Long time evolution of phase oscillator systems

#	Paper	IF	Citations
354	Existence of hysteresis in the Kuramoto model with bimodal frequency distributions. *Physical Review E*, **2009**, 80, 046215	2.4	59
353	Large coupled oscillator systems with heterogeneous interaction delays. *Physical Review Letters*, **2009**, 103, 044101	7.4	89
352	Identical phase oscillators with global sinusoidal coupling evolve by Mobius group action. *Chaos*, **2009**, 19, 043104	3.3	134
351	The dynamics of chimera states in heterogeneous Kuramoto networks. **2009**, 238, 1569-1588		251
350	Periodically forced ensemble of nonlinearly coupled oscillators: from partial to full synchrony. *Physical Review E*, **2009**, 80, 046211	2.4	18
349	Dynamical origin of complex motor patterns. **2010**, 60, 361-367		13
348	Nonuniversal results induced by diversity distribution in coupled excitable systems. *Physical Review Letters*, **2010**, 105, 084101	7.4	45
347	Dynamics of coupled oscillators with convex interaction potential. **2010**, 51, 102705		
346	Spontaneous synchronization of coupled oscillator systems with frequency adaptation. *Physical Review E*, **2010**, 81, 046214	2.4	30
345	Solvable model of spiral wave chimeras. *Physical Review Letters*, **2010**, 104, 044101	7.4	212
344	Phase synchronization between collective rhythms of globally coupled oscillator groups: noiseless nonidentical case. *Chaos*, **2010**, 20, 043110	3.3	33
343	Chimeras in a network of three oscillator populations with varying network topology. *Chaos*, **2010**, 20, 043122	3.3	62
342	Bistable chimera attractors on a triangular network of oscillator populations. *Physical Review E*, **2010**, 82, 016216	2.4	67
341	Phase resetting of collective rhythm in ensembles of oscillators. *Physical Review E*, **2010**, 82, 056202	2.4	50
340	Chimeras in networks of planar oscillators. *Physical Review E*, **2010**, 81, 066221	2.4	92
339	Self-emerging and turbulent chimeras in oscillator chains. *Physical Review E*, **2010**, 82, 035205	2.4	107
338	Order parameter expansion and finite-size scaling study of coherent dynamics induced by quenched noise in the active rotator model. *Physical Review E*, **2010**, 82, 051127	2.4	6

319	Cluster synchrony in systems of coupled phase oscillators with higher-order coupling. *Physical Review E*, **2011**, 84, 036208	2.4	61
318	Shear diversity prevents collective synchronization. *Physical Review Letters*, **2011**, 106, 254101	7.4	39
317	Dynamics and pattern formation in large systems of spatially-coupled oscillators with finite response times. *Chaos*, **2011**, 21, 023122	3.3	37
316	Average dynamics of a driven set of globally coupled excitable units. *Chaos*, **2011**, 21, 023102	3.3	19
315	The Kuramoto model with distributed shear. *Europhysics Letters*, **2011**, 95, 60007	1.6	15
314	Disorder-induced dynamics in a pair of coupled heterogeneous phase oscillator networks. *Chaos*, **2012**, 22, 043104	3.3	44
313	Hierarchical synchrony of phase oscillators in modular networks. *Physical Review E*, **2012**, 85, 016208	2.4	55
312	Multiscale dynamics in communities of phase oscillators. *Chaos*, **2012**, 22, 013102	3.3	24
311	Kuramoto model with time-varying parameters. *Physical Review E*, **2012**, 86, 046212	2.4	39
310	Nonuniversal transitions to synchrony in the Sakaguchi-Kuramoto model. *Physical Review Letters*, **2012**, 109, 164101	7.4	84
309	Kuramoto model with coupling through an external medium. *Chaos*, **2012**, 22, 043139	3.3	11
308	The asymptotic behavior of the order parameter for the infinite-N Kuramoto model. *Chaos*, **2012**, 22, 043118	3.3	25
307	NONLINEAR DYNAMICS AND THE SYNTHESIS OF ZEBRA FINCH SONG. **2012**, 22, 1250235		3
306	Persistent fluctuations in synchronization rate in globally coupled oscillators with periodic external forcing. *Physical Review E*, **2012**, 85, 056207	2.4	7
305	Mean-field behavior in coupled oscillators with attractive and repulsive interactions. *Physical Review E*, **2012**, 85, 056210	2.4	55
304	Stationary patterns of coherence and incoherence in two-dimensional arrays of non-locally-coupled phase oscillators. *Physical Review E*, **2012**, 85, 036210	2.4	95
303	Chimeras in random non-complete networks of phase oscillators. *Chaos*, **2012**, 22, 013132	3.3	69
302	Structure of cell networks critically determines oscillation regularity. **2012**, 297, 61-72		26

