

Arun K Iyer

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

107
papers

7,477
citations

43
h-index

86
g-index

117
ext. papers

8,647
ext. citations

7
avg, IF

6.37
L-index

#	Paper	IF	Citations
107	Exploiting the enhanced permeability and retention effect for tumor targeting. <i>Drug Discovery Today</i> , 2006 , 11, 812-8	8.8	1422
106	PD-1 and PD-L1 Checkpoint Signaling Inhibition for Cancer Immunotherapy: Mechanism, Combinations, and Clinical Outcome. <i>Frontiers in Pharmacology</i> , 2017 , 8, 561	5.6	804
105	Hyaluronic acid based self-assembling nanosystems for CD44 target mediated siRNA delivery to solid tumors. <i>Biomaterials</i> , 2013 , 34, 3489-502	15.6	266
104	Recent advances in dendrimer-based nanovectors for tumor-targeted drug and gene delivery. <i>Drug Discovery Today</i> , 2015 , 20, 536-47	8.8	256
103	Role of integrated cancer nanomedicine in overcoming drug resistance. <i>Advanced Drug Delivery Reviews</i> , 2013 , 65, 1784-802	18.5	234
102	PEGylated PAMAM dendrimers: Enhancing efficacy and mitigating toxicity for effective anticancer drug and gene delivery. <i>Acta Biomaterialia</i> , 2016 , 43, 14-29	10.8	226
101	siRNA Delivery Strategies: A Comprehensive Review of Recent Developments. <i>Nanomaterials</i> , 2017 , 7,	5.4	222
100	PAMAM dendrimers as promising nanocarriers for RNAi therapeutics. <i>Materials Today</i> , 2015 , 18, 565-572	11.8	176
99	Dendrimer nanoarchitectures for cancer diagnosis and anticancer drug delivery. <i>Drug Discovery Today</i> , 2017 , 22, 314-326	8.8	141
98	Hyaluronic acid-conjugated polyamidoamine dendrimers for targeted delivery of 3,4-difluorobenzylidene curcumin to CD44 overexpressing pancreatic cancer cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 136, 413-23	6	130
97	Recent advances in hyaluronic acid-decorated nanocarriers for targeted cancer therapy. <i>Drug Discovery Today</i> , 2017 , 22, 665-680	8.8	123
96	Recent advances in the design, development, and targeting mechanisms of polymeric micelles for delivery of siRNA in cancer therapy. <i>Progress in Polymer Science</i> , 2017 , 64, 154-181	29.6	117
95	Doxorubicin loaded Polymeric Nanoparticulate Delivery System to overcome drug resistance in osteosarcoma. <i>BMC Cancer</i> , 2009 , 9, 399	4.8	115
94	Inhibition of ABCB1 (MDR1) expression by an siRNA nanoparticulate delivery system to overcome drug resistance in osteosarcoma. <i>PLoS ONE</i> , 2010 , 5, e10764	3.7	111
93	In vivo biodistribution of siRNA and cisplatin administered using CD44-targeted hyaluronic acid nanoparticles. <i>Journal of Controlled Release</i> , 2013 , 172, 699-706	11.7	108
92	Advances in antibody-drug conjugates: A new era of targeted cancer therapy. <i>Drug Discovery Today</i> , 2017 , 22, 1547-1556	8.8	106
91	Polyvalent Folate-Dendrimer-Coated Iron Oxide Theranostic Nanoparticles for Simultaneous Magnetic Resonance Imaging and Precise Cancer Cell Targeting. <i>Biomacromolecules</i> , 2017 , 18, 1197-1209	6.9	103

