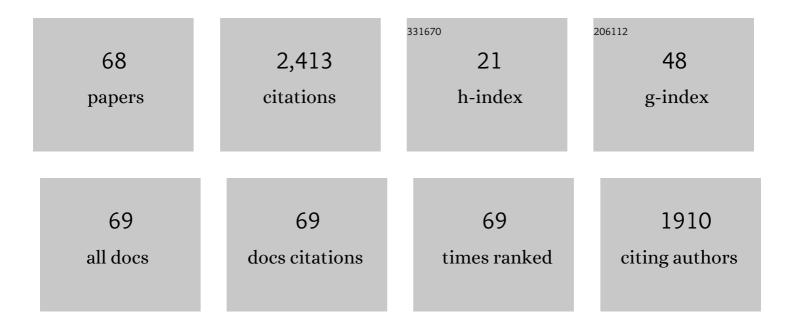
## Francesco Sorrentino

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Cluster synchronization and isolated desynchronization in complex networks with symmetries. Nature Communications, 2014, 5, 4079.	12.8	418
2	Controllability of complex networks via pinning. Physical Review E, 2007, 75, 046103.	2.1	382
3	Complete characterization of the stability of cluster synchronization in complex dynamical networks. Science Advances, 2016, 2, e1501737.	10.3	174
4	Adaptive Synchronization of Dynamics on Evolving Complex Networks. Physical Review Letters, 2008, 100, 114101.	7.8	134
5	Network synchronization of groups. Physical Review E, 2007, 76, 056114.	2.1	119
6	Synchronization of hypernetworks of coupled dynamical systems. New Journal of Physics, 2012, 14, 033035.	2.9	109
7	Experimental Observations of Group Synchrony in a System of Chaotic Optoelectronic Oscillators. Physical Review Letters, 2013, 110, 064104.	7.8	91
8	Synchronization of dynamical hypernetworks: Dimensionality reduction through simultaneous block-diagonalization of matrices. Physical Review E, 2012, 86, 056102.	2.1	70
9	Inhibition Causes Ceaseless Dynamics in Networks of Excitable Nodes. Physical Review Letters, 2014, 112, 138103.	7.8	67
10	Energy scaling of targeted optimal control of complex networks. Nature Communications, 2017, 8, 15145.	12.8	63
11	Symmetries and cluster synchronization in multilayer networks. Nature Communications, 2020, 11, 3179.	12.8	60
12	Symmetry- and input-cluster synchronization in networks. Physical Review E, 2018, 97, 042217.	2.1	59
13	Structural permeability of complex networks to control signals. Nature Communications, 2015, 6, 8349.	12.8	57
14	Synchronization states and multistability in a ring of periodic oscillators: Experimentally variable coupling delays. Chaos, 2013, 23, 043117.	2.5	43
15	Approximate cluster synchronization in networks with symmetries and parameter mismatches. Chaos, 2016, 26, 094823.	2.5	40
16	SYNCHRONIZABILITY AND SYNCHRONIZATION DYNAMICS OF WEIGHED AND UNWEIGHED SCALE FREE NETWORKS WITH DEGREE MIXING. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 2419-2434.	1.7	36
17	Locally Optimal Control of Complex Networks. Physical Review Letters, 2017, 119, 268301.	7.8	32
18	Adaptive synchronization of coupled chaotic oscillators. Physical Review E, 2009, 80, 056205.	2.1	29

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#	Article	IF	CITATIONS
19	The stability of adaptive synchronization of chaotic systems. Chaos, 2010, 20, 013103.	2.5	28
20	Cluster Synchronization in Multilayer Networks: A Fully Analog Experiment with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"&gt;<mml:mi>L</mml:mi><mml:mi>C</mml:mi> Oscillators with Physically Dissimilar Coupling. Physical Review Letters, 2019, 122, 014101.</mml:math 	7.8	28
21	Using synchronization of chaos to identify the dynamics of unknown systems. Chaos, 2009, 19, 033108.	2.5	26
22	Estimation of communication-delays through adaptive synchronization of chaos. Chaos, Solitons and Fractals, 2012, 45, 35-46.	5.1	20
23	Symmetry effects on naturally arising chimera states in mechanical oscillator networks. Chaos, 2016, 26, 116307.	2.5	20
24	Symmetry induced group consensus. Chaos, 2019, 29, 073101.	2.5	18
25	Using synchronism of chaos for adaptive learning of time-evolving network topology. Physical Review E, 2009, 79, 016201.	2.1	17
26	Prediction of Optimal Drug Schedules for Controlling Autophagy. Scientific Reports, 2019, 9, 1428.	3.3	17
27	Analyzing synchronized clusters in neuron networks. Scientific Reports, 2020, 10, 16336.	3.3	17
28	On Node Controllability and Observability in Complex Dynamical Networks. , 2019, 3, 847-852.		14
29	Group Consensus in Multilayer Networks. IEEE Transactions on Network Science and Engineering, 2020, 7, 2016-2026.	6.4	13
30	One-way dependent clusters and stability of cluster synchronization in directed networks. Nature Communications, 2021, 12, 4073.	12.8	13
31	Controlling Symmetries and Clustered Dynamics of Complex Networks. IEEE Transactions on Network Science and Engineering, 2021, 8, 282-293.	6.4	13
32	Optimal control of complex networks: Balancing accuracy and energy of the control action. Chaos, 2017, 27, 041103.	2.5	12
33	Symmetries in the time-averaged dynamics of networks: Reducing unnecessary complexity through minimal network models. Chaos, 2019, 29, 011101.	2.5	12
34	Identification of delays and discontinuity points of unknown systems by using synchronization of chaos. Physical Review E, 2010, 81, 066218.	2.1	11
35	Optimal regulation of blood glucose level in Type I diabetes using insulin and glucagon. PLoS ONE, 2019, 14, e0213665.	2.5	11
36	Control Distance and Energy Scaling of Complex Networks. IEEE Transactions on Network Science and Engineering, 2020, 7, 726-736.	6.4	11