301	A dynamical study of pulse-coupled oscillators in the brain. **2012**, 13,		78
300	Phase and amplitude dynamics in large systems of coupled oscillators: growth heterogeneity, nonlinear frequency shifts, and cluster states. *Chaos*, **2013**, 23, 033116	3.3	9
299	Bifurcations in the Sakaguchi–Kuramoto model. **2013**, 263, 74-85		37
298	Synchrony suppression in ensembles of coupled oscillators via adaptive vanishing feedback. *Chaos*, **2013**, 23, 033122	3.3	20
297	Dynamics in hybrid complex systems of switches and oscillators. *Chaos*, **2013**, 23, 033142	3.3	
296	Multiplicity of singular synchronous states in the Kuramoto model of coupled oscillators. *Physical Review Letters*, **2013**, 111, 204101	7.4	53
295	Stationary and traveling wave states of the Kuramoto model with an arbitrary distribution of frequencies and coupling strengths. *Physical Review Letters*, **2013**, 110, 064101	7.4	58
294	Quantum synchronization of quantum van der Pol oscillators with trapped ions. *Physical Review Letters*, **2013**, 111, 234101	7.4	140
293	Approximate solution to the stochastic Kuramoto model. *Physical Review E*, **2013**, 88, 052111	2.4	32
292	Chimeras with multiple coherent regions. *Physical Review E*, **2013**, 88, 032902	2.4	25
291	Robustness of chimera states in complex dynamical systems. **2013**, 3, 3522		44
290	Dynamics of multifrequency oscillator communities. *Physical Review Letters*, **2013**, 110, 134101	7.4	29
289	Autonomous and forced dynamics of oscillator ensembles with global nonlinear coupling: an experimental study. *Physical Review E*, **2013**, 87, 062917	2.4	20
288	Coherence–incoherence patterns in a ring of non-locally coupled phase oscillators. **2013**, 26, 2469-2498		99
287	Complete classification of the macroscopic behavior of a heterogeneous network of theta neurons. **2013**, 25, 3207-34		90
286	Analysis of a solvable model of a phase oscillator network on a circle with infinite-range Mexican-hat-type interaction. *Physical Review E*, **2013**, 88, 032918	2.4	2
285	Noise-induced synchronization, desynchronization, and clustering in globally coupled nonidentical oscillators. *Physical Review E*, **2013**, 88, 012905	2.4	35
284	Inferring network properties of cortical neurons with synaptic coupling and parameter dispersion. **2013**, 7, 20		4

283	Macroscopic complexity from an autonomous network of networks of theta neurons. **2014**, 8, 145		20
282	Partially coherent twisted states in arrays of coupled phase oscillators. *Chaos*, **2014**, 24, 023102	3.3	34
281	Derivation of a neural field model from a network of theta neurons. *Physical Review E*, **2014**, 90, 010901	2.4	78
280	Phase diagram for the Kuramoto model with van Hemmen interactions. *Physical Review E*, **2014**, 89, 012904	2.4	16
279	Low-Dimensional Dynamics of Populations of Pulse-Coupled Oscillators. **2014**, 4,		82
278	Control of collective network chaos. *Chaos*, **2014**, 24, 023127	3.3	6
277	Mean-field theory of assortative networks of phase oscillators. *Europhysics Letters*, **2014**, 107, 60006	1.6	34
276	A mathematical model of dysfunction of the thalamo-cortical loop in schizophrenia. **2014**, 11, 45		4
275	Bifurcation analysis on the globally coupled Kuramoto oscillators with distributed time delays. **2014**, 266, 23-33		12
274	Synchronization in complex networks of phase oscillators: A survey. **2014**, 50, 1539-1564		620
273	From the Kuramoto-Sakaguchi model to the Kuramoto-Sivashinsky equation. *Physical Review E*, **2014**, 89, 010901	2.4	7
272	Dynamics in the Sakaguchi-Kuramoto model with two subpopulations [corrected]. *Physical Review E*, **2014**, 90, 012903	2.4	5
271	The Kuramoto model of coupled oscillators with a bi-harmonic coupling function. **2014**, 289, 18-31		26
270	Bifurcation study of phase oscillator systems with attractive and repulsive interaction. *Physical Review E*, **2014**, 90, 022911	2.4	15
269	Collective phase dynamics of globally coupled oscillators: Noise-induced anti-phase synchronization. **2014**, 270, 20-29		22
268	Glassy states and super-relaxation in populations of coupled phase oscillators. **2014**, 5, 4118		39
267	Complex macroscopic behavior in systems of phase oscillators with adaptive coupling. **2014**, 267, 27-35		24
266	Networks of theta neurons with time-varying excitability: Macroscopic chaos, multistability, and final-state uncertainty. **2014**, 267, 16-26		46

265	Frequency assortativity can induce chaos in oscillator networks. *Physical Review E*, **2015**, 91, 060902	2.4	21
264	Intercommunity resonances in multifrequency ensembles of coupled oscillators. *Physical Review E*, **2015**, 92, 012906	2.4	7
263	Collective phase response curves for heterogeneous coupled oscillators. *Physical Review E*, **2015**, 92, 022923	2.4	18
262	Chimeras in networks with purely local coupling. *Physical Review E*, **2015**, 92, 050904	2.4	124
261	Persistent chimera states in nonlocally coupled phase oscillators. *Physical Review E*, **2015**, 92, 060901	2.4	30
260	Optimal synchronization of Kuramoto oscillators: A dimensional reduction approach. *Physical Review E*, **2015**, 92, 062801	2.4	20
259	Synchronization and plateau splitting of coupled oscillators with long-range power-law interactions. *Physical Review E*, **2015**, 92, 062918	2.4	5
258	Macroscopic Description for Networks of Spiking Neurons. **2015**, 5,		114
257	Correspondence between Phase Oscillator Network and Classical XY Model with the Same Infinite-Range Interaction in Statics. **2015**, 84, 033001		3
256	Emergence of multicluster chimera states. **2015**, 5, 12988		22
255	Analysis on Patterns of Globally Coupled Phase Oscillators with Attractive and Repulsive Interactions. **2015**, 64, 507-514		1
254	Synchronization Dynamics in a System of Multiple Interacting Populations of Phase Oscillators. **2015**, 32, 030502		4
253	Exact Neural Fields Incorporating Gap Junctions. *SIAM Journal on Applied Dynamical Systems*, **2015**, 14, 1899-1929	2.8	40
252	Designing a deep brain stimulator to suppress pathological neuronal synchrony. **2015**, 63, 282-92		2
251	Synchronization transitions in ensembles of noisy oscillators with bi-harmonic coupling. **2015**, 48, 105101		6
250	The epileptic thalamocortical network is a macroscopic self-sustained oscillator: evidence from frequency-locking experiments in rat brains. **2015**, 5, 8423		10
249	Chimera states: coexistence of coherence and incoherence in networks of coupled oscillators. **2015**, 28, R67-R87		516
248	Susceptibility of large populations of coupled oscillators. *Physical Review E*, **2015**, 91, 012925	2.4	17

