

D Jrgen Kurths

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.

964
papers

53,118
citations

105
h-index

206
g-index

1,027
ext. papers

60,848
ext. citations

4.1
avg, IF

8.1
L-index

#	Paper	IF	Citations
964	Black-Box Impedance Prediction of Grid-Tied VSCs Under Variable Operating Conditions. <i>IEEE Access</i> , 2022 , 10, 1289-1304	3.5	0
963	Pinning Asymptotic Stabilization of Probabilistic Boolean Networks: A Digraph Approach. <i>IEEE Transactions on Control of Network Systems</i> , 2022 , 1-1	4	0
962	Eliminating poverty through social mobility promotes cooperation in social dilemmas. <i>Chaos, Solitons and Fractals</i> , 2022 , 156, 111845	9.3	0
961	Finite-time and fixed-time synchronization analysis of shunting inhibitory memristive neural networks with time-varying delays. <i>Chaos, Solitons and Fractals</i> , 2022 , 156, 111866	9.3	2
960	Relay interlayer synchronisation: invariance and stability conditions. <i>Nonlinearity</i> , 2022 , 35, 681-718	1.7	5
959	Robust fixed-time connectivity preserving consensus of nonlinear multi-agent systems with disturbance. <i>International Journal of Robust and Nonlinear Control</i> , 2022 , 32, 1469	3.6	1
958	MF DFA: Efficient multifractal detrended fluctuation analysis in python. <i>Computer Physics Communications</i> , 2022 , 273, 108254	4.2	8
957	Abnormal detection technology of industrial control system based on transfer learning. <i>Applied Mathematics and Computation</i> , 2022 , 412, 126539	2.7	1
956	Heritable Deleting Strategies for Birth and Death Evolving Networks From a Queueing System Perspective. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022 , 1-12	7.3	2
955	GB20 Pharmacopuncture As a Potential Method for Brain Drug Delivery via the Perivascular Spaces. <i>JAMS Journal of Acupuncture and Meridian Studies</i> , 2022 , 15, 43-49	1.2	
954	Transitions in a noisy birhythmic vibro-impact oscillator with improved memory damping regime. <i>Nonlinear Dynamics</i> , 2022 , 108, 1045-1070	5	1
953	Collective nonlinear dynamics and self-organization in decentralized power grids. <i>Reviews of Modern Physics</i> , 2022 , 94,	40.5	9
952	Evolutionary multigame with conformists and profiteers based on dynamic complex networks.. <i>Chaos</i> , 2022 , 32, 023117	3.3	5
951	Extreme events in a class of nonlinear Duffing-type oscillators with a parametric periodic force. <i>European Physical Journal Plus</i> , 2022 , 137, 1	3.1	
950	Early warning of noise-induced catastrophic high-amplitude oscillations in an airfoil model.. <i>Chaos</i> , 2022 , 32, 033119	3.3	1
949	Investigation into the coherence of flame intensity oscillations in a model multi-element rocket combustor using complex networks. <i>Physics of Fluids</i> , 2022 , 34, 034107	4.4	2
948	Early warning of the Indian Ocean Dipole using climate network analysis.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2109089119	11.5	0

