

Roberto Chignola

List of Publications by Year in descending order

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Version: 2024-02-01

85
papers

1,221
citations

361413

20
h-index

454955

30
g-index

91
all docs

91
docs citations

91
times ranked

1582
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient ensemble stochastic algorithms for agent-based models with spatial predator-prey dynamics. <i>Mathematics and Computers in Simulation</i> , 2022, , .	4.4	0
2	Rheology of individual chitosan and polyphenol/chitosan microparticles for food engineering. <i>Food Hydrocolloids</i> , 2022, 132, 107869.	10.7	1
3	Phospho-Specific Flow Cytometry Reveals Signaling Heterogeneity in T-Cell Acute Lymphoblastic Leukemia Cell Lines. <i>Cells</i> , 2022, 11, 2072.	4.1	4
4	Effects of CD20 antibodies and kinase inhibitors on B-cell receptor signalling and survival of chronic lymphocytic leukaemia cells. <i>British Journal of Haematology</i> , 2021, 192, 333-342.	2.5	5
5	Phagocytosis of Astaxanthin-Loaded Microparticles Modulates TGF β ² Production and Intracellular ROS Levels in J774A.1 Macrophages. <i>Marine Drugs</i> , 2021, 19, 163.	4.6	8
6	Effects of Combination Treatments with Astaxanthin-Loaded Microparticles and Pentoxifylline on Intracellular ROS and Radiosensitivity of J774A.1 Macrophages. <i>Molecules</i> , 2021, 26, 5152.	3.8	9
7	Untargeted Metabolomics Investigation on Selenite Reduction to Elemental Selenium by <i>Bacillus mycooides</i> SelTE01. <i>Frontiers in Microbiology</i> , 2021, 12, 711000.	3.5	6
8	The control of acidity in tumor cells: a biophysical model. <i>Scientific Reports</i> , 2020, 10, 13613.	3.3	46
9	Oxygen in the Tumor Microenvironment: Mathematical and Numerical Modeling. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1259, 53-76.	1.6	8
10	Dynamical Detection of Boundaries and Cavities in Biophysical Cell-Based Simulations of Growing Tumor Tissues. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2019, 16, 1901-1911.	3.0	0
11	A comparison between Nonlinear Least Squares and Maximum Likelihood estimation for the prediction of tumor growth on experimental data of human and rat origin. <i>Biomedical Signal Processing and Control</i> , 2019, 54, 101639.	5.7	4
12	Fluctuations of Atmospheric Pressure and the Sound of Underground Karst Systems: The Antro del Corchia Case (Apuane Alps, Italy). <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	4
13	Fine-grained simulations of the microenvironment of vascularized tumours. <i>Scientific Reports</i> , 2019, 9, 11698.	3.3	8
14	Collective radioresistance of T47D breast carcinoma cells is mediated by a Syncytin-1 homologous protein. <i>PLoS ONE</i> , 2019, 14, e0206713.	2.5	12
15	Planar AFM macro-probes to study the biomechanical properties of large cells and 3D cell spheroids. <i>Acta Biomaterialia</i> , 2019, 94, 505-513.	8.3	30
16	Low catalase expression confers redox hypersensitivity and identifies an indolent clinical behavior in CLL. <i>Blood</i> , 2018, 131, 1942-1954.	1.4	15
17	Two metalloprotease inhibitors are implicated in tomato fruit development and regulated by the Inner No Outer transcription factor. <i>Plant Science</i> , 2018, 266, 19-26.	3.6	8
18	Effects of microencapsulation by ionic gelation on the oxidative stability of flaxseed oil. <i>Food Chemistry</i> , 2018, 269, 293-299.	8.2	43

