

# Prashant Dogra

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

865  
citations

623574

14  
h-index

526166

27  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1148  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diffusion-induced anisotropic cancer invasion: A novel experimental method based on tumor spheroids. <i>AICHE Journal</i> , 2022, 68, .	1.8	4
2	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.	1.7	12
3	Genetic and Structural Analysis of SARS-CoV-2 Spike Protein for Universal Epitope Selection. <i>Molecular Biology and Evolution</i> , 2022, 39, .	3.5	7
4	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, .	2.7	5
5	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.	1.7	14
6	Amphibian regeneration and mammalian cancer: Similarities and contrasts from an evolutionary biology perspective. <i>BioEssays</i> , 2021, 43, e2000339.	1.2	5
7	Targeted phage display-based pulmonary vaccination in mice and non-human primates. <i>Med</i> , 2021, 2, 321-342.e8.	2.2	18
8	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.	2.4	6
9	Targeting a cell surface vitamin D receptor on tumor-associated macrophages in triple-negative breast cancer. <i>ELife</i> , 2021, 10, .	2.8	18
10	Microneedle-mediated transdermal delivery of naloxone hydrochloride for treatment of opioid overdose. <i>International Journal of Pharmaceutics</i> , 2021, 604, 120739.	2.6	13
11	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.	11.6	28
12	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.	2.5	36
13	Emerging Lipid-Coated Silica Nanoparticles for Cancer Therapy. <i>Nanotechnology in the Life Sciences</i> , 2021, , 335-361.	0.4	4
14	A Multiscale Model to Identify Limiting Factors in Nanoparticle-Based miRNA Delivery for Tumor Inhibition. , 2021, 2021, 4230-4233.		3
15	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.	1.3	10
16	Investigating the Effect of Aging on the Pharmacokinetics and Tumor Delivery of Nanomaterials using Mathematical Modeling. , 2020, 2020, 2447-2450.		2
17	Intratumoral injection of hydrogel-embedded nanoparticles enhances retention in glioblastoma. <i>Nanoscale</i> , 2020, 12, 23838-23850.	2.8	38
18	A mathematical model to predict nanomedicine pharmacokinetics and tumor delivery. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 518-531.	1.9	61

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19	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.	1.7	5
20	Sequential deconstruction of composite drug transport in metastatic breast cancer. <i>Science Advances</i> , 2020, 6, eaba4498.	4.7	17
21	A modeling platform for the lymphatic system. <i>Journal of Theoretical Biology</i> , 2020, 493, 110193.	0.8	7
22	Image-guided mathematical modeling for pharmacological evaluation of nanomaterials and monoclonal antibodies. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2020, 12, e1628.	3.3	24
23	Mathematical Modeling to Address Challenges in Pancreatic Cancer. <i>Current Topics in Medicinal Chemistry</i> , 2020, 20, 367-376.	1.0	16
24	Size-Optimized Ultrasmall Porous Silica Nanoparticles Depict Vasculature-Based Differential Targeting in Triple Negative Breast Cancer. <i>Small</i> , 2019, 15, e1903747.	5.2	39
25	Development of a Physiologically-Based Mathematical Model for Quantifying Nanoparticle Distribution in Tumors. , 2019, 2019, 2852-2855.		1
26	Mathematical modeling in cancer nanomedicine: a review. <i>Biomedical Microdevices</i> , 2019, 21, 40.	1.4	122
27	Establishing the effects of mesoporous silica nanoparticle properties on in vivo disposition using imaging-based pharmacokinetics. <i>Nature Communications</i> , 2018, 9, 4551.	5.8	189
28	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.	1.5	55
29	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.	3.3	55
30	Understanding Drug Resistance in Breast Cancer with Mathematical Oncology. <i>Current Breast Cancer Reports</i> , 2014, 6, 110-120.	0.5	38