947	Oscillation quenching in diffusively coupled dynamical networks with inertial effects.. <i>Chaos</i> , 2022 , 32, 041102	3.3	0
946	Fully distributed observer-based consensus protocol: Adaptive dynamic event-triggered schemes. <i>Automatica</i> , 2022 , 139, 110188	5.7	5
945	The climatic interdependence of extreme-rainfall events around the globe.. <i>Chaos</i> , 2022 , 32, 043126	3.3	0
944	Phase Coherence Between Surrounding Oceans Enhances Precipitation Shortages in Northeast Brazil. <i>Geophysical Research Letters</i> , 2022 , 49,	4.9	
943	Coherence-resonance chimeras in coupled HR neurons with alpha-stable Lévy noise. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2022 , 2022, 053501	1.9	0
942	Cooperative and Competitive Multi-Agent Systems: From Optimization to Games. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2022 , 9, 763-783	7	5
941	Impulsive feedback control of birhythmicity: Theory and experiment. <i>Chaos</i> , 2022 , 32, 053125	3.3	1
940	Perspectives on the importance of complex systems in understanding our climate and climate change—the Nobel Prize in Physics 2021. <i>Chaos</i> , 2022 , 32, 052102	3.3	0
939	Emergency rate-driven control for rotor angle instability in power systems. <i>Chaos</i> , 2022 , 32, 061102	3.3	
938	Generalized Swing Equation and Transient Synchronous Stability with PLL-based VSC. <i>IEEE Transactions on Energy Conversion</i> , 2021 , 1-1	5.4	3
937	A Novel Method to Stimulate Lymphatic Clearance of Beta-Amyloid from Mouse Brain Using Noninvasive Music-Induced Opening of the Blood-Brain Barrier with EEG Markers. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10287	2.6	1
936	Enhanced synchronization due to intermittent noise. <i>New Journal of Physics</i> , 2021 , 23, 112001	2.9	4
935	Rate-dependent tipping and early warning in a thermoacoustic system under extreme operating environment. <i>Chaos</i> , 2021 , 31, 113115	3.3	2
934	How heterogeneity in connections and cycles matter for synchronization of complex networks. <i>Chaos</i> , 2021 , 31, 113134	3.3	2
933	Mixed-mode oscillations for slow-fast perturbed systems. <i>Physica Scripta</i> , 2021 , 96, 125258	2.6	1
932	The impact of COVID-19 on the worldwide air transportation network. <i>Royal Society Open Science</i> , 2021 , 8, 210682	3.3	5
931	Network-based forecasting of climate phenomena. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3
930	Quaternion-Based Attitude Synchronization With an Event-Based Communication Strategy. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021 , 1-14	3.9	2

929	IEEE Access Special Section Editorial: Big Data Learning and Discovery. <i>IEEE Access</i> , 2021 , 9, 158064-158073	3.3	1
928	Protection Degree and Migration in the Stochastic SIRS Model: A Queueing System Perspective. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021 , 1-13	3.9	3
927	Fixed-time formation tracking for multiple nonholonomic wheeled mobile robots based on distributed observer. <i>Nonlinear Dynamics</i> , 2021 , 106, 3331	5	2
926	Dynamical ergodicity DDA reveals causal structure in time series. <i>Chaos</i> , 2021 , 31, 103108	3.3	0
925	Ubiquity of ring structures in the control space of complex oscillators. <i>Chaos</i> , 2021 , 31, 101102	3.3	4
924	Quantifying the parameter dependent basin of the unsafe regime of asymmetric Ly-noise-induced critical transitions. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2021 , 42, 65-84	3.2	16
923	Optimization of coupling and global collapse in diffusively coupled socio-ecological resource exploitation networks. <i>New Journal of Physics</i> , 2021 , 23, 033027	2.9	1
922	Dynamic community discovery via common subspace projection. <i>New Journal of Physics</i> , 2021 , 23, 033029	2.9	2
921	Nonlinear Modeling of Multi-Converter Systems Within DC-Link Timescale. <i>IEEE Journal on Emerging and Selected Topics in Circuits and Systems</i> , 2021 , 11, 5-16	5.2	7
920	Rate-dependent bifurcation dodging in a thermoacoustic system driven by colored noise. <i>Nonlinear Dynamics</i> , 2021 , 104, 2733-2743	5	7
919	Scientometric analysis of the Chaos journal (1991-2019): From descriptive statistics to complex networks viewpoints. <i>Chaos</i> , 2021 , 31, 043105	3.3	3
918	Emergence of Neuronal Synchronisation in Coupled Areas. <i>Frontiers in Computational Neuroscience</i> , 2021 , 15, 663408	3.5	4
917	Enhanced multiresolution wavelet analysis of complex dynamics in nonlinear systems. <i>Chaos</i> , 2021 , 31, 043110	3.3	4
916	Early Warning of the Pacific Decadal Oscillation Phase Transition Using Complex Network Analysis. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091674	4.9	3
915	Complex systems approaches for Earth system data analysis. <i>Journal of Physics Complexity</i> , 2021 , 2, 011008	10.8	5
914	Suppression of thermoacoustic instability by targeting the hubs of the turbulent networks in a bluff body stabilized combustor. <i>Journal of Fluid Mechanics</i> , 2021 , 916,	3.7	13
913	Detection of dynamical regime transitions with lacunarity as a multiscale recurrence quantification measure. <i>Nonlinear Dynamics</i> , 2021 , 104, 3955	5	4
912	Characterizing stochastic resonance in a triple cavity. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 20200230	3	4