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19	Analysis of the fluctuations of the tumour/host interface. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2017, 486, 587-594.	2.6	1
20	Tomato cystine-knot miniproteins possessing anti-angiogenic activity exhibit in vitro gastrointestinal stability, intestinal absorption and resistance to food industrial processing. <i>Food Chemistry</i> , 2017, 221, 1346-1353.	8.2	4
21	Pulsation-limited oxygen diffusion in the tumour microenvironment. <i>Scientific Reports</i> , 2017, 7, 39762.	3.3	21
22	Production of stable food-grade microencapsulated astaxanthin by vibrating nozzle technology. <i>Food Chemistry</i> , 2017, 221, 289-295.	8.2	34
23	Basalt Intrusions in Palaeokarst Caves in the Central Lessini Mountains (Venetian Prealps, Italy). <i>Acta Carsologica</i> , 2017, 46, .	0.7	1
24	Evidence for caspase-dependent programmed cell death along with repair processes in affected skeletal muscle fibres in patients with mitochondrial disorders. <i>Clinical Science</i> , 2016, 130, 167-181.	4.3	3
25	Setup of a procedure for cider proteins recovery and quantification. <i>European Food Research and Technology</i> , 2016, 242, 1803-1811.	3.3	6
26	Effects of macromolecular crowding on a small lipid binding protein probed at the single-amino acid level. <i>Archives of Biochemistry and Biophysics</i> , 2016, 606, 99-110.	3.0	12
27	Study on the Immunoreactivity of <i>Triticum monococcum</i> (Einkorn) Wheat in Patients with Wheat-Dependent Exercise-Induced Anaphylaxis for the Production of Hypoallergenic Foods. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 8299-8306.	5.2	17
28	Sos1 Regulates Macrophage Podosome Assembly and Macrophage Invasive Capacity. <i>Journal of Immunology</i> , 2015, 195, 4900-4912.	0.8	23
29	Competing computational approaches to reaction-diffusion equations in clusters of cells. <i>Journal of Physics: Conference Series</i> , 2014, 490, 012129.	0.4	1
30	From Single-Cell Dynamics to Scaling Laws in Oncology. <i>Biophysical Reviews and Letters</i> , 2014, 09, 273-284.	0.8	6
31	Population ecology of heterotypic tumour cell cultures. <i>Cell Proliferation</i> , 2014, 47, 476-483.	5.3	1
32	Neighbor search algorithm for lattice-free simulations with short-range forces. , 2014, , .		1
33	Efficient and extendible class scheme for the combined reaction-diffusion of multiple molecular species. <i>Computer Physics Communications</i> , 2014, 185, 826-835.	7.5	0
34	Use of GPUs to boost the performance of a lattice-free tumour growth model. <i>Journal of Physics: Conference Series</i> , 2014, 566, 012019.	0.4	0
35	New dating of palaeokarst features at Torricelle hills (Verona, Italy). <i>Italian Journal of Geosciences</i> , 2014, 133, 427-438.	0.8	5
36	Computer-Aided Biophysical Modeling: A Quantitative Approach to Complex Biological Systems. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2013, 10, 805-810.	3.0	3