247	Weak chimeras in minimal networks of coupled phase oscillators. *Chaos*, **2015**, 25, 013106	3.3	119
246	Dynamics of globally coupled oscillators: Progress and perspectives. *Chaos*, **2015**, 25, 097616	3.3	144
245	Critical behavior of the relaxation rate, the susceptibility, and a pair correlation function in the Kuramoto model on scale-free networks. *Physical Review E*, **2015**, 91, 032814	2.4	23
244	An approach to normal forms of Kuramoto model with distributed delays and the effect of minimal delay. **2015**, 379, 2018-2024		3
243	Phase synchronization between collective rhythms of fully locked oscillator groups. **2014**, 4, 4832		13
242	A proof of the Kuramoto conjecture for a bifurcation structure of the infinite-dimensional Kuramoto model. **2015**, 35, 762-834		44
241	Chimeras in SQUID metamaterials. **2015**, 91,		58
240	Hopf Bifurcation in Two Groups of Delay-Coupled Kuramoto Oscillators. **2015**, 25, 1550129		3
239	Obtaining Arbitrary Prescribed Mean Field Dynamics for Recurrently Coupled Networks of Type-I Spiking Neurons with Analytically Determined Weights. **2016**, 10, 15		0
238	Bumps in Small-World Networks. **2016**, 10, 53		9
237	Basins of attraction for chimera states. **2016**, 18, 022002		56
236	Is there an impact of small phase lags in the Kuramoto model?. *Chaos*, **2016**, 26, 094806	3.3	4
235	Chimera states in two populations with heterogeneous phase-lag. *Chaos*, **2016**, 26, 094819	3.3	38
234	Ott-Antonsen attractiveness for parameter-dependent oscillatory systems. *Chaos*, **2016**, 26, 103101	3.3	33
233	Chimera states and synchronization in magnetically driven SQUID metamaterials. **2016**, 225, 1231-1243		16
232	Resynchronization of circadian oscillators and the east-west asymmetry of jet-lag. *Chaos*, **2016**, 26, 094811	3.3	39
231	Dynamics of phase oscillators with generalized frequency-weighted coupling. *Physical Review E*, **2016**, 94, 062204	2.4	15
230	Travelling waves in arrays of delay-coupled phase oscillators. *Chaos*, **2016**, 26, 094802	3.3	18

229	Average activity of excitatory and inhibitory neural populations. *Chaos*, **2016**, 26, 093104	3.3	15
228	The Ott-Antonsen Ansatz in Globally Coupled Phase Oscillators. **2016**, 33, 070501		1
227	Macroscopic self-oscillations and aging transition in a network of synaptically coupled quadratic integrate-and-fire neurons. *Physical Review E*, **2016**, 94, 032215	2.4	26
226	Linked and knotted chimera filaments in oscillatory systems. *Physical Review E*, **2016**, 94, 010204	2.4	11
225	Order parameter analysis for low-dimensional behaviors of coupled phase-oscillators. **2016**, 6, 30184		4
224	Incoherent chimera and glassy states in coupled oscillators with frustrated interactions. *Physical Review E*, **2016**, 94, 032205	2.4	11
223	Phase oscillators in modular networks: The effect of nonlocal coupling. *Physical Review E*, **2016**, 93, 012207	2.4	13
222	Tweezers for Chimeras in Small Networks. *Physical Review Letters*, **2016**, 116, 114101	7.4	65
221	Cooperative dynamics in coupled systems of fast and slow phase oscillators. *Physical Review E*, **2016**, 93, 022212	2.4	4
220	Dynamics of two populations of phase oscillators with different frequency distributions. *Physical Review E*, **2016**, 94, 012213	2.4	9
219	Synchronization in the random-field Kuramoto model on complex networks. *Physical Review E*, **2016**, 94, 012308	2.4	8
218	Equivalence of coupled networks and networks with multimodal frequency distributions: Conditions for the bimodal and trimodal case. *Physical Review E*, **2016**, 94, 052211	2.4	18
217	Explosive transitions in complex networks structure and dynamics: Percolation and synchronization. **2016**, 660, 1-94		165
216	Excitation and suppression of chimera states by multiplexing. *Physical Review E*, **2016**, 94, 052205	2.4	98
215	Collective dynamics of identical phase oscillators with high-order coupling. **2016**, 6, 31133		14
214	Stability and bifurcation for the Kuramoto model. **2016**, 105, 451-489		33
213	The Kuramoto model in complex networks. **2016**, 610, 1-98		430
212	Chimera state and route to explosive synchronization. *Chaos, Solitons and Fractals*, **2016**, 86, 75-81	9.3	11