90	Hyaluronic Acid Engineered Nanomicelles Loaded with 3,4-Difluorobenzylidene Curcumin for Targeted Killing of CD44+ Stem-Like Pancreatic Cancer Cells. <i>Biomacromolecules</i> , 2015 , 16, 3042-53	6.9	102
89	Combinatorial-designed multifunctional polymeric nanosystems for tumor-targeted therapeutic delivery. <i>Accounts of Chemical Research</i> , 2011 , 44, 1009-17	24.3	100
88	Combination of siRNA-directed Gene Silencing With Cisplatin Reverses Drug Resistance in Human Non-small Cell Lung Cancer. <i>Molecular Therapy - Nucleic Acids</i> , 2013 , 2, e110	10.7	97
87	The use of nanoscaffolds and dendrimers in tissue engineering. <i>Drug Discovery Today</i> , 2017 , 22, 652-664	8.8	90
86	MDR1 siRNA loaded hyaluronic acid-based CD44 targeted nanoparticle systems circumvent paclitaxel resistance in ovarian cancer. <i>Scientific Reports</i> , 2015 , 5, 8509	4.9	90
85	Multifunctional nanoparticles for cancer immunotherapy: A groundbreaking approach for reprogramming malfunctioned tumor environment. <i>Journal of Controlled Release</i> , 2018 , 274, 24-34	11.7	89
84	Polymeric micelles of zinc protoporphyrin for tumor targeted delivery based on EPR effect and singlet oxygen generation. <i>Journal of Drug Targeting</i> , 2007 , 15, 496-506	5.4	87
83	Recent advances in TPGS-based nanoparticles of docetaxel for improved chemotherapy. <i>International Journal of Pharmaceutics</i> , 2017 , 529, 506-522	6.5	79
82	High-loading nanosized micelles of copoly(styrene-maleic acid)-zinc protoporphyrin for targeted delivery of a potent heme oxygenase inhibitor. <i>Biomaterials</i> , 2007 , 28, 1871-81	15.6	79
81	Dendrimer nano hybrid carrier systems: an expanding horizon for targeted drug and gene delivery. <i>Drug Discovery Today</i> , 2018 , 23, 300-314	8.8	73
80	Parenterally administrable nano-micelles of 3,4-difluorobenzylidene curcumin for treating pancreatic cancer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 132, 138-45	6	71
79	Assessment of penetration potential of pH responsive double walled biodegradable nanogels coated with eucalyptus oil for the controlled delivery of 5-fluorouracil: In vitro and ex vivo studies. <i>Journal of Controlled Release</i> , 2017 , 253, 122-136	11.7	70
78	Folic acid conjugated polymeric micelles loaded with a curcumin difluorinated analog for targeting cervical and ovarian cancers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 157, 490-502	6	66
77	Comprehensive review on various strategies for antimalarial drug discovery. <i>European Journal of Medicinal Chemistry</i> , 2017 , 125, 1300-1320	6.8	63
76	Moxifloxacin loaded gelatin nanoparticles for ocular delivery: Formulation and in-vitro, in-vivo evaluation. <i>Journal of Colloid and Interface Science</i> , 2016 , 483, 132-138	9.3	62
75	Cluster of Differentiation 44 Targeted Hyaluronic Acid Based Nanoparticles for MDR1 siRNA Delivery to Overcome Drug Resistance in Ovarian Cancer. <i>Pharmaceutical Research</i> , 2015 , 32, 2097-109	4.5	61
74	Dendrimer-mediated approaches for the treatment of brain tumor. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2016 , 27, 557-80	3.5	61
73	In Vivo Antitumor Activity of Folate-Conjugated Cholic Acid-Polyethylenimine Micelles for the Codelivery of Doxorubicin and siRNA to Colorectal Adenocarcinomas. <i>Molecular Pharmaceutics</i> , 2015 , 12, 4247-58	5.6	59

