

# Luca Maragliano

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

2,507  
citations

331670

21  
h-index

254184

43  
g-index

50  
all docs

50  
docs citations

50  
times ranked

2993  
citing authors

| #  | ARTICLE                                                                                                                                                                                                                | IF   | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1  | Phenotypic and genetic spectrum of ATP6V1A encephalopathy: a disorder of lysosomal homeostasis. <i>Brain</i> , 2022, 145, 2687-2703.                                                                                   | 7.6  | 11        |
| 2  | Computational study of ion permeation through claudin-4 paracellular channels. <i>Annals of the New York Academy of Sciences</i> , 2022, 1516, 162-174.                                                                | 3.8  | 9         |
| 3  | Computational Assessment of Different Structural Models for Claudin-5 Complexes in Blood-Brain Barrier Tight Junctions. <i>ACS Chemical Neuroscience</i> , 2022, 13, 2140-2153.                                        | 3.5  | 10        |
| 4  | Structural Mechanism of $\bar{I}$ -Currents in a Mutated Kv7.2 Voltage Sensor Domain from Molecular Dynamics Simulations. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 1354-1367.                   | 5.4  | 6         |
| 5  | Free energy and kinetics of cAMP permeation through connexin26 via applied voltage and milestoning. <i>Biophysical Journal</i> , 2021, 120, 2969-2983.                                                                 | 0.5  | 5         |
| 6  | Expanding the Nude SCID/CID Phenotype Associated with FOXP1 Homozygous, Compound Heterozygous, or Heterozygous Mutations. <i>Journal of Clinical Immunology</i> , 2021, 41, 756-768.                                   | 3.8  | 13        |
| 7  | Isobaric Labeling Proteomics Allows a High-Throughput Investigation of Protein Corona Orientation. <i>Analytical Chemistry</i> , 2021, 93, 784-791.                                                                    | 6.5  | 10        |
| 8  | Engineering REST-Specific Synthetic PUF Proteins to Control Neuronal Gene Expression: A Combined Experimental and Computational Study. <i>ACS Synthetic Biology</i> , 2020, 9, 2039-2054.                              | 3.8  | 4         |
| 9  | Thermodynamics and Kinetics of Ion Permeation in Wild-Type and Mutated Open Active Conformation of the Human $\alpha 7$ Nicotinic Receptor. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 5045-5056. | 5.4  | 12        |
| 10 | Neuronal firing modulation by a membrane-targeted photoswitch. <i>Nature Nanotechnology</i> , 2020, 15, 296-306.                                                                                                       | 31.5 | 71        |
| 11 | Genotype-phenotype correlations in patients with de novo <i>KCNQ2</i> pathogenic variants. <i>Neurology: Genetics</i> , 2020, 6, e528.                                                                                 | 1.9  | 24        |
| 12 | Synapsins are expressed at neuronal and non-neuronal locations in <i>Octopus vulgaris</i> . <i>Scientific Reports</i> , 2019, 9, 15430.                                                                                | 3.3  | 6         |
| 13 | De novo mutations of the ATP6V1A gene cause developmental encephalopathy with epilepsy. <i>Brain</i> , 2018, 141, 1703-1718.                                                                                           | 7.6  | 69        |
| 14 | Effect of Intercalated Water on Potassium Ion Transport through Kv1.2 Channels Studied via On-the-Fly Free-Energy Parametrization. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 2743-2750.            | 5.3  | 4         |
| 15 | Closed-Locked and Apo-Resting State Structures of the Human $\alpha 7$ Nicotinic Receptor: A Computational Study. <i>Journal of Chemical Information and Modeling</i> , 2018, 58, 2278-2293.                           | 5.4  | 6         |
| 16 | Molecular Dynamics Simulations of Ion Selectivity in a Claudin-15 Paracellular Channel. <i>Journal of Physical Chemistry B</i> , 2018, 122, 10783-10792.                                                               | 2.6  | 41        |
| 17 | Interfacing Graphene-Based Materials With Neural Cells. <i>Frontiers in Systems Neuroscience</i> , 2018, 12, 12.                                                                                                       | 2.5  | 98        |
| 18 | Interactions Between 2D Graphene-Based Materials and the Nervous tissue. , 2018, , 62-85.                                                                                                                              |      | 2         |

