Robyn P Araujo

List of Publications by Year
in descending order

31 papers	2,504 citations	471509 17 h-index	454955 30 g-index
36 all docs	36 docs citations	36 times ranked	2940 citing authors

#	Article	IF	Citations
1	Bayesian and Algebraic Strategies to Design in Synthetic Biology. Proceedings of the IEEE, 2022, 110, 675-687.	21.3	8
2	Improving immunovirotherapies: the intersection of mathematical modelling and experiments. ImmunoInformatics, 2022, 6, 100011.	2.2	5
3	Ultrasensitivity and bistability in covalent-modification cycles with positive autoregulation. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20210069.	2.1	13
4	Lipoarabinomannan antigenic epitope differences in tuberculosis disease subtypes. Scientific Reports, 2020, 10, 13944.	3.3	8
5	Evaluation of pathogen specific urinary peptides in tick-borne illnesses. Scientific Reports, 2020, 10, 19340.	3.3	8
6	Cholesterol Regulation in Age-Related Macular Degeneration: A Framework for Mathematical Modelling of Drusen Biogenesis. Bulletin of Mathematical Biology, 2020, 82, 135.	1.9	4
7	An optimal control model of the treatment of chronic Chlamydia trachomatis infection using a combination treatment with antibiotic and tryptophan. Applied Mathematics and Computation, 2020, 375, 124899.	2.2	2
8	Mathematical modelling of the role of mucosal vaccine on the within-host dynamics of Chlamydia trachomatis. Journal of Theoretical Biology, 2020, 497, 110291.	1.7	3
9	The topological requirements for robust perfect adaptation in networks of any size. Nature Communications, 2018, 9, 1757.	12.8	59
10	Affinity enrichment for mass spectrometry: improving the yield of low abundance biomarkers. Expert Review of Proteomics, 2018, 15, 353-366.	3.0	34
11	Urine lipoarabinomannan glycan in HIV-negative patients with pulmonary tuberculosis correlates with disease severity. Science Translational Medicine, 2017, 9, .	12.4	88
12	The -Omics in Drug Development. , 2011, , 145-173.		1
13	Critical dependence of blood-borne biomarker concentrations on the half-lives of their carrier proteins. Journal of Theoretical Biology, 2008, 253, 616-622.	1.7	5
14	Phosphoprotein Pathway Mapping: Akt/Mammalian Target of Rapamycin Activation Is Negatively Associated with Childhood Rhabdomyosarcoma Survival. Cancer Research, 2007, 67, 3431-3440.	0.9	230
15	Proteins, drug targets and the mechanisms they control: the simple truth about complex networks. Nature Reviews Drug Discovery, 2007, 6, 871-880.	46.4	153
16	Mathematical Modeling of the Cancer Cell â€™ s Control Circuitry: Paving the Way to Individualized Therapeutic Strategies. Current Signal Transduction Therapy, 2007, 2, 145-155.	0.5	11
17	The blood peptidome: a higher dimension of information content for cancer biomarker discovery. Nature Reviews Cancer, 2006, 6, 961-967.	28.4	322
18	A control theoretic paradigm for cell signaling networks: a simple complexity for a sensitive robustness. Current Opinion in Chemical Biology, 2006, 10, 81-87.	6.1	30

#	Article	IF	Citations
19	The amplified peptidome: the new treasure chest of candidate biomarkers. Current Opinion in Chemical Biology, 2006, 10, 50-55.	6.1	80
20	The role of mechanical host–tumour interactions in the collapse of tumour blood vessels and tumour growth dynamics. Journal of Theoretical Biology, 2006, 238, 817-827.	1.7	13
21	The nature of the stresses induced during tissue growth. Applied Mathematics Letters, 2005, 18, 1081-1088.	2.7	16
22	Analysis of Albumin-Associated Peptides and Proteins from Ovarian Cancer Patients. Clinical Chemistry, 2005, 51, 1933-1945.	3.2	190
23	A mathematical model of combination therapy using the EGFR signaling network. BioSystems, 2005, 80, 57-69.	2.0	92
24	A Mixture Theory for the Genesis of Residual Stresses in Growing Tissues II: Solutions to the Biphasic Equations for a Multicell Spheroid. SIAM Journal on Applied Mathematics, 2005, 66, 447-467.	1.8	50
25	Use of Reverse Phase Protein Microarrays and Reference Standard Development for Molecular Network Analysis of Metastatic Ovarian Carcinoma. Molecular and Cellular Proteomics, 2005, 4, 346-355.	3.8	278
26	A Mixture Theory for the Genesis of Residual Stresses in Growing Tissues I: A General Formulation. SIAM Journal on Applied Mathematics, 2005, 65, 1261-1284.	1.8	76
27	Modeling of Protein Signaling Networks in Clinical Proteomics. Cold Spring Harbor Symposia on Quantitative Biology, 2005, 70, 517-524.	1.1	21
28	A linear-elastic model of anisotropic tumour growth. European Journal of Applied Mathematics, 2004, 15, 365-384.	2.9	51
29	New insights into vascular collapse and growth dynamics in solid tumors. Journal of Theoretical Biology, 2004, 228, 335-346.	1.7	47
30	A history of the study of solid tumour growth: the contribution of mathematical modelling. Bulletin of Mathematical Biology, 2004, 66, 1039-1091.	1.9	580
31	Network-targeted combination therapy: a new concept in cancer treatment. Drug Discovery Today: Therapeutic Strategies, 2004, 1, 425-433.	0.5	14