

Neil F Johnson

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

3,493
citations

172207

29
h-index

161609

54
g-index

104
all docs

104
docs citations

104
times ranked

2793
citing authors

#	ARTICLE	IF	CITATIONS
1	The online competition between pro- and anti-vaccination views. Nature, 2020, 582, 230-233.	13.7	417
2	Efficiency of energy transfer in a light-harvesting system under quantum coherence. Physical Review B, 2008, 78, .	1.1	268
3	Common ecology quantifies human insurgency. Nature, 2009, 462, 911-914.	13.7	183
4	Entangled Bell and Greenberger-Horne-Zeilinger States of Excitons in Coupled Quantum Dots. Physical Review Letters, 1999, 83, 2270-2273.	2.9	177
5	Decoherence of quantum registers. Physical Review A, 2002, 65, .	1.0	167
6	Self-Organized Segregation within an Evolving Population. Physical Review Letters, 1999, 82, 3360-3363.	2.9	133
7	Hidden resilience and adaptive dynamics of the global online hate ecology. Nature, 2019, 573, 261-265.	13.7	114
8	LONG-TERM HEALTH EFFECTS IN HAMSTERS AND RATS EXPOSED CHRONICALLY TO MAN-MADE VITREOUS FIBRES [*] . Annals of Occupational Hygiene, 1987, 31, 731-54.	1.9	107
9	Quantum entanglement and information processing via excitons in optically driven quantum dots. Physical Review A, 2000, 62, .	1.0	107
10	Quantifying COVID-19 Content in the Online Health Opinion War Using Machine Learning. IEEE Access, 2020, 8, 91886-91893.	2.6	90
11	New online ecology of adversarial aggregates: ISIS and beyond. Science, 2016, 352, 1459-1463.	6.0	83
12	A Public Health Research Agenda for Managing Infodemics: Methods and Results of the First WHO Infodemiology Conference. JMIR Infodemiology, 2021, 1, e30979.	1.0	78
13	Epithelial Progenitor Cells in the Rat Trachea. American Journal of Respiratory Cell and Molecular Biology, 1990, 3, 579-585.	1.4	77
14	Human group formation in online guilds and offline gangs driven by a common team dynamic. Physical Review E, 2009, 79, 066117.	0.8	69
15	Proliferative responses of rat nasal epithelia to ozone. Toxicology and Applied Pharmacology, 1990, 103, 143-155.	1.3	66
16	Phagosomal pH and glass fiber dissolution in cultured nasal epithelial cells and alveolar macrophages: a preliminary study.. Environmental Health Perspectives, 1994, 102, 97-102.	2.8	59
17	Theory of the evolutionary minority game. Physical Review E, 2000, 62, 4393-4396.	0.8	57
18	Ecology and economics. Nature, 2011, 469, 302-303.	13.7	55

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19	Dynamical clustering of exchange rates. <i>Quantitative Finance</i> , 2012, 12, 1493-1520.	0.9	50
20	Fiber-induced hydroxyl radical formation: correlation with mesothelioma induction in rats and humans. <i>Carcinogenesis</i> , 1992, 13, 2035-2039.	1.3	48
21	A possible nanometer-scale computing device based on an adding cellular automaton. <i>Applied Physics Letters</i> , 1997, 70, 2321-2323.	1.5	42
22	Endocrine cell proliferation in the rat lung following asbestos inhalation. <i>Lung</i> , 1980, 158, 221-228.	1.4	38
23	New Dynamical Scaling Universality for Quantum Networks Across Adiabatic Quantum Phase Transitions. <i>Physical Review Letters</i> , 2014, 112, 030403.	2.9	38
24	Scheme for on-resonance generation of entanglement in time-dependent asymmetric two-qubit-cavity systems. <i>Physical Review A</i> , 2004, 70, .	1.0	35
25	Host outdoor exposure variability affects the transmission and spread of Zika virus: Insights for epidemic control. <i>PLoS Neglected Tropical Diseases</i> , 2017, 11, e0005851.	1.3	34
26	Deterministic dynamics in the minority game. <i>Physical Review E</i> , 2001, 65, 016105.	0.8	33
27	Effect of social group dynamics on contagion. <i>Physical Review E</i> , 2010, 81, 056107.	0.8	33
28	Simple mathematical law benchmarks human confrontations. <i>Scientific Reports</i> , 2013, 3, 3463.	1.6	33
29	Facebook Pages, the "Disneyland" Measles Outbreak, and Promotion of Vaccine Refusal as a Civil Right, 2009-2019. <i>American Journal of Public Health</i> , 2020, 110, S312-S318.	1.5	33
30	Interplay between function and structure in complex networks. <i>Physical Review E</i> , 2006, 74, 026116.	0.8	32
31	Online hate network spreads malicious COVID-19 content outside the control of individual social media platforms. <i>Scientific Reports</i> , 2021, 11, 11549.	1.6	30
32	Kinetics of Nasal Epithelial Cell Loss and Proliferation in F344 Rats Following a Single Exposure to 0.5 ppm Ozone. <i>Toxicology and Applied Pharmacology</i> , 1997, 143, 75-82.	1.3	28
33	Pulmonary Toxicity of Benzalkonium Chloride. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2018, 31, 1-17.	0.7	27
34	Histology and ultrastructure of serially transplanted rat mesotheliomas. <i>British Journal of Cancer</i> , 1982, 46, 294-299.	2.9	23
35	THE MIRAGE OF TRIANGULAR ARBITRAGE IN THE SPOT FOREIGN EXCHANGE MARKET. <i>International Journal of Theoretical and Applied Finance</i> , 2009, 12, 1105-1123.	0.2	22
36	NMR-based nanostructure switch for quantum logic. <i>Physical Review B</i> , 2000, 62, R2267-R2270.	1.1	16