72	Nanostructured lipid carriers employing polyphenols as promising anticancer agents: Quality by design (QbD) approach. <i>International Journal of Pharmaceutics</i> , 2017 , 526, 506-515	6.5	58
71	Paclitaxel and di-fluorinated curcumin loaded in albumin nanoparticles for targeted synergistic combination therapy of ovarian and cervical cancers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 167, 8-19	6	56
70	PLGA Nanoparticles and Their Versatile Role in Anticancer Drug Delivery. <i>Critical Reviews in Therapeutic Drug Carrier Systems</i> , 2016 , 33, 159-93	2.8	56
69	Nano-engineered delivery systems for cancer imaging and therapy: Recent advances, future direction and patent evaluation. <i>Drug Discovery Today</i> , 2019 , 24, 462-491	8.8	55
68	Solubility enhancement and targeted delivery of a potent anticancer flavonoid analogue to cancer cells using ligand decorated dendrimer nano-architectures. <i>Journal of Colloid and Interface Science</i> , 2016 , 484, 33-43	9.3	48
67	Fluorescence-guided optical coherence tomography imaging for colon cancer screening: a preliminary mouse study. <i>Biomedical Optics Express</i> , 2012 , 3, 178-91	3.5	48
66	pH responsive biodegradable nanogels for sustained release of bleomycin. <i>Bioorganic and Medicinal Chemistry</i> , 2017 , 25, 4595-4613	3.4	45
65	Synthesis and characterization of folate decorated albumin bio-conjugate nanoparticles loaded with a synthetic curcumin difluorinated analogue. <i>Journal of Colloid and Interface Science</i> , 2017 , 496, 290-299	9.3	43
64	Nanomedicine for cancer diagnosis and therapy: advancement, success and structure-activity relationship. <i>Therapeutic Delivery</i> , 2017 , 8, 1003-1018	3.8	42
63	Progress in Clinical Trials of Photodynamic Therapy for Solid Tumors and the Role of Nanomedicine. <i>Cancers</i> , 2020 , 12,	6.6	38
62	Tumor hypoxia directed multimodal nanotherapy for overcoming drug resistance in renal cell carcinoma and reprogramming macrophages. <i>Biomaterials</i> , 2018 , 183, 280-294	15.6	38
61	CD44 directed nanomicellar payload delivery platform for selective anticancer effect and tumor specific imaging of triple negative breast cancer. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018 , 14, 1441-1454	6	37
60	Styrene maleic acid-pirarubicin disrupts tumor microcirculation and enhances the permeability of colorectal liver metastases. <i>Journal of Vascular Research</i> , 2009 , 46, 218-28	1.9	37
59	The effect of internalizing human single chain antibody fragment on liposome targeting to epithelioid and sarcomatoid mesothelioma. <i>Biomaterials</i> , 2011 , 32, 2605-13	15.6	37
58	pH Responsive 5-Fluorouracil Loaded Biocompatible Nanogels For Topical Chemotherapy of Aggressive Melanoma. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 174, 232-245	6	37
57	Nanodelivery systems for nucleic acid therapeutics in drug resistant tumors. <i>Molecular Pharmaceutics</i> , 2014 , 11, 2511-26	5.6	36
56	Oxystress inducing antitumor therapeutics via tumor-targeted delivery of PEG-conjugated D-amino acid oxidase. <i>International Journal of Cancer</i> , 2008 , 122, 1135-44	7.5	36
55	Cationic bovine serum albumin (CBA) conjugated poly lactic-co-glycolic acid (PLGA) nanoparticles for extended delivery of methotrexate into brain tumors. <i>RSC Advances</i> , 2016 , 6, 89040-89050	3.7	35

