

Seunghwan Kim

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

2,500
citations

236833

25
h-index

206029

48
g-index

81
all docs

81
docs citations

81
times ranked

2329
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherence resonance in a Hodgkin-Huxley neuron. <i>Physical Review E</i> , 1998, 57, 3292-3297.	0.8	219
2	The directionality and functional organization of frontoparietal connectivity during consciousness and anesthesia in humans. <i>Consciousness and Cognition</i> , 2009, 18, 1069-1078.	0.8	204
3	Multistability in Coupled Oscillator Systems with Time Delay. <i>Physical Review Letters</i> , 1997, 79, 2911-2914.	2.9	196
4	Reconfiguration of Network Hub Structure after Propofol-induced Unconsciousness. <i>Anesthesiology</i> , 2013, 119, 1347-1359.	1.3	127
5	Propofol induction reduces the capacity for neural information integration: Implications for the mechanism of consciousness and general anesthesia. <i>Consciousness and Cognition</i> , 2009, 18, 56-64.	0.8	124
6	Market efficiency in foreign exchange markets. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 382, 209-212.	1.2	108
7	Parameter dependence of stochastic resonance in the stochastic Hodgkin-Huxley neuron. <i>Physical Review E</i> , 1999, 60, 826-830.	0.8	89
8	Self-organized criticality and scale-free properties in emergent functional neural networks. <i>Physical Review E</i> , 2006, 74, 045101.	0.8	89
9	Brain Networks Maintain a Scale-free Organization across Consciousness, Anesthesia, and Recovery. <i>Anesthesiology</i> , 2010, 113, 1081-1091.	1.3	86
10	Classification of epilepsy types through global network analysis of scalp electroencephalograms. <i>Physical Review E</i> , 2006, 73, 041920.	0.8	74
11	Long-term memory and volatility clustering in high-frequency price changes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 1247-1254.	1.2	69
12	Postoperative alteration of cerebral glucose metabolism in mesial temporal lobe epilepsy. <i>Brain</i> , 2005, 128, 1802-1810.	3.7	66
13	Topological properties of stock networks based on minimal spanning tree and random matrix theory in financial time series. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 900-906.	1.2	65
14	Chaotic dynamics in systems with square symmetry. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1989, 140, 416-420.	0.9	51
15	Understanding volatility correlation behavior with a magnitude cross-correlation function. <i>Physical Review E</i> , 2006, 73, 066128.	0.8	49
16	Diversity of functional connectivity patterns is reduced in propofol-induced unconsciousness. <i>Human Brain Mapping</i> , 2017, 38, 4980-4995.	1.9	48
17	Perfusion abnormality of the caudate nucleus in patients with paroxysmal kinesigenic choreoathetosis. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2005, 32, 1205-1209.	3.3	47
18	Functional Brain Network Mechanism of Hypersensitivity in Chronic Pain. <i>Scientific Reports</i> , 2018, 8, 243.	1.6	44

