# Robyn P Araujo

List of Publications by Year
in descending order

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

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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 |
| 2 | The blood peptidome: a higher dimension of information content for cancer biomarker discovery. Nature Reviews Cancer, 2006, 6, 961-967. | 28.4 | 322 |
| 3 | 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 |
| 4 | 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 |
| 5 | Analysis of Albumin-Associated Peptides and Proteins from Ovarian Cancer Patients. Clinical Chemistry, 2005, 51, 1933-1945. | 3.2 | 190 |
| 6 | 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 |
| 7 | A mathematical model of combination therapy using the EGFR signaling network. BioSystems, 2005, 80, 57-69. | 2.0 | 92 |
| 8 | Urine lipoarabinomannan glycan in HIV-negative patients with pulmonary tuberculosis correlates with disease severity. Science Translational Medicine, 2017, 9, . | 12.4 | 88 |
| 9 | The amplified peptidome: the new treasure chest of candidate biomarkers. Current Opinion in Chemical Biology, 2006, 10, 50-55. | 6.1 | 80 |
| 10 | 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 |
| 11 | The topological requirements for robust perfect adaptation in networks of any size. Nature Communications, 2018, 9, 1757. | 12.8 | 59 |
| 12 | A linear-elastic model of anisotropic tumour growth. European Journal of Applied Mathematics, 2004, 15, 365-384. | 2.9 | 51 |
| 13 | 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 |
| 14 | New insights into vascular collapse and growth dynamics in solid tumors. Journal of Theoretical Biology, 2004, 228, 335-346. | 1.7 | 47 |
| 15 | Affinity enrichment for mass spectrometry: improving the yield of low abundance biomarkers. Expert Review of Proteomics, 2018, 15, 353-366. | 3.0 | 34 |
| 16 | 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 |
| 17 | Modeling of Protein Signaling Networks in Clinical Proteomics. Cold Spring Harbor Symposia on Quantitative Biology, 2005, 70, 517-524. | 1.1 | 21 |
| 18 | The nature of the stresses induced during tissue growth. Applied Mathematics Letters, 2005, 18, 1081-1088. | 2.7 | 16 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Network-targeted combination therapy: a new concept in cancer treatment. Drug Discovery Today: Therapeutic Strategies, 2004, 1, 425-433. | 0.5 | 14 |
| 20 | The role of mechanical hostâ€“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 | 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 |
| 22 | 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 |
| 23 | Lipoarabinomannan antigenic epitope differences in tuberculosis disease subtypes. Scientific Reports, 2020, 10, 13944. | 3.3 | 8 |
| 24 | Evaluation of pathogen specific urinary peptides in tick-borne illnesses. Scientific Reports, 2020, 10, 19340. | 3.3 | 8 |
| 25 | Bayesian and Algebraic Strategies to Design in Synthetic Biology. Proceedings of the IEEE, 2022, 110, 675-687. | 21.3 | 8 |
| 26 | 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 |
| 27 | Improving immunovirotherapies: the intersection of mathematical modelling and experiments. ImmunoInformatics, 2022, 6, 100011. | 2.2 | 5 |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | The -Omics in Drug Development. , 2011, , 145-173. | | 1 |