

Prashant Dogra

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

865
citations

623734

14
h-index

526287

27
g-index

35
all docs

35
docs citations

35
times ranked

1148
citing authors

#	ARTICLE	IF	CITATIONS
1	Establishing the effects of mesoporous silica nanoparticle properties on in vivo disposition using imaging-based pharmacokinetics. <i>Nature Communications</i> , 2018, 9, 4551.	12.8	189
2	Mathematical modeling in cancer nanomedicine: a review. <i>Biomedical Microdevices</i> , 2019, 21, 40.	2.8	122
3	A mathematical model to predict nanomedicine pharmacokinetics and tumor delivery. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 518-531.	4.1	61
4	Theory and Experimental Validation of a Spatio-temporal Model of Chemotherapy Transport to Enhance Tumor Cell Kill. <i>PLoS Computational Biology</i> , 2016, 12, e1004969.	3.2	55
5	Integrated nanotechnology platform for tumor-targeted multimodal imaging and therapeutic cargo release. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1877-1882.	7.1	55
6	Size-Optimized Ultrasmall Porous Silica Nanoparticles Depict Vasculature-Based Differential Targeting in Triple Negative Breast Cancer. <i>Small</i> , 2019, 15, e1903747.	10.0	39
7	Understanding Drug Resistance in Breast Cancer with Mathematical Oncology. <i>Current Breast Cancer Reports</i> , 2014, 6, 110-120.	1.0	38
8	Intratumoral injection of hydrogel-embedded nanoparticles enhances retention in glioblastoma. <i>Nanoscale</i> , 2020, 12, 23838-23850.	5.6	38
9	Innate Immunity Plays a Key Role in Controlling Viral Load in COVID-19: Mechanistic Insights from a Whole-Body Infection Dynamics Model. <i>ACS Pharmacology and Translational Science</i> , 2021, 4, 248-265.	4.9	36
10	A mathematical model for the quantification of a patient's sensitivity to checkpoint inhibitors and long-term tumour burden. <i>Nature Biomedical Engineering</i> , 2021, 5, 297-308.	22.5	28
11	Image-guided mathematical modeling for pharmacological evaluation of nanomaterials and monoclonal antibodies. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2020, 12, e1628.	6.1	24
12	Targeted phage display-based pulmonary vaccination in mice and non-human primates. <i>Med</i> , 2021, 2, 321-342.e8.	4.4	18
13	Targeting a cell surface vitamin D receptor on tumor-associated macrophages in triple-negative breast cancer. <i>ELife</i> , 2021, 10, .	6.0	18
14	Sequential deconstruction of composite drug transport in metastatic breast cancer. <i>Science Advances</i> , 2020, 6, eaba4498.	10.3	17
15	Mathematical Modeling to Address Challenges in Pancreatic Cancer. <i>Current Topics in Medicinal Chemistry</i> , 2020, 20, 367-376.	2.1	16
16	A Mathematical Model to Estimate Chemotherapy Concentration at the Tumor-Site and Predict Therapy Response in Colorectal Cancer Patients with Liver Metastases. <i>Cancers</i> , 2021, 13, 444.	3.7	14
17	Microneedle-mediated transdermal delivery of naloxone hydrochloride for treatment of opioid overdose. <i>International Journal of Pharmaceutics</i> , 2021, 604, 120739.	5.2	13
18	Translational Modeling Identifies Synergy between Nanoparticle-Delivered miRNA-22 and Standard-of-Care Drugs in Triple-Negative Breast Cancer. <i>Pharmaceutical Research</i> , 2022, 39, 511-528.	3.5	12

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19	Imaging-Based Subtypes of Pancreatic Ductal Adenocarcinoma Exhibit Differential Growth and Metabolic Patterns in the Pre-Diagnostic Period: Implications for Early Detection. <i>Frontiers in Oncology</i> , 2020, 10, 596931.	2.8	10
20	A modeling platform for the lymphatic system. <i>Journal of Theoretical Biology</i> , 2020, 493, 110193.	1.7	7
21	Genetic and Structural Analysis of SARS-CoV-2 Spike Protein for Universal Epitope Selection. <i>Molecular Biology and Evolution</i> , 2022, 39, .	8.9	7
22	Is the worst of the COVID-19 global pandemic yet to come? Application of financial mathematics as candidate predictive tools. <i>Translational Psychiatry</i> , 2021, 11, 299.	4.8	6
23	Global dynamics of a cell quota-based model of light-dependent algae growth in a chemostat. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 90, 105295.	3.3	5
24	Amphibian regeneration and mammalian cancer: Similarities and contrasts from an evolutionary biology perspective. <i>BioEssays</i> , 2021, 43, e2000339.	2.5	5
25	Dedifferentiation-mediated stem cell niche maintenance in early-stage ductal carcinoma in situ progression: insights from a multiscale modeling study. <i>Cell Death and Disease</i> , 2022, 13, .	6.3	5
26	Emerging Lipid-Coated Silica Nanoparticles for Cancer Therapy. <i>Nanotechnology in the Life Sciences</i> , 2021, , 335-361.	0.6	4
27	Diffusion-induced anisotropic cancer invasion: A novel experimental method based on tumor spheroids. <i>AIChE Journal</i> , 2022, 68, .	3.6	4
28	A Multiscale Model to Identify Limiting Factors in Nanoparticle-Based miRNA Delivery for Tumor Inhibition. , 2021, 2021, 4230-4233.		3
29	Investigating the Effect of Aging on the Pharmacokinetics and Tumor Delivery of Nanomaterials using Mathematical Modeling. , 2020, 2020, 2447-2450.		2
30	Development of a Physiologically-Based Mathematical Model for Quantifying Nanoparticle Distribution in Tumors. , 2019, 2019, 2852-2855.		1