54	Lipid-functionalized dextran nanosystems to overcome multidrug resistance in cancer: a pilot study. <i>Clinical Orthopaedics and Related Research</i> , 2013 , 471, 915-25	2.2	33
53	Dendrimers as an Effective Nanocarrier in Cardiovascular Disease. <i>Current Pharmaceutical Design</i> , 2015 , 21, 4519-26	3.3	33
52	PDL-1 Antibody Drug Conjugate for Selective Chemo-Guided Immune Modulation of Cancer. <i>Cancers</i> , 2019 , 11,	6.6	32
51	pH-Responsive Triblock Copolymeric Micelles Decorated with a Cell-Penetrating Peptide Provide Efficient Doxorubicin Delivery. <i>Nanoscale Research Letters</i> , 2016 , 11, 539	5	28
50	Development of asialoglycoprotein receptor directed nanoparticles for selective delivery of curcumin derivative to hepatocellular carcinoma. <i>Heliyon</i> , 2018 , 4, e01071	3.6	28
49	Targeting prostate cancer cells in vivo using a rapidly internalizing novel human single-chain antibody fragment. <i>Journal of Nuclear Medicine</i> , 2010 , 51, 427-32	8.9	26
48	Folate Decorated Nanomicelles Loaded with a Potent Curcumin Analogue for Targeting Retinoblastoma. <i>Pharmaceutics</i> , 2017 , 9,	6.4	24
47	Evaluation of the effect of SMA-pirarubicin micelles on colorectal cancer liver metastases and of hyperbaric oxygen in CBA mice. <i>Journal of Drug Targeting</i> , 2007 , 15, 487-95	5.4	24
46	Recent advances in nano delivery systems for blood-brain barrier (BBB) penetration and targeting of brain tumors. <i>Drug Discovery Today</i> , 2021 , 26, 1944-1952	8.8	23
45	Combination of cationic dexamethasone derivative and STAT3 inhibitor (WP1066) for aggressive melanoma: a strategy for repurposing a phase I clinical trial drug. <i>Molecular and Cellular Biochemistry</i> , 2017 , 436, 119-136	4.2	22
44	Radiolabeled oligonucleotides for antisense imaging. <i>Current Organic Synthesis</i> , 2011 , 8, 604-614	1.9	22
43	SMA-copolymer conjugate of AHPP: a polymeric inhibitor of xanthine oxidase with potential antihypertensive effect. <i>Journal of Controlled Release</i> , 2009 , 135, 211-7	11.7	22
42	Copper-Free Click Chemistry-Based Synthesis and Characterization of Carbonic Anhydrase-IX Anchored Albumin-Paclitaxel Nanoparticles for Targeting Tumor Hypoxia. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	20
41	Multifunctional nanoparticles for targeting cancer and inflammatory diseases. <i>Journal of Drug Targeting</i> , 2013 , 21, 888-903	5.4	19
40	A tumor multicomponent targeting chemoimmune drug delivery system for reprogramming the tumor microenvironment and personalized cancer therapy. <i>Drug Discovery Today</i> , 2018 , 23, 1344-1356	8.8	18
39	Graphene Decorated Zinc Oxide and Curcumin to Disinfect the Methicillin-Resistant. <i>Nanomaterials</i> , 2020 , 10,	5.4	18
38	Targeting of heat-shock protein 32/heme oxygenase-1 in canine mastocytoma cells is associated with reduced growth and induction of apoptosis. <i>Experimental Hematology</i> , 2008 , 36, 1461-70	3.1	17
37	Novel human single chain antibody fragments that are rapidly internalizing effectively target epithelioid and sarcomatoid mesotheliomas. <i>Cancer Research</i> , 2011 , 71, 2428-32	10.1	16

36	A CARP-1 functional mimetic loaded vitamin E-TPGS micellar nano-formulation for inhibition of renal cell carcinoma. <i>Oncotarget</i> , 2017 , 8, 104928-104945	3.3	16
35	Novel approaches for the treatment of methicillin-resistant Staphylococcus aureus: Using nanoparticles to overcome multidrug resistance. <i>Drug Discovery Today</i> , 2021 , 26, 31-43	8.8	16
34	Interactions Between Tumor Biology and Targeted Nanoplatfoms for Imaging Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 1910402	15.6	15
33	Improving the therapeutic efficiency of noncoding RNAs in cancers using targeted drug delivery systems. <i>Drug Discovery Today</i> , 2020 , 25, 718-730	8.8	15
32	Tissue protective effect of xanthine oxidase inhibitor, polymer conjugate of (styrene-maleic acid copolymer) and (4-amino-6-hydroxypyrazolo[3,4-d]pyrimidine), on hepatic ischemia-reperfusion injury. <i>Experimental Biology and Medicine</i> , 2010 , 235, 487-96	3.7	13
31	Nano-constructed Carriers Loaded With Antioxidant: Boon For Cardiovascular System. <i>Current Pharmaceutical Design</i> , 2015 , 21, 4456-64	3.3	13
30	Combination of Vancomycin and Cefazolin Lipid Nanoparticles for Overcoming Antibiotic Resistance of MRSA. <i>Materials</i> , 2018 , 11,	3.5	12
29	A CARP-1 functional mimetic compound is synergistic with BRAF-targeting in non-small cell lung cancers. <i>Oncotarget</i> , 2018 , 9, 29680-29697	3.3	11
28	pH triggered and charge attracted nanogel for simultaneous evaluation of penetration and toxicity against skin cancer: In-vitro and ex-vivo study. <i>International Journal of Biological Macromolecules</i> , 2019 , 128, 740-751	7.9	9
27	Transferrin: Biology and Use in Receptor-Targeted Nanotherapy of Gliomas. <i>ACS Omega</i> , 2021 , 6, 8727-8733	3.3	9
26	Polymeric microspheres: a delivery system for osteogenic differentiation. <i>Polymers for Advanced Technologies</i> , 2017 , 28, 1595-1609	3.2	8
25	Molecular Docking Analysis of Caspase-3 Activators as Potential Anticancer Agents. <i>Current Computer-Aided Drug Design</i> , 2019 , 15, 55-66	1.4	8
24	Folate Receptors Expression in Gliomas May Possess Potential Nanoparticle-Based Drug Delivery Opportunities. <i>ACS Omega</i> , 2021 , 6, 4111-4118	3.9	8
23	An integrated computational approach of molecular dynamics simulations, receptor binding studies and pharmacophore mapping analysis in search of potent inhibitors against tuberculosis. <i>Journal of Molecular Graphics and Modelling</i> , 2018 , 83, 17-32	2.8	6
22	Carbonic Anhydrase-IX Guided Albumin Nanoparticles for Hypoxia-mediated Triple-Negative Breast Cancer Cell Killing and Imaging of Patient-derived Tumor. <i>Molecules</i> , 2020 , 25,	4.8	6
21	Multifunctional Stimuli Responsive Nanoparticles for Targeted Delivery of Small and Macromolecular Therapeutics 2010 , 555-585		4
20	Smart treatment strategies for alleviating tauopathy and neuroinflammation to improve clinical outcome in Alzheimer's disease. <i>Drug Discovery Today</i> , 2020 , 25, 2110-2129	8.8	4
19	Nano-therapeutic strategies to target coronavirus. <i>View</i> , 2021 , 2, 20200155	7.8	4