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19	Relationship of Topology, Multiscale Phase Synchronization, and State Transitions in Human Brain Networks. <i>Frontiers in Computational Neuroscience</i> , 2017, 11, 55.	1.2	39
20	Suppressed neural complexity during ketamine- and propofol-induced unconsciousness. <i>Neuroscience Letters</i> , 2017, 653, 320-325.	1.0	37
21	Bifurcation analysis of mode-locking structure in a Hodgkin-Huxley neuron under sinusoidal current. <i>Physical Review E</i> , 2006, 73, 041924.	0.8	33
22	Regional Cerebral Hyperperfusion with Ictal Dystonic Posturing: Ictal-Interictal SPECT Subtraction. <i>Epilepsia</i> , 2004, 45, 686-689.	2.6	32
23	Rhythmic control of <i>scp</i> mRNA stability modulates circadian amplitude of mouse <i>Period3</i> mRNA. <i>Journal of Neurochemistry</i> , 2015, 132, 642-656.	2.1	32
24	Fano resonances in translationally invariant nonlinear chains. <i>Physical Review B</i> , 2001, 63, .	1.1	31
25	Altered branching patterns of Purkinje cells in mouse model for cortical development disorder. <i>Scientific Reports</i> , 2011, 1, 122.	1.6	28
26	Deterministic factors of stock networks based on cross-correlation in financial market. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 383, 139-146.	1.2	27
27	Effects of time-delayed interactions on dynamic patterns in a coupled phase oscillator system. <i>Physical Review E</i> , 1999, 60, 4962-4965.	0.8	26
28	Protease-activated Receptor-2 Increases Exocytosis via Multiple Signal Transduction Pathways in Pancreatic Duct Epithelial Cells. <i>Journal of Biological Chemistry</i> , 2008, 283, 18711-18720.	1.6	26
29	Analysis of the separatrix map in Hamiltonian systems. <i>Physica D: Nonlinear Phenomena</i> , 1996, 89, 315-328.	1.3	25
30	Topological Properties of a Minimal Spanning Tree in the Korean and the American Stock Markets. <i>Journal of the Korean Physical Society</i> , 2007, 51, 1432.	0.3	24
31	Multifractal analysis of the Korean agricultural market. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011, 390, 4286-4292.	1.2	23
32	Changes in the thalamocortical connectivity during anesthesia-induced transitions in consciousness. <i>NeuroReport</i> , 2012, 23, 294-298.	0.6	23
33	Understanding Visual Map Formation through Vortex Dynamics of Spin Hamiltonian Models. <i>Physical Review Letters</i> , 2004, 92, 018101.	2.9	19
34	The effect of a market factor on information flow between stocks using the minimal spanning tree. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 1643-1652.	1.2	18
35	Separatrix-map analysis of chaotic transport in planar periodic vortical flows. <i>Physical Review E</i> , 1994, 49, 2900-2911.	0.8	17
36	Internal Ribosomal Entry Site-Mediated Translation Is Important for Rhythmic PERIOD1 Expression. <i>PLoS ONE</i> , 2012, 7, e37936.	1.1	16

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37	The structure of eigenmodes and phonon scattering by discrete breathers in the discrete nonlinear Schrödinger chain. <i>Physica D: Nonlinear Phenomena</i> , 2000, 141, 91-103.	1.3	14
38	Characterization of Phase Transition in the Thalamocortical System during Anesthesia-Induced Loss of Consciousness. <i>PLoS ONE</i> , 2012, 7, e50580.	1.1	14
39	Quantifying Morphological Parameters of the Terminal Branching Units in a Mouse Lung by Phase Contrast Synchrotron Radiation Computed Tomography. <i>PLoS ONE</i> , 2013, 8, e63552.	1.1	13
40	An analysis of the financial crisis in the KOSPI market using Hurst exponents. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 410, 327-334.	1.2	13
41	Statistical Investigation of Connected Structures of Stock Networks in a Financial Time Series. <i>Journal of the Korean Physical Society</i> , 2008, 53, 3837-3841.	0.3	13
42	Fourier analysis of multi-frequency dynamical systems. <i>Physica D: Nonlinear Phenomena</i> , 1988, 31, 117-126.	1.3	12
43	Universal scaling in circle maps. <i>Physica D: Nonlinear Phenomena</i> , 1989, 39, 365-392.	1.3	12
44	Effects of time dependency and efficiency on information flow in financial markets. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 5219-5224.	1.2	12
45	The forced walking test: A novel test for pinpointing the anesthetic-induced transition in consciousness in mouse. <i>Journal of Neuroscience Methods</i> , 2010, 188, 14-23.	1.3	12
46	Internal localized eigenmodes on spin discrete breathers in antiferromagnetic chains with on-site easy-axis anisotropy. <i>Physical Review B</i> , 2002, 66, .	1.1	11
47	Effect of changing data size on eigenvalues in the Korean and Japanese stock markets. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 4780-4786.	1.2	11
48	Phase dynamics in the biological neural networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 288, 380-396.	1.2	10
49	Simple Partial Status Epilepticus Localized by Single-Photon Emission Computed Tomography Subtraction in Chronic Cerebral Paragonimiasis. <i>Journal of Neuroimaging</i> , 2004, 14, 365-368.	1.0	10
50	Different Ocular Dominance Map Formation Influenced by Orientation Preference Columns in Visual Cortices. <i>Physical Review Letters</i> , 2005, 94, 068701.	2.9	10
51	Subgraph "Backbone" Analysis of Dynamic Brain Networks during Consciousness and Anesthesia. <i>PLoS ONE</i> , 2013, 8, e70899.	1.1	10
52	Bona fide stochastic resonance and multimodality in the stochastic Hodgkin-Huxley neuron. <i>Physical Review E</i> , 2005, 72, 061906.	0.8	9
53	Effects of modularity in financial markets on an agent-based model. <i>Journal of the Korean Physical Society</i> , 2012, 60, 599-603.	0.3	8
54	PHONON SCATTERING BY BREATHERS IN THE DISCRETE NONLINEAR SCHRÖDINGER CHAIN. <i>International Journal of Modern Physics B</i> , 2000, 14, 1903-1914.	1.0	7