911	Resonance characteristics of stochastic dual Duffing oscillators with coupled APHC. <i>Journal of Sound and Vibration</i> , 2021 , 498, 115981	3.9	0
910	Recurrence analysis of extreme event-like data. <i>Nonlinear Processes in Geophysics</i> , 2021 , 28, 213-229	2.9	1
909	Changes in blood-brain barrier permeability characterized from electroencephalograms with a combined wavelet and fluctuation analysis. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	3
908	Quantifying model uncertainty for the observed non-Gaussian data by the Hellinger distance. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021 , 96, 105720	3.7	1
907	First-passage problem for stochastic differential equations with combined parametric Gaussian and Lévy white noises via path integral method. <i>Journal of Computational Physics</i> , 2021 , 435, 110264	4.1	11
906	Performance measures after perturbations in the presence of inertia. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021 , 97, 105727	3.7	0
905	Statistical analysis of tipping pathways in agent-based models. <i>European Physical Journal: Special Topics</i> , 2021 , 230, 3249	2.3	1
904	Brain Mechanisms of COVID-19-Sleep Disorders. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	5
903	Interacting tipping elements increase risk of climate domino effects under global warming. <i>Earth System Dynamics</i> , 2021 , 12, 601-619	4.8	61
902	Biophotonic Strategies of Measurement and Stimulation of the Cranial and the Extracranial Lymphatic Drainage Function. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021 , 27, 1-13	3.8	3
901	Photomodulation of lymphatic delivery of liposomes to the brain bypassing the blood-brain barrier: new perspectives for glioma therapy. <i>Nanophotonics</i> , 2021 , 10, 3215-3227	6.3	5
900	Spatial patterns in EEG activity during monotonous sound perception test. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	1
899	Succinct Representation of Dynamic Networks. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2021 , 33, 2983-2994	4.2	2
898	Hybrid Neural Adaptive Control for Practical Tracking of Markovian Switching Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , 32, 2157-2168	10.3	0
897	Statistical physics approaches to the complex Earth system. <i>Physics Reports</i> , 2021 , 896, 1-84	27.7	28
896	Dynamic transport: From bifurcation to multistability. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021 , 95, 105600	3.7	12
895	Synchronization of coupled memristive competitive BAM neural networks with different time scales. <i>Neurocomputing</i> , 2021 , 427, 110-117	5.4	6
894	Consensus of heterogeneous discrete-time multi-agent systems with noise over Markov switching topologies. <i>International Journal of Robust and Nonlinear Control</i> , 2021 , 31, 1530-1541	3.6	4

