

Jai Prakash

List of Publications by Year in descending order

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Version: 2024-02-01

119
papers

5,205
citations

61857

43
h-index

102304

66
g-index

120
all docs

120
docs citations

120
times ranked

7630
citing authors

#	ARTICLE	IF	CITATIONS
1	3D Bioprinting: from Benches to Translational Applications. <i>Small</i> , 2019, 15, e1805510.	5.2	235
2	3D In Vitro Model (R)evolution: Unveiling Tumor–Stroma Interactions. <i>Trends in Cancer</i> , 2021, 7, 249-264.	3.8	209
3	3D–Bioprinted Mini–Brain: A Glioblastoma Model to Study Cellular Interactions and Therapeutics. <i>Advanced Materials</i> , 2019, 31, e1806590.	11.1	168
4	Drug targeting to the diseased liver. <i>Journal of Controlled Release</i> , 2012, 161, 188-197.	4.8	148
5	Integrins in wound healing, fibrosis and tumor stroma: High potential targets for therapeutics and drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2018, 129, 37-53.	6.6	145
6	Targeting the Stat6 pathway in tumor-associated macrophages reduces tumor growth and metastatic niche formation in breast cancer. <i>FASEB Journal</i> , 2018, 32, 969-978.	0.2	134
7	Drug targeting to myofibroblasts: Implications for fibrosis and cancer. <i>Advanced Drug Delivery Reviews</i> , 2017, 121, 101-116.	6.6	121
8	Tumor stroma-containing 3D spheroid arrays: A tool to study nanoparticle penetration. <i>Journal of Controlled Release</i> , 2016, 244, 257-268.	4.8	119
9	Fibrosis imaging: Current concepts and future directions. <i>Advanced Drug Delivery Reviews</i> , 2017, 121, 9-26.	6.6	110
10	MicroRNA Targeting to Modulate Tumor Microenvironment. <i>Frontiers in Oncology</i> , 2016, 6, 3.	1.3	108
11	Targeting Pancreatic Stellate Cells in Cancer. <i>Trends in Cancer</i> , 2019, 5, 128-142.	3.8	97
12	Decreasing incidence of renal cortical necrosis in patients with acute renal failure in developing countries: a single-centre experience of 22 years from Eastern India. <i>Nephrology Dialysis Transplantation</i> , 2007, 22, 1213-1217.	0.4	96
13	Reduction of advanced liver fibrosis by short-term targeted delivery of an angiotensin receptor blocker to hepatic stellate cells in rats. <i>Hepatology</i> , 2010, 51, NA-NA.	3.6	96
14	Glomerular and tubular induction of the transcription factor c-Jun in human renal disease. <i>Journal of Pathology</i> , 2007, 213, 219-228.	2.1	88
15	Complete regression of breast tumour with a single dose of docetaxel-entrapped core-cross-linked polymeric micelles. <i>Biomaterials</i> , 2015, 53, 370-378.	5.7	88
16	Nano-targeted relaxin impairs fibrosis and tumor growth in pancreatic cancer and improves the efficacy of gemcitabine in vivo. <i>Journal of Controlled Release</i> , 2018, 290, 1-10.	4.8	88
17	Bioprinting: 3D Bioprinting: from Benches to Translational Applications (<i>Small</i> 23/2019). <i>Small</i> , 2019, 15, 1970126.	5.2	84
18	Clinical Advancements in the Targeted Therapies against Liver Fibrosis. <i>Mediators of Inflammation</i> , 2016, 2016, 1-16.	1.4	81