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#	Article	IF	CITATIONS
37	Cluster synchronization of networks via a canonical transformation for simultaneous block diagonalization of matrices. Chaos, 2021, 31, 111102.	2.5	11
38	Dynamic synchronization of a time-evolving optical network of chaotic oscillators. Chaos, 2010, 20, 043142.	2.5	9
39	Matryoshka and disjoint cluster synchronization of networks. Chaos, 2022, 32, 041101.	2.5	8
40	Stability analysis of reservoir computers dynamics via Lyapunov functions. Chaos, 2019, 29, 103147.	2.5	7
41	Data-driven optimized control of the COVID-19 epidemics. Scientific Reports, 2021, 11, 6525.	3.3	7
42	Generating Graphs with Symmetry. IEEE Transactions on Network Science and Engineering, 2019, 6, 836-843.	6.4	6
43	Modal Decomposition of the Linear Swing Equation in Networks With Symmetries. IEEE Transactions on Network Science and Engineering, 2021, 8, 2482-2494.	6.4	6
44	Reservoir computing with random and optimized time-shifts. Chaos, 2021, 31, 121103.	2.5	6
45	Energy Scaling with Control Distance in Complex Networks. , 2018, , .		5
46	Generating symmetric graphs. Chaos, 2018, 28, 121102.	2.5	5
47	Targeted synchronization in an externally driven population of mechanical oscillators. Chaos, 2018, 28, 111102.	2.5	5
48	Selecting energy efficient inputs using graph structure. International Journal of Control, 2023, 96, 987-999.	1.9	5
49	Estimating the structure of small dynamical networks from the state time evolution of one node. Physical Review E, 2013, 87, 012915.	2.1	4
50	Optimal control of networks in the presence of attackers and defenders. Chaos, 2018, 28, 051103.	2.5	4
51	The controllability Gramian of lattice graphs. Automatica, 2020, 114, 108833.	5.0	4
52	Controlling network ensembles. Nature Communications, 2021, 12, 1884.	12.8	4
53	Group synchrony, parameter mismatches, and intragroup connections. Physical Review E, 2021, 104, 054314.	2.1	4
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54 Decentralized estimation of topology changes in wireless robotic networks. , 2013, , .

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#	Article	IF	CITATIONS
55	Control Energy of Lattice Graphs. , 2018, , .		3
56	An Algorithm for Finding Equitable Clusters in Multi-Layer Networks. , 2020, , .		3
57	Group Synchrony in an Experimental System of Delay-coupled Optoelectronic Oscillators. IEICE Proceeding Series, 2014, 1, 70-73.	0.0	3
58	Supermodal Decomposition of the Linear Swing Equation for Multilayer Networks. IEEE Access, 2022, 10, 72658-72670.	4.2	3
59	Stable formation of groups of robots via synchronization. , 2014, , .		2
60	A Data-Driven Model for Simulating the Evolution of Transmission Line Failure in Power Grids. , 2018, ,		2
61	Failure of the simultaneous block diagonalization technique applied to complete and cluster synchronization of random networks. Physical Review E, 2022, 105, 014313.	2.1	2
62	Looking beyond community structure leads to the discovery of dynamical communities in weighted networks. Scientific Reports, 2022, 12, 4524.	3.3	2
63	Mitigating Cascading Failures in Power Grids via Markov Decision-Based Load-Shedding With DC Power Flow Model. IEEE Systems Journal, 2022, 16, 4048-4059.	4.6	2
64	Symmetry-driven network reconstruction through pseudobalanced coloring optimization. Journal of Statistical Mechanics: Theory and Experiment, 2022, 2022, 073403.	2.3	2
65	Experimental observations of synchronization between two bidirectionally coupled physically dissimilar oscillators. Physical Review E, 2020, 102, 042215.	2.1	1
66	Delays induced cluster synchronization in chaotic networks. Chaos, 2020, 30, 121105.	2.5	1
67	Controlling consensus in networks with symmetries. International Journal of Control, 2022, 95, 2943-2959.	1.9	0
68	Synchronization patterns of an experimental ring of coupled optoelectronic oscillators. IEICE Proceeding Series, 2014, 2, 404-404.	0.0	0