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37	Association between B-cell receptor responsiveness and disease progression in B-cell chronic lymphocytic leukemia: results from single cell network profiling studies. <i>Haematologica</i> , 2013, 98, 626-634.	3.5	32
38	Metabolic scaling in solid tumours. <i>Scientific Reports</i> , 2013, 3, 1938.	3.3	15
39	Production and characterisation of monoclonal antibodies for the quantification of potentially allergenic xylanase from <i>Aspergillus niger</i> . <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2012, 29, 1356-1363.	2.3	3
40	Interplay between distribution of live cells and growth dynamics of solid tumours. <i>Scientific Reports</i> , 2012, 2, 990.	3.3	21
41	Expression of α -amylase inhibitors in diploid <i>Triticum</i> species. <i>Food Chemistry</i> , 2012, 135, 2643-2649.	8.2	30
42	Bridging the gap between the micro- and the macro-world of tumors. <i>AIP Advances</i> , 2012, 2, 011204.	1.3	11
43	Emulsification of Simulated Gastric Fluids Protects Wheat α -Amylase Inhibitor 0.19 Epitopes from Digestion. <i>Food Analytical Methods</i> , 2012, 5, 234-243.	2.6	6
44	COMPUTATIONAL CHALLENGES OF TUMOR SPHEROID MODELING. <i>Journal of Bioinformatics and Computational Biology</i> , 2011, 09, 559-577.	0.8	16
45	Modular model of TNF α cytotoxicity. <i>Bioinformatics</i> , 2011, 27, 1754-1757.	4.1	5
46	Dynamics of intracellular oscillations in the presence of multisite-binding proteins. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 3172-3178.	2.6	2
47	Microplate spectrophotometry for high-throughput screening of cytotoxic molecules. <i>Cell Proliferation</i> , 2010, 43, 130-138.	5.3	4
48	Oscillations in growth of multicellular tumour spheroids: a revisited quantitative analysis. <i>Cell Proliferation</i> , 2010, 43, 344-353.	5.3	11
49	Emergent Properties of Tumor Microenvironment in a Real-Life Model of Multicell Tumor Spheroids. <i>PLoS ONE</i> , 2010, 5, e13942.	2.5	38
50	Effects of wheat germ agglutinin on human gastrointestinal epithelium: Insights from an experimental model of immune/epithelial cell interaction. <i>Toxicology and Applied Pharmacology</i> , 2009, 237, 146-153.	2.8	68
51	Numerical integration methods for large-scale biophysical simulations. <i>Computer Physics Communications</i> , 2009, 180, 2166-2174.	7.5	14
52	Statistical approach to the analysis of cell desynchronization data. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 4204-4214.	2.6	4
53	A quantitative study of growth variability of tumour cell clones <i>in vitro</i> . <i>Cell Proliferation</i> , 2008, 41, 177-191.	5.3	7
54	Ab initiophenomenological simulation of the growth of large tumor cell populations. <i>Physical Biology</i> , 2007, 4, 114-133.	1.8	14

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55	Isolation and Identification of Two Lipid Transfer Proteins in Pomegranate (<i>Punica granatum</i>). <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 11057-11062.	5.2	20
56	Full-fledged proteomic analysis of bioactive wheat amylase inhibitors by a 3-D analytical technique: Identification of new heterodimeric aggregation states. <i>Electrophoresis</i> , 2007, 28, 460-466.	2.4	14
57	Dynamics of allosteric action in multisite protein modification. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 379, 133-150.	2.6	5
58	Thresholds, long delays and stability from generalized allosteric effect in protein networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 371, 463-472.	2.6	6
59	Proliferation and Death in a Binary Environment: A Stochastic Model of Cellular Ecosystems. <i>Bulletin of Mathematical Biology</i> , 2006, 68, 1661-1680.	1.9	5
60	A Rapid Method for the Recovery, Quantification and Electrophoretic Analysis of Proteins from Beer. <i>Journal of the Institute of Brewing</i> , 2006, 112, 25-27.	2.3	8
61	Plant lectins as carriers for oral drugs: Is wheat germ agglutinin a suitable candidate?. <i>Toxicology and Applied Pharmacology</i> , 2005, 207, 170-178.	2.8	35
62	Estimating the Growth Kinetics of Experimental Tumors From as Few as Two Determinations of Tumor Size: Implications for Clinical Oncology. <i>IEEE Transactions on Biomedical Engineering</i> , 2005, 52, 808-815.	4.2	28
63	A phenomenological approach to the simulation of metabolism and proliferation dynamics of large tumour cell populations. <i>Physical Biology</i> , 2005, 2, 8-22.	1.8	21
64	Anti-tumour potential of a gallic acid-containing phenolic fraction from <i>Oenothera biennis</i> . <i>Cancer Letters</i> , 2005, 226, 17-25.	7.2	76
65	Numerical simulation of tumor spheroid dynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 338, 261-266.	2.6	11
66	Studies on the joint cytotoxicity of Wheat Germ Agglutinin and monensin. <i>Toxicology in Vitro</i> , 2004, 18, 821-827.	2.4	11
67	Temperature-dependent decay of wheat germ agglutinin activity and its implications for food processing and analysis. <i>Food Control</i> , 2004, 15, 391-395.	5.5	24
68	Myelin basic protein epitopes secreted by human T cells encounter natural autoantibodies in the serum. <i>Journal of Neuroimmunology</i> , 2003, 141, 83-89.	2.3	2
69	Induction of an antitumour adaptive immune response elicited by tumour cells expressing de novo B7-1 mainly depends on the anatomical site of their delivery: the dose applied regulates the expansion of the response. <i>Immunology</i> , 2003, 110, 474-481.	4.4	7
70	Egg-matrix for large-scale single-step affinity purification of plant lectins with different carbohydrate specificities. <i>Protein Expression and Purification</i> , 2003, 27, 182-185.	1.3	9
71	Active soybean lectin in foods: quantitative determination by ELISA using immobilised asialofetuin. <i>Food Research International</i> , 2003, 36, 815-821.	6.2	21
72	Quantitative Determination of Dietary Lectin Activities by Enzyme-Linked Immunosorbent Assay Using Specific Glycoproteins Immobilized on Microtiter Plates. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 6266-6270.	5.2	27

