# Haralambos Hatzikirou

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3003601/publications.pdf

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|---|---|---|---|
| 62<br>papers | 2,073<br>citations | 257101<br>24<br>h-index | 253896<br>43<br>g-index |
| 76<br>all docs | 76<br>docs citations | 76<br>times ranked | 2366<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Combining dynamic modeling with machine learning can be the key for the integration of mathematical and clinical oncology. Physics of Life Reviews, 2022, 40, 1-2. | 1.5 | 6 |
| 2 | Corrigendum to: Statistical mechanics of cell decision-making: the cell migration force distribution. Journal of the Mechanical Behavior of Materials, 2022, 31, 37-38. | 0.7 | 0 |
| 3 | Does company performance really improve following mergers? A pre-post analysis of differences in Greece. Problems and Perspectives in Management, 2022, 20, 543-553. | 0.5 | 0 |
| 4 | BIO-LGCA: A cellular automaton modelling class for analysing collective cell migration. PLoS Computational Biology, 2021, 17, e1009066. | 1.5 | 14 |
| 5 | Close to Optimal Cell Sensing Ensures the Robustness of Tissue Differentiation Process: The Avian Photoreceptor Mosaic Case. Entropy, 2021, 23, 867. | 1.1 | 4 |
| 6 | Improving personalized tumor growth predictions using a Bayesian combination of mechanistic modeling and machine learning. Communications Medicine, 2021, 1, . | 1.9 | 15 |
| 7 | A Novel Averaging Principle Provides Insights in the Impact of Intratumoral Heterogeneity on Tumor Progression. Mathematics, 2021, 9, 2530. | 1.1 | 1 |
| 8 | Inferring the effect of interventions on COVID-19 transmission networks. Scientific Reports, 2021, 11, 21913. | 1.6 | 5 |
| 9 | A minimal modeling framework of radiation and immune system synergy to assist radiotherapy planning. Journal of Theoretical Biology, 2020, 486, 110099. | 0.8 | 4 |
| 10 | Mechanical Control of Cell Proliferation Increases Resistance to Chemotherapeutic Agents. Physical Review Letters, 2020, 125, 128103. | 2.9 | 42 |
| 11 | Modelling collective cell motion: are on- and off-lattice models equivalent?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190378. | 1.8 | 6 |
| 12 | A least microenvironmental uncertainty principle (LEUP) as a generative model of collective cell migration mechanisms. Scientific Reports, 2020, 10, 22371. | 1.6 | 8 |
| 13 | Investigating the Physical Effects in Bacterial Therapies for Avascular Tumors. Frontiers in Microbiology, 2020, 11, 1083. | 1.5 | 0 |
| 14 | On the Immunological Consequences of Conventionally Fractionated Radiotherapy. IScience, 2020, 23, 100897. | 1.9 | 13 |
| 15 | Entropy-driven cell decision-making predicts â€˜fluid-to-solidâ€™ transition in multicellular systems. New Journal of Physics, 2020, 22, 123034. | 1.2 | 7 |
| 16 | Cellular Automaton Modeling of Tumor Invasion. , 2020, , 851-863. | | 2 |
| 17 | Decreased plasma phospholipid concentrations and increased acid sphingomyelinase activity are accurate biomarkers for community-acquired pneumonia. Journal of Translational Medicine, 2019, 17, 365. | 1.8 | 38 |
| 18 | On the Impact of Chemo-Mechanically Induced Phenotypic Transitions in Gliomas. Cancers, 2019, 11, 716. | 1.7 | 10 |

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|---|---|---|---|
| 19 | Cellular Automaton Modeling of Tumor Invasion. , 2019, , 1-13. | | 0 |
| 20 | Hook length of the bacterial flagellum is optimized for maximal stability of the flagellar bundle. PLoS Biology, 2018, 16, e2006989. | 2.6 | 31 |
| 21 | Statistical mechanics of cell decision-making: the cell migration force distribution. Journal of the Mechanical Behavior of Materials, 2018, 27, . | 0.7 | 9 |
| 22 | Therapeutic Potential of Bacteria against Solid Tumors. Cancer Research, 2017, 77, 1553-1563. | 0.4 | 14 |
| 23 | Extracting cellular automaton rules from physical Langevin equation models for single and collective cell migration. Journal of Mathematical Biology, 2017, 75, 1075-1100. | 0.8 | 16 |
| 24 | Image analysis of immune cell patterns in the human mammary gland during the menstrual cycle refines lymphocytic lobulitis. Breast Cancer Research and Treatment, 2017, 164, 305-315. | 1.1 | 3 |
| 25 | Cellular automaton models for time-correlated random walks: derivation and analysis. Scientific Reports, 2017, 7, 16952. | 1.6 | 14 |
| 26 | The biology and mathematical modelling of glioma invasion: a review. Journal of the Royal Society Interface, 2017, 14, 20170490. | 1.5 | 156 |
| 27 | Multidimensional Analysis Integrating Human T-Cell Signatures in Lymphatic Tissues with Sex of Humanized Mice for Prediction of Responses after Dendritic Cell Immunization. Frontiers in Immunology, 2017, 8, 1709. | 2.2 | 22 |
| 28 | The Extrinsic Noise Effect on Lateral Inhibition Differentiation Waves. ACM Transactions on Modeling and Computer Simulation, 2016, 26, 1-18. | 0.6 | 3 |
| 29 | In-silico insights on the prognostic potential of immune cell infiltration patterns in the breast lobular epithelium. Scientific Reports, 2016, 6, 33322. | 1.6 | 21 |
| 30 | Why one-size-fits-all vaso-modulatory interventions fail to control glioma invasion: in silico insights. Scientific Reports, 2016, 6, 37283. | 1.6 | 47 |
| 31 | From Immune Cells to Self-Organizing Ultra-Dense Small Cell Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 800-811. | 9.7 | 26 |
| 32 | In silico tumor control induced via alternating immunostimulating and immunosuppressive phases. Virulence, 2016, 7, 174-186. | 1.8 | 15 |
| 33 | Model-based Comparison of Cell Density-dependent Cell Migration Strategies. Mathematical Modelling of Natural Phenomena, 2015, 10, 94-107. | 0.9 | 10 |
| 34 | Cancer therapeutic potential of combinatorial immuno- and vasomodulatory interventions. Journal of the Royal Society Interface, 2015, 12, 20150439. | 1.5 | 16 |
| 35 | A Mechanistic Collective Cell Model for Epithelial Colony Growth and Contact Inhibition. Biophysical Journal, 2015, 109, 1347-1357. | 0.2 | 24 |
| 36 | An Emerging Allee Effect Is Critical for Tumor Initiation and Persistence. PLoS Computational Biology, 2015, 11, e1004366. | 1.5 | 81 |