211	Turbulence in the Ott Antonsen equation for arrays of coupled phase oscillators. **2016**, 29, 257-270		17
210	Chimera states in networks of phase oscillators: The case of two small populations. *Physical Review E*, **2016**, 93, 012218	2.4	67
209	Chimera states in spatiotemporal systems: Theory and Applications. **2016**, 30, 1630002		21
208	Landau Damping in the Kuramoto Model. **2016**, 17, 1793-1823		26
207	Nonstandard transitions in the Kuramoto model: a role of asymmetry in natural frequency distributions. **2017**, 2017, 013403		10
206	Characterizing complex networks through statistics of Möbius transformations. **2017**, 345, 56-61		4
205	Ordered, Disordered and Partially Synchronized Schools of Fish. **2017**, 18, 163-174		
204	Modeling the network dynamics of pulse-coupled neurons. *Chaos*, **2017**, 27, 033102	3.3	20
203	Lotka Volterra Like Dynamics in Phase Oscillator Networks. **2017**, 115-125		
202	Collective motions of globally coupled oscillators and some probability distributions on circle. **2017**, 381, 1989-1994		3
201	Frequency and phase synchronization in large groups: Low dimensional description of synchronized clapping, firefly flashing, and cricket chirping. *Chaos*, **2017**, 27, 051101	3.3	16
200	Chimeras in Two-Dimensional Domains: Heterogeneity and the Continuum Limit. *SIAM Journal on Applied Dynamical Systems*, **2017**, 16, 974-1014	2.8	23
199	Phase Oscillator Network Models of Brain Dynamics. **2017**, 505-517		13
198	Stability of entrainment of a continuum of coupled oscillators. *Chaos*, **2017**, 27, 103108	3.3	3
197	Chimera and modulated drift states in a ring of nonlocally coupled oscillators with heterogeneous phase lags. *Physical Review E*, **2017**, 96, 032224	2.4	8
196	Synchronization scenarios in the Winfree model of coupled oscillators. *Physical Review E*, **2017**, 96, 042208	2.4	16
195	Synchronization of phase oscillators in the generalized Sakaguchi-Kuramoto model. *Europhysics Letters*, **2017**, 118, 60005	1.6	11
194	Spontaneous collective synchronization in the Kuramoto model with additional non-local interactions. **2017**, 50, 424001		4

193	Uncovering low dimensional macroscopic chaotic dynamics of large finite size complex systems. *Chaos*, **2017**, 27, 083121	3.3	2
192	Synchronous dynamics in the Kuramoto model with biharmonic interaction and bimodal frequency distribution. *Physical Review E*, **2017**, 96, 022202	2.4	10
191	Hyperbolic geometry of Kuramoto oscillator networks. **2017**, 50, 355101		21
190	Breathing chimera in a system of phase oscillators. **2017**, 106, 393-399		9
189	Synchrony-induced modes of oscillation of a neural field model. *Physical Review E*, **2017**, 96, 052407	2.4	18
188	Asymmetric couplings enhance the transition from chimera state to synchronization. *Physical Review E*, **2017**, 96, 052209	2.4	14
187	Boundary in the dynamic phase of globally coupled oscillatory and excitable units. *Physical Review E* , **2017**, 96, 012210	2.4	1
186	Collective chaos and period-doubling bifurcation in globally coupled phase oscillators. *Nonlinear Dynamics*, **2017**, 89, 2273-2281	5	7
185	Codimension-two bifurcations induce hysteresis behavior and multistabilities in delay-coupled Kuramoto oscillators. *Nonlinear Dynamics*, **2017**, 87, 803-814	5	1
184	Coarse-Grained Descriptions of Dynamics for Networks with Both Intrinsic and Structural Heterogeneities. **2017**, 11, 43		6
183	Breathing multichimera states in nonlocally coupled phase oscillators. *Physical Review E*, **2018**, 97, 042212	2.4	11
182	Symmetries and synchronization in multilayer random networks. *Physical Review E*, **2018**, 97, 042304	2.4	6
181	Theoretical Analysis of Bistability in Kuramoto Model with Connectivity-Frequency Correlations. **2018**, 87, 014004		
180	Stability of Phase Difference Trajectories of Networks of Kuramoto Oscillators with Time-Varying Couplings and Intrinsic Frequencies. *SIAM Journal on Applied Dynamical Systems*, **2018**, 17, 457-483	2.8	9
179	Optimal design of tweezer control for chimera states. *Physical Review E*, **2018**, 97, 012216	2.4	20
178	Chimera states in two-dimensional networks of locally coupled oscillators. *Physical Review E*, **2018**, 97, 022201	2.4	49
177	Stability of Spiral Chimera States on a Torus. *SIAM Journal on Applied Dynamical Systems*, **2018**, 17, 97-127	2.8	17
176	The mathematics of asymptotic stability in the Kuramoto model. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2018**, 474, 20180467	2.4	10