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37	Equivalent dynamical complexity in a many-body quantum and collective human system. AIP Advances, 2011, 1, 012114.	0.6	16
38	NETWORK AUTOMATA: COUPLING STRUCTURE AND FUNCTION IN DYNAMIC NETWORKS. International Journal of Modeling, Simulation, and Scientific Computing, 2011, 14, 317-339.	0.9	16
39	DYNAMICAL CLUSTERING AS A GENERATOR OF COMPLEX SYSTEM DYNAMICS. Mathematical Models and Methods in Applied Sciences, 2009, 19, 1539-1565.	1.7	15
40	Carcinogenicity of the insulation wools: Reassessment of the IARC evaluation. Regulatory Toxicology and Pharmacology, 1991, 14, 12-23.	1.3	14
41	Superlattice excitons and optical absorption. Journal of Applied Physics, 1993, 74, 7369-7378.	1.1	14
42	Ultrafast optical signature of quantum superpositions in a nanostructure. Physical Review B, 2002, 66, .	1.1	14
43	Anomalous Slow Attrition Times for Asymmetric Populations with Internal Group Dynamics. Physical Review Letters, 2009, 103, 148701.	2.9	14
44	Nonequilibrium Quantum Systems: Divergence between Global and Local Descriptions. Advances in Condensed Matter Physics, 2015, 2015, 1-7.	0.4	14
45	Fundamental patterns and predictions of event size distributions in modern wars and terrorist campaigns. PLoS ONE, 2018, 13, e0204639.	1.1	14
46	Open source data reveals connection between online and on-street protest activity. EPJ Data Science, 2016, 5, 18.	1.5	13
47	Multipotential behaviour of cloned rat mesothelioma cells with epithelial phenotype. British Journal of Cancer, 1985, 51, 245-252.	2.9	12
48	Relating the microscopic rules in coalescence-fragmentation models to the cluster-size distribution. European Physical Journal B, 2009, 72, 289-302.	0.6	12
49	Modeling Insurgent Dynamics Including Heterogeneity. Journal of Statistical Physics, 2013, 151, 395-413.	0.5	12
50	Generalized Gelation Theory Describes Onset of Online Extremist Support. Physical Review Letters, 2018, 121, 048301.	2.9	11
51	How Social Media Machinery Pulled Mainstream Parenting Communities Closer to Extremes and Their Misinformation During Covid-19. IEEE Access, 2022, 10, 2330-2344.	2.6	11
52	Atypical viral dynamics from transport through popular places. Physical Review E, 2016, 94, 022304.	0.8	9
53	To slow or not? Challenges in subsecond networks. Science, 2017, 355, 801-802.	6.0	9
54	Objectively measured teacher and preschooler vocalizations: Phonemic diversity is associated with language abilities. Developmental Science, 2022, 25, e13177.	1.3	8

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55	Preliminary observations of the effect of inhalation of PVC in man and experimental animals.. Environmental Health Perspectives, 1981, 41, 83-84.	2.8	7
56	Multi-agent complex systems and many-body physics. Europhysics Letters, 2006, 74, 923-929.	0.7	7
57	Large dynamic light-matter entanglement from driving neither too fast nor too slow. Physical Review A, 2015, 92, .	1.0	7
58	Short-Term Forecasting of Taiwanese Earthquakes Using a Universal Model of Fusion-Fission Processes. Scientific Reports, 2014, 4, 3624.	1.6	7
59	Individual heterogeneity generating explosive system network dynamics. Physical Review E, 2018, 97, 032311.	0.8	7
60	Complexity in Human Conflict. Understanding Complex Systems, 2008, , 303-320.	0.3	7
61	Sectioning and imaging hard mineral fibres in biological tissues. Journal of Microscopy, 1981, 122, 87-92.	0.8	6
62	Analysis of fibres recovered from lung tissue. Lung, 1984, 162, 37-47.	1.4	6
63	Optics with Quantum Hall Skyrmions. International Journal of Modern Physics B, 1998, 12, 1-35.	1.0	6
64	Pulsed Generation of Quantum Coherences and Non-classicality in Light-Matter Systems. Frontiers in Physics, 2018, 6, .	1.0	6
65	Regular transport dynamics produce chaotic travel times. Physical Review E, 2014, 89, 062922.	0.8	5
66	Using Competition to Control Congestion in Autonomous Drone Systems. Electronics (Switzerland), 2017, 6, 31.	1.8	5
67	Asbestos-induced changes in rat lung parenchyma. Journal of Toxicology and Environmental Health - Part A: Current Issues, 1987, 21, 193-203.	1.1	4
68	Mathematics, Physics, and Crime. Policing (Oxford), 2008, 2, 160-166.	0.9	4
69	UNDERSTANDING COMPLEX DYNAMICS IN DERIVATIVES FINANCE: WHY DO OPTIONS MARKETS SMILE?. International Journal of Modeling, Simulation, and Scientific Computing, 2012, 15, 1250050.	0.9	4
70	Internal character dictates transition dynamics between isolation and cohesive grouping. Physical Review E, 2015, 92, 062803.	0.8	4
71	Multiscale dynamical network mechanisms underlying aging of an online organism from birth to death. Scientific Reports, 2018, 8, 3552.	1.6	4
72	A computational science approach to understanding human conflict. Journal of Computational Science, 2020, 46, 101088.	1.5	4