893	Extended detrended fluctuation analysis: effects of nonstationarity and application to sleep data. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	7
892	. <i>IEEE Access</i> , 2021 , 9, 95083-95086	3.5	
891	Multitask GANs for Semantic Segmentation and Depth Completion With Cycle Consistency. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , 32, 5404-5415	10.3	1
890	Event-triggered Fixed-time Attitude Consensus with Fixed and Switching Topologies. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	3
889	Asymptotic Stability of Boolean Networks with Multiple Missing Data. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	7
888	Fast-Slow-Scale Interaction Induced Parallel Resonance and its Suppression in Voltage Source Converters. <i>IEEE Access</i> , 2021 , 1-1	3.5	2
887	Optimal mean-square consensus for heterogeneous multi-agent system with probabilistic time delay. <i>IET Control Theory and Applications</i> , 2021 , 15, 1043-1053	2.5	1
886	New color image cryptosystem via SHA-512 and hybrid domain. <i>Multimedia Tools and Applications</i> , 2021 , 80, 18875-18899	2.5	4
885	A unified and automated approach to attractor reconstruction. <i>New Journal of Physics</i> , 2021 , 23, 033017	2.9	10
884	Effects of propagation delay in coupled oscillators under direct-indirect coupling: Theory and experiment. <i>Chaos</i> , 2021 , 31, 073115	3.3	0
883	Neuronal synchronization in long-range time-varying networks. <i>Chaos</i> , 2021 , 31, 073129	3.3	2
882	Finite-time and fixed-time synchronization for a class of memristor-based competitive neural networks with different time scales. <i>Chaos, Solitons and Fractals</i> , 2021 , 148, 111033	9.3	2
881	Chimera states in coupled Hindmarsh-Rose neurons with stable noise. <i>Chaos, Solitons and Fractals</i> , 2021 , 148, 110976	9.3	6
880	Fixed-interval smoothing of an aeroelastic airfoil model with cubic or free-play nonlinearity in incompressible flow. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021 , 37, 1168	2	4
879	Evolving climate network perspectives on global surface air temperature effects of ENSO and strong volcanic eruptions. <i>European Physical Journal: Special Topics</i> , 2021 , 230, 3075	2.3	1
878	Modified wavelet analysis of ECoG-pattern as promising tool for detection of the blood-brain barrier leakage. <i>Scientific Reports</i> , 2021 , 11, 18505	4.9	3
877	Projective synchronization of memristive multidirectional associative memory neural networks via self-triggered impulsive control and its application to image protection. <i>Chaos, Solitons and Fractals</i> , 2021 , 150, 111110	9.3	1
876	Nonlinear consensus-based autonomous vehicle platoon control under event-triggered strategy in the presence of time delays. <i>Applied Mathematics and Computation</i> , 2021 , 404, 126246	2.7	2