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|---|---|---|---|
| 37 | Avian photoreceptor patterns represent a disordered hyperuniform solution to a multiscale packing problem. Physical Review E, 2014, 89, 022721. | 0.8 | 154 |
| 38 | Encoding of cellular positional information and maximum capacity of parallel coupled channels. , 2014, , . | | 1 |
| 39 | Detecting Emergent Phenomena in Cellular Automata Using Temporal Description Logics. Lecture Notes in Computer Science, 2014, , 357-366. | 1.0 | 0 |
| 40 | Cellular Automaton Modeling of Tumor Invasion. , 2014, , 1-13. | | 1 |
| 41 | In Silico Analysis of Cell Cycle Synchronisation Effects in Radiotherapy of Tumour Spheroids. PLoS Computational Biology, 2013, 9, e1003295. | 1.5 | 39 |
| 42 | Lattice-Gas Cellular Automaton Models. , 2013, , 1106-1108. | | 0 |
| 43 | Investigation of the Migration/Proliferation Dichotomy and its Impact on Avascular Glioma Invasion. Mathematical Modelling of Natural Phenomena, 2012, 7, 105-135. | 0.9 | 50 |
| 44 | 'Go or Grow': the key to the emergence of invasion in tumour progression?. Mathematical Medicine and Biology, 2012, 29, 49-65. | 0.8 | 281 |
| 45 | Density-dependent quiescence in glioma invasion: instability in a simple reactionâ€“diffusion model for the migration/proliferation dichotomy. Journal of Biological Dynamics, 2012, 6, 54-71. | 0.8 | 52 |
| 46 | Integrative physical oncology. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2012, 4, 1-14. | 6.6 | 29 |
| 47 | Effect of Vascularization on Glioma Tumor Growth. , 2012, , 237-259. | | 3 |
| 48 | Cellular Automaton Modeling of Tumor Invasion. , 2012, , 456-464. | | 2 |
| 49 | Dynamic density functional theory of solid tumor growth: Preliminary models. AIP Advances, 2012, 2, 011210. | 0.6 | 31 |
| 50 | Identification of intrinsic in vitro cellular mechanisms for glioma invasion. Journal of Theoretical Biology, 2011, 287, 131-147. | 0.8 | 85 |
| 51 | Title is missing!. Acta Physica Polonica B, Proceedings Supplement, 2011, 4, 167. | 0.0 | 4 |
| 52 | Prediction of traveling front behavior in a lattice-gas cellular automaton model for tumor invasion. Computers and Mathematics With Applications, 2010, 59, 2326-2339. | 1.4 | 50 |
| 53 | Lattice-Gas Cellular Automaton Models for Biology: From Fluids to Cells. Acta Biotheoretica, 2010, 58, 329-340. | 0.7 | 35 |
| 54 | Mathematical Oncology: How Are the Mathematical and Physical Sciences Contributing to the War on Breast Cancer?. Current Breast Cancer Reports, 2010, 2, 121-129. | 0.5 | 27 |

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|---|---|---|---|
| 55 | Lattice-Gas Cellular Automaton Modeling of Emergent Behavior in Interacting Cell Populations. Understanding Complex Systems, 2010, , 301-331. | 0.3 | 6 |
| 56 | Studying the emergence of invasiveness in tumours using game theory. European Physical Journal B, 2008, 63, 393-397. | 0.6 | 69 |
| 57 | Evolutionary game theory elucidates the role of glycolysis in glioma progression and invasion. Cell Proliferation, 2008, 41, 980-987. | 2.4 | 117 |
| 58 | Cellular Automata as Microscopic Models of Cell Migration in Heterogeneous Environments. Current Topics in Developmental Biology, 2008, 81, 401-434. | 1.0 | 66 |
| 59 | Multiple discontinuities in nonhuman vocal tracts â€“ A reply. Journal of Human Evolution, 2006, 50, 222-225. | 1.3 | 42 |
| 60 | Vocal production mechanisms in a non-human primate: morphological data and a model. Journal of Human Evolution, 2005, 48, 85-96. | 1.3 | 120 |
| 61 | MATHEMATICAL MODELLING OF GLIOBLASTOMA TUMOUR DEVELOPMENT: A REVIEW. Mathematical Models and Methods in Applied Sciences, 2005, 15, 1779-1794. | 1.7 | 117 |
| 62 | On the Immunological Consequences of Conventionally Fractionated Radiotherapy: In silico Insights. SSRN Electronic Journal, 0, , . | 0.4 | 0 |