

# Yuri A Dabaghian

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

994  
citations

566801

15  
h-index

454577

30  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1598  
citing authors

#	ARTICLE	IF	CITATIONS
1	Learning orientations: a discrete geometry model. <i>Journal of Applied and Computational Topology</i> , 2022, 6, 193-220.	1.0	3
2	Forecasting seizure clusters from chronic ambulatory electrocorticography. <i>Epilepsia</i> , 2022, 63, .	2.6	2
3	Topological Stability of the Hippocampal Spatial Map and Synaptic Transience. <i>Springer Proceedings in Mathematics and Statistics</i> , 2021, , 239-253.	0.1	0
4	Spatial representability of neuronal activity. <i>Scientific Reports</i> , 2021, 11, 20957.	1.6	1
5	From Topological Analyses to Functional Modeling: The Case of Hippocampus. <i>Frontiers in Computational Neuroscience</i> , 2020, 14, 593166.	1.2	6
6	Replays of spatial memories suppress topological fluctuations in cognitive map. <i>Network Neuroscience</i> , 2019, 3, 707-724.	1.4	14
7	Through synapses to spatial memory maps via a topological model. <i>Scientific Reports</i> , 2019, 9, 572.	1.6	10
8	Discrete Structure of the Brain Rhythms. <i>Scientific Reports</i> , 2019, 9, 1105.	1.6	9
9	Robust spatial memory maps encoded by networks with transient connections. <i>PLoS Computational Biology</i> , 2018, 14, e1006433.	1.5	18
10	Topological Schemas of Memory Spaces. <i>Frontiers in Computational Neuroscience</i> , 2018, 12, 27.	1.2	14
11	Persistent Memories in Transient Networks. <i>Springer Proceedings in Physics</i> , 2017, , 179-188.	0.1	5
12	Transient cell assembly networks encode stable spatial memories. <i>Scientific Reports</i> , 2017, 7, 3959.	1.6	16
13	Topological Schemas of Cognitive Maps and Spatial Learning. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 18.	1.2	28
14	A Topological Model of the Hippocampal Cell Assembly Network. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 50.	1.2	23
15	Gamma Synchronization Influences Map Formation Time in a Topological Model of Spatial Learning. <i>PLoS Computational Biology</i> , 2016, 12, e1005114.	1.5	22
16	A model of topological mapping of space in bat hippocampus. <i>Hippocampus</i> , 2016, 26, 1345-1353.	0.9	21
17	Maintaining Consistency of Spatial Information in the Hippocampal Network: A Combinatorial Geometry Model. <i>Neural Computation</i> , 2016, 28, 1051-1071.	1.3	16
18	25th Annual Computational Neuroscience Meeting: CNS-2016. <i>BMC Neuroscience</i> , 2016, 17, 54.	0.8	81

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19	Levetiracetam mitigates doxorubicin-induced DNA and synaptic damage in neurons. <i>Scientific Reports</i> , 2016, 6, 25705.	1.6	43
20	Cytoplasmic sphingosine-1-phosphate pathway modulates neuronal autophagy. <i>Scientific Reports</i> , 2015, 5, 15213.	1.6	73
21	Robustness of spatial learning in flickering networks. <i>BMC Neuroscience</i> , 2015, 16, .	0.8	0
22	A topological approach to synaptic connectivity and spatial memory. <i>BMC Neuroscience</i> , 2015, 16, .	0.8	2
23	Genetic Suppression of Transgenic APP Rescues Hypersynchronous Network Activity in a Mouse Model of Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2014, 34, 3826-3840.	1.7	144
24	The Effects of Theta Precession on Spatial Learning and Simplicial Complex Dynamics in a Topological Model of the Hippocampal Spatial Map. <i>PLoS Computational Biology</i> , 2014, 10, e1003651.	1.5	45
25	Reconceiving the hippocampal map as a topological template. <i>ELife</i> , 2014, 3, e03476.	2.8	113
26	A Topological Paradigm for Hippocampal Spatial Map Formation Using Persistent Homology. <i>PLoS Computational Biology</i> , 2012, 8, e1002581.	1.5	157
27	Analytic description of statistics of spectra of quantum graphs. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 2008, 156, 996-1019.	0.3	0
28	Topological maps from signals. , 2007, , .		5
29	Periodic orbit theory and the statistical analysis of scaling quantum graph spectra. <i>Physical Review E</i> , 2007, 75, 056214.	0.8	4
30	Comment on "Quantum chaos in elementary quantum mechanics"™ by Yu Dabaghian and R Jensen. <i>European Journal of Physics</i> , 2006, 27, L1-L4.	0.3	8
31	Quantum chaos in elementary quantum mechanics. <i>European Journal of Physics</i> , 2005, 26, 423-439.	0.3	12
32	Explicit spectral formulas for scaling quantum graphs. <i>Physical Review E</i> , 2004, 70, 046206.	0.8	21
33	Solution of scaling quantum networks. <i>JETP Letters</i> , 2003, 77, 530-533.	0.4	7
34	Exact, convergent periodic-orbit expansions of individual energy eigenvalues of regular quantum graphs. <i>Physical Review E</i> , 2002, 65, 046222.	0.8	20
35	Spectra of regular quantum graphs. <i>Journal of Experimental and Theoretical Physics</i> , 2002, 94, 1201-1215.	0.2	9
36	Exact trace formulas for a class of one-dimensional ray-splitting systems. <i>Physical Review E</i> , 2001, 63, 066201.	0.8	15

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37	One-dimensional quantum chaos: Explicitly solvable cases. JETP Letters, 2001, 74, 235-239.	0.4	11
38	Multiple Perron-Frobenius operators. Physical Review E, 2001, 63, 046209.	0.8	1
39	Combinatorial identities for binary necklaces from exact ray-splitting trace formulas. Journal of Mathematical Physics, 2001, 42, 5832-5839.	0.5	5
40	Dynamical ansatz for path integrals and nonperturbative trace formulas. Physical Review E, 1999, 60, 324-334.	0.8	1
41	Radiative Corrections and Quantum Chaos. Physical Review Letters, 1996, 77, 2666-2669.	2.9	1
42	Topological Coding in the Hippocampus. , 0, , 293-320.		5
43	Rapid Spectral Dynamics in Hippocampal Oscillons. Frontiers in Computational Neuroscience, 0, 16, .	1.2	0