875	A stochastic nonlinear differential propagation model for underwater acoustic propagation: Theory and solution. <i>Chaos, Solitons and Fractals</i> , 2021 , 150, 111105	9.3	0
874	Dynamic analysis of disease progression in Alzheimer's disease under the influence of hybrid synapse and spatially correlated noise. <i>Neurocomputing</i> , 2021 , 456, 23-35	5.4	1
873	Quenching, aging, and reviving in coupled dynamical networks. <i>Physics Reports</i> , 2021 , 931, 1-72	27.7	21
872	Dynamic analysis of synaptic loss and synaptic compensation in the process of associative memory ability decline in Alzheimer's disease. <i>Applied Mathematics and Computation</i> , 2021 , 408, 126372	2.7	0
871	Abnormal flow detection in industrial control network based on deep reinforcement learning. <i>Applied Mathematics and Computation</i> , 2021 , 409, 126379	2.7	2
870	Reducing the bystander effect via decreasing group size to solve the collective-risk social dilemma. <i>Applied Mathematics and Computation</i> , 2021 , 410, 126445	2.7	0
869	Fixed-Time Output Synchronization of Coupled Reaction-Diffusion Neural Networks With Delayed Output Couplings. <i>IEEE Transactions on Network Science and Engineering</i> , 2021 , 8, 780-789	4.9	5
868	Mechanisms of Sound-Induced Opening of the Blood-Brain Barrier. <i>Advances in Experimental Medicine and Biology</i> , 2021 , 1269, 197-202	3.6	2
867	Small-Signal Stability of Multi-Converter Infeed Power Grids with Symmetry. <i>Symmetry</i> , 2021 , 13, 157	2.7	3
866	Macroscopic approximation methods for the analysis of adaptive networked agent-based models: Example of a two-sector investment model. <i>Physical Review E</i> , 2020 , 102, 042311	2.4	
865	Rate-dependent tipping-delay phenomenon in a thermoacoustic system with colored noise. <i>Science China Technological Sciences</i> , 2020 , 63, 2315-2327	3.5	27
864	Optimal design of hydrometric station networks based on complex network analysis. <i>Hydrology and Earth System Sciences</i> , 2020 , 24, 2235-2251	5.5	19
863	Extended detrended fluctuation analysis of sound-induced changes in brain electrical activity. <i>Chaos, Solitons and Fractals</i> , 2020 , 139, 109989	9.3	9
862	Distributed event-triggered adaptive partial diffusion strategy under dynamic network topology. <i>Chaos</i> , 2020 , 30, 063103	3.3	1
861	Precursor criteria for noise-induced critical transitions in multi-stable systems. <i>Nonlinear Dynamics</i> , 2020 , 101, 21-35	5	10
860	Adaptive clustering based on element-wised distance for distributed estimation over multi-task networks. <i>Chaos</i> , 2020 , 30, 053116	3.3	0
859	Event-Triggered Consensus Control for High-Speed Train With Time-Varying Actuator Fault. <i>IEEE Access</i> , 2020 , 8, 50553-50564	3.5	5
858	Wavelet entropy-based evaluation of intrinsic predictability of time series. <i>Chaos</i> , 2020 , 30, 033117	3.3	17

857	Particle dynamics and transport enhancement in a confined channel with position-dependent diffusivity. <i>New Journal of Physics</i> , 2020 , 22, 053016	2.9	22
856	Fixed-time synchronization of fractional order memristive MAM neural networks by sliding mode control. <i>Neurocomputing</i> , 2020 , 401, 364-376	5.4	14
855	The steady current analysis in a periodic channel driven by correlated noises. <i>Chaos, Solitons and Fractals</i> , 2020 , 135, 109766	9.3	9
854	A multiplex, multi-timescale model approach for economic and frequency control in power grids. <i>Chaos</i> , 2020 , 30, 033138	3.3	3
853	Synchronization transition from chaos to limit cycle oscillations when a locally coupled chaotic oscillator grid is coupled globally to another chaotic oscillator. <i>Chaos</i> , 2020 , 30, 033121	3.3	6
852	How Price-Based Frequency Regulation Impacts Stability in Power Grids: A Complex Network Perspective. <i>Complexity</i> , 2020 , 2020, 1-10	1.6	4
851	Universality in the emergence of oscillatory instabilities in turbulent flows. <i>Europhysics Letters</i> , 2020 , 129, 24004	1.6	12
850	Mean-square consensus of multi-agent systems with noise and time delay via event-triggered control. <i>Journal of the Franklin Institute</i> , 2020 , 357, 5317-5339	4	7
849	Rate-induced transitions and advanced takeoff in power systems. <i>Chaos</i> , 2020 , 30, 061103	3.3	4
848	Introduction to Focus Issue: When machine learning meets complex systems: Networks, chaos, and nonlinear dynamics. <i>Chaos</i> , 2020 , 30, 063151	3.3	24
847	Bisimulation-based stabilization of probabilistic Boolean control networks with state feedback control. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2020 , 21, 268-280	2.2	2
846	Dynamic Network Characteristics of Power-electronics-based Power Systems. <i>Scientific Reports</i> , 2020 , 10, 9946	4.9	9
845	Recurrence analysis of slow-fast systems. <i>Chaos</i> , 2020 , 30, 063152	3.3	6
844	Short-term forecasts of the COVID-19 pandemic: a study case of Cameroon. <i>Chaos, Solitons and Fractals</i> , 2020 , 140, 110106	9.3	19
843	Fixed-Time Connectivity Preserving Tracking Consensus of Multiagent Systems with Disturbances. <i>Complexity</i> , 2020 , 2020, 1-8	1.6	
842	Monte Carlo basin bifurcation analysis. <i>New Journal of Physics</i> , 2020 , 22, 033032	2.9	3
841	Network-induced multistability through lossy coupling and exotic solitary states. <i>Nature Communications</i> , 2020 , 11, 592	17.4	35
840	Universal gap scaling in percolation. <i>Nature Physics</i> , 2020 , 16, 455-461	16.2	15