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73	Effects of dietary wheat germ deprivation on the immune system in Wistar rats: a pilot study. <i>International Immunopharmacology</i> , 2002, 2, 1495-1501.	3.8	8
74	Forecasting the growth of multicell tumour spheroids: implications for the dynamic growth of solid tumours. <i>Cell Proliferation</i> , 2000, 33, 219-229.	5.3	75
75	Expression of myelin basic protein (MBP) epitopes in human non-neural cells revealed by two anti-MBP IgM monoclonal antibodies. <i>Clinical and Experimental Immunology</i> , 2000, 122, 429-436.	2.6	6
76	Analysis of CIITA encoding AIR-1 gene promoters in insulin-dependent diabetes mellitus and rheumatoid arthritis patients from the northeast of Italy: absence of sequence variability. <i>Human Immunology</i> , 2000, 61, 599-604.	2.4	14
77	Oscillating growth patterns of multicellular tumour spheroids. <i>Cell Proliferation</i> , 1999, 32, 39-48.	5.3	28
78	A non-parametric method for the analysis of experimental tumour growth data. <i>Medical and Biological Engineering and Computing</i> , 1999, 37, 537-542.	2.8	5
79	Escape mechanisms of human leukemic cells to long-term immunotoxin treatment in an in vitro experimental model. <i>International Journal of Cancer</i> , 1995, 61, 535-541.	5.1	9
80	Heterogeneous response of individual multicellular tumour spheroids to immunotoxins and ricin toxin. <i>British Journal of Cancer</i> , 1995, 72, 607-614.	6.4	27
81	Self-potential of Ligand-Toxin Conjugates Containing Ricin A Chain Fused with Viral Structures. <i>Journal of Biological Chemistry</i> , 1995, 270, 23345-23351.	3.4	27
82	Cytoreductive effects of anti-transferrin receptor immunotoxins in a multicellular tumor spheroid model. <i>International Journal of Cancer</i> , 1994, 57, 268-274.	5.1	14
83	Mechanisms involved in serum-dependent inactivation of the immunotoxin enhancers monensin and carrier-protein-monensin. <i>FEBS Journal</i> , 1994, 219, 469-479.	0.2	6
84	Disposition of intrathecally administered immunotoxins in rats. A preliminary report. <i>Pharmacological Research</i> , 1992, 25, 290-291.	7.1	1
85	Distribution of endocytosed molecules to intracellular acidic environments correlates with immunotoxin activity. <i>International Journal of Cancer</i> , 1990, 46, 1117-1123.	5.1	16