18	Discovering pH triggered charge rebound surface modulated topical nanotherapy against aggressive skin papilloma. <i>Materials Science and Engineering C</i> , 2020 , 107, 110263	8.3	4
17	CD44 Targeted Nanomaterials for Treatment of Triple-Negative Breast Cancer. <i>Cancers</i> , 2021 , 13,	6.6	4
16	A Biomimetic Drug Delivery System Targeting Tumor Hypoxia in Triple-Negative Breast Cancers. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1075	2.6	3
15	Nanomaterials for tumor immunomodulation and overcoming current clinical challenges. <i>Nanomedicine</i> , 2019 , 14, 1515-1519	5.6	3
14	Folate Functionalized Lipid Nanoparticles for Targeted Therapy of Methicillin-Resistant. <i>Pharmaceutics</i> , 2021 , 13,	6.4	3
13	Overcoming the Tumor Microenvironmental Barriers of Pancreatic Ductal Adenocarcinomas for Achieving Better Treatment Outcomes. <i>Advanced Therapeutics</i> , 2021 , 4, 2000262	4.9	2
12	LDL receptors and their role in targeted therapy for glioma: a review. <i>Drug Discovery Today</i> , 2021 , 26, 1212-1225	8.8	2
11	Image-Guided Delivery of Therapeutics to the Brain. <i>Advances in Delivery Science and Technology</i> , 2015 , 151-177		1
10	Polymeric Nanosystems for Integrated Image-Guided Cancer Therapy. <i>Frontiers in Nanobiomedical Research</i> , 2014 , 199-233		1
9	Nanogels: A New Dawn in Antimicrobial Chemotherapy 2017 , 101-137		1
8	Combined phased-array ultrasound and photoacoustic endoscope for gynecologic cancer imaging applications 2018 ,		1
7	Imaging the cellular components of the immune system for advancing diagnosis and immunotherapy of cancers. <i>Materials Today Advances</i> , 2021 , 10, 100138	7.4	1
6	Nanoparticles for Immune Cell Reprogramming and Reengineering of Tumor Microenvironment. <i>Methods in Molecular Biology</i> , 2020 , 2097, 211-221	1.4	0
5	Imaging tools to enhance animal tumor models for cancer research and drug discovery 2019 , 75-106		
4	Multifunctional Polymeric Nanosystems for RNA Interference Therapy 2013 , 1-32		
3	Exploring siRNA Umpired Nanogels: A Tale of Barrier Combating Carrier. <i>Current Pharmaceutical Design</i> , 2020 , 26, 3234-3250	3.3	
2	Polymeric Nanoparticles as Target-Specific Delivery Systems 2011 , 81-130		
1	Nano-Platforms for Tumor-Targeted Delivery of Nucleic Acid Therapies. <i>Advances in Delivery Science and Technology</i> , 2014 , 269-291		

