Per Sebastian Skardal

List of Publications by Year
in descending order

38	1,209	535685 17	406436 35
papers	citations	h-index	g-index

39	39	39	838
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Balanced Hodge Laplacians optimize consensus dynamics over simplicial complexes. Chaos, 2022, 32, 023128.	1.0	16
2	Tiered synchronization in coupled oscillator populations with interaction delays and higher-order interactions. Chaos, 2022, 32, .	1.0	6
3	Spectrum of extensive multiclusters in the Kuramoto model with higher-order interactions. Physical Review Research, 2021, 3, .	1.3	23
4	Geometric unfolding of synchronization dynamics on networks. Chaos, 2021, 31, 061105.	1.0	6
5	Memory selection and information switching in oscillator networks with higher-order interactions. Journal of Physics Complexity, 2021, 2, 015003.	0.9	14
6	Chaos in nonlinear random walks with nonmonotonic transition probabilities. Physical Review Research, 2021, 3, .	1.3	5
7	Higher-order interactions can better optimize network synchronization. Physical Review Research, 2021, 3, .	1.3	32
8	Universal scaling and phase transitions of coupled phase oscillator populations. Physical Review E, 2020, 102, 042310.	0.8	10
9	Higher order interactions in complex networks of phase oscillators promote abrupt synchronization switching. Communications Physics, 2020, 3, .	2.0	131
10	Quasiperiodic dynamics and a Neimark-Sacker bifurcation in nonlinear random walks on complex networks. Physical Review E, 2020, 101, 012307.	0.8	4
11	Bifurcation analysis and structural stability of simplicial oscillator populations. Physical Review Research, 2020, 2, .	1.3	36
12	Abrupt Desynchronization and Extensive Multistability in Globally Coupled Oscillator Simplexes. Physical Review Letters, 2019, 122, 248301.	2.9	161
13	Symmetry and symmetry breaking in coupled oscillator communities. European Physical Journal B, 2019, 92, 1.	0.6	6
14	Synchronization of Network-Coupled Oscillators with Uncertain Dynamics. SIAM Journal on Applied Mathematics, 2019, 79, 2409-2433.	0.8	7
15	Dynamics of Nonlinear Random Walks on Complex Networks. Journal of Nonlinear Science, 2019, 29, 1419-1444.	1.0	9
16	Competitive suppression of synchronization and nonmonotonic transitions in oscillator communities with distributed time delay. Physical Review Research, 2019, 1, .	1.3	3
17	Stability Diagram, Hysteresis, and Critical Time Delay and Frequency for the Kuramoto Model with Heterogeneous Interaction Delays. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1830014.	0.7	9
18	Low-dimensional dynamics of the Kuramoto model with rational frequency distributions. Physical Review E, 2018, 98, 022207.	0.8	17

#	Article	IF	Citations
19	Collective Phenomena Emerging from the Interactions between Dynamical Processes in Multiplex Networks. Physical Review Letters, 2017, 118, 138302.	2.9	107
20	Diffusion dynamics and synchronizability of hierarchical products of networks. Physical Review E, 2017, 96, 042302.	0.8	1
21	Optimal synchronization of directed complex networks. Chaos, 2016, 26, 094807.	1.0	22
22	On controlling networks of limit-cycle oscillators. Chaos, 2016, 26, 094812.	1.0	9
23	Erosion of synchronization: Coupling heterogeneity and network structure. Physica D: Nonlinear Phenomena, 2016, 323-324, 40-48.	1.3	10
24	Spectral properties of the hierarchical product of graphs. Physical Review E, 2016, 94, 052311.	0.8	4
25	Collective frequency variation in network synchronization and reverse PageRank. Physical Review E, 2016, 93, 042314.	0.8	11
26	Synchronization of Heterogeneous Oscillators Under Network Modifications: Perturbation and Optimization of the Synchrony Alignment Function. SIAM Journal on Applied Mathematics, 2016, 76, 1984-2008.	0.8	23
27	Frequency assortativity can induce chaos in oscillator networks. Physical Review E, 2015, 91, 060902.	0.8	24
28	Control of coupled oscillator networks with application to microgrid technologies. Science Advances, 2015, 1, e1500339.	4.7	82
29	Erosion of synchronization in networks of coupled oscillators. Physical Review E, 2015, 91, 010802.	0.8	52
30	Spatiotemporal dynamics of calcium-driven cardiac alternans. Physical Review E, 2014, 89, 052707.	0.8	7
31	Coexisting chaotic and multi-periodic dynamics in a model of cardiac alternans. Chaos, 2014, 24, 043126.	1.0	15
32	Disorder induces explosive synchronization. Physical Review E, 2014, 89, 062811.	0.8	51
33	Optimal Synchronization of Complex Networks. Physical Review Letters, 2014, 113, 144101.	2.9	119
34	Complex macroscopic behavior in systems of phase oscillators with adaptive coupling. Physica D: Nonlinear Phenomena, 2014, 267, 27-35.	1.3	31
35	Synchronization of Kuramoto oscillators in networks of networks. IEICE Proceeding Series, 2014, 1, 171-174.	0.0	0
36	Hierarchical synchrony of phase oscillators in modular networks. Physical Review E, 2012, 85, 016208.	0.8	65

#	Article	IF	Citations
37	Unidirectional Pinning and Hysteresis of Spatially Discordant Alternans in Cardiac Tissue. Physical Review Letters, 2012, 108, 108103.	2.9	10
38	Cluster synchrony in systems of coupled phase oscillators with higher-order coupling. Physical Review E, 2011, 84, 036208.	0.8	70