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73	Inhalation Toxicity of Talc. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2021, 34, 79-107.	0.7	4
74	Crowd-Anticrowd Theory of Dynamical Behavior in Competitive, Multi-Agent Autonomous Systems and Networks. <i>Journal of Computational Intelligence and Electronic Systems</i> , 2014, 3, 256-277.	0.1	4
75	Electron correlations in mesoscopic structures. <i>Contemporary Physics</i> , 1995, 36, 377-387.	0.8	3
76	Self-organized segregation of traders within a market. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1999, 357, 2013-2018.	1.6	3
77	Quantum Criticality Stabilizes High T_c Superconductivity Against Competing Symmetry-Breaking Instabilities. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 2611-2616.	0.8	3
78	Transition in the waiting-time distribution of price-change events in a global socioeconomic system. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 6458-6469.	1.2	3
79	Getting closer to the goal by being less capable. <i>Science Advances</i> , 2019, 5, eaau5902.	4.7	3
80	Hidden order across online extremist movements can be disrupted by nudging collective chemistry. <i>Scientific Reports</i> , 2021, 11, 9965.	1.6	3
81	Connectivity Between Russian Information Sources and Extremist Communities Across Social Media Platforms. <i>Frontiers in Political Science</i> , 0, 4, .	1.0	3
82	Resonant phenomena involving bound-to-continuum transitions in quantum wells. <i>Applied Physics Letters</i> , 1993, 63, 3467-3469.	1.5	2
83	Self-organized global control of carbon emissions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 3546-3551.	1.2	2
84	Modelling insurgent attack dynamics across geographic scales and in cyberspace. <i>European Journal of Applied Mathematics</i> , 2016, 27, 357-376.	1.4	2
85	Quantitative patterns in drone wars. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016, 443, 380-384.	1.2	2
86	Simple visit behavior unifies complex Zika outbreaks. <i>Heliyon</i> , 2017, 3, e00482.	1.4	2
87	Complexity in Individual Trajectories toward Online Extremism. <i>Complexity</i> , 2018, 2018, 1-9.	0.9	2
88	Impact on the topology of power-law networks from anisotropic and localized access to information. <i>Physical Review E</i> , 2018, 98, .	0.8	2
89	Emergent dynamics of extremes in a population driven by common information sources and new social media algorithms. <i>Scientific Reports</i> , 2019, 9, 11895.	1.6	2
90	Dynamics of a round object moving along curved surfaces with friction. <i>American Journal of Physics</i> , 2020, 88, 229-237.	0.3	2

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91	Alternative Method for Determining the Shear Deformation Potential of the Valence Band in III-V Semiconductor Quantum Wells. Physica Status Solidi (B): Basic Research, 1996, 198, 343-348.	0.7	1
92	Quantum Comparison Machines with One-Sided Error. Quantum Information Processing, 2002, 1, 253-256.	1.0	1
93	PERSISTENT PATTERNS IN MICROTUBULE DIPOLE LATTICES. International Journal of Modeling, Simulation, and Scientific Computing, 2013, 16, 1350033.	0.9	1
94	Impact of delayed information in sub-second complex systems. Results in Physics, 2017, 7, 3024-3030.	2.0	1
95	Subsecond Tsunamis and Delays in Decentralized Electronic Systems. Electronics (Switzerland), 2017, 6, 80.	1.8	1
96	Universality and correlations in individuals wandering through an online extremist space. Physical Review E, 2018, 97, 032315.	0.8	1
97	Unifying casualty distributions within and across conflicts. Heliyon, 2020, 6, e04808.	1.4	1
98	Ladder of Loschmidt anomalies in the deep strong-coupling regime of a qubit-oscillator system. Physical Review A, 2021, 104, .	1.0	1
99	Dynamic Topic Modeling Reveals Variations in Online Hate Narratives. Lecture Notes in Networks and Systems, 2022, , 564-578.	0.5	1
100	Quantum emitters dynamically coupled to a quantum field. , 2013, , .		0
101	Efficient computational testing of scale-free behavior in real-world systems. Journal of Computational Science, 2016, 12, 77-82.	1.5	0
102	An explanation for the universal 3.5 power-law observed in currency markets. Results in Physics, 2016, 6, 48-49.	2.0	0