175	Origin of Bellerophon states in globally coupled phase oscillators. *Physical Review E*, **2018**, 98,	2.4	18
174	Macroscopic oscillations of a quadratic integrate-and-fire neuron network with global distributed-delay coupling. *Physical Review E*, **2018**, 98,	2.4	11
173	Periodic coupling suppresses synchronization in coupled phase oscillators. **2018**, 20, 113013		5
172	First-order phase transitions in the Kuramoto model with compact bimodal frequency distributions. *Physical Review E*, **2018**, 98,	2.4	12
171	A multiple timescales approach to bridging spiking- and population-level dynamics. *Chaos*, **2018**, 28, 083123	3.3	1
170	Symmetry-broken states on a spherical surface of coupled oscillators: From modulated coherence to spot and spiral chimeras. *Physical Review E*, **2018**, 98,	2.4	7
169	Synchronizing Systems. **2018**, 1-38		
168	Macroscopic chimeralike behavior in a multiplex network. *Physical Review E*, **2018**, 98, 022320	2.4	13
167	Emergent Dynamics of Kuramoto Oscillators with Adaptive Couplings: Conservation Law and Fast Learning. *SIAM Journal on Applied Dynamical Systems*, **2018**, 17, 1560-1588	2.8	8
166	Stability Diagram, Hysteresis, and Critical Time Delay and Frequency for the Kuramoto Model with Heterogeneous Interaction Delays. **2018**, 28, 1830014		5
165	Dynamics of Noisy Oscillator Populations beyond the Ott-Antonsen Ansatz. *Physical Review Letters*, **2018**, 120, 264101	7.4	50
164	Volcano Transition in a Solvable Model of Frustrated Oscillators. *Physical Review Letters*, **2018**, 120, 264102	7.4	14
163	Multiple-parameter bifurcation analysis in a Kuramoto model with time delay and distributed shear. **2018**, 8, 055111		2
162	Macroscopic models for networks of coupled biological oscillators. **2018**, 4, e1701047		24
161	Symmetry-broken coherent state in a ring of nonlocally coupled identical oscillators. *Physical Review E*, **2018**, 98, 012210	2.4	3
160	Superconducting metamaterials. **2018**, 752, 1-67		28
159	Chaos in Kuramoto oscillator networks. *Chaos*, **2018**, 28, 071102	3.3	27
158	The Dynamics of Networks of Identical Theta Neurons. **2018**, 8, 4		15

157	Low-dimensional dynamics of the Kuramoto model with rational frequency distributions. *Physical Review E*, **2018**, 98, 022207	2.4	10
156	Kuramoto Model for Excitation-Inhibition-Based Oscillations. *Physical Review Letters*, **2018**, 120, 244101	7.4	17
155	Universal relations of local order parameters for partially synchronized oscillators. *Physical Review E*, **2018**, 97, 062207	2.4	4
154	Twisted states in nonlocally coupled phase oscillators with bimodal frequency distribution. *Communications in Nonlinear Science and Numerical Simulation*, **2019**, 68, 139-146	3.7	2
153	Optimal global synchronization of partially forced Kuramoto oscillators. *Chaos*, **2019**, 29, 073115	3.3	5
152	Phase transition to synchronization in generalized Kuramoto model with low-pass filter. *Physical Review E*, **2019**, 100, 012209	2.4	6
151	Synchronization in starlike networks of phase oscillators. *Physical Review E*, **2019**, 100, 012212	2.4	12
150	Chimerapedia: coherence–incoherence patterns in one, two and three dimensions. **2019**, 21, 093034		24
149	Universal phase transitions to synchronization in Kuramoto-like models with heterogeneous coupling. **2019**, 21, 113018		14
148	Solitary states and partial synchrony in oscillatory ensembles with attractive and repulsive interactions. *Chaos*, **2019**, 29, 093124	3.3	17
147	Bifurcation of the collective oscillatory state in phase oscillators with heterogeneity coupling. *Nonlinear Dynamics*, **2019**, 98, 2365-2373	5	7
146	Anti-phase collective synchronization with intrinsic in-phase coupling of two groups of electrochemical oscillators. **2019**, 377, 20190095		4
145	Exact firing rate model reveals the differential effects of chemical versus electrical synapses in spiking networks. *Physical Review E*, **2019**, 100, 042412	2.4	19
144	Self-adaptation of chimera states. *Physical Review E*, **2019**, 99, 010201	2.4	9
143	Clustering and Bellerophon state in Kuramoto model with second-order coupling. *Chaos*, **2019**, 29, 043102	3.3	5
142	Traveling chimera states. **2019**, 52, 104001		16
141	Abrupt Desynchronization and Extensive Multistability in Globally Coupled Oscillator Simplexes. *Physical Review Letters*, **2019**, 122, 248301	7.4	87
140	Network dynamics of coupled oscillators and phase reduction techniques. **2019**, 819, 1-105		56

139	Abnormal hybrid phase transition in the passively competing Kuramoto model. **2019**, 399, 186-192		3
138	Complexity reduction ansatz for systems of interacting orientable agents: Beyond the Kuramoto model. *Chaos*, **2019**, 29, 053107	3.3	14
137	Observable for a Large System of Globally Coupled Excitable Units. **2019**, 24, 37		2
136	Bifurcations in the Time-Delayed Kuramoto Model of Coupled Oscillators: Exact Results. **2019**, 176, 279-298		5
135	Synchronization in a Kuramoto model with delay-dependent couplings. **2019**, 9, 025026		2
134	Twisted states in nonlocally coupled phase oscillators with frequency distribution consisting of two Lorentzian distributions with the same mean frequency and different widths. **2019**, 14, e0213471		2
133	Repulsively coupled Kuramoto-Sakaguchi phase oscillators ensemble subject to common noise. *Chaos*, **2019**, 29, 033127	3.3	11
132	The Winfree model with heterogeneous phase-response curves: analytical results. **2019**, 52, 154001		5
131	Cluster singularity: The unfolding of clustering behavior in globally coupled Stuart-Landau oscillators. *Chaos*, **2019**, 29, 023107	3.3	12
130	Chimera state on a spherical surface of nonlocally coupled oscillators with heterogeneous phase lags. *Chaos*, **2019**, 29, 023101	3.3	2
129	Chimera patterns in three-dimensional locally coupled systems. *Physical Review E*, **2019**, 99, 022204	2.4	28
128	Symmetry and symmetry breaking in coupled oscillator communities. **2019**, 92, 1		3
127	Stabilization of direct numerical simulation for finite truncations of circular cumulant expansions. **2019**, 581, 012008		1
126	Aging transition under weighted conjugate coupling. *Europhysics Letters*, **2019**, 128, 58003	1.6	2
125	Chimera States in Networks of Locally and Non-locally Coupled SQUIDs. *Frontiers in Applied Mathematics and Statistics*, **2019**, 5,	2.2	3
124	Fully solvable lower dimensional dynamics of Cartesian product of Kuramoto models. **2019**, 21, 123019		1
123	Relaxation dynamics of Kuramoto model with heterogeneous coupling. **2019**, 28, 120503		0
122	Noise-induced macroscopic oscillations in a network of synaptically coupled quadratic integrate-and-fire neurons. *Physical Review E*, **2019**, 100, 052211	2.4	18