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19	ITGA5 inhibition in pancreatic stellate cells attenuates desmoplasia and potentiates efficacy of chemotherapy in pancreatic cancer. <i>Science Advances</i> , 2019, 5, eaax2770.	4.7	81
20	Novel engineered targeted interferon-gamma blocks hepatic fibrogenesis in mice. <i>Hepatology</i> , 2011, 54, 586-596.	3.6	80
21	Nanomedicine Strategies to Target Tumor-Associated Macrophages. <i>International Journal of Molecular Sciences</i> , 2017, 18, 979.	1.8	79
22	MicroRNA-199a and -214 as potential therapeutic targets in pancreatic stellate cells in pancreatic tumor. <i>Oncotarget</i> , 2016, 7, 16396-16408.	0.8	72
23	Selective delivery of IFN γ to renal interstitial myofibroblasts: a novel strategy for the treatment of renal fibrosis. <i>FASEB Journal</i> , 2015, 29, 1029-1042.	0.2	70
24	The interplay of the Notch signaling in hepatic stellate cells and macrophages determines the fate of liver fibrogenesis. <i>Scientific Reports</i> , 2016, 5, 18272.	1.6	70
25	Acute kidney injury in late pregnancy in developing countries. <i>Renal Failure</i> , 2010, 32, 309-313.	0.8	67
26	Changing picture of acute kidney injury in pregnancy: Study of 259 cases over a period of 33 years. <i>Indian Journal of Nephrology</i> , 2016, 26, 262.	0.2	66
27	Differential uptake of nanoparticles by human M1 and M2 polarized macrophages: protein corona as a critical determinant. <i>Nanomedicine</i> , 2016, 11, 2889-2902.	1.7	63
28	Inhibition of Renal Rho Kinase Attenuates Ischemia/Reperfusion-Induced Injury. <i>Journal of the American Society of Nephrology: JASN</i> , 2008, 19, 2086-2097.	3.0	62
29	Cancer-Associated Fibroblasts: Perspectives in Cancer Therapy. <i>Trends in Cancer</i> , 2016, 2, 277-279.	3.8	61
30	Integrin alpha 11 in the regulation of the myofibroblast phenotype: implications for fibrotic diseases. <i>Experimental and Molecular Medicine</i> , 2017, 49, e396-e396.	3.2	61
31	Intracellular Delivery of the p38 Mitogen-Activated Protein Kinase Inhibitor SB202190 [4-(4-Fluorophenyl)-2-(4-hydroxyphenyl)-5-(4-pyridyl)1H-imidazole] in Renal Tubular Cells: A Novel Strategy to Treat Renal Fibrosis. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 319, 8-19.	1.3	59
32	Acute Renal Failure in Pregnancy in a Developing Country: Twenty Years of Experience. <i>Renal Failure</i> , 2006, 28, 309-313.	0.8	58
33	c-Jun NH ₂ -Terminal Kinase Is Crucially Involved in Renal Tubulo-Interstitial Inflammation. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 331, 896-905.	1.3	58
34	Acute renal failure in Falciparum malaria--increasing prevalence in some areas of India--a need for awareness. <i>Nephrology Dialysis Transplantation</i> , 1996, 11, 2414-2416.	0.4	55
35	Reprogramming tumor stroma using an endogenous lipid lipoxin A4 to treat pancreatic cancer. <i>Cancer Letters</i> , 2018, 420, 247-258.	3.2	55
36	Reduction of Fibrogenesis by Selective Delivery of a Rho Kinase Inhibitor to Hepatic Stellate Cells in Mice. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2011, 337, 628-635.	1.3	53

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37	Translating complexity and heterogeneity of pancreatic tumor: 3D in vitro to in vivo models. <i>Advanced Drug Delivery Reviews</i> , 2021, 174, 265-293.	6.6	53
38	A novel approach to deliver anticancer drugs to key cell types in tumors using a PDGF receptor-binding cyclic peptide containing carrier. <i>Journal of Controlled Release</i> , 2010, 145, 91-101.	4.8	52
39	Nanomedicine strategies to target coronavirus. <i>Nano Today</i> , 2020, 35, 100961.	6.2	48
40	Acute renal failure in <i>Plasmodium vivax</i> malaria. <i>Journal of the Association of Physicians of India</i> , The, 2003, 51, 265-7.	0.0	48
41	Selective Targeting of Interferon \hat{I}^3 to Stromal Fibroblasts and Pericytes as a Novel Therapeutic Approach to Inhibit Angiogenesis and Tumor Growth. <i>Molecular Cancer Therapeutics</i> , 2012, 11, 2419-2428.	1.9	46
42	Acute kidney injury in pregnancy-specific disorders. <i>Indian Journal of Nephrology</i> , 2017, 27, 258.	0.2	46
43	Delivery of the p38 MAPkinase Inhibitor SB202190 to Angiogenic Endothelial Cells: Development of Novel RGD-Equipped and PEGylated Drug-Albumin Conjugates Using Platinum(II)-Based Drug Linker Technology. <i>Bioconjugate Chemistry</i> , 2006, 17, 1246-1255.	1.8	45
44	The kidney in pregnancy: A journey of three decades. <i>Indian Journal of Nephrology</i> , 2012, 22, 159.	0.2	45
45	Cell-specific Delivery of a Transforming Growth Factor-beta Type I Receptor Kinase Inhibitor to Proximal Tubular Cells for the Treatment of Renal Fibrosis. <i>Pharmaceutical Research</i> , 2008, 25, 2427-2439.	1.7	44
46	Peptide-Modified Albumin Carrier Explored as a Novel Strategy for a Cell-Specific Delivery of Interferon Gamma To Treat Liver Fibrosis. <i>Molecular Pharmaceutics</i> , 2011, 8, 1899-1909.	2.3	43
47	PEGylation improves pharmacokinetic profile, liver uptake and efficacy of Interferon gamma in liver fibrosis. <i>Journal of Controlled Release</i> , 2011, 154, 233-240.	4.8	41
48	Integrin \hat{I}^11 in pancreatic stellate cells regulates tumor stroma interaction in pancreatic cancer. <i>FASEB Journal</i> , 2019, 33, 6609-6621.	0.2	41
49	Interferon gamma peptidomimetic targeted to hepatic stellate cells ameliorates acute and chronic liver fibrosis in vivo. <i>Journal of Controlled Release</i> , 2014, 179, 18-24.	4.8	39
50	Tyrosine kinase inhibitor BIBF1120 ameliorates inflammation, angiogenesis and fibrosis in CCl4-induced liver fibrogenesis mouse model. <i>Scientific Reports</i> , 2017, 7, 44545.	1.6	39
51	SIRT1 inhibition in pancreatic cancer models: Contrasting effects in vitro and in vivo. <i>European Journal of Pharmacology</i> , 2015, 757, 59-67.	1.7	38
52	Acute kidney injury in pregnancy with special reference to pregnancy-specific disorders: a hospital based study (2014-2016). <i>Journal of Nephrology</i> , 2018, 31, 79-85.	0.9	38
53	Tailoring the physicochemical properties of core-crosslinked polymeric micelles for pharmaceutical applications. <i>Journal of Controlled Release</i> , 2016, 244, 314-325.	4.8	37
54	Therapeutic inhibition of spleen tyrosine kinase in inflammatory macrophages using PLGA nanoparticles for the treatment of non-alcoholic steatohepatitis. <i>Journal of Controlled Release</i> , 2018, 288, 227-238.	4.8	37

