Prashant Dogra

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/824260/publications.pdf

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30	865	623734	526287
papers	citations	14	27
		h-index	g-index

35	35	35	1148
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Diffusionâ€induced anisotropic cancer invasion: A novel experimental method based on tumor spheroids. AICHE Journal, 2022, 68, .	3.6	4
2	Translational Modeling Identifies Synergy between Nanoparticle-Delivered miRNA-22 and Standard-of-Care Drugs in Triple-Negative Breast Cancer. Pharmaceutical Research, 2022, 39, 511-528.	3.5	12
3	Genetic and Structural Analysis of SARS-CoV-2 Spike Protein for Universal Epitope Selection. Molecular Biology and Evolution, 2022, 39, .	8.9	7
4	Dedifferentiation-mediated stem cell niche maintenance in early-stage ductal carcinoma in situ progression: insights from a multiscale modeling study. Cell Death and Disease, 2022, 13, .	6.3	5
5	A Mathematical Model to Estimate Chemotherapy Concentration at the Tumor-Site and Predict Therapy Response in Colorectal Cancer Patients with Liver Metastases. Cancers, 2021, 13, 444.	3.7	14
6	Amphibian regeneration and mammalian cancer: Similarities and contrasts from an evolutionary biology perspective. BioEssays, 2021, 43, e2000339.	2.5	5
7	Targeted phage display-based pulmonary vaccination in mice and non-human primates. Med, 2021, 2, 321-342.e8.	4.4	18
8	Is the worst of the COVID-19 global pandemic yet to come? Application of financial mathematics as candidate predictive tools. Translational Psychiatry, 2021, 11, 299.	4.8	6
9	Targeting a cell surface vitamin D receptor on tumor-associated macrophages in triple-negative breast cancer. ELife, 2021, 10, .	6.0	18
10	Microneedle-mediated transdermal delivery of naloxone hydrochloride for treatment of opioid overdose. International Journal of Pharmaceutics, 2021, 604, 120739.	5.2	13
11	A mathematical model for the quantification of a patientâ€™s sensitivity to checkpoint inhibitors and long-term tumour burden. Nature Biomedical Engineering, 2021, 5, 297-308.	22.5	28
12	Innate Immunity Plays a Key Role in Controlling Viral Load in COVID-19: Mechanistic Insights from a Whole-Body Infection Dynamics Model. ACS Pharmacology and Translational Science, 2021, 4, 248-265.	4.9	36
13	Emerging Lipid-Coated Silica Nanoparticles for Cancer Therapy. Nanotechnology in the Life Sciences, 2021, , 335-361.	0.6	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. Frontiers in Oncology, 2020, 10, 596931.	2.8	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. Nanoscale, 2020, 12, 23838-23850.	5.6	38
18	A mathematical model to predict nanomedicine pharmacokinetics and tumor delivery. Computational and Structural Biotechnology Journal, 2020, 18, 518-531.	4.1	61

#	Article	IF	Citations
19	Global dynamics of a cell quota-based model of light-dependent algae growth in a chemostat. Communications in Nonlinear Science and Numerical Simulation, 2020, 90, 105295.	3.3	5
20	Sequential deconstruction of composite drug transport in metastatic breast cancer. Science Advances, 2020, 6, eaba4498.	10.3	17
21	A modeling platform for the lymphatic system. Journal of Theoretical Biology, 2020, 493, 110193.	1.7	7
22	Imageâ€guided mathematical modeling for pharmacological evaluation of nanomaterials and monoclonal antibodies. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2020, 12, e1628.	6.1	24
23	Mathematical Modeling to Address Challenges in Pancreatic Cancer. Current Topics in Medicinal Chemistry, 2020, 20, 367-376.	2.1	16
24	Sizeâ€Optimized Ultrasmall Porous Silica Nanoparticles Depict Vasculatureâ€Based Differential Targeting in Triple Negative Breast Cancer. Small, 2019, 15, e1903747.	10.0	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. Biomedical Microdevices, 2019, 21, 40.	2.8	122
27	Establishing the effects of mesoporous silica nanoparticle properties on in vivo disposition using imaging-based pharmacokinetics. Nature Communications, 2018, 9, 4551.	12.8	189
28	Theory and Experimental Validation of a Spatio-temporal Model of Chemotherapy Transport to Enhance Tumor Cell Kill. PLoS Computational Biology, 2016, 12, e1004969.	3.2	55
29	Integrated nanotechnology platform for tumor-targeted multimodal imaging and therapeutic cargo release. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1877-1882.	7.1	55
30	Understanding Drug Resistance in Breast Cancer with Mathematical Oncology. Current Breast Cancer Reports, 2014, 6, 110-120.	1.0	38