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55	Understanding Financial Market States Using an Artificial Double Auction Market. PLoS ONE, 2016, 11, e0152608.	1.1	7
56	Multifractal Analysis of Korean Stock Market. Journal of the Korean Physical Society, 2010, 56, 982-985.	0.3	7
57	Instability of planar vortices in the two-dimensional easy-plane Heisenberg model with distance-dependent interactions. Physical Review B, 2004, 70, .	1.1	6
58	Event and time-scale characteristics of heart-rate dynamics. Physical Review E, 2005, 71, 061917.	0.8	6
59	Dendritic planarity of Purkinje cells is independent of Reelin signaling. Brain Structure and Function, 2015, 220, 2263-2273.	1.2	6
60	Various synchronous states due to coupling strength inhomogeneity and coupling functions in systems of coupled identical oscillators. Chaos, 2019, 29, 011106.	1.0	6
61	Nonlinear properties of the Korea fund market. Journal of the Korean Physical Society, 2015, 67, 2039-2044.	0.3	5
62	Spatiotemporal dynamics of domain-wall solitons in the fully frustrated Josephson-junction ladder arrays. Physical Review B, 1996, 53, R502-R505.	1.1	4
63	The Effect of the Frequency Inhomogeneity on the Synchronous States in Systems of Coupled Oscillators. Journal of the Korean Physical Society, 2019, 74, 215-218.	0.3	3
64	Simple Partial Status Epilepticus Localized by Single-Photon Emission Computed Tomography Subtraction in Chronic Cerebral Paragonimiasis. , 2004, 14, 365-368.		3
65	Propofol Induction Reduces the Capacity for Neural Information Integration: Implications for the Mechanism of Consciousness and General Anesthesia. Nature Precedings, 2008, , .	0.1	2
66	Estimating transition point of anesthetic-induced loss of consciousness in mice by detecting motion in response to forced movement. , 2009, 2009, 4974-7.		2
67	Core-periphery disparity in fractal behavior of complex networks. Physical Review E, 2011, 84, 037103.	0.8	2
68	Entropy analysis in foreign exchange markets and economic crisis. Journal of the Korean Physical Society, 2012, 61, 638-646.	0.3	2
69	Network Model With Reduced Metabolic Rate Predicts Spatial Synchrony of Neuronal Activity. Frontiers in Computational Neuroscience, 2021, 15, 738362.	1.2	2
70	Exact inversion and scaling of the conductance matrices of Josephson junction multi-ladder arrays. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 203, 407-411.	0.9	1
71	Phase synchronization and crisis in coupled periodically driven chaotic oscillators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 327, 167-173.	0.9	1
72	A new dynamic property of human consciousness. Nature Precedings, 2007, , .	0.1	1

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73	The Effect of Heterogeneous Interactions Among Traders in an Artificial Stock Market. SSRN Electronic Journal, 2015, , .	0.4	1
74	A robust complexity measure for noisy EEG time series under dynamic transitions during anesthesia. Journal of the Korean Physical Society, 2022, 80, 68-73.	0.3	1
75	Spatio-temporal dynamics in a locally coupled Ginzburg-Landau oscillator chain with time delay. AIP Conference Proceedings, 2000, , .	0.3	0
76	Noise-induced organized slow fluctuations in networks of neural areas with interarea feed-forward excitation and inhibition. Physical Review E, 2014, 89, 062710.	0.8	0
77	A Novel Visualization Method for Sleep Spindles Based on Source Localization of High Density EEG. Experimental Neurobiology, 2017, 26, 362-368.	0.7	0
78	THE MODELING AND FUNCTIONAL CONNECTIVITY OF THE BRAIN. , 2008, , .		0
79	Spam Source Clustering by Constructing Spammer Network with Correlation Measure. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2009, , 889-893.	0.2	0
80	Grouping Properties of Industry Sectors in Financial Markets. SSRN Electronic Journal, 0, , .	0.4	0