121	Two scenarios for the onset and suppression of collective oscillations in heterogeneous populations of active rotators. *Physical Review E*, **2019**, 100, 062211	2.4	6
120	Continuous versus Discontinuous Transitions in the D-Dimensional Generalized Kuramoto Model: Odd D is Different. **2019**, 9,		18
119	Multiscale interaction promotes chimera states in complex networks. *Communications in Nonlinear Science and Numerical Simulation*, **2019**, 71, 118-129	3.7	23
118	The dynamics in globally coupled phase oscillators with multi-peaked frequency distribution. *Communications in Nonlinear Science and Numerical Simulation*, **2020**, 81, 104997	3.7	2
117	Travelling chimera states in systems of phase oscillators with asymmetric nonlocal coupling. **2020**, 33, 611-642		10
116	Linear response theory for coupled phase oscillators with general coupling functions. **2020**, 53, 044001		3
115	Collective in-plane magnetization in a two-dimensional XY macrospin system within the framework of generalized Ott-Antonsen theory. **2020**, 378, 20190259		3
114	The Winfree model with non-infinitesimal phase-response curve: Ott-Antonsen theory. *Chaos*, **2020**, 30, 073139	3.3	3
113	Dynamics of the generalized Kuramoto model with nonlinear coupling: Bifurcation and stability. *Physical Review E*, **2020**, 102, 012219	2.4	7
112	Collective Dynamics and Bifurcations in Symmetric Networks of Phase Oscillators. I. **2020**, 249, 573-600		1
111	Universal scaling and phase transitions of coupled phase oscillator populations. *Physical Review E*, **2020**, 102, 042310	2.4	5
110	Model reduction for the collective dynamics of globally coupled oscillators: From finite networks to the thermodynamic limit. *Chaos*, **2020**, 30, 093107	3.3	4
109	Low-dimensional description for ensembles of identical phase oscillators subject to Cauchy noise. *Physical Review E*, **2020**, 102, 052315	2.4	3
108	Low-dimensional dynamics of phase oscillators driven by Cauchy noise. *Physical Review E*, **2020**, 102, 042220	2.4	4
107	Moving bumps in theta neuron networks. *Chaos*, **2020**, 30, 043117	3.3	9
106	The role of timescale separation in oscillatory ensembles with competitive coupling. *Chaos*, **2020**, 30, 051101	3.3	2
105	Emergence of second coherent regions for breathing chimera states. *Physical Review E*, **2020**, 101, 062203	2.4	5
104	Effective low-dimensional dynamics of a mean-field coupled network of slow-fast spiking lasers. *Physical Review E*, **2020**, 101, 052208	2.4	6

103	Synaptic Diversity Suppresses Complex Collective Behavior in Networks of Theta Neurons. **2020**, 14, 44		2
102	The effects of within-neuron degree correlations in networks of spiking neurons. **2020**, 114, 337-347		5
101	Introduction to Focus Issue: Symmetry and optimization in the synchronization and collective behavior of complex systems. *Chaos*, **2020**, 30, 060401	3.3	2
100	Competing synchronization on random networks. **2020**, 2020, 073407		1
99	Small and finite inertia in stochastic systems: Moment and cumulant formalisms. **2020**,		1
98	Kuramoto model in the presence of additional interactions that break rotational symmetry. *Physical Review E*, **2020**, 102, 012206	2.4	3
97	Critical Switching in Globally Attractive Chimeras. **2020**, 10,		8
96	Diversity of dynamical behaviors due to initial conditions: Extension of the Ott-Antonsen ansatz for identical Kuramoto-Sakaguchi phase oscillators. *Physical Review E*, **2020**, 101, 022211	2.4	2
95	Circular cumulant reductions for macroscopic dynamics of Kuramoto ensemble with multiplicative intrinsic noise. **2020**, 53, 08LT01		4
94	Symmetry breakings in two populations of oscillators coupled via diffusive environments: Chimera and heterosynchrony. *Physical Review E*, **2020**, 101, 042213	2.4	1
93	Classification of bifurcation diagrams in coupled phase-oscillator models with asymmetric natural frequency distributions. **2020**, 2020, 033403		1
92	Chimeras. **2021**, 898, 1-114		47
91	Stable plane waves in nonlocally coupled phase oscillators. **2021**, 11, 015304		
90	Spectrum of extensive multiclusters in the Kuramoto model with higher-order interactions. **2021**, 3,		11
89	Spatiotemporal Regimes in the Kuramoto Battogtokh System of Nonidentical Oscillators. **2021**, 132, 127-147		1
88	Multifidelity Approximate Bayesian Computation with Sequential Monte Carlo Parameter Sampling. **2021**, 9, 788-817		3
87	Collective Dynamics and Bifurcations in Symmetric Networks of Phase Oscillators. II. **2021**, 253, 204-229		
86	A reduction methodology for fluctuation driven population dynamics.		1