| #  | ARTICLE                                                                                                                                                                                                                    | IF  | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Optogenetic Modulation of Intracellular Signalling and Transcription: Focus on Neuronal Plasticity. <i>Journal of Experimental Neuroscience</i> , 2017, 11, 117906951770335.                                               | 2.3 | 21        |
| 20 | A possible desensitized state conformation of the human $\alpha 7$ nicotinic receptor: A molecular dynamics study. <i>Biophysical Chemistry</i> , 2017, 229, 99-109.                                                       | 2.8 | 14        |
| 21 | A refined model of claudin-15 tight junction paracellular architecture by molecular dynamics simulations. <i>PLoS ONE</i> , 2017, 12, e0184190.                                                                            | 2.5 | 41        |
| 22 | A Novel Topology of Proline-rich Transmembrane Protein 2 (PRRT2). <i>Journal of Biological Chemistry</i> , 2016, 291, 6111-6123.                                                                                           | 3.4 | 59        |
| 23 | Regulation of neural gene transcription by optogenetic inhibition of the RE1-silencing transcription factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E91-100.  | 7.1 | 48        |
| 24 | Extended Phase-Space Methods for Enhanced Sampling in Molecular Simulations: A Review. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 125.                                                                | 4.1 | 22        |
| 25 | Temperature Accelerated Molecular Dynamics with Soft-Ratcheting Criterion Orients Enhanced Sampling by Low-Resolution Information. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 3446-3454.                | 5.3 | 12        |
| 26 | Identification and Expression of Acetylcholinesterase in Octopus vulgaris Arm Development and Regeneration: a Conserved Role for ACHE?. <i>Molecular Neurobiology</i> , 2015, 52, 45-56.                                   | 4.0 | 25        |
| 27 | A Structural Model of the Human $\alpha 7$ Nicotinic Receptor in an Open Conformation. <i>PLoS ONE</i> , 2015, 10, e0133011.                                                                                               | 2.5 | 11        |
| 28 | Functional Role of ATP Binding to Synapsin I In Synaptic Vesicle Trafficking and Release Dynamics. <i>Journal of Neuroscience</i> , 2014, 34, 14752-14768.                                                                 | 3.6 | 27        |
| 29 | Temperature-accelerated molecular dynamics gives insights into globular conformations sampled in the free state of the AC catalytic domain. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 2483-2496. | 2.6 | 12        |
| 30 | Comparison between Mean Forces and Swarms-of-Trajectories String Methods. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 524-533.                                                                           | 5.3 | 38        |
| 31 | Conformational Changes in Acetylcholine Binding Protein Investigated by Temperature Accelerated Molecular Dynamics. <i>PLoS ONE</i> , 2014, 9, e88555.                                                                     | 2.5 | 16        |
| 32 | Direct Imaging of DNA Fibers: The Visage of Double Helix. <i>Nano Letters</i> , 2012, 12, 6453-6458.                                                                                                                       | 9.1 | 73        |
| 33 | Intermediate state trapping of a voltage sensor. <i>Journal of General Physiology</i> , 2012, 140, 635-652.                                                                                                                | 1.9 | 50        |
| 34 | "DFG-Flip" in the Insulin Receptor Kinase Is Facilitated by a Helical Intermediate State of the Activation Loop. <i>Biophysical Journal</i> , 2012, 102, 1979-1987.                                                        | 0.5 | 50        |
| 35 | Calculation of Free Energy Landscape in Multi-Dimensions with Hamiltonian-Exchange Umbrella Sampling on Petascale Supercomputer. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 4672-4680.                   | 5.3 | 89        |
| 36 | Mapping Co Diffusion Paths in Myoglobin with the Single Sweep Method. <i>Biophysical Journal</i> , 2010, 98, 572a-573a.                                                                                                    | 0.5 | 0         |

| #  | ARTICLE                                                                                                                                                                                          | IF   | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Mapping the Network of Pathways of CO Diffusion in Myoglobin. <i>Journal of the American Chemical Society</i> , 2010, 132, 1010-1017.                                                            | 13.7 | 96        |
| 38 | Free Energy and Kinetics of Conformational Transitions from Voronoi Tessellated Milestoning with Restraining Potentials. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 2589-2594. | 5.3  | 62        |
| 39 | Single-sweep methods for free energy calculations. <i>Journal of Chemical Physics</i> , 2008, 128, 184110.                                                                                       | 3.0  | 119       |
| 40 | On-the-fly string method for minimum free energy paths calculation. <i>Chemical Physics Letters</i> , 2007, 446, 182-190.                                                                        | 2.6  | 159       |
| 41 | A temperature accelerated method for sampling free energy and determining reaction pathways in rare events simulations. <i>Chemical Physics Letters</i> , 2006, 426, 168-175.                    | 2.6  | 428       |
| 42 | String method in collective variables: Minimum free energy paths and isocommittor surfaces. <i>Journal of Chemical Physics</i> , 2006, 125, 024106.                                              | 3.0  | 600       |
| 43 | Experimental and Simulative Dissociation of Dimeric Cu,Zn Superoxide Dismutase Doubly Mutated at the Intersubunit Surface. <i>Biophysical Journal</i> , 2005, 88, 2875-2882.                     | 0.5  | 3         |
| 44 | Effective Binding Force Calculation in Dimeric Proteins. <i>Molecular Simulation</i> , 2004, 30, 807-816.                                                                                        | 2.0  | 11        |
| 45 | Atomic Mean-Square Displacements in Proteins by Molecular Dynamics: A Case for Analysis of Variance. <i>Biophysical Journal</i> , 2004, 86, 2765-2772.                                           | 0.5  | 17        |