Morgan Craig

List of Publications by Year
in descending order

38 papers	1,020 citations	623734 14 h-index	501196 28 g-index
49 all docs	49 docs citations	49 times ranked	1338 citing authors

#	Article	IF	Citations
1	Longitudinal study of 2 patients with cyclic thrombocytopenia, STAT3 and MPL mutations. Blood Advances, 2023, 7, 190-194.	5.2	5
2	A randomized controlled trial of renin-angiotensin-aldosterone system inhibitor management in patients admitted in hospital with COVID-19. American Heart Journal, 2022, 247, 76-89.	2.7	12
3	A machine learning approach to differentiate between COVID-19 and influenza infection using synthetic infection and immune response data. Mathematical Biosciences and Engineering, 2022, 19, 5813-5831.	1.9	4
4	Multiscale Model of Antiviral Timing, Potency, and Heterogeneity Effects on an Epithelial Tissue Patch Infected by SARS-CoV-2. Viruses, 2022, 14, 605.	3.3	8
5	Algorithmic reconstruction of glioblastoma network complexity. IScience, 2022, 25, 104179.	4.1	6
6	Agent-based computational modeling of glioblastoma predicts that stromal density is central to oncolytic virus efficacy. IScience, 2022, 25, 104395.	4.1	23
7	Establishing combination PACâ€1 and TRAIL regimens for treating ovarian cancer based on patientâ€specific pharmacokinetic profiles using in silico clinical trials. Computational and Systems Oncology, 2022, 2, .	1.5	6
8	The timing of cyclic cytotoxic chemotherapy can worsen neutropenia and neutrophilia. British Journal of Clinical Pharmacology, 2021, 87, 687-693.	2.4	14
9	Engineering in Medicine To Address the Challenge of Cancer Drug Resistance: From Micro- and Nanotechnologies to Computational and Mathematical Modeling. Chemical Reviews, 2021, 121, 3352-3389.	47.7	41
10	Impact of estrogen population pharmacokinetics on a QSP model of mammary stem cell differentiation into myoepithelial cells. AIMS Mathematics, 2021, 6, 10861-10880.	1.6	4
11	A Quantitative Systems Pharmacology Framework for Optimal Doxorubicin Granulocyte Colony-Stimulating Factor Regimens in Triple-Negative Breast Cancer. Pharmacology, 2021, 106, 542-550.	2.2	5
12	In silico trials predict that combination strategies for enhancing vesicular stomatitis oncolytic virus are determined by tumor aggressivity. , 2021, 9, e001387.		26
13	Management of Renin-Angiotensin-Aldosterone System blockade in patients admitted to hospital with confirmed coronavirus disease (COVID-19) infection (The McGill RAAS-COVID- 19): A structured summary of a study protocol for a randomized controlled trial. Trials, 2021, 22, 115.	1.6	5
14	Increased stem cell proliferation in atherosclerosis accelerates clonal hematopoiesis. Cell, 2021, 184, 1348-1361.e22.	28.9	149
15	Procaspase-Activating Compound-1 Synergizes with TRAIL to Induce Apoptosis in Established Granulosa Cell Tumor Cell Line (KGN) and Explanted Patient Granulosa Cell Tumor Cells In Vitro. International Journal of Molecular Sciences, 2021, 22, 4699.	4.1	12
16	Understanding Normal and Pathological Hematopoietic Stem Cell Biology Using Mathematical Modelling. Current Stem Cell Reports, 2021, 7, 109-120.	1.6	6
17	COVID-19 virtual patient cohort suggests immune mechanisms driving disease outcomes. PLoS Pathogens, 2021, 17, e1009753.	4.7	61
18	The role of memory in non-genetic inheritance and its impact on cancer treatment resistance. PLoS Computational Biology, 2021, 17, e1009348.	3.2	11

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19	Analysis of Host Immunological Response of Adenovirus-Based COVID-19 Vaccines. Vaccines, 2021, 9, 861.	4.4	26
20	A Blueprint for Identifying Phenotypes and Drug Targets in Complex Disorders with Empirical Dynamics. Patterns, 2020, 1, 100138.	5.9	9
21	Leveraging Computational Modeling to Understand Infectious Diseases. Current Pathobiology Reports, 2020, 8, 149-161.	3.4	19
22	Characterizing Chemotherapy-Induced Neutropenia and Monocytopenia Through Mathematical Modelling. Bulletin of Mathematical Biology, 2020, 82, 104.	1.9	8
23	Translational approaches to treating dynamical diseases through in silico clinical trials. Chaos, 2020, 30, 123128.	2.5	21
24	Cooperative adaptation to therapy (CAT) confers resistance in heterogeneous non-small cell lung cancer. PLoS Computational Biology, 2019, 15, e1007278.	3.2	23
25	Determinants of combination GM-CSF immunotherapy and oncolytic virotherapy success identified through in silico treatment personalization. PLoS Computational Biology, 2019, 15, e1007495.	3.2	44
26	Equivalences between age structured models and state dependent distributed delay differential equations. Mathematical Biosciences and Engineering, 2019, 16, 5419-5450.	1.9	15
27	Transit and lifespan in neutrophil production: implications for drug intervention. Journal of Pharmacokinetics and Pharmacodynamics, 2018, 45, 59-77.	1.8	29
28	Development of an oral once-weekly drug delivery system for HIV antiretroviral therapy. Nature Communications, 2018, 9, 2.	12.8	180
29	Chaos synchronization and Nelder-Mead search for parameter estimation in nonlinear pharmacological systems: Estimating tumor antigenicity in a model of immunotherapy. Progress in Biophysics and Molecular Biology, 2018, 139, 23-30.	2.9	5
30	How Platelet Regulation Varies In Humans With Cyclic Thrombocytopenia. , 2018, , .		0
31	Normal and pathological dynamics of platelets in humans. Journal of Mathematical Biology, 2017, 75, 1411-1462.	1.9	27
32	Towards Quantitative Systems Pharmacology Models of Chemotherapyâ€Induced Neutropenia. CPT: Pharmacometrics and Systems Pharmacology, 2017, 6, 293-304.	2.5	33
33	An upper bound for the half-removal time of neutrophils from circulation. Blood, 2016, 128, 1989-1991.	1.4	6
34	Approaching Pharmacometrics as a Paleontologist Would: Recovering the Links Between Drugs and the Body Through Reconstruction. CPT: Pharmacometrics and Systems Pharmacology, 2016, 5, 158-160.	2.5	3
35	A Mathematical Model of Granulopoiesis Incorporating the Negative Feedback Dynamics and Kinetics of G-CSF/Neutrophil Binding and Internalization. Bulletin of Mathematical Biology, 2016, 78, 2304-2357.	1.9	64
36	Impact of Pharmacokinetic Variability on a Mechanistic Physiological Pharmacokinetic/Pharmacodynamic Model: A Case Study of Neutrophil Development, PM00104, and Filgrastim. Springer Proceedings in Mathematics and Statistics, 2016, , 91-112.	0.2	5

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37	Neutrophil dynamics during concurrent chemotherapy and G-CSF administration: Mathematical modelling guides dose optimisation to minimise neutropenia. Journal of Theoretical Biology, 2015, 385, 77-89.	1.7	37
38	Physiologically-Based Mathematical Modelling of Neutrophil Dynamics during Concurrent Chemotherapy and Filgrastim Support. Blood, 2014, 124, 5134-5134.	1.4	0