85	Dynamics of Structured Networks of Winfree Oscillators. **2021**, 15, 631377		3
84	Stability and bifurcation of collective dynamics in phase oscillator populations with general coupling. *Physical Review E*, **2021**, 103, 032307	2.4	4
83	Non-reciprocal phase transitions. **2021**, 592, 363-369		26
82	Effect of noise on the collective dynamics of a heterogeneous population of active rotators. *Chaos*, **2021**, 31, 043101	3.3	2
81	Reduction of the collective dynamics of neural populations with realistic forms of heterogeneity. *Physical Review E*, **2021**, 103, L040302	2.4	5
80	Effects of degree distributions in random networks of type-I neurons. *Physical Review E*, **2021**, 103, 052305	2.4	2
79	Using phase dynamics to study partial synchrony: three examples. 1		0
78	Exact solutions of the abrupt synchronization transitions and extensive multistability in globally coupled phase oscillator populations. **2021**, 54, 285702		2
77	Feedback-induced desynchronization and oscillation quenching in a population of globally coupled oscillators. *Physical Review E*, **2021**, 103, 062217	2.4	0
76	Hybrid-type synchronization transitions: Where incipient oscillations, scale-free avalanches, and bistability live together. **2021**, 3,		4
75	Reduction Methodology for Fluctuation Driven Population Dynamics. *Physical Review Letters*, **2021**, 127, 038301	7.4	8
74	The Sakaguchi-Kuramoto model in presence of asymmetric interactions that break phase-shift symmetry. *Chaos*, **2021**, 31, 083130	3.3	0
73	Impact of field heterogeneity on the dynamics of the forced Kuramoto model. *Physical Review E*, **2021**, 104, 024313	2.4	0
72	Ordered slow and fast dynamics of unsynchronized coupled phase oscillators. *Chaos*, **2021**, 31, 081102	3.3	2
71	Noise-induced dynamical regimes in a system of globally coupled excitable units. *Chaos*, **2021**, 31, 083103	3.3	0
70	A two-frequency-two-coupling model of coupled oscillators. *Chaos*, **2021**, 31, 083124	3.3	0
69	Mean-field models of populations of quadratic integrate-and-fire neurons with noise on the basis of the circular cumulant approach. *Chaos*, **2021**, 31, 083112	3.3	1
68	Spiral wave chimeras induced by heterogeneity in phase lags and time delays. **2021**, 422, 132892		2

67	The Kuramoto model on a sphere: Explaining its low-dimensional dynamics with group theory and hyperbolic geometry. *Chaos*, **2021**, 31, 093113	3.3	2
66	Emergence of Stripe-Core Mixed Spiral Chimera on a Spherical Surface of Nonlocally Coupled Oscillators. **2021**, 31, 2150182		0
65	Synchronization in multilayer networks through different coupling mechanisms.		
64	Collective dynamics of heterogeneously and nonlinearly coupled phase oscillators. **2021**, 3,		6
63	Data-driven stochastic modeling of coarse-grained dynamics with finite-size effects using Langevin regression. **2021**, 427, 133004		1
62	An Introduction to Emergence Dynamics in Complex Systems. **2021**, 133-196		1
61	Competitive suppression of synchronization and nonmonotonic transitions in oscillator communities with distributed time delay. **2019**, 1,		3
60	Ott-Antonsen ansatz truncation of a circular cumulant series. **2019**, 1,		17
59	Chimera states in small optomechanical arrays. **2020**, 2,		9
58	Is the Ott-Antonsen manifold attracting?. **2020**, 2,		11
57	Scaling law of transient lifetime of chimera states under dimension-augmenting perturbations. **2020**, 2,		3
56	Understanding the dynamics of biological and neural oscillator networks through exact mean-field reductions: a review. **2020**, 10, 9		60
55	Firing rate equations require a spike synchrony mechanism to correctly describe fast oscillations in inhibitory networks. **2017**, 13, e1005881		41
54	Control of Chimera States in Multilayer Networks. *Frontiers in Applied Mathematics and Statistics*, **2019**, 4,	2.2	15
53	Cluster Synchrony of High-Dimensional Kuramoto Models with Higher-Order Couplings. *SIAM Journal on Control and Optimization*, **2021**, 59, 4110-4135	1.9	
52	Synchronization of coupled phase oscillators: Order parameter theory. *Wuli Xuebao/Acta Physica Sinica*, **2020**, 69, 080502	0.6	
51	Attracting Poisson chimeras in two-population networks. *Chaos*, **2021**, 31, 113101	3.3	1
50	Collective dynamics of phase oscillator populations with three-body interactions.. *Physical Review E*, **2021**, 104, 054208	2.4	3

