

Yuri A Dabaghian

List of Publications by Year in descending order

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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 | A Topological Paradigm for Hippocampal Spatial Map Formation Using Persistent Homology. PLoS Computational Biology, 2012, 8, e1002581. | 1.5 | 157 |
| 2 | Genetic Suppression of Transgenic APP Rescues Hypersynchronous Network Activity in a Mouse Model of Alzheimer's Disease. Journal of Neuroscience, 2014, 34, 3826-3840. | 1.7 | 144 |
| 3 | Reconceiving the hippocampal map as a topological template. ELife, 2014, 3, e03476. | 2.8 | 113 |
| 4 | 25th Annual Computational Neuroscience Meeting: CNS-2016. BMC Neuroscience, 2016, 17, 54. | 0.8 | 81 |
| 5 | Cytoplasmic sphingosine-1-phosphate pathway modulates neuronal autophagy. Scientific Reports, 2015, 5, 15213. | 1.6 | 73 |
| 6 | The Effects of Theta Precession on Spatial Learning and Simplicial Complex Dynamics in a Topological Model of the Hippocampal Spatial Map. PLoS Computational Biology, 2014, 10, e1003651. | 1.5 | 45 |
| 7 | Levetiracetam mitigates doxorubicin-induced DNA and synaptic damage in neurons. Scientific Reports, 2016, 6, 25705. | 1.6 | 43 |
| 8 | Topological Schemas of Cognitive Maps and Spatial Learning. Frontiers in Computational Neuroscience, 2016, 10, 18. | 1.2 | 28 |
| 9 | A Topological Model of the Hippocampal Cell Assembly Network. Frontiers in Computational Neuroscience, 2016, 10, 50. | 1.2 | 23 |
| 10 | Gamma Synchronization Influences Map Formation Time in a Topological Model of Spatial Learning. PLoS Computational Biology, 2016, 12, e1005114. | 1.5 | 22 |
| 11 | Explicit spectral formulas for scaling quantum graphs. Physical Review E, 2004, 70, 046206. | 0.8 | 21 |
| 12 | A model of topological mapping of space in bat hippocampus. Hippocampus, 2016, 26, 1345-1353. | 0.9 | 21 |
| 13 | Exact, convergent periodic-orbit expansions of individual energy eigenvalues of regular quantum graphs. Physical Review E, 2002, 65, 046222. | 0.8 | 20 |
| 14 | Robust spatial memory maps encoded by networks with transient connections. PLoS Computational Biology, 2018, 14, e1006433. | 1.5 | 18 |
| 15 | Maintaining Consistency of Spatial Information in the Hippocampal Network: A Combinatorial Geometry Model. Neural Computation, 2016, 28, 1051-1071. | 1.3 | 16 |
| 16 | Transient cell assembly networks encode stable spatial memories. Scientific Reports, 2017, 7, 3959. | 1.6 | 16 |
| 17 | Exact trace formulas for a class of one-dimensional ray-splitting systems. Physical Review E, 2001, 63, 066201. | 0.8 | 15 |
| 18 | Topological Schemas of Memory Spaces. Frontiers in Computational Neuroscience, 2018, 12, 27. | 1.2 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Replays of spatial memories suppress topological fluctuations in cognitive map. <i>Network Neuroscience</i> , 2019, 3, 707-724. | 1.4 | 14 |
| 20 | Quantum chaos in elementary quantum mechanics. <i>European Journal of Physics</i> , 2005, 26, 423-439. | 0.3 | 12 |
| 21 | One-dimensional quantum chaos: Explicitly solvable cases. <i>JETP Letters</i> , 2001, 74, 235-239. | 0.4 | 11 |
| 22 | Through synapses to spatial memory maps via a topological model. <i>Scientific Reports</i> , 2019, 9, 572. | 1.6 | 10 |
| 23 | Spectra of regular quantum graphs. <i>Journal of Experimental and Theoretical Physics</i> , 2002, 94, 1201-1215. | 0.2 | 9 |
| 24 | Discrete Structure of the Brain Rhythms. <i>Scientific Reports</i> , 2019, 9, 1105. | 1.6 | 9 |
| 25 | 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 |
| 26 | Solution of scaling quantum networks. <i>JETP Letters</i> , 2003, 77, 530-533. | 0.4 | 7 |
| 27 | From Topological Analyses to Functional Modeling: The Case of Hippocampus. <i>Frontiers in Computational Neuroscience</i> , 2020, 14, 593166. | 1.2 | 6 |
| 28 | Combinatorial identities for binary necklaces from exact ray-splitting trace formulas. <i>Journal of Mathematical Physics</i> , 2001, 42, 5832-5839. | 0.5 | 5 |
| 29 | Topological maps from signals. , 2007, , . | | 5 |
| 30 | Persistent Memories in Transient Networks. <i>Springer Proceedings in Physics</i> , 2017, , 179-188. | 0.1 | 5 |
| 31 | Topological Coding in the Hippocampus. , 0, , 293-320. | | 5 |
| 32 | Periodic orbit theory and the statistical analysis of scaling quantum graph spectra. <i>Physical Review E</i> , 2007, 75, 056214. | 0.8 | 4 |
| 33 | Learning orientations: a discrete geometry model. <i>Journal of Applied and Computational Topology</i> , 2022, 6, 193-220. | 1.0 | 3 |
| 34 | A topological approach to synaptic connectivity and spatial memory. <i>BMC Neuroscience</i> , 2015, 16, . | 0.8 | 2 |
| 35 | Forecasting seizure clusters from chronic ambulatory electrocorticography. <i>Epilepsia</i> , 2022, 63, . | 2.6 | 2 |
| 36 | Radiative Corrections and Quantum Chaos. <i>Physical Review Letters</i> , 1996, 77, 2666-2669. | 2.9 | 1 |

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|----|--|-----|-----------|
| 37 | Dynamical ansatz for path integrals and nonperturbative trace formulas. Physical Review E, 1999, 60, 324-334. | 0.8 | 1 |
| 38 | Multiple Perron-Frobenius operators. Physical Review E, 2001, 63, 046209. | 0.8 | 1 |
| 39 | Spatial representability of neuronal activity. Scientific Reports, 2021, 11, 20957. | 1.6 | 1 |
| 40 | Analytic description of statistics of spectra of quantum graphs. Theoretical and Mathematical Physics(Russian Federation), 2008, 156, 996-1019. | 0.3 | 0 |
| 41 | Robustness of spatial learning in flickering networks. BMC Neuroscience, 2015, 16, . | 0.8 | 0 |
| 42 | Topological Stability of the Hippocampal Spatial Map and Synaptic Transience. Springer Proceedings in Mathematics and Statistics, 2021, , 239-253. | 0.1 | 0 |
| 43 | Rapid Spectral Dynamics in Hippocampal Oscillons. Frontiers in Computational Neuroscience, 0, 16, . | 1.2 | 0 |