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55	Increased Liver Uptake and Reduced Hepatic Stellate Cell Activation with a Cell-Specific Conjugate of the Rho-kinase Inhibitor Y27632. <i>Pharmaceutical Research</i> , 2011, 28, 2045-2054.	1.7	35
56	Fibroblast growth factor 2 conjugated superparamagnetic iron oxide nanoparticles (FGF2-SPIONs) ameliorate hepatic stellate cells activation in vitro and acute liver injury in vivo. <i>Journal of Controlled Release</i> , 2020, 328, 640-652.	4.8	35
57	Tumor-targeted intracellular delivery of anticancer drugs through the mannose-6-phosphate/insulin-like growth factor II receptor. <i>International Journal of Cancer</i> , 2010, 126, 1966-1981.	2.3	34
58	Causes of death in renal transplant recipients with functioning allograft. <i>Indian Journal of Nephrology</i> , 2012, 22, 264.	0.2	34
59	Preclinical detection of liver fibrosis using dual-modality photoacoustic/ultrasound system. <i>Biomedical Optics Express</i> , 2016, 7, 5081.	1.5	32
60	Sonoprinting liposomes on tumor spheroids by microbubbles and ultrasound. <i>Journal of Controlled Release</i> , 2019, 316, 79-92.	4.8	32
61	Anti-microRNA targeting using peptide-based nanocomplexes to inhibit differentiation of human pancreatic stellate cells. <i>Nanomedicine</i> , 2017, 12, 1369-1384.	1.7	31
62	A novel approach for the intravenous delivery of leuprolide using core-cross-linked polymeric micelles. <i>Journal of Controlled Release</i> , 2015, 205, 98-108.	4.8	30
63	Stroma-regulated HMGA2 is an independent prognostic marker in PDAC and AAC. <i>British Journal of Cancer</i> , 2017, 117, 65-77.	2.9	30
64	FGF2 engineered SPIONs attenuate tumor stroma and potentiate the effect of chemotherapy in 3D heterospheroidal model of pancreatic tumor. <i>Nanotheranostics</i> , 2020, 4, 26-39.	2.7	30
65	Engineered Relaxin as theranostic nanomedicine to diagnose and ameliorate liver cirrhosis. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 17, 106-118.	1.7	28
66	Enhanced Effectivity of an ALK5-Inhibitor after Cell-Specific Delivery to Hepatic Stellate Cells in Mice with Liver Injury. <i>PLoS ONE</i> , 2013, 8, e56442.	1.1	28
67	Spectrum of renal cortical necrosis in acute renal failure in eastern India.. <i>Postgraduate Medical Journal</i> , 1995, 71, 208-210.	0.9	27
68	Renal cortical necrosis in pregnancy-related acute renal failure. <i>Journal of the Indian Medical Association</i> , 1996, 94, 227-9.	0.2	27
69	Anticancer Effects of 15d-Prostaglandin-J2 in Wild-Type and Doxorubicin-Resistant Ovarian Cancer Cells: Novel Actions on SIRT1 and HDAC. <i>PLoS ONE</i> , 2011, 6, e25192.	1.1	26
70	Mimicking tumor microenvironment by 3D bioprinting: 3D cancer modeling. <i>Biofabrication</i> , 2022, 14, 032002.	3.7	26
71	Fibroblasts and extracellular matrix: Targeting and therapeutic tools in fibrosis and cancer. <i>Advanced Drug Delivery Reviews</i> , 2017, 121, 1-2.	6.6	25
72	Non-diabetic renal disease in type 2 diabetes mellitus: Study of renal - retinal relationship. <i>Indian Journal of Nephrology</i> , 2015, 25, 222.	0.2	24