839	Detrended fluctuation analysis of cerebrovascular responses to abrupt changes in peripheral arterial pressure in rats. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020 , 85, 105232 ^{3.7}	3.7	15
838	The maximum likelihood climate change for global warming under the influence of greenhouse effect and Lévy noise. <i>Chaos</i> , 2020 , 30, 013132	3.3	18
837	Solving Fokker-Planck equation using deep learning. <i>Chaos</i> , 2020 , 30, 013133	3.3	22
836	Bistability and stochastic jumps in an airfoil system with viscoelastic material property and random fluctuations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020 , 84, 105184	3.7	18
835	Parameter-free quantification of stochastic and chaotic signals. <i>Chaos, Solitons and Fractals</i> , 2020 , 133, 109616	9.3	9
834	Swing equation in power systems: Approximate analytical solution and bifurcation curve estimate. <i>Chaos</i> , 2020 , 30, 013110	3.3	9
833	Finite-time Consensus of Leader-following Multi-agent Systems with Multiple Time Delays over Time-varying Topology. <i>International Journal of Control, Automation and Systems</i> , 2020 , 18, 1985-1992	2.9	3
832	Motor execution reduces EEG signals complexity: Recurrence quantification analysis study. <i>Chaos</i> , 2020 , 30, 023111	3.3	14
831	Delay master stability of inertial oscillator networks. <i>Physical Review Research</i> , 2020 , 2,	3.9	4
830	Photobiomodulation of lymphatic drainage and clearance: perspective strategy for augmentation of meningeal lymphatic functions. <i>Biomedical Optics Express</i> , 2020 , 11, 725-734	3.5	13
829	Iterative learning control in prosumer-based microgrids with hierarchical control. <i>IFAC-PapersOnLine</i> , 2020 , 53, 12251-12258	0.7	1
828	Meningeal Lymphatic Pathway of Brain Clearing From the Blood After Haemorrhagic Injuries. <i>Advances in Experimental Medicine and Biology</i> , 2020 , 1232, 63-68	3.6	6
827	Epidemics with mutating infectivity on small-world networks. <i>Scientific Reports</i> , 2020 , 10, 5919	4.9	13
826	Sequence-to-sequence prediction of spatiotemporal systems. <i>Chaos</i> , 2020 , 30, 023102	3.3	6
825	Caring for the future can turn tragedy into comedy for long-term collective action under risk of collapse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 12915-12922 ^{11.5}	11.5	16
824	Trade-off between filtering and symmetry breaking mean-field coupling in inducing macroscopic dynamical states. <i>New Journal of Physics</i> , 2020 , 22, 093024	2.9	2
823	Basin stability and limit cycles in a conceptual model for climate tipping cascades. <i>New Journal of Physics</i> , 2020 , 22, 123031	2.9	6
822	An early-warning indicator for Amazon droughts exclusively based on tropical Atlantic sea surface temperatures. <i>Environmental Research Letters</i> , 2020 , 15, 094087	6.2	10

