network Reconstruction Based on Evolutionary-Game Data via Compressive Sensing. *Physical Review X*, **2011**, 1,	9.1	74
152	Pattern formation, synchronization, and outbreak of biodiversity in cyclically competing games. *Physical Review E*, **2011**, 83, 011917	2.4	55

151	Abnormal electron paths induced by Klein tunneling in graphene quantum point contacts. *Physical Review B*, **2011**, 84,	3.3	14
150	Transportation dynamics on networks of mobile agents. *Physical Review E*, **2011**, 83, 016102	2.4	36
149	Cascading failures and the emergence of cooperation in evolutionary-game based models of social and economical networks. *Chaos*, **2011**, 21, 033112	3.3	42
148	Quasipotential approach to critical scaling in noise-induced chaos. *Physical Review E*, **2010**, 81, 056208	2.4	18
147	Role of intraspecific competition in the coexistence of mobile populations in spatially extended ecosystems. *Chaos*, **2010**, 20, 023113	3.3	41
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