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73	Targeted Recombinant Fusion Proteins of IFN β and Mimetic IFN β with PDGF β Bicyclic Peptide Inhibits Liver Fibrogenesis In Vivo. PLoS ONE, 2014, 9, e89878.	1.1	23
74	Mucocutaneous lesions in transplant recipient in a tropical country. Transplantation Proceedings, 2004, 36, 2162-2164.	0.3	22
75	Renal targeting of kinase inhibitors. International Journal of Pharmaceutics, 2008, 364, 249-257.	2.6	22
76	Spectrum of renal diseases in the elderly: single center experience from a developing country. International Urology and Nephrology, 2001, 33, 227-233.	0.6	21
77	Intervention in growth factor activated signaling pathways by renally targeted kinase inhibitors. Journal of Controlled Release, 2008, 132, 200-207.	4.8	21
78	Non-diabetic renal disease in patients with type 2 diabetes mellitus. Journal of the Association of Physicians of India, The, 2001, 49, 415-20.	0.0	21
79	Diabetic retinopathy is a poor predictor of type of nephropathy in proteinuric type 2 diabetic patients. Journal of the Association of Physicians of India, The, 2007, 55, 412-6.	0.0	21
80	Albumin-Binding and Tumor Vasculature Determine the Antitumor Effect of 15-Deoxy- $\Delta^{12,14}$ -Prostaglandin- J_2 in vivo. Neoplasia, 2009, 11, 1348-1358.	2.3	20
81	Acute renal failure in eastern India. Nephrology Dialysis Transplantation, 1995, 10, 2009-12.	0.4	20
82	Hypertension in pregnancy: hospital based study. Journal of the Association of Physicians of India, The, 2006, 54, 273-8.	0.0	20
83	Interferon gamma peptidomimetic targeted to interstitial myofibroblasts attenuates renal fibrosis after unilateral ureteral obstruction in mice. Oncotarget, 2016, 7, 54240-54252.	0.8	19
84	RENAL-SELECTIVE DELIVERY AND ANGIOTENSIN-CONVERTING ENZYME INHIBITION BY SUBCUTANEOUSLY ADMINISTERED CAPTOPRIL-LYSOZYME. Drug Metabolism and Disposition, 2005, 33, 683-688.	1.7	18
85	Targeted inhibition of renal Rho kinase reduces macrophage infiltration and lymphangiogenesis in acute renal allograft rejection. European Journal of Pharmacology, 2012, 694, 111-119.	1.7	18
86	Stromal Targets for Fluorescent-Guided Oncologic Surgery. Frontiers in Oncology, 2015, 5, 254.	1.3	18
87	TG101348, a selective JAK2 antagonist, ameliorates hepatic fibrogenesis <i>in vivo</i> . FASEB Journal, 2019, 33, 9466-9475.	0.2	16
88	Role of spleen tyrosine kinase in liver diseases. World Journal of Gastroenterology, 2020, 26, 1005-1019.	1.4	16
89	Non-infectious complications of continuous ambulatory peritoneal dialysis and their impact on technique survival. Indian Journal of Nephrology, 2011, 21, 112.	0.2	15
90	Acute kidney injury in patients with human immunodeficiency virus infection. Indian Journal of Nephrology, 2015, 25, 86.	0.2	14