821	The accumulative law and its probability model: an extension of the Pareto distribution and the log-normal distribution. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020 , 476, 20200019	2.4	6
820	Phenomenon of music-induced opening of the blood-brain barrier in healthy mice. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2020 , 287, 20202337	4.4	8
819	Fixed-time Synchronization of Complex-valued Memristive BAM Neural Network and Applications in Image Encryption and Decryption. <i>International Journal of Control, Automation and Systems</i> , 2020 , 18, 462-476	2.9	18
818	Complexity-based approach for El Niño magnitude forecasting before the spring predictability barrier. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 177-183	11.5	21
817	Transitions between metastable states in a simplified model for the thermohaline circulation under random fluctuations. <i>Applied Mathematics and Computation</i> , 2020 , 369, 124868	2.7	3
816	Influence of Delayed Conductance on Neuronal Synchronization. <i>Frontiers in Physiology</i> , 2020 , 11, 1053	4.6	3
815	When Autonomous Systems Meet Accuracy and Transferability through AI: A Survey. <i>Patterns</i> , 2020 , 1, 100050	5.1	5
814	Instantaneous Cardiac Baroreflex Sensitivity: xBRS Method Quantifies Heart Rate Blood Pressure Variability Ratio at Rest and During Slow Breathing. <i>Frontiers in Neuroscience</i> , 2020 , 14, 547433	5.1	0
813	Stochastic dynamics driven by combined Lévy-Gaussian noise: fractional Fokker-Planck-Kolmogorov equation and solution. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020 , 53, 385001	2	8
812	Photostimulation of Extravasation of Beta-Amyloid through the Model of Blood-Brain Barrier. <i>Electronics (Switzerland)</i> , 2020 , 9, 1056	2.6	4
811	Photostimulation of cerebral and peripheral lymphatic functions. <i>Translational Biophotonics</i> , 2020 , 2, e201900036	2.2	6
810	Transition path properties for one-dimensional systems driven by Poisson white noise. <i>Chaos, Solitons and Fractals</i> , 2020 , 141, 110293	9.3	1
809	Robust distributed estimation based on a generalized correntropy logarithmic difference algorithm over wireless sensor networks. <i>Signal Processing</i> , 2020 , 177, 107731	4.4	8
808	Extended detrended fluctuation analysis of electroencephalograms signals during sleep and the opening of the blood-brain barrier. <i>Chaos</i> , 2020 , 30, 073138	3.3	12
807	Communicating sentiment and outlook reverses inaction against collective risks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 17650-17655	11.5	19
806	Can Lévy noise induce coherence and stochastic resonances in a birhythmic van der Pol system?. <i>European Physical Journal B</i> , 2020 , 93, 1	1.2	0
805	Global and local performance metric with inertia effects. <i>Nonlinear Dynamics</i> , 2020 , 102, 653-665	5	1
804	Asymptotic scaling describing signal propagation in complex networks. <i>Nature Physics</i> , 2020 , 16, 1082-1083	10.3	2

803	Sleep as a Novel Biomarker and a Promising Therapeutic Target for Cerebral Small Vessel Disease: A Review Focusing on Alzheimer's Disease and the Blood-Brain Barrier. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	15
802	Fingerprint of volcanic forcing on the ENSO-Indian monsoon coupling. <i>Science Advances</i> , 2020 , 6,	14.3	16
801	Statistical solution to SDEs with (alpha)-stable Lévy noise via deep neural network. <i>International Journal of Dynamics and Control</i> , 2020 , 8, 1129-1140	1.7	4
800	Overview of Compressed Sensing: Sensing Model, Reconstruction Algorithm, and Its Applications. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 5909	2.6	12
799	Influence of Autapses on Synchronization in Neural Networks With Chemical Synapses. <i>Frontiers in Systems Neuroscience</i> , 2020 , 14, 604563	3.5	9
798	Cardiac Autonomic Dysfunction and Incidence of Atrial Fibrillation: Heart Rate Variability vs. Heart Rate Complexity. <i>Frontiers in Physiology</i> , 2020 , 11, 596844	4.6	4
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