49	Interpolating between bumps and chimeras. *Chaos*, **2021**, 31, 113116	3.3	1
48	Exact dynamics of phase transitions in oscillator populations with nonlinear coupling. *Communications in Nonlinear Science and Numerical Simulation*, **2021**, 106129	3.7	1
47	Hierarchy of Exact Low-Dimensional Reductions for Populations of Coupled Oscillators.. *Physical Review Letters*, **2022**, 128, 054101	7.4	2
46	Phase transition to chimera state in two populations of oscillators interacting via a common external environment. *Europhysics Letters*,	1.6	0
45	Chimeras with uniformly distributed heterogeneity: Two coupled populations.. *Physical Review E*, **2022**, 105, 024306	2.4	
44	Extended mean-field approach for chimera states in random complex networks.. *Chaos*, **2022**, 32, 033108	3.3	
43	Influence of asymmetric parameters in higher-order coupling with bimodal frequency distribution.. *Physical Review E*, **2022**, 105, 034307	2.4	0
42	Collective states in a ring network of theta neurons.. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, **2022**, 478, 20210817	2.4	2
41	Collective Activity Bursting in a Population of Excitable Units Adaptively Coupled to a Pool of Resources. **2022**, 2,		1
40	Phase-locking in k-partite networks of delay-coupled oscillators. *Chaos, Solitons and Fractals*, **2022**, 157, 111947	9.3	
39	Role of phase-dependent influence function in the Winfree model of coupled oscillators.. *Physical Review E*, **2021**, 104, 064206	2.4	
38	A new class of chimeras in locally coupled oscillators with small-amplitude, high-frequency asynchrony and large-amplitude, low-frequency synchrony.. *Chaos*, **2021**, 31, 123111	3.3	1
37	Bursting in a next generation neural mass model with synaptic dynamics: a slow–fast approach. *Nonlinear Dynamics*, 1	5	0
36	Explosive Synchronization and Multistability in Large Systems of Kuramoto Oscillators with Higher-Order Interactions. *Understanding Complex Systems*, **2022**, 217-232	0.4	
35	Tiered synchronization in coupled oscillator populations with interaction delays and higher-order interactions. *Chaos*, **2022**, 32, 053120	3.3	2
34	Partial locking in phase-oscillator populations with heterogenous coupling. *Chaos*, **2022**, 32, 063106	3.3	0
33	Efficient moment-based approach to the simulation of infinitely many heterogeneous phase oscillators. *Chaos*, **2022**, 32, 063124	3.3	1
32	Synchronization Regimes in an Ensemble of Phase Oscillators Coupled Through a Diffusion Field. *Radiophysics and Quantum Electronics*, **2022**, 64, 709-725	0.7	1

31	First-order route to antiphase clustering in adaptive simplicial complexes. *Physical Review E*, **2022**, 105,	2.4	0
30	Exact mean-field models for spiking neural networks with adaptation. *Journal of Computational Neuroscience*,	1.4	0
29	Explosive behaviour in networks of Winfree oscillators. *Chaos, Solitons and Fractals*, **2022**, 160, 112254	9.3	
28	Mean-field approximations with adaptive coupling for networks with spike-timing-dependent plasticity.		0
27	Multiple Self-Locking in the Kuramoto--Sakaguchi System with Delay. *SIAM Journal on Applied Dynamical Systems*, **2022**, 21, 1709-1725	2.8	
26	Synchronization in the Kuramoto model in presence of stochastic resetting. *Chaos*, **2022**, 32, 073109	3.3	3
25	Chimeras on annuli. **2022**, 32, 083105		
24	Generic criterion for explosive synchronization in heterogeneous phase oscillator populations. **2022**, 4,		1
23	A global bifurcation organizing rhythmic activity in a coupled network. **2022**, 32, 083116		1
22	Self-emerging symmetry breakings in a two-population network of phase oscillators interacting via an external environment. **2022**, 440, 133483		
21	Dynamics of a Reduced System Connected to the Investigation of an Infinite Network of Identical Theta Neurons. **2022**, 10, 3245		0
20	Entrainment degree of globally coupled Winfree oscillators under external forcing. **2022**, 32, 103121		0
19	Exact finite-dimensional reduction for a population of noisy oscillators and its link to Ott�Antonsen and Watanabe�Strogatz theories. **2022**, 32, 113126		0
18	Sync and Swarm: Solvable Model of Nonidentical Swarmalators. **2022**, 129,		0
17	Extracting Phase Coupling Functions between Collectively Oscillating Networks from Time-Series Data. **2022**, 91,		0
16	Critical visit to the chimera world. **2023**, 166, 112991		0
15	Abrupt desynchronization and abrupt transition to �state in globally coupled oscillator simplexes with contrarians and conformists. **2023**, 167, 113018		0
14	Periodic orbits in the Ott�Antonsen manifold. **2023**, 36, 845-861		0

13	Chimeras on a ring of oscillator populations. **2023**, 33, 013121	0
12	Shot noise in next-generation neural mass models for finite-size networks. **2022**, 106,	0
11	Generalization of the Kuramoto model to the Winfree model by a symmetry breaking coupling. **2023**, 138,	0
10	Signal propagation in complex networks. **2023**, 1017, 1-96	0
9	Statistics of synchronization times in Kuramoto oscillators. **2023**, 141, 53001	0
8	Asymmetric spiral chimeras on a spheric surface of nonlocally coupled phase oscillators. **2023**, 107,	0
7	Critical brain wave dynamics of neuronal avalanches. 11,	0
6	Multistability in coupled oscillator systems with higher-order interactions and community structure. **2023**, 33, 023140	1
5	Exact finite-dimensional description for networks of globally coupled spiking neurons. **2023**, 107,	0
4	Synchronization-desynchronization transitions in networks of circle maps with sinusoidal coupling.	0
3	Neuronal avalanches: Sandpiles of self-organized criticality or critical dynamics of brain waves?. **2023**, 18,	0
2	Abrupt symmetry-preserving transition from the chimera state. **2023**, 107,	0
1	Spatial distribution of heterogeneity as a modulator of collective dynamics in pancreatic beta-cell networks and beyond. 3,	0