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91	Cell type-specific pharmacological kinase inhibition for cancer chemoprevention. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 317-325.	1.7	12
92	Nanomedicine Strategies to Enhance Tumor Drug Penetration in Pancreatic Cancer. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 6313-6328.	3.3	12
93	Complications of percutaneous renal biopsy. <i>Journal of the Indian Medical Association</i> , 1994, 92, 395-6.	0.2	12
94	Acute renal failure in the intensive care unit. <i>Journal of the Association of Physicians of India</i> , The, 2006, 54, 784-8.	0.0	12
95	Renal targeting of captopril using captopril-lysozyme conjugate enhances its antiproteinuric effect in adriamycin-induced nephrosis. <i>JRAAS - Journal of the Renin-Angiotensin-Aldosterone System</i> , 2004, 5, 197-202.	1.0	11
96	Acute renal failure complicating rifampicin therapy. <i>Journal of the Association of Physicians of India</i> , The, 2001, 49, 877-80.	0.0	10
97	Apoptosis-inducing peptide loaded in PLGA nanoparticles induces anti-tumor effects in vivo. <i>International Journal of Pharmaceutics</i> , 2020, 585, 119535.	2.6	9
98	Multiple myeloma--presenting as acute kidney injury. <i>Journal of the Association of Physicians of India</i> , The, 2009, 57, 23-6.	0.0	9
99	Bioanalysis and pharmacokinetics of the p38 MAPkinase inhibitor SB202190 in rats. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005, 826, 220-225.	1.2	7
100	Hepatitis C Virus Nonstructural 3/4A Protein Dampens Inflammation and Contributes to Slow Fibrosis Progression during Chronic Fibrosis In Vivo. <i>PLoS ONE</i> , 2015, 10, e0128466.	1.1	7
101	High systemic availability of core-crosslinked polymeric micelles after subcutaneous administration. <i>International Journal of Pharmaceutics</i> , 2016, 514, 112-120.	2.6	7
102	Kidney disease in human immunodeficiency virus-seropositive patients: Absence of human immunodeficiency virus-associated nephropathy was a characteristic feature. <i>Indian Journal of Nephrology</i> , 2017, 27, 271.	0.2	6
103	Novel Therapeutic Targets for the Treatment of Tubulointerstitial Fibrosis. <i>Current Signal Transduction Therapy</i> , 2008, 3, 97-111.	0.3	5
104	Specific delivery of kinase inhibitors in nonmalignant and malignant diseases. <i>Expert Opinion on Drug Delivery</i> , 2012, 9, 59-70.	2.4	5
105	Biomaterials for on-chip organ systems. , 2020, , 669-707.		5
106	Novel 3D Â tissues Mimicking the Fibrotic Stroma in Pancreatic Cancer to Study Cellular Interactions and Stroma-Modulating Therapeutics. <i>Cancers</i> , 2021, 13, 5006.	1.7	5
107	Impact of endotoxins on bioengineered tissues and models. <i>Trends in Biotechnology</i> , 2022, 40, 532-534.	4.9	5
108	Targeting tumor stromal cells through a PDGF-beta receptor binding carrier. <i>Journal of Controlled Release</i> , 2010, 148, e116.	4.8	4

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109	Bardet-Biedl syndrome presenting with steroid sensitive nephrotic syndrome. Indian Journal of Nephrology, 2015, 25, 300.	0.2	4
110	Upper gastrointestinal mucosal lesions in chronic renal failure. Indian Journal of Gastroenterology, 1991, 10, 131-2.	0.7	4
111	Editorial: Novel Targets and Targeting Technologies to Modulate Tumor Microenvironment. Frontiers in Oncology, 2016, 6, 121.	1.3	3
112	Advancing Tumor Microenvironment Research by Combining Organs-on-Chips and Biosensors. Advances in Experimental Medicine and Biology, 2022, , 171-203.	0.8	3
113	Renal cortical necrosis in a live kidney donor. Indian Journal of Nephrology, 2012, 22, 48.	0.2	2
114	355 Targeting the STAT6 pathway to inhibit tumor-associated macrophages-induced tumor growth and metastasis in breast cancer. European Journal of Cancer, 2015, 51, S72-S73.	1.3	1
115	Src kinase as a potential therapeutic target in non-alcoholic and alcoholic steatohepatitis. Clinical and Translational Discovery, 2022, 2, .	0.2	1
116	Editorial [Hot Topic: Towards Tailored Treatment - New Organ-Specific Drug Strategies Interfering in Signal Transduction (Guest Editors: Jai Prakash and Martin H. de Borst)]. Current Signal Transduction Therapy, 2011, 6, 234-236.	0.3	0
117	Cancer Modeling: 3D-Bioprinted Mini-Brain: A Glioblastoma Model to Study Cellular Interactions and Therapeutics (Adv. Mater. 14/2019). Advanced Materials, 2019, 31, 1970101.	11.1	0
118	Infectious complications in renal allograft recipients. Transplantation Proceedings, 1992, 24, 1943.	0.3	0
119	Ischemic nephropathy. Journal of the Association of Physicians of India, The, 1999, 